FINAL

ENGINEERING EVALUATION / COST ANALYSIS FOR ARSENIC IN SOIL VOLUMES I, II and III

SPRING VALLEY OPERABLE UNITS 4 AND 5 WASHINGTON, D.C.

CONTRACT DAHA90-94-D-0010,
TASK ORDER DA01
DERP-FUDS HTRW PROJECT
NO. C03DC091802

Prepared For:
U.S. ARMY CORPS
OF ENGINEERS
BALTIMORE DISTRICT



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December 17, 2003

Mr. Lan Reeser
CENAB-EN-HN
Baltimore District Corps of Engineers
10 South Howard Street
Baltimore, MD 21201

Re: Engineering Evaluation/Cost Analysis For Arsenic in Soil – Final, Volumes I, II, and III
Spring Valley Operable Units 4 and 5, Washington, DC
National Guard Bureau Contract No. DAHA90-94-D-0010, Task Order DA01
DERP-FUDS HTRW Project Number C03DC091802

Dear Mr. Reeser:

Enclosed are hard copies of the Final Spring Valley OU-4 and OU-5 EE/CA. Each hard copy contains a CD of the document in PDF format.

Volume I is the EE/CA report. Volume II is the presentation of the data tables and the data validation reports. Volume III includes the technical memos and other supporting sampling data.

With the inclusion of additional results from sites sampled since the Draft-Final version of this document, the EE/CA now covers all sampling from inception through September 30, 2003. This version reflects input from approximately 100 comments received from Community Members, the Spring Valley Restoration Advisory Board Technical Advisor, the DC Department of Health, American University, and comments/questions received at the August 2003 Community Meeting. The Responsiveness Summary document has been included in Volume I as Appendix C.

To assist the reader, the following summarizes the major changes from the July 2003 Draft-Final version of this EE/CA:

- The title of the document was changed to reflect that removal alternatives address only arsenic in soil, even though many other samples for analytes other than arsenic were collected.

- It was clarified that this document represents one specific step in the overall CERCLA process and that a supplementary document encompassing the forthcoming groundwater investigation and the complete assessment of the AUES List sampling results will be prepared.

- It was clarified that the arsenic screening level of 12.6 parts per million (ppm) and the remediation endpoint of 20 ppm reflect the Spring Valley Partners consensus approach to characterizing and remediating arsenic in Spring Valley, and are not risk-based numbers.

- It was clarified that the Technical Memoranda, presented in full in Volume III and summarized in Volume I, were limited studies and that no project decisions were based on their findings.

- It was clarified that Phytoremediation may become an appropriate remedy for some properties should the demonstration study so indicate. It is not currently available as a remediation alternative.

- DC Department of Health comments on the AUES List sampling, and the USACE's complete response to those comments, were added to Volume III.

If you have any questions, please call me at 703-934-2345.

Sincerely,

PARSONS

Thomas J. Bachovchin, P.G.
Project Manager

TJB:jb

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ENGINEERING EVALUATION / COST ANALYSIS FOR ARSENIC IN SOIL

SPRING VALLEY OPERABLE UNITS 4 and 5
WASHINGTON, D.C.

VOLUME I

CONTRACT DAHA90-94-D-0010, TASK ORDER DA01
DERP-FUDS HTRW PROJECT NO. C03DC091802

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Prepared By:

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December 17, 2003

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ACRONYM LIST

ABPs	Agent Breakdown Products
ANOVA	Analysis of Variance
ARARs	Applicable or Relevant and Appropriate Requirements
AU	American University
AUES	American University Experiment Station
bgs	Below Ground Surface
CDC	Child Development Center
CENAB	Corps of Engineers Baltimore District
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CF	Conversion Factor
COC	Chemical of Concern
COPC	Chemicals of Potential Concern
CSA	Comprehensive Sampling Area
CSM	Conceptual Site Model
CSS	Chemical Safety Submission
CTA	Central Testing Area
CVAA/CVAO	Chlorovinylarsonic acid/Chlorovinylarsine oxide
CWA	Clean Water Act
CWM	Chemical Warfare Materiel
DA	Department of the Army
DoD	Department of Defense
DCDOH	District of Columbia Department of Health
DERP/FUDS	Defense Environmental Restoration Program/Formerly Used Defense Sites
EA	Exposure Area
EE/CA	Engineering Evaluation/Cost Analysis
EPC	Exposure Point Concentration
EPCRA	Emergency Planning and Community Right-to-Know Act
FUDS	Formerly Used Defense Site
GSD	Geometric Standard Deviation
H	Mustard Agent
HBESL	Health-Based Environmental Screening Level

HEAST	Health Effects Assessment Summary Tables
HI	Hazard Index
HQ	Hazard Quotient
ICP	Inductively Coupled Plasma
IR	Soil Ingestion Rate
IRIS	Integrated Risk Information System
IUR	Inhalation Unit Risk
L	Lewisite
LDRs	Land Disposal Restrictions
LOAEL	Lowest-Observed-Adverse-Effect Level
MCLs	Maximum Contaminant Levels
Mg	Manor Glenelg
mg/kg	Milligram per Kilogram (parts per million)
mph	Miles per hour
NCP	National Contingency Plan
NOAEL	No-Observed-Adverse-Effect Level
NTCRA	Non-Time Critical Removal Action
OE	Ordnance and Explosives
OSHA	Occupational Safety and Health Act
OSR	Operation Safe Removal
OSR FUDS	Operation Site Removal Formerly Used Defense Site
OU-3	Operable Unit 3
OU-4	Operable Unit 4
OU-5	Operable Unit 5
Partners	The USEPA, DCDOH, and USACE
PEF	Particulate Emission Factor
POI	Point of Interest
PPM	Part-per-Million
PQL	Practical Quantitation Limit
PRGs	Preliminary Remediation Goals
PRSCs	Post Removal Site Controls
RA	Risk Assessment

RBCs	Risk-Based Concentrations
RCRA	Resource Conservation and Recovery Act
RfC	Reference Concentration
RfD	Reference Dose
RME	Reasonable Maximum Exposure
SDA	Small Disposal Area
SF	Slope Factor
SOW	Scope Of Work
SPLP	Synthetic Precipitate Leaching Procedure
SSLs	Soil Screening Levels
SSS	Site Safety Submission
SVOCs	Semi-Volatile Organic Compounds
TAL	Target Analyte List
TCL	Target Compound List
TCRA	Time Critical Removal Action
TEC	Topographic Engineering Center
UCL	Upper Confidence Limit
ULB	Urban Land Brandywine
ULMg	Urban Land-Manor Glenelg
ULSC	Urban Land-Sassafras Chillum
USACE	U.S. Army Corps Of Engineers
USAESCH	U.S. Army Engineering and Support Center, Huntsville
USEPA	United States Environmental Protection Agency
VOCs	Volatile Organic Compound

1

EXECUTIVE SUMMARY

E.1 EE/CA OVERVIEW

E.1.0.1 This Engineering Evaluation/Cost Analysis (EE/CA) for arsenic and other selected chemicals at Spring Valley Operable Unit 4 and Operable Unit 5 contains: a summary of the site history; a description of the site investigation and summary of the site investigation results; a description of the nature and extent of arsenic contamination; a risk evaluation summarizing remediation endpoints and comparison criteria; the objective and goal of the removal action; an analysis of identified removal action alternatives; and, a recommendation for the selected alternative. This document does not evaluate future actions related to non-arsenic compounds.

E.2 BACKGROUND AND SITE DESCRIPTION

E.2.0.1 To address potential contamination associated with activities conducted at the former American University Experiment Station (AUES), located in Spring Valley, Washington, DC, an investigation was undertaken by the U.S. Army Corps of Engineers (USACE). A remedial investigation (RI) of the Operation Safe Removal Formerly Used Defense Site (OSR FUDS) completed by the USACE in June 1995 (USACE, 1995) determined that no further action was required, with the exception of potential future characterization activities at an area designated as the Spaulding and Captain Rankin Areas. During a 1997 review of the 1995 RI (USACE 1998), resulting from a District of Columbia Department of Health (DCDOH) report, the area investigated on the American University campus during the 1995 RI as Point of Interest (POI) No. 24 was re-examined and re-positioned to 4801 Glenbrook Road. A geophysical investigation of the grounds at 4801 Glenbrook Road determined that two geophysical anomalies had the potential characteristics of burial pits or trenches. The pits were subsequently excavated and all Chemical Warfare Materiel (CWM), ordnance and explosive (OE) items, and hazardous items were removed for appropriate off-site disposal. Although the actual location of POI 24 has not yet been determined, future investigations will focus on the 4825 Glenbrook Road property.

E.2.0.2 To address concerns voiced by DCDOH, the United States Environmental Protection Agency (USEPA), Region III, collected surface soil and subsurface soil samples in and around 4801, 4825, and 4835 Glenbrook Road to supplement their Risk Assessment (USEPA, 1999a). Based on the interim results from the USEPA Region III sampling, historical information, and the USEPA Risk Assessment, it was determined that the soil of these three properties (4801, 4825, and 4835 Glenbrook Road) could have been impacted by AUES activities in the vicinity of the two burial pits. To evaluate the potential impact, the USACE performed a site investigation to determine the nature and extent of contamination found in the surface and subsurface soils of 4801 Glenbrook Road. This area was designated as Operable Unit 3 (OU-3).

E.2.0.3 The analysis of the USACE site investigation data and the USEPA data indicated elevated levels of arsenic at 4801, 4825, and 4835 Glenbrook Road. The subsurface samples identified elevated levels of arsenic in areas where the surface soil sample results also detected

elevated levels of arsenic. Based on the results of the OU-3 site investigation, an EE/CA (OU-3 EE/CA) (USACE, 2000b) and baseline risk assessments for 4801, 4825, and 4835 Glenbrook Road were prepared to respond to the potential hazard associated with arsenic contamination in the soil.

E.2.0.4 Based on the findings of the above investigations, an expanded area (approximately 91 acres) was further investigated as Operable Unit 4 (OU-4). OU-4 included approximately 80 private residences and significant portions of the current American University. This investigation indicated arsenic concentrations above risk-based concentrations and above normal background levels. In consultation with the USEPA and the DCDOH, the USACE then undertook an extensive characterization of the remaining Spring Valley FUDS boundary, some 577 acres, designated as Operable Unit 5 (OU-5). The soils of both OUs were characterized for arsenic and selected chemicals associated with AUES activities. This EE/CA addresses the findings of the OU-4 and OU-5 soil investigations.

E.3 OU-4 AND OU-5 CHARACTERIZATION

E.3.0.1 Within OU-4 and OU-5, all acreage, residential and non-residential, was divided into one-half acre (approximate) exposure areas, or sites, for sampling purposes. 1,484 sites were investigated and the soil characterized for arsenic contamination. Of these, 287 sites also had the soil characterized for selected CWM constituents representative of past practices at that specific site. The findings indicate that slightly more than 11% of the sites had arsenic above the screening criteria of 12.6 mg/kg (95^{th} percentile of the background data set). Although a small number of samples had detections for possible CWM degradation products, none of the sites contained any of the CWM or CWM degradation products at levels above their respective screening criteria.

E.4 EE/CA OBJECTIVE

E.4.0.1 The objective of this EE/CA is to evaluate and analyze site data and to recommend and justify a preferred alternative to address the contamination in the soil. The selected removal action alternative must be protective of human health and the environment. To ensure that the selected removal action alternative is also protective of groundwater and the potential for construction worker exposure, this EE/CA also addresses the potential for vertical migration of arsenic. The objective of this EE/CA does not include evaluation of future actions related to non-arsenic compounds in soil. This document does not address groundwater; a separate groundwater investigation is currently underway.

E.5 REMOVAL ACTION ALTERNATIVES

E.5.0.1 In order to satisfy the objectives, the following removal action alternatives were identified and evaluated:

- No Action;
- Institutional Controls and Engineering Controls;
- Phytoremediation (the use of plants to remove arsenic contamination);
- Soil Stabilization (the use of cement-like substances to prevent migration);
- Soil Washing (the use of solvents to remove arsenic contamination); and
- Excavation and Landfill Disposal (physical removal and landfilling of arsenic contamination).

E.6 RECOMMENDED ALTERNATIVE

E.6.0.1 Excavation and landfill disposal was selected as the recommended alternative for those areas of the Spring Valley FUDS identified as having arsenic in the soil above the remediation endpoint. This is the most effective alternative, achieves the project objectives in the timeliest manner, and has already been successfully implemented at various portions of the site.

1. INTRODUCTION

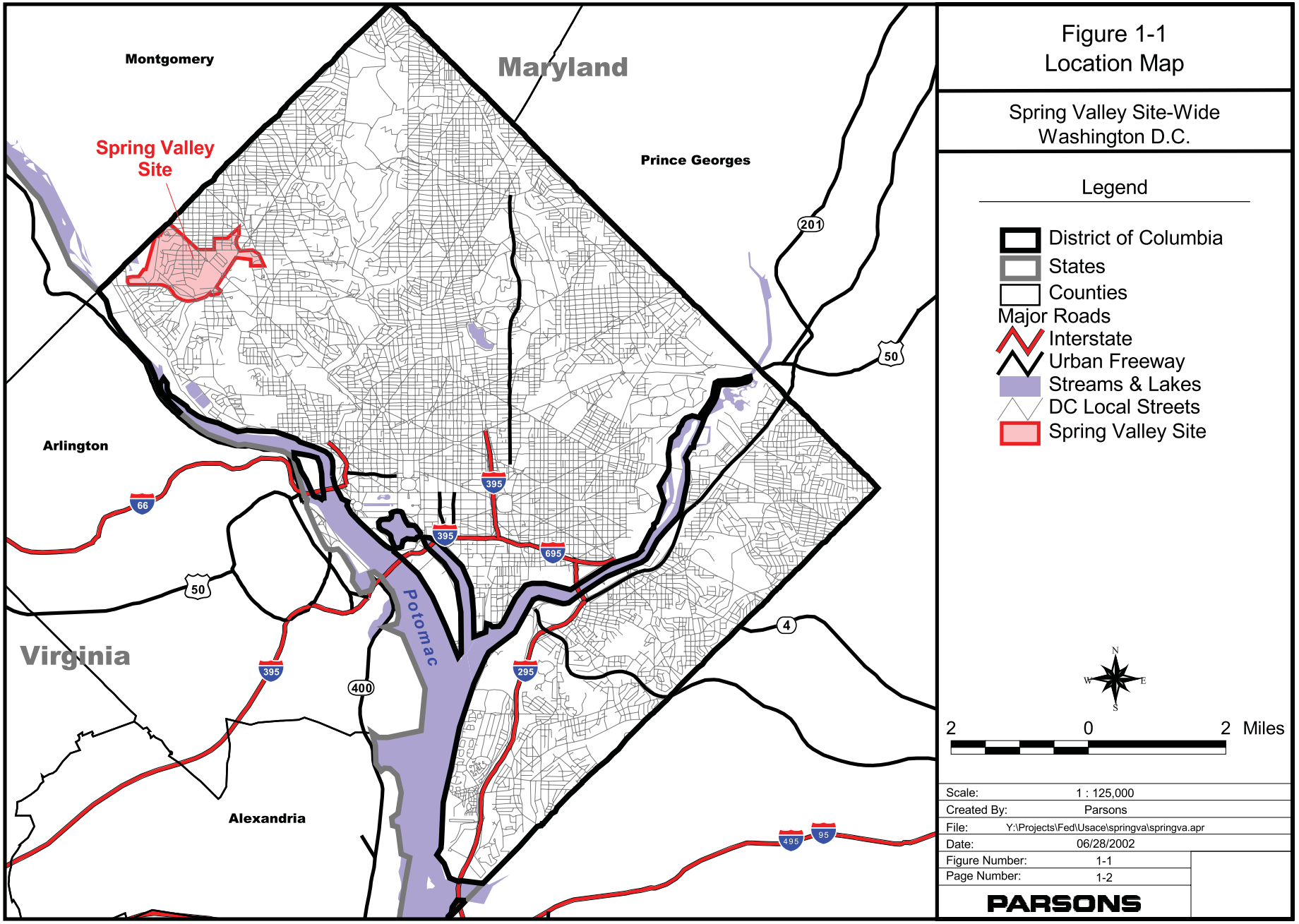
1.1 PROJECT AUTHORIZATION

1.1.0.1 This project addresses the Spring Valley Formerly Used Defense Site (FUDS) and falls under the Defense Environmental Restoration Program/Formerly Used Defense Sites (DERP/FUDS). This work is being performed under Contract DAHA90-94-D-0010, Task Order DA01, DERP/FUDS Project no. C03DC091802, for the U.S. Army Corps of Engineers (USACE), Baltimore District (CENAB). The work scope and objectives are in accordance with the response program identified in the National Contingency Plan (NCP), 40 CFR 300, and particularly subpart E, sections 300.400 through 300.415 and subpart I, sections 300.800 through 300.825. The United States Environmental Protection Agency's (USEPA) *Guidance on Conducting Non-Time Critical Removal Actions Under CERCLA* (USEPA, 1993) was also used for this project. All activities involving work in areas potentially contaminated with ordnance and explosives (OE) and chemical warfare materiel (CWM) was conducted in full compliance with U.S. Army Engineering and Support Center, Huntsville (USAESCH), CENAB, Department of the Army (DA), and Department of Defense (DoD) requirements.

1.2 SCOPE AND OBJECTIVE

1.2.0.1 The scope of this Engineering Evaluation/Cost Analysis (EE/CA) is to characterize and evaluate potential soil contamination within the Spring Valley Formerly Used Defense Site (Spring Valley site) for the purpose of recommending a removal action alternative. The Spring Valley site is located in the Spring Valley neighborhood of Washington, DC. The presence of arsenic resulting from past U.S. Army activities has been documented in the soil within the Spring Valley site. The regional map showing the Spring Valley site relative to Washington, DC is shown in Figure 1-1. The Spring Valley site location map is presented as Figure 1-2.

1.2.0.2 This document does not evaluate future actions related to non-arsenic compounds, nor does it address groundwater; a separate groundwater investigation is currently underway. An overarching Remedial Investigation document that integrates these other investigations will be prepared. The USACE is committed to following the NCP through performance of additional Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) response actions, as warranted, ultimately resulting in issuance of a Decision Document (DD) that provides for close out of the site.


Montgomery
Maryland
Spring Valley Site
Prince Georges
201
50
Arlington
66
395
395
695
50
Potomac
Virginia
4
395
400
295
Alexandria
495
95
Figure 1-1
Location Map
Spring Valley Site-Wide
Washington D.C.
Legend
District of Columbia
States
Counties
Major Roads
Interstate
Urban Freeway
Streams & Lakes
DC Local Streets
Spring Valley Site
N
W
E
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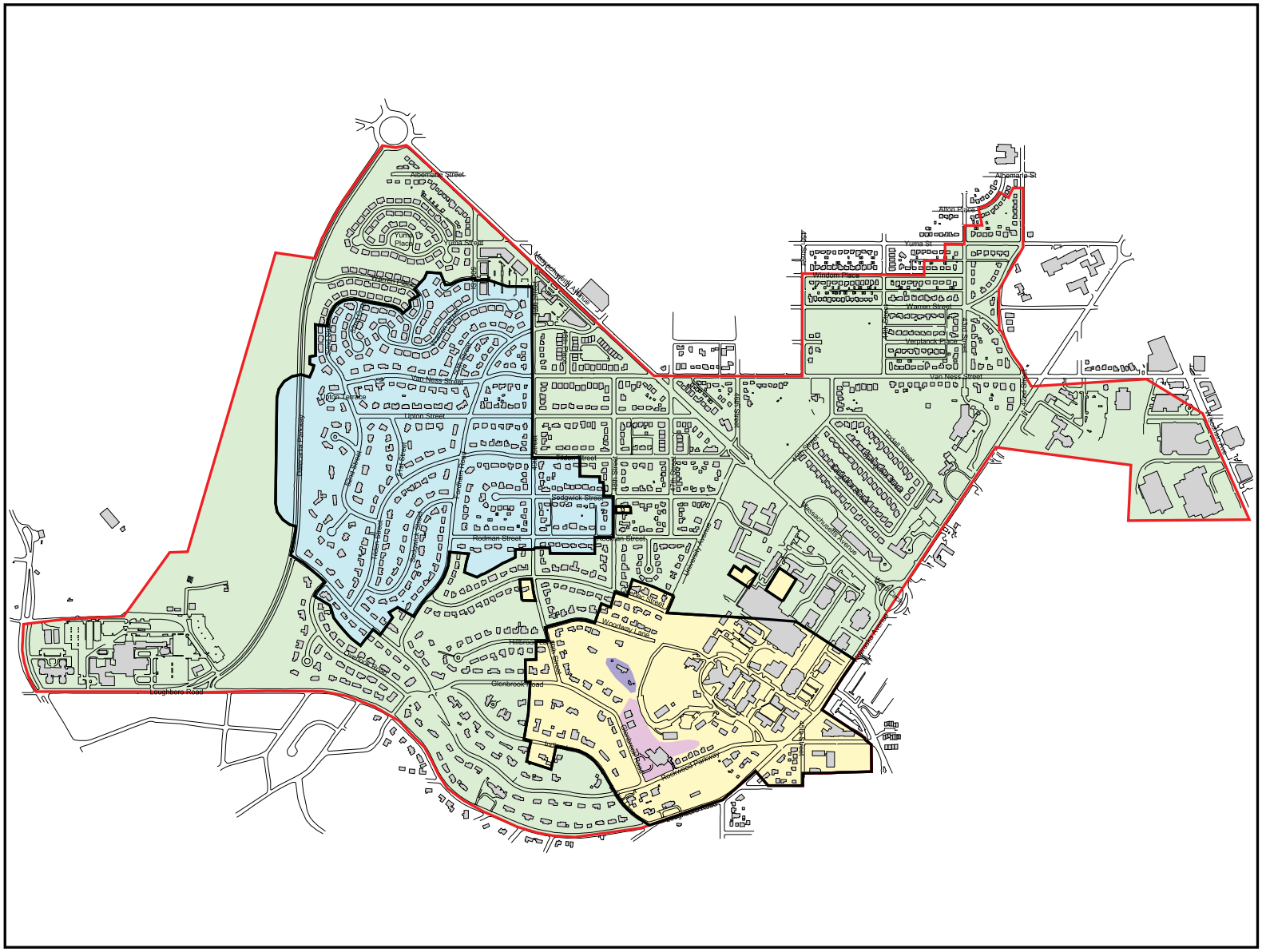


Figure 1-2
Site Location Map

Spring Valley Operable Units 4 & 5
Washington D.C.

Legend

- Spring Valley Boundary
- Buildings
- Roads
- OU-2
- OU-3
- OU-4
- Central Testing Area (CTA)
- Comprehensive Sampling Area (CSA)

Note:
OU-5 area is CTA plus CSA

0 1000 Feet

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1.2.0.3 The objective of this EE/CA is to evaluate and analyze site data and to recommend and justify a preferred alternative to address the contamination in the soil. The selected alternative must protect human health and the environment. To perform the analysis and evaluation, the following tasks were completed:

- Determined the nature and extent of arsenic and other constituents in the surface and subsurface soils at the site;
- Performed a streamlined risk evaluation of contaminants found in soils at the site;
- Identified requirements that were applicable or relevant and appropriate to the hazard and removal action and set cleanup goals where no such requirements were identified;
- Identified and developed removal action alternatives;
- Screened the removal action alternatives; and
- Performed a comparative analysis of the remaining removal action alternatives.

1.3 SITE BACKGROUND

1.3.0.1 The U.S. Army operated the former American University Experiment Station (AUES) in a portion of Spring Valley during World War I. In January 1993, a utility contractor accidentally uncovered buried ordnance at a property in Spring Valley. Following removal of the ordnance, the USACE conducted an investigation of the area. A Remedial Investigation (RI) documenting the Operation Safe Removal FUDS (OSR FUDS) activities completed by the USACE in June 1995 (USACE, 1995) determined that no further action was required, with the exception of potential future characterization activities at an area designated as the Spaulding and Captain Rankin Areas (Operable Unit 2). During a 1997 review (RI Evaluation Report, USACE, 1998) of the 1995 OSR FUDS RI Report, initiated by the District of Columbia Department of Health (DCDOH), the area investigated on the American University campus during the 1995 RI as Point of Interest (POI) No. 24 was re-examined and re-positioned to 4801 Glenbrook Road. It was determined that two geophysical anomalies on the grounds of 4801 Glenbrook Road had the potential characteristics of pits or trenches. The pits were excavated and all CWM, OE items, and hazardous items, were removed for appropriate off-site disposal. Although the actual location of POI 24 has not yet been determined, future investigations will focus on the 4825 Glenbrook Road property.

1.3.0.2 To address concerns of the DCDOH, the USEPA Region III collected surface soil and subsurface soil samples in and around 4801, 4825, and 4835 Glenbrook Road to supplement their Risk Assessment (USEPA, 1999). It was determined that the soil of these three properties could have been impacted by AUES activities in the vicinity of the two burial pits. The USACE performed an EE/CA (USACE, 2000b) to determine the nature and extent of contamination found in the surface and subsurface soils of the three properties. The area of these three properties was designated as Operable Unit 3 (OU-3). See Figure 1-2.

1.3.0.3 Based on these events, a partnership was formed with the relevant agencies involved in the decision-making process. The Spring Valley Partners (Partners), the USEPA, DCDOH, and USACE ensure that the concerns of all parties are addressed. Additionally, advisory entities

were created, including the Restoration Advisory Board (RAB) and the Scientific Advisory Panel. The Partners continue to work cooperatively on cleanup issues and project decisions, involving the public through the RAB and public outreach coordination.

1.4 CURRENT INVESTIGATION

1.4.0.1 Based on the findings of the above investigations and the recommendation of DCDOH, an expanded area (approximately 91 acres) was further investigated as Operable Unit 4 (OU-4). OU-4 included approximately 80 private residences and significant portions of the current American University (AU). This investigation indicated arsenic concentrations above risk-based concentrations and above normal background levels. In consultation with the USEPA and the DCDOH, the USACE then undertook an extensive characterization of the remaining Spring Valley FUDS, some 577 acres, designated as Operable Unit 5 (OU-5). The soils of both Operable Units were characterized for arsenic and selected CWM compounds associated with AUES activities. This EE/CA addresses the findings of the OU-4 and OU-5 investigations.

1.4.0.2 Within OU-4 and OU-5, all acreage, residential and non-residential, was divided into one-half acre (approximate) exposure areas, or sites, for sampling purposes. To date, 1,484 sites have been investigated and the soil characterized for arsenic contamination. Of these, 287 sites also had the soil characterized for selected CWM constituents representative of past practices at that specific site. The findings indicate that slightly more than 11% of the sites had arsenic above the screening criteria. Although a small number of samples had detections for possible CWM degradation products, none of the sites contained any of the CWM or CWM degradation products at levels above their respective screening criteria.

1.5 REPORT ORGANIZATION

1.5.0.1 This EE/CA comprises three volumes. The EE/CA report in Volume I consists of an Executive Summary, 10 sections, and 2 appendices. Section 1 contains an introduction to the project. Section 2 provides a site description and history. Section 3 discusses the field investigation performed and the results of that investigation. Section 4 discusses the source, nature, and extent of contamination. Section 5 contains a risk evaluation, including a discussion of the applicable comparison criteria and remediation endpoints. Section 6 discusses the removal action goal and objectives. Section 7 provides the identification and analysis of the removal action alternatives. Section 8 provides the comparative analysis of removal action alternatives. Section 9 describes the recommended removal action alternative. Section 10 provides the references. Appendix A contains detailed maps of individual sites and features relevant to the sampling effort. Appendix B contains a detailed presentation of the costs associated with the recommended alternative.

1.5.0.2 Volume II, Sampling Results and Data Validation, presents all OU-4 and OU-5 sample data organized by type of sampling and the associated data validation reports, as well as the USEPA split sampling results.

1.5.0.3 Volume III, Technical Memoranda and Other Supporting Data, presents the following memoranda and data reports relevant to the characterization of OU-4 and OU-5:

- Arsenic Speciation Technical Memorandum
- Arsenic Bioavailability Technical Memorandum
- Arsenic SPLP Technical Memorandum
- AUES List Sampling – Report of Results
    - 3819 48th Street, 4710 Quebec Street, 4625 & 4633 Rockwood Parkway
    - AU Lot 12 and Child Development Center
    - Sedgwick Trench Area
- Sampling Procedures – Supporting Memoranda

2. SITE CHARACTERIZATION

2.1 SITE DESCRIPTION

2.1.1 Site Location and History

2.1.1.1 The Spring Valley site is located in the Spring Valley neighborhood of northwest Washington, DC. The 668-acre area currently includes approximately 1,200 private residences, foreign embassies, AU, Wesley Seminary, and numerous commercial properties. It includes the former AUES and Camp Leach. The area was originally 661 acres, but further refinement of the boundary at the northeastern extension (between 42nd Street and Wisconsin Avenue) and the southeastern area (around Newark and 34th Street) added approximately seven acres. During World War I, the U.S. Government established the AUES to investigate the testing, production, and effects of noxious gases, antidotes, and protective masks. The AUES was located on the grounds of the current AU and used additional portions of property in the vicinity to conduct this research and development of CWM (including mustard, Lewisite, and Adamsite agents), irritants, and smokes. The areas not used for testing were used to house and train troops (Camp Leach). Some areas that were part of AUES, but which are not within the current 668- acre FUDS boundary, will be addressed under future investigations.

2.1.1.2 In the spring of 1921, the Construction Division began salvage and restoration work and all temporary facilities were dismantled. At the end of the war, interest in buying properties for residential use slowly grew. Those properties formerly occupied by the AUES, but not part of the university property, were developed for housing (USACE, 1995).

2.1.2 Structure and Topography

2.1.2.1 Cut and fill maps were generated by USACE for the OSR FUDS RI (USACE, 1995) by merging 1918 and 1983 topographic maps. The 1983 topographic map was based on elevation data revised in 1965. The maps were digitized and then horizontally aligned by using features common to both maps (e.g. roads, street intersection and buildings). The vertical alignment was performed by digitally correcting the scale followed by a comparison of the contour lines. Vertical alignment was also confirmed by identifying two peak elevations with no apparent changes between 1918 and 1991. Based on the subsurface soil borings collected at 4801 Glenbrook Road it was confirmed that the cut and fill maps accurately depict areas of cut and fill within OU-3 vicinity

2.1.2.2 This information was supplemented by an aerial survey conducted in November 2000 for the OU-4 investigation. This provided updated 2-foot elevation contour intervals. The cut and fill maps were regenerated based on the 1918 topographic map's 10-foot elevation contour intervals and the new contour intervals.

2.1.3 Geology and Soil Information

2.1.3.1 Four geological formations are apparent in the vicinity of the site. These formations (from west to east) are the Sykesville Formation, the Dalecarlia Intrusive Suite, an Actinolite Schist, and the Coastal Plain Terrace Formation (USGS 1994). The Sykesville Formation is sedimentary melange consisting of fragments of metagraywacke, migmatites, amphibolite, and actinolite schist in a quartzofeldspathic matrix. The Dalecarlia Intrusive Suite consists of massive to well-foliated biotite monzogranite and lesser granodiorites. The Actinolite Schist unit consists of actinolite schist, actinofels, actinolite-chlorite schist and lesser talc bearing rocks. The Coastal Plain Terrace Gravel consists of highly weathered, crudely bedded gravel, sand, silt, and clay (Fleming, A. H., Drake, A. A., Jr., McCartan, Lucy, 1994). The Piedmont Formations are igneous or metamorphic in origin. The Coastal Plain Terrace Formation is fluvial in origin (Fleming, A. H., Drake, A. A., Jr., McCartan, Lucy, 1994). Schistosity is the major structural feature of the Piedmont rocks and saprolite at the site.

2.1.3.2 Four soil associations are present within Spring Valley: the Urban Land-Sassafras Chillum (ULSC), the Urban Land-Manor Glenelg (ULMg), Manor Glenelg (Mg), and Urban Land Brandywine (ULB). The ULMg soil association is a well to moderately well drained soil resulting from the weathering of the basement rocks (schist). The ULSC soil results from the weathering of Coastal deposits. However, typically these soils have been greatly disturbed by construction and landscaping activities. The bedrock consists of a variety of metasedimentary rocks of actinolite schist. Relatively competent saprolite material is encountered at depth that ranges between 6 to 10 feet below ground surface (bgs). This material appears to be the transition between loose soil material and highly competent bedrock. During the 4801 Glenbrook Road burial pit investigation, extremely competent saprolite was still being encountered after excavation to 18 feet.

2.1.4 Groundwater

2.1.4.1 Groundwater depth at the site is not known. During the investigation of the burial pits at 4801 Glenbrook Road, one pit extended as deep as 18 feet and at no time was groundwater encountered. There are various aquifer systems associated with the site vicinity. These include terrace gravels and fracture system aquifers associated with the Piedmont formations, saprolite systems, and fill systems. Groundwater may be found in any and all of these aquifers, however, the majority of the groundwater would be expected to be found in the underlying bedrock that comprises the fracture system aquifer. Additionally, there are a number of major fault and fold systems in the site vicinity. These features, as well as the topography of the site, will affect the general flow of groundwater.

2.1.4.2 There is no evidence to suggest that the groundwater aquifers are used for drinking water. The District of Columbia is supplied water by a treated and tested water distribution system. However, it is the DCDOH position that all groundwater could potentially be used for drinking water and therefore, DCDOH has requested a groundwater investigation. This investigation is currently underway.

2.1.5 Surrounding Land Use and Populations

2.1.5.1 Land use in and around Spring Valley is primarily low-density residential (three to four dwellings per acre). The campus of AU is considered institutional use. Zoning on site is also predominantly for single-family detached housing except on the AU Campus, which is zoned for apartments.

2.2 SENSITIVE ECOSYSTEMS

2.2.1 Flora and Fauna

2.2.1.1 During the OSR FUDS RI, research was conducted into the nature and type of fauna and flora found within Washington, DC. Due to the extensive development of Spring Valley, native vegetation is generally limited to narrow bands associated with the intermittent streams or the area west of Dalecarlia Parkway. The dominant plant species are red maple, white oak, red oak, chestnut oak, mountain laurel, and greenbriar. The District of Columbia exhibits a diverse fauna for an area that is principally urban in character. Approximately 35 species of mammals and 175 species of birds occur within the District of Columbia throughout the year. The occurrence of parklands generally determines the relative abundance and location of wild life (USACE, 1995).

2.2.2 Aquatic Life and Wetlands

2.2.2.1 There are numerous small creeks and streams throughout the District of Columbia. For the OU-3 EE/CA, the small creek located east of the house at 4801 Glenbrook Road was reviewed in more detail than any other creeks or streams. It was determined that the small size and the extensive development of the area would limit the types of aquatic organisms that might be present. The stream may contain frogs, toads, oligocheates (worms), snails, and assorted aquatic insects. No evidence that the creek supports a population of native fish was found. Wetlands in the site vicinity are limited. No wetlands were impacted by the OU-4 and OU-5 investigation activities.

2.2.3 Wildlife and Endangered Species

2.2.3.1 Because Spring Valley is largely developed, wildlife species found are typical of those found in most urban-suburban areas. Mammals that can be found in and around the site include, the gray squirrel, as well as raccoons, opossums, eastern chipmunks, field mice, deer, voles, and moles (USACE, 1995).

2.2.3.2 Common birds in the area include those that have adapted to an urban-suburban environment such as the American robin, catbird, mockingbird, Carolina chickadee, Carolina wren, downy woodpecker, common flicker, European starling, house sparrow, rock dove,

mourning dove, and song sparrow. Black vultures and turkey vultures have aerial coverage throughout the vicinity. Migrating birds such as Canadian geese and other waterfowl frequent the area (USACE, 1995). Because Spring Valley and the areas surrounding it are mostly developed, they provide little habitat for rare, threatened, or endangered species. According to the U. S. Fish and Wildlife Service, "Except for occasional transient individuals, no proposed or federally listed endangered or threatened species are known to exist within the Spring Valley site" (US Department of the Interior, 2003).

2.3 METEOROLOGY

2.3.1.1 Observational records have been kept continuously at locations within the District of Columbia since November 1870. These weather-monitoring stations were relocated to Reagan National Airport and Dulles International Airport when these airports opened in the 1940s and 1970, respectively. The District of Columbia area has an average yearly temperature of 54.5ºF, and the climate in the area is classified as modified continental. The average length of the growing season is 200 days. The coldest average daily temperatures are in late January and early February (upper 20sºF), and the warmest average daily temperatures are in mid-July (upper 80sºF).

2.3.1.2 Normal annual precipitation is approximately 41 inches and is distributed evenly throughout the year. Thunderstorms may occur at any time, but are most frequent during the later spring and summer. Downpours and gusty winds most often accompany the storms. Tropical storms can bring heavy rains. Hailstorms can occur in the spring. Rainfalls of over 7 inches have occurred during hurricanes. Average snowfall is approximately 20 inches per year. Although a snowfall of 10 inches or more in 24 hours is unusual, several notable snowfalls of more the 25 inches within 24 hours have occurred. Winds are generally light and variable, but thunderstorms can bring gusty winds. Usually, the gusts from windstorms are not severe. Prevailing wind direction is from the northwest. The average wind speed in the Washington D.C. area is approximately 9 miles per hour (mph). Wind gusts can be expected to peak at approximately 40 mph, but may occasionally reach approximately 60 mph. Tornadoes and tropical storms occur infrequently, but these storms can and have caused damage in the District of Columbia area.

2.4 RELATED REMOVAL ACTIONS/INVESTIGATIONS

2.4.1 OSR FUDS Remedial Investigation

2.4.1.1 In January 1993, a utility contractor accidentally uncovered buried ordnance at a property in Spring Valley. Following removal of the ordnance, the USACE conducted a Remedial Investigation [OSR FUDS RI (USACE, 1995)] of the entire area within the OSR FUDS boundary. During the investigation, some 53 areas of potential hazards were identified and designated as POIs. The investigation utilized geophysical technology to identify buried ordnance and soil sampling to identify areas of soil contamination. In June 1995, the USACE

determined that no further action was required at the Spring Valley site, with the exception of a portion of the site known as the Spaulding and Captain Rankin Areas.

2.4.1.2 In June 1994, an EE/CA was performed for the Spaulding and Captain Rankin Areas (USACE 1996a) to determine the appropriate action for addressing the soil and material contained within the former shell pits and surrounding areas. The shell pits had the potential to contain: intact OE items; scrap OE items; and, intact containers filled with CWM and CWM breakdown products. Some OE-related items were encountered, including OE scrap, frag, and fused components. The only compounds identified that posed an unacceptable risk to human health were lead and arsenic in the soil. During the removal, all material was taken off site for disposal. Mustard was identified in one bunker drain line, however this was most likely the result of an analytical quality assurance anomaly associated with the original analysis. In June 1996, the USACE recommended that no further action be taken at the Spaulding and Captain Rankin Areas.

2.4.2 Burial Pit EE/CA Investigation

2.4.2.1 During a 1997 review (RI Evaluation Report, USACE, 1998) of the 1995 OSR FUDS RI Report, initiated by DCDOH, the area investigated on the American University campus during the 1995 RI as POI 24 was re-examined and re-positioned to 4801 Glenbrook Road. POI 24 had been identified as a probable pit through interpretation of a 1918 aerial photograph. To further evaluate the situation, the USACE performed a geophysical investigation of the grounds at 4801 Glenbrook Road to locate and characterize the potential burial pit. It was determined that two geophysical anomalies on the grounds of 4801 Glenbrook Road had the potential characteristics of pits or trenches. Nine other anomalies did not have the characteristics of pits or trenches. All eleven anomalies were investigated and resolved. Although the actual location of POI 24 has not yet been determined, future investigations will focus on the 4825 Glenbrook Road property

2.4.2.2 To perform the investigation of the eleven anomalies, a Site Safety Submission (SSS) [*Site Safety Submission, Spring Valley, Operable Unit 3, Washington, DC*, prepared for the U.S. Army Engineering and Support Center, Huntsville (USAESCH), by Parsons Engineering Science, Inc. (USACE 1999b), as changed, amended, and approved by the Department of Defense Explosive Safety Board (DDESB) and the U.S. Army Technical Center for Explosives Safety (USATCES)], was prepared. Investigative work on the two burial pits at 4801 Glenbrook Road began in March 1999 and concluded approximately one year later. The objective of the investigation was to determine the extent and nature of the material contained within the two burial pits. Approximately 288 pieces of ordnance, 14 of which were chemical munitions; 175 glass bottles, 77 of which contained acids and other chemicals; 39 cylinders, and 9 metal drums, were recovered. Additional compounds detected in soil samples included various volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and metals (most notably arsenic). The excavation of the pits concluded when the pit characterization soil samples (floor and wall samples) did not detect CWM, CWM breakdown products, or elevated levels of VOCs, SVOCs, or metals. All recovered material was disposed off site at a facility appropriate for the type of material and level of contamination, as follows: all CWM contaminated scrap, or

CWM contaminated soil was disposed at a licensed industrial waste disposal incinerator; material determined to be hazardous under the Resource Conservation and Recovery Act (RCRA) guidelines was disposed of at a RCRA subtitle C landfill; material considered RCRA non-hazardous or not contaminated with CWM was disposed of in a sanitary landfill.

2.4.2.3 Another burial pit (Test Pit 23), partially on 4801 Glenbrook Road and partially on the adjacent 4825 Glenbrook Road property was investigated in the same manner (Site Safety Submission, Addendum 10, USACE, March 2001). Several hundred OE items and a three CWM-related items were recovered from this pit. The 4801 Glenbrook Road portion was cleared, backfilled, and restored, while the 4825 Glenbrook Road site was temporarily backfilled pending resolution of various administrative issues.

2.4.3 Small Disposal Area

2.4.3.1 In April 1999, during a USEPA Spring Valley sampling event, a DCDOH representative discovered surface debris located on AU property in the vicinity of the 4801 Glenbrook Road site. The area, designated as the Small Disposal Area (SDA) was thought to be a burial site potentially associated with AUES CWM research and testing activities. The investigation was conducted under the Site Safety Submission, Addendum 09, USACE, October 2000. In January 2001, debris including old used oil filters, glass and labware, and other miscellaneous debris, was removed from the SDA by the USACE. Soil contaminated with elevated levels of arsenic, lead, and mercury was encountered. Historical evidence suggests that during the operation of the AUES, the SDA was very close to the perimeter fence of the AUES. An archaeological review of the items recovered during the excavation concluded that there were likely at least two dumping episodes, and that the manufacturing date ranges of the laboratory artifacts are consistent with use during the AUES activities, but the data do not confirm whether these materials were dumped before or after closure of the AUES. The area was backfilled and closed following the 2001 removal. The approximate location of the SDA is at the eastern tip of the OU-3 boundary shown in Figure 1-2.

2.4.4 Time Critical and Non-Time Critical Removal Actions

2.4.4.1 To address concerns of the DCDOH, the USEPA Region III collected surface soil and subsurface soil samples in and around 4801, 4825, and 4835 Glenbrook Road to supplement their Risk Assessment (USEPA, 1999). It was determined that the soil of these three properties could have been impacted by AUES activities in the vicinity of the two burial pits. The USACE performed grid sampling to determine the nature and extent of contamination found in the surface and subsurface soils of the three properties (OU-3). The OU-3 EE/CA and baseline risk assessments for 4801, 4825, and 4835 Glenbrook Road addressed the potential hazard associated with arsenic contamination in the soil. A Non-Time Critical Removal Action (NTCRA) was performed to address the arsenic-contaminated soil at 4825 and 4801 Glenbrook Road. The soil removal was conducted from December 2000 to August 2002. The soil at 4835 Glenbrook Road is expected to be addressed in a future removal action.

2.4.4.2 Grid sampling conducted in January 2001 as part of the OU-4 and OU-5 investigation identified arsenic contamination in the surface soils at the Child Development Center (CDC). This property, located on AU property within the boundaries of OU-4, was formerly used for AUES activities. A Time Critical Removal Action (TCRA) was performed to address contaminated soil at the CDC. The soil removal was completed by November 2001 *(Post Removal Action Report, USACE, Draft Final, December 2002).*

2.4.4.3 Grid sampling conducted in March 2001 as part of the OU-4 and OU-5 investigation identified arsenic contamination in the surface soils on other portions of the AU campus. A TCRA was also conducted to address this arsenic-contaminated soil at the AU athletic fields and other AU lots located within OU-4. These areas include grids associated with AU lots 8, 10, 11, 12, 13, 14, and 15; soil borings that were sampled in AU Lots 16, 19, 23 and 24; and the grounds around Kreeger Hall and Watkins Hall. These areas were also formerly used for AUES activities. The soil removal was begun in the summer of 2002 and is on-going (*Removal Action Design, USACE, June 2002).*

2.4.4.4 The USACE determined that TCRAs would also be performed at several residential properties. The prioritization of these properties was based on the results of the arsenic testing. An Exposure Point Concentration (EPC), derived from the 95 percent Upper Confidence Limit (UCL) of the grid arsenic data, was used as the primary prioritization strategy. Other factors used to prioritize removals included access agreements and proximity logistics, where otherwise lower priority sites close to high priority sites were also scheduled. Tier I properties had EPCs greater than or equal to 90 ppm arsenic. Tier II properties had at least one grid greater than or equal to 150 ppm arsenic. This work was begun in July 2002 and is on-going. These properties include:

Tier I (EPC > 90 ppm)	Tier II (one grid > 150 ppm)
▪ 4446 Tindall Street	▪ 4641 Rockwood Prkwy
▪ 4438 Tindall Street	▪ 4230 Fordham Street
▪ 4219 50th Street	▪ 4647 Massachusetts Avenue
▪ 4119 45th Street	▪ 4007 49th Street
▪ 4460 Springdale Street	▪ 3709 Corey Street
▪ 4115 45th Street	▪ 4651 Massachusetts Avenue
▪ 4456 Springdale Street	▪ 4637 Rockwood Prkwy
▪ 4442 Tindall Street	▪ 5001 Rockwood Prkwy
▪ 4434 Tindall Street	▪ 4624 Van Ness Street
▪ 4425 Upton Street	▪ 4655 Massachusetts Avenue
	▪ Group 5, Lot 15
	▪ 4850 Rockwood Prkwy
	▪ 3800 52nd Street

2.4.5 OE/CWM Investigations

2.4.5.1 Various investigations focusing on identification of geophysical anomalies and the search for and subsequent remediation of OE/CWM burial pits (if present) have been undertaken

or are in the process of being conducted. Because those investigations focus on finding OE/CWM burial pits and therefore have different objectives than the subject of this document (arsenic-contaminated soil), only a general summary of those activities is presented here.

2.4.5.2 The Partners developed a prioritization scheme to focus on those areas requiring additional geophysical investigation and those anomalies requiring intrusive investigation. A Chemical Safety Submission (CSS) was prepared as a site-wide plan to address the safe performance of the investigation and recovery of OE or CWM items associated with the AUES. As described in the CSS, based on the site history and previous investigations, the following items could be present: empty or CWM-filled ordnance, including 75mm rounds, Livens projectors, 3-inch Stokes mortars; or related items such as ceramic jars potentially containing CWM. In addition to the intrusive investigation described in section 2.4.2, anomalies were investigated and/or excavated at a POI known as the Sedgwick Trench area and also on portions of the current AU Campus (AU Lots).

2.4.6 Other

2.4.6.1 In the 1930's a house was built at 4801 Glenbrook Road. In the early 1980's this house was demolished and the residence for the Ambassador of the Republic of South Korea to the United States was constructed. The two remaining lots north of 4801 Glenbrook Road remained undeveloped until 1992. In 1992 two houses were built north of 4801 Glenbrook Road on the lots of 4825 and 4835 Glenbrook Road. During the construction of the 4825 house, some glassware was encountered, and construction workers reportedly complained about an exposure during work activities. During the construction of the house at 4835 Glenbrook Road a closed 55-gallon drum, laboratory jars and equipment, and ceramic pieces were encountered. The soil where this material was encountered was characterized as having had a "rotten odor". The site was evaluated by Environmental Management Systems Inc. (EMS) who performed a site investigation and deemed the site "okay" to continue work (Apex, 1996). In 1996 workers at 4835 Glenbrook Road were excavating to install trees and experienced irritation to the eyes and respiratory system. Laboratory glassware was observed in this excavation. Apex Environmental over-excavated the holes and performed a site investigation of 4835 Glenbrook Road. Other than the material removed, Apex concluded that there were no significant levels of contamination.

3. SAMPLE PROGRAM AND RESULTS

3.1 SAMPLE PROGRAM OVERVIEW

3.1.0.1 The sample program for OU-4 and OU-5 was designed using the *Soil Screening Guidance: User's Guide, (USEPA, July 1996)* [Soil Screening Guidance]. Detailed procedures for conducting the sample program are contained in the *Final Work Management Plan for Spring Valley Operable Unit 4 (USACE 2000a)* and the *Final Work Management Plan for Spring Valley Operable Unit 5 (USACE 2002)* [WMP]. The sample program acknowledges the uncertainties inherent in any investigation of this type. Uncertainties derive from the use of assumptions, professional judgment, imperfections in the sampling and analytical processes, and whether data are truly representative of contaminant and site conditions. These uncertainties have been minimized in this investigation by following standard accepted sampling practices, using approved analytical methodologies, and validating the sample results in accordance with USEPA guidelines.

3.1.0.2 Both OUs contain residential properties and non-residential acreage (commercial property, undeveloped areas, parks, etc.). In accordance with the Soil Screening Guidance, this acreage was divided into one-half acre lots (approximate) to represent discrete exposure areas (EAs). Each EA, whether residential property or non-residential acreage, was considered a "site", i.e., a discrete exposure area to be sampled. For tracking purposes, the sites were further categorized by type of exposure area as either residential properties (homes) or non-residential acreage (lots).

3.1.0.3 Figure 3-1 presents the entire Spring Valley site boundary with the OU-4 and OU-5 boundaries indicated. Detailed maps of individual sites showing cut and fill contours, groundscar data, surveyed boring locations, and other information relevant to understanding the sampling effort are contained in Appendix A.

3.1.0.4 The sampling effort for OU-4 began in August 2000 and for OU-5 in June 2001; the effort is on-going as of the date of this document. A cut-off date of September 30, 2003 was used to present and discuss sample data for this document. This represents approximately 93% of all available sites in OU-4 and OU-5. Complete validated sampling results for each site and each type of sampling through September 30, 2003, are contained in the data tables in Volume II (Sampling Results and Data Validation).

3.1.0.5 Surface and sub-surface sampling was completed throughout Spring Valley; the following subsections discuss the area-specific sampling by type and location.

3.1.1 OU-4

3.1.1.1 The area defined as OU-4 is approximately 91 acres of residential properties and non-residential acreage, including 80 homes and 34 lots (114 total sites). This acreage total does not

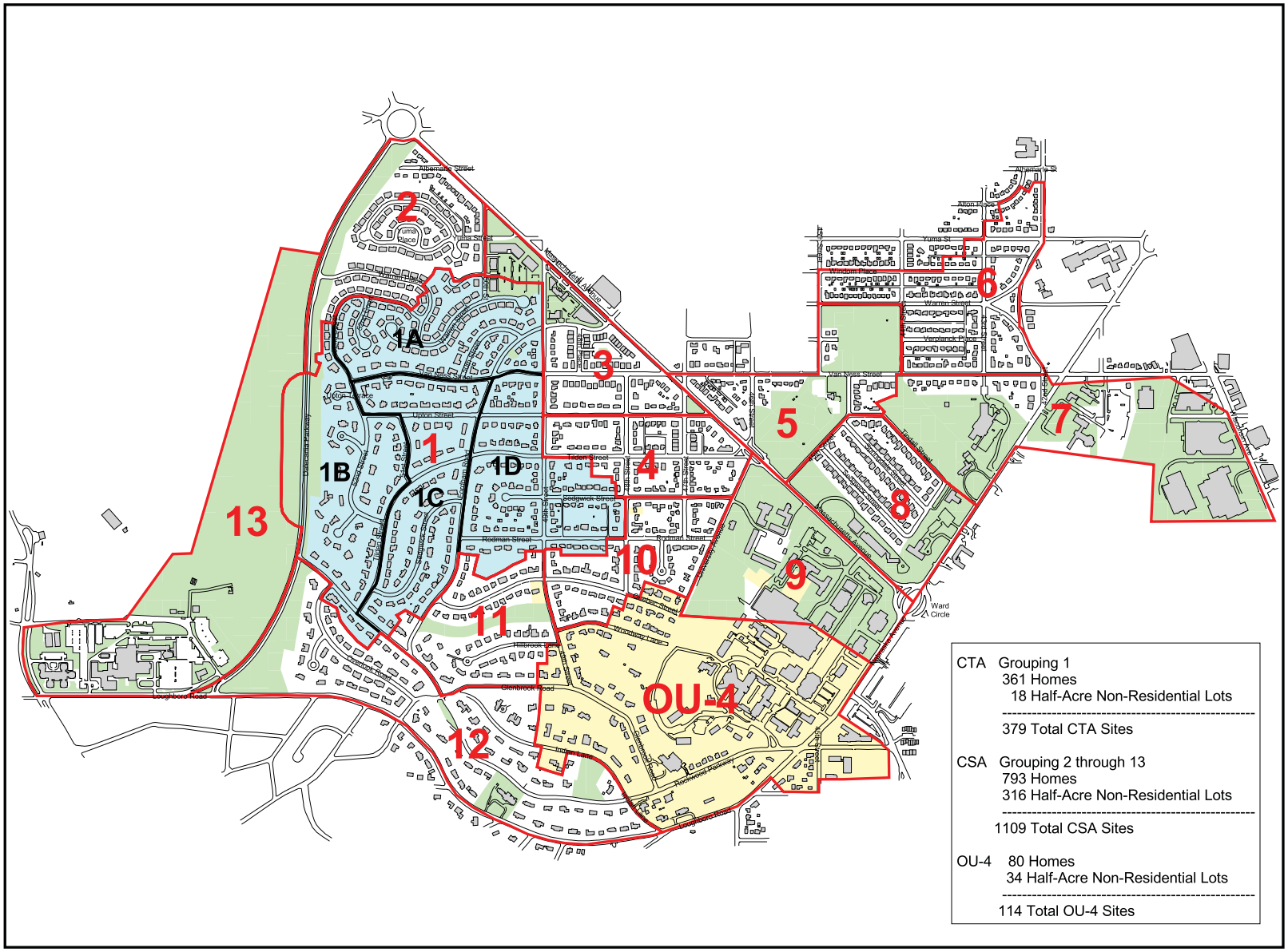


Figure 3-1 Geographical Groupings

Spring Valley Operable Units 4 & 5
Washington D.C.

Legend

- CTA Groupings
- Groupings
- Buildings
- Roads
- Non-Residential Acreage
- CTA
- OU-4

Note:
OU-5 Acreage comprises groupings 1 through 13.

CSA is groupings 2 through 13.

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas. Sampling of these lots will be based on open accessible portions determined in the field.

0 1000 Feet

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include the area of commercial or other non-residential buildings that could not be sampled, but does include the acreage of paved areas such as parking lots. This count is based on aerial photographic surveys and available real estate records. The lots are mainly AU property (AU Lots). Some properties outside of the established OU-4 boundary were sampled as OU-4 sites to accommodate specific requests, prior to the establishment of OU-5. As indicated on Figure 3-1, the area of OU-3 is contained within the OU-4 boundary. Sites sampled within OU-3 were addressed in the OU-3 EE/CA.

3.1.2 OU-5 Central Testing Area (CTA)

3.1.2.1 Based on the past usage of areas within OU-5, the OU-5 soil sampling effort was divided into two phases: 1) the Central Testing Area (CTA), and 2) the Comprehensive Sampling Area (CSA). The CTA includes the POIs where AUES CWM field testing was documented based on aerial and ground photographs, testing reports, and other historical documents. The CTA boundary was established by including a 200-foot buffer around the POIs with documented field testing. Once each POI 200-foot buffer was established, the CTA boundary line connected all the POI 200-foot outer boundary lines, enclosing all of that acreage within a larger area designated as the CTA. The CTA is approximately 132 acres. The CTA contains 361 homes and 18 lots (379 total sites).

3.1.3 OU-5 Comprehensive Sampling Area (CSA)

3.1.3.1 The CSA includes all the remaining acreage outside of the CTA (not including the OU-3 and OU-4 area. The CSA is approximately 445 acres. The CSA contains 793 homes and 316 lots (1109 total sites).

3.1.4 Geographical Groupings

3.1.4.1 In order to most efficiently perform the sampling, the OU-5 sites were geographically grouped (Figure 3-1). For OU-5, the CTA is one grouping, while the CSA is divided into 12 groupings. The arbitrary boundaries of the groupings were intended to be approximately equal work efforts to help plan the sampling. The groupings also helped track specific samples by providing location-based nomenclature.

3.1.4.2 Table 3.1 summarizes the total site count organized by OU and Geographical Groupings.

Table 3.1
Site Count

Geographical Grouping	Homes	Lots	Total Sites	Acreage
OU-4				
OU-4 Total	**80**	**34**	**114**	**91**
OU-5 (CTA)				
1A	104	3	107	
1B	57	15	72	
1C	85	0	85	
1D	115	0	115	
CTA Total	**361**	**18**	**379**	**132**
OU-5 (CSA)				
2	109	11	120	
3	79	8	87	
4	90	0	90	
5	46	33	79	
6	149	0	149	
7	17	66	83	
8	76	20	96	
9	0	47	47	
10	83	0	83	
11	59	6	65	
12	85	21	106	
13	0	104	104	
CSA Total	**793**	**316**	**1109**	**445**
OU-5 Totals	**1154**	**334**	**1488**	**577**
OU-4 + OU-5				
OU-4 + OU-5 Totals	**1234**	**368**	**1602**	**668**

3.2 SAMPLE PROCEDURES

3.2.1 Quadrant Surface Sampling – OU-4 and CTA

3.2.1.1 In general accordance with the Soil Screening Guidance, each OU-4 and CTA site was divided into four equal areas called quadrants. Six (6) surficial soil samples (sub-samples) were

collected per quadrant. These sub-samples were composited to make one sample for the quadrant for submittal to the analytical laboratory (4 samples per site). The sub-samples were collected from random locations within the quadrant. For CTA properties approximately two acres or larger, the property was divided into approximately half-acre lots. Each of those half-acre lots received the quadrant sampling described above. For OU-4 properties approximately two acres or larger, each quadrant received 12 random sub-samples. Samples were not collected where cultural features and/or current site features prevented access to the surface soils (i.e. equipment sheds, patios, gravel roads etc.). Samples were collected from the first six inches of surficial soil.

3.2.1.2 It should be noted that the actual procedure used to collect quadrant samples deviated slightly from the Soil Screening Guidance. The Soil Screening Guidance calls for six total samples per site, with each sample comprising one sub-sample from each of the four quadrants. An analysis was performed to ensure that the deviation from the Soil Screening Guidance procedure would not compromise attainment of the project decision error goals described in the WMP. The memorandum describing this analysis is contained in Volume III of this document.

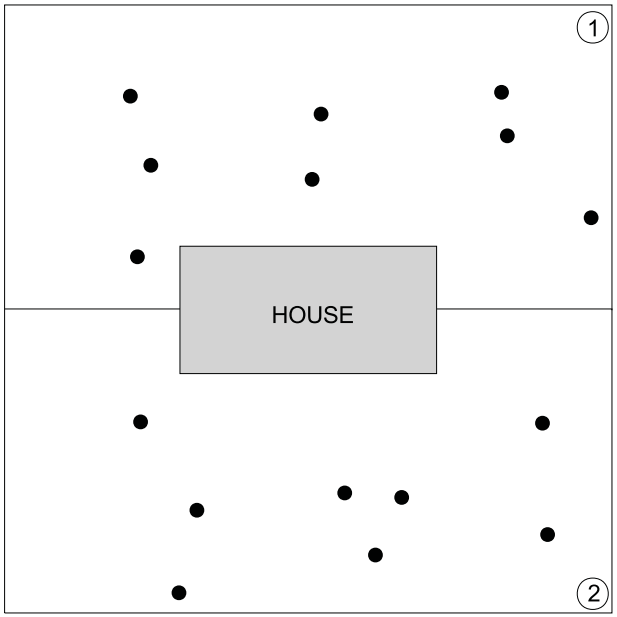
3.2.2 Half Surface Sampling – CSA

3.2.2.1 The CSA sampling design considered that this acreage did not contain documented CWM field testing areas. Therefore, fewer samples were collected (in general, because of the documented CWM field testing, the CTA included a more focused sampling approach than the CSA). Each CSA site was divided into two equal halves (essentially the front and backyard for a home). Eight (8) surficial soil samples (sub-samples) were collected from each half. This number of sub-samples maintained the relative statistical power of the quadrant sampling approach used for OU-4 and the CTA. Samples were not collected where cultural features and/or current site features prevented access to the surface soils. Samples were collected from the first six inches of surficial soil. For properties approximately two acres or larger, the property was divided into approximately half-acre lots. Each of those half-acre lots received the half sampling described above. A statistical analysis was also performed to demonstrate that the CSA sampling approach maintained the relative statistical power of the quadrant approach and to show that the project decision error goals described in the WMP could be achieved using this procedure. The CSA statistical memorandum is also contained in Volume III of this document.

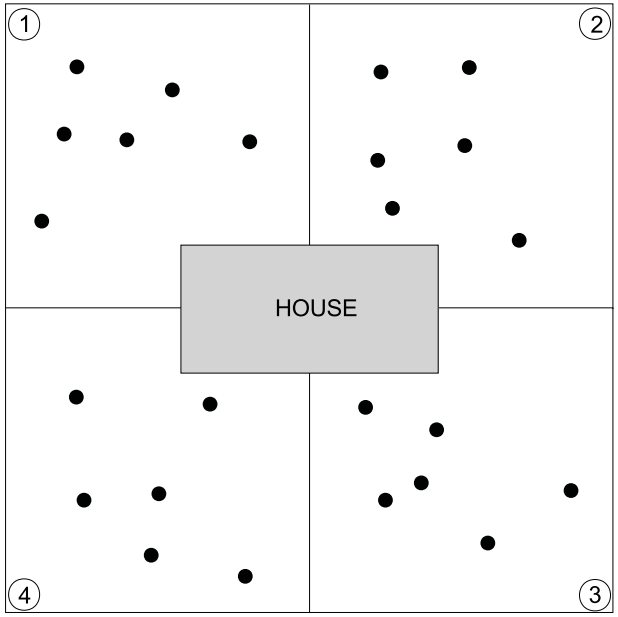
3.2.2.2 Figure 3-2 presents the example sampling configurations for each approach.

3.2.3 Subsurface Sampling – OU-4

3.2.3.1 In general, one subsurface boring was advanced at each site. For properties approximately two acres or larger, two borings were advanced per lot. Subsurface borings were advanced following clearance by the anomaly avoidance personnel. Sampling of the boring was continuous. A Geoprobe was used to obtain the boring samples. A Geoprobe is a thin bore sampling instrument that uses direct push technology to obtain a subsurface sample. To help site the boring, the cut and fill map developed during the 1995 RI was used to determine which areas



Example Half Sampling Configuration - CSA
(8 sub-samples composited into 1 for the half)



Example Quadrant Sampling Configuration - CTA & OU4
(6 sub-samples composited into 1 for the quadrant)

Figure 3-2
Example - Quadrant and Half Sampling Configuration

Spring Valley Operable Units 4 & 5
Washington D.C.

Legend

- Sub-Sample Location Randomly Placed
- (1) Quadrant or Half

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represent fill material since 1918 levels. The standard rationale for siting a boring was as follows: the boring locations reflected the USEPA Photographic Interpretation Center (EPIC) identified groundscars and stressed vegetation (features that may indicate areas potentially related to the former AUES activities). If none were present, the boring was located in a fill area, with the boring extending two feet beyond the fill (to a maximum depth of 10 feet). In an area of cut or a level area, the boring was advanced six feet below ground surface (bgs).

3.2.4 Subsurface Sampling – CTA

3.2.4.1 In general, one subsurface boring was advanced at each site. For properties approximately two acres or larger, the property was divided into approximately half-acre lots and one boring was advanced per lot. Subsurface borings were advanced following clearance by the anomaly avoidance personnel. Sampling of the boring was continuous. A direct push Geoprobe contractor was used to obtain the boring samples.

3.2.4.2 For most sites, the standard rationale described below directed where the boring was located. Certain CTA-POI locations followed a different rationale; those are also described below.

To help site the boring, the cut and fill map developed during the 1995 RI was used to determine which areas represent fill material since 1918 levels. The standard rationale for siting a boring was as follows: the boring locations reflected the USEPA Photographic Interpretation Center (EPIC) identified groundscars or stressed vegetation (features that may indicate areas potentially related to the former AUES activities). If none were present, the boring was located in a fill area, with the boring extending two feet beyond the fill (to a maximum depth of 10 feet). In an area of cut or a level area, the boring was advanced six feet below ground surface (bgs). Areas of fill that contain groundscars or stressed vegetation were the priority location for the boring.

3.2.5 Subsurface Sampling – CSA

3.2.5.1 Within the CSA, borings were placed on approximately 15% of the sites (approximately 166 sites). The sites were selected based on the prioritization analysis listed in Table 3.2 with borings in the highest priority sites (Priority 1) selected first, then Priority 2, etc., until the total amount (15% or 166 sites) was reached. Once a CSA site was selected using the prioritization logic, the standard rationale for locating the boring at the site was used. Additionally, for CSA sites that exceeded the arsenic screening level (discussed in section 3.2.6), that did not originally get a subsurface boring using the prioritization logic, borings were placed based on grid sampling results as follows: if any CSA half arsenic result was greater than 43 milligrams per kilogram (mg/kg), a boring with analytical parameters as discussed in Section 3.3.2 was placed.

Table 3.2
Subsurface Boring Placement Rationale (In Order of Priority)

1.	Overlapping ground scars in undisturbed area (cut/fill ≤ 4 ft.)
2.	Overlapping ground scars in disturbed area (cut/fill: 4 ft. < cut ≤ 10 ft., 4 ft. < fill ≤ 10 ft.
3.	Ground scar and later stressed vegetation or single 1918 ground scar in undisturbed area.
4.	Ground scar and later stressed vegetation or single 1918 ground scar in disturbed area.
5.	Single ground scar (post 1918) in undisturbed area.
6.	Single ground scar (post 1918) in disturbed area.
NOTES:	♦ Cut and fill refers to the ground scar or stressed vegetation, not the entire lot. ♦ Borings must be placed in ≤ 8 ft. fill for lots with existing houses and ≤ 10 ft. fill for undeveloped lots.

3.2.6 Grid Sampling

3.2.6.1 Sites containing surface sample results exceeding the screening level of 12.6 mg/kg [also described as parts-per-million (ppm)] arsenic received further investigation. Development of the screening level and a discussion of other comparison criteria, are presented in Section 5. Sites with at least one quadrant or half sample exceeding 12.6 mg/kg arsenic were grid sampled. The grid system consisted of 20-foot by 20-foot squares (grids) oriented across the entire site, with a single discrete sample collected at the grid center. On a case-by-case basis, some sites received a tighter grid system (10-foot by 10-foot), for example, some residences near the Sedgwick Trench Area. Also, some sites that had sample results less than the screening level, but which were in close proximity to other sites that contained screening level exceedances, were also grid sampled.

3.2.6.2 Table 3.3 summarizes the sample count by site type and analytical parameter. The table includes sampling through September 30, 2003.

Table 3.3
Sample Count

Area	Arsenic Surface	Arsenic Sub-surface \1	Specialty Parameters \2	Arsenic Grid
OU-4	428	648	250	1,291
OU-5 CTA	1,556	2,538	101	2,369
OU-5 CSA	2,138	1,387	184	3,696
Total	4,122	4,573	535	7,356

\1 Includes all soil boring samples collected during both quadrant/half & grid sampling. This counts all one-foot sample intervals in a single boring.

\2 Includes all specialty parameter samples collected during both quadrant/half & grid sampling.

3.3 ANALYTICAL PROGRAM

3.3.1 Surface Sample Analyses

3.3.1.1 The quadrant and half surface samples are composites. With the exception of the AU Lots and 4835 Glenbrook Road, these were analyzed for arsenic only. Surface samples for the AU Lots and 4835 Glenbrook Road also received mustard agent breakdown product (ABP) analysis. The grid samples are discrete samples; they were also analyzed for arsenic only. Note that the 4835 Glenbrook Road property is actually within OU-3. Although the arsenic contamination associated with this property is addressed in separate OU-3 documentation (Action Memorandum), the ABP results are discussed in this document.

3.3.2 Subsurface Sample Analyses

3.3.2.1 The subsurface samples were discrete samples collected at the bottom of each one-foot interval in the boring and analyzed for arsenic. Additionally, specific lists of compounds to be analyzed, based on the documented AUES activities, were developed for the CTA POI sites (POIs are shown on Figure 3-3, presented later in the discussion). These POI-specific lists of compounds were organized into sample plans as shown in Table 3.4. All CSA borings were analyzed for Sample Plan 2 parameters. These sample plans were collectively designated as "Specialty Parameters" to distinguish from arsenic-only analysis.

3.3.2.2 The POI-specific specialty parameters were only collected from one interval in the boring. With the exception of the POI 13 and Sedgwick Trench borings, the selected one-foot interval was the 1918 level (6 inches above and 6 inches below) as determined by the cut and fill data. In cut areas, or zero cut/fill, the specialty parameter sample was collected at 0-12 inches bgs. The trench boring samples were collected at the trench bottom, the most likely area of residual contaminants.

3.3.2.3 Subsurface sample analyses for the OU-4 samples were different from the OU-5 analyses. The OU-4 sites that were part of the AU campus (AU Lots) received a boring with arsenic analysis at every foot, plus mustard ABP analysis for the subsurface sample collected at the 1918 level. Table 3.4. indicates the specific mustard ABPs. The OU-4 sites that were private homes only received arsenic analyses for the subsurface samples, with the exception of portions of the sampling described in sections 3.8 through 3.11 below.

Table 3.4
Subsurface Sample Plans

Sample Plan No.	Sample Plan 1	Sample Plan 2	Sample Plan 3	Sample Plan 4
Area	**POI 19**	**POIs 15R & 16R, and CSA Subsurface**	**POIs 7R, 13, 39**	**POI 38**
Compounds	Arsenic	Arsenic	Arsenic	Arsenic
	Mustard	Mustard	Mustard	Tetryl
	Mustard ABPs (Oxathiane, Dithiane, Thiodiglycol)	Mustard ABPs (Oxathiane, Dithiane, Thiodiglycol)	Mustard ABPs (Oxathiane, Dithiane, Thiodiglycol)	Trinitrotoluene (TNT)
		Lewisite ABPs (CVAA/CVAO)	Lewisite ABPs (CVAA/CVAO)	Nitroglycerin
		Cyanide	Cyanide	2,4 dinitrotoluene (2,4-DNT)
			Tetryl	2,6 dinitrotoluene (2,6-DNT)
			Trinitrotoluene (TNT)	Nitrobenzene
			Nitroglycerin	
			2,4 dinitrotoluene (2,4-DNT)	
			2,6 dinitrotoluene (2,6-DNT)	
			Nitrobenzene	

3.4 OU-4 SAMPLING RESULTS

3.4.1 Arsenic Sampling Results

Through September 30, 2003, 107 sites (73 homes and 34 lots) had been sampled within OU-4. This includes surface and subsurface samples. Of these, 21 sites exceeded the screening level of 12.6 mg/kg arsenic and warranted follow-on grid sampling. The highest surface quadrant arsenic result was 101 mg/kg. The highest subsurface quadrant boring arsenic result was 124 mg/kg. This result was from the 0-1 foot bgs sample from the boring. The highest subsurface quadrant boring arsenic result at a depth greater than 1 foot bgs was 71.4 mg/kg. This result was from the 1-2 foot bgs sample from the boring. Based on arsenic concentrations in subsurface boring samples from four of the AU lots (AU lot 16, 19, 23, and 24), follow-on work was warranted as described in Section 2.4.4.

3.4.1.1 A summary of these results, as well as a summary of the following discussions, is presented in Table 3.5. The complete data tables for all the sampling can be found in Volume II.

Table 3.5
Results Summary

Sample Type	Highest Arsenic Result (mg/kg)	Sample ID\1	Exceed Arsenic Screening Criteria?	Detected Specialty Parameter (compound) \2	Sample ID\1	Exceed Specialty Screening Criteria?	Follow-on Action\3
OU-4 Surface	101	OU4-4625RP-3	YES	Thiodiglycol	OU4-AU06-2	NO	Grid Sampling
OU-4 Subsurface	124	OU4-AU12-SB1	YES	Thiodiglycol	OU4-AU24-SB2	NO	Removal
OU-4 Grid	498	OU4-CDC-(150,140)	YES	NONE	NA	NA	Removal
OU-5 CTA Surface	105	CTA-1A-4219(50)-4	YES	NONE	NA	NA	Grid Sampling
OU-5 CTA Subsurface	62.8	CTA-1C-5046Sedg-SB1	YES	Cyanide	CTA-1C-3940FR-SB(9-10)	NO	Removal
OU-5 CTA Grid	613	CTA-1B-3800(52)-(40,80)	YES	NONE	NA	NA	Removal
OU-5 CSA Surface	202	CSA-5-4115(45)-2	YES	NONE	NA	NA	Grid Sampling
OU-5 CSA Subsurface	20.6	CSA-9-L44-SB3	YES	Cyanide	CSA-2-5133YS-SB(2-3), CSA-3-4105(49)-SB(7-8), CSA-10-4813WL-SBB(2-3), and CSA-10-4813WL-SBA(8-9)	NO	TBD
OU-5 CSA Grid	529	CSA-5-4115(45)-(0,20)	YES	NONE	NA	NA	Removal

\1 Sample nomenclature explained in WMP and in Volume II.
\2 Compound was detected, but concentration was well below the screening level.
\3 Follow-on action based on arsenic results. Action may not have been completed by date of this report.
NA - Not applicable. TBD – To be determined

3.4.2 Specialty Parameters Sampling Results

3.4.2.1 The mustard ABPs collected on the AU lots are considered to be the specialty parameters for OU-4 sampling and the 4835 Glenbrook Road property. Mustard ABPs were only detected in two OU-4 samples, representing two different AU lots. The detected ABP was thiodiglycol, and each detection was well below the screening level for this compound. The 4835 Glenbrook sampling indicated thiodiglycol detections in each of the four quadrant surface samples. The concentrations were well below the screening level for this compound. A discussion of the screening level for thiodiglycol, as well as for other comparison criteria, is presented in Section 5.

3.4.3 Grid Sampling Results

3.4.3.1 As indicated above, 21 of the 107 sampled OU-4 sites exceeded the arsenic screening level and received grid sampling. Additionally, as a conservative measure, one site (4629RP) that did not exceed the arsenic screening level was grid sampled because of proximity to numerous other sites that had arsenic screening level exceedances. A total of 22 OU-4 sites were grid sampled. The highest OU-4 grid sample arsenic result was 498 mg/kg.

3.4.3.2 Figure 3-3 presents the grid sampled site locations. This figure includes OU-4 and OU-5 sites sampled, and for which data had been validated, through September 30, 2003, in order to track with the data tables presented in Volume II. Individual site maps showing grid results are also included in Volume II.

3.5 OU-5 CTA SAMPLING RESULTS

3.5.1 Arsenic Sampling Results

Through September 30, 2003, 364 sites (355 homes and 9 lots) had been sampled within the OU-5 CTA. This includes surface and subsurface samples. Of these, 51 sites exceeded the screening level of 12.6 mg/kg arsenic and warranted follow-on grid sampling. The highest surface quadrant arsenic result was 105 mg/kg. The highest subsurface quadrant boring arsenic result was 62.8 mg/kg. This result was from the 0-1 foot bgs sample from the boring. The highest subsurface quadrant boring arsenic result at a depth greater than 1 feet bgs was 22.8 mg/kg. This result was from the 4-5 foot bgs sample from the boring. In September 2001, the USEPA took 16 split samples with the USACE at selected CTA locations. The results, which indicate no discrepancies between USEPA and USACE arsenic concentrations, are presented in Volume II.

3.5.2 Specialty Parameters Sampling Results

3.5.2.1 The only specialty parameter detected in an OU-5 CTA sample was cyanide. Cyanide was detected in only one of the 101 specialty samples collected in the CTA. The cyanide

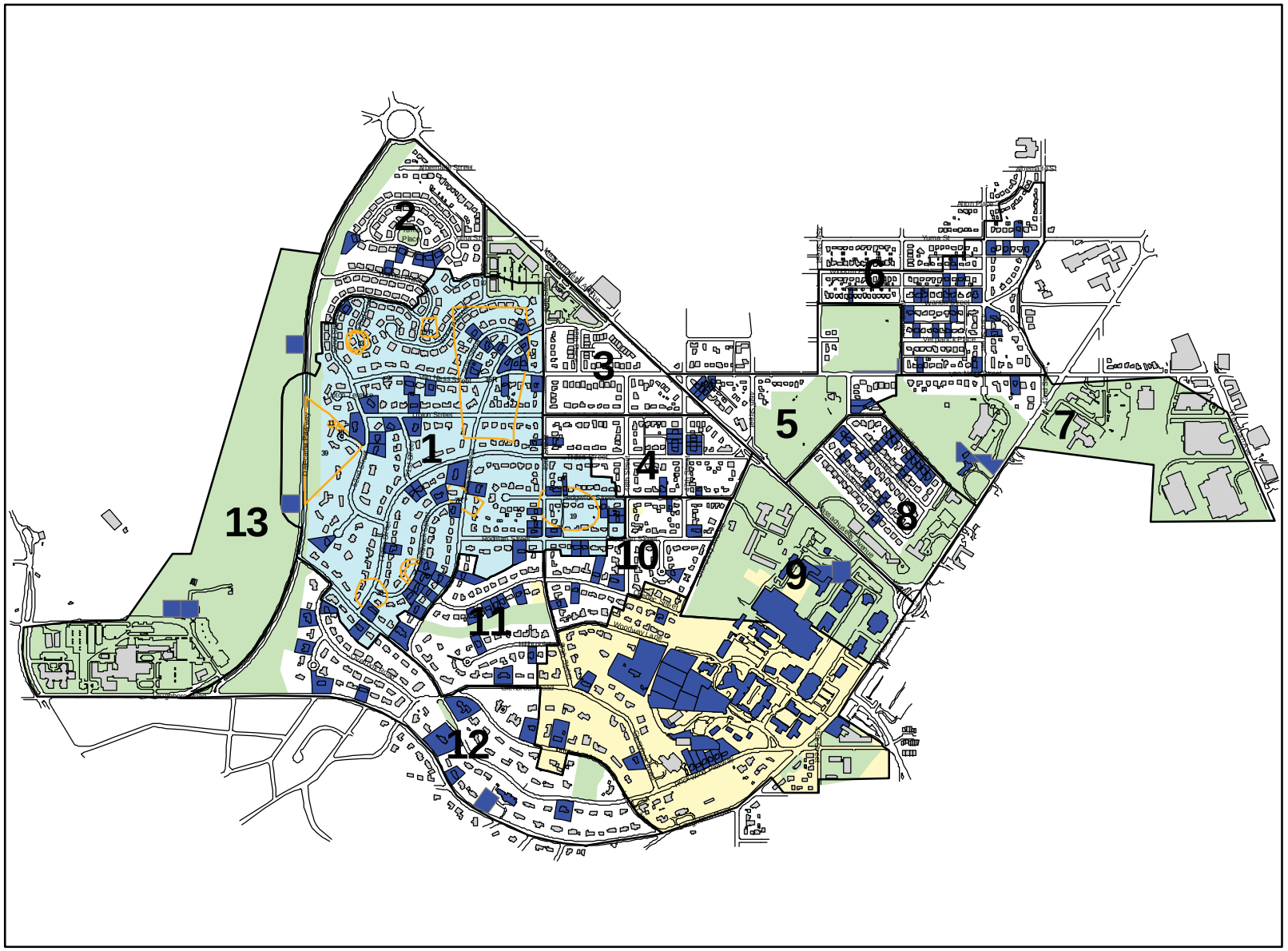


Figure 3-3
Grid Sampled Sites

Spring Valley Operable Units 4 & 5
Washington D.C.

Legend

- Grid Sampled Property
- Groupings
- POIs
- Buildings
- Roads
- Non-Residential Acreage
- CTA
- OU-4

Notes:

OU-5 Acreage comprises groupings 1 through 13.

CSA is groupings 2 through 13.

A site needed to exceed 12.6 ppm arsenic in order to warrant grid sampling.

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detection was well below the screening level for this compound. Section 4.4 provides a discussion of the extent of the specialty parameter detections. Discussion of the screening level for cyanide, as well as for other comparison criteria, is presented in Section 5.

3.5.3 Grid Sampling Results

3.5.3.1 As indicated above, 51 of the 364 sampled OU-5 CTA sites exceeded the arsenic screening level, warranting grid sampling. Of the 51 sites, 50 had been grid sampled through September 30, 2003. The highest OU-5 CTA grid sample arsenic result was 613 mg/kg. See Figure 3-3.

3.6 OU-5 CSA SAMPLING RESULTS

3.6.1 Arsenic Sampling Results

3.6.1.1 Through September 30, 2003, 1013 sites (758 homes and 255 lots) had been sampled within the OU-5 CSA. This includes surface and subsurface samples. Of these, 100 sites exceeded the screening level of 12.6 mg/kg arsenic and warranted follow-on grid sampling. The highest surface composite sample arsenic result was 202 mg/kg. The highest subsurface boring arsenic result was 20.6 mg/kg. This result was from the 2-3 foot bgs sample from the boring.

3.6.2 Specialty Parameters Sampling Results

3.6.2.1 The only specialty parameter detected in an OU-5 CSA sample was cyanide. Cyanide was detected in only four of the 179 specialty samples collected in the CSA. Two of the four detections were from the same property (4813WL), although from different borings and at different depths. All of the cyanide detections were well below the screening level for this compound. Discussion of the screening level for cyanide, as well as for other comparison criteria, is presented in Section 5.

3.6.3 Grid Sampling Results

As indicated above, 100 of the 1012 sampled OU-5 CSA sites exceeded the arsenic screening level, warranting grid sampling. Of the 100 sites, 100 had been grid sampled through September 30, 2003. The highest OU-5 CSA grid sample arsenic result was 529 mg/kg. See Figure 3-3. In November 2001, the USEPA took 20 split samples with the USACE at selected CSA grid locations. The results, which indicate no discrepancies between USEPA and USACE arsenic concentrations, are presented in Volume II.

3.7 USEPA BACKGROUND SAMPLING ACTIVITIES

3.7.1 Sample Procedures and Analyses

3.7.1.1 In 1993 and 1994, the USEPA performed a background study of Spring Valley soils. The procedure was to collect 12 split samples from the background soil samples collected by USACE during the 1995 OSR FUDS RI. These samples were used in the USEPA Risk Assessment (USEPA, 1999). The samples were collected within the OSR FUDS boundary and represent the four soil associations (ULMg, ULSC, Mg, and ULB) encountered in Spring Valley. In August 1999, the USEPA collected 30 background samples from outside of the OSR FUDS boundary; these samples reflected the four soil associations present within Spring Valley and were collected to provide data to supplement the USEPA Risk Assessment. Figure 3-4 shows the background sampling locations.

3.7.2 Background Sampling Results

3.7.2.1 The USEPA 1993 and 1994 background sampling results are summarized in the USEPA Risk Assessment. The August 1999 background sampling results are summarized in the *Background Trip Report, Spring Valley OU3, Washington DC*, prepared for the USEPA Region III (Federal Facilities Branch) by Roy F. Weston (Site Assessment Technical Assistance Team) (USEPA, 1999d). The data from the two events were combined to provide a statistically more robust background data set. Background summary statistics for arsenic are presented in Table 3.6. Additional discussion of the use of these data is presented in Section 5.

3.8 SPECIATION SAMPLING ACTIVITIES

3.8.1 Sample Procedures and Analyses

Arsenic speciation sampling was conducted in November 2002 to provide a better understanding of arsenic speciation (trivalent vs. pentavalent arsenic and organic vs. inorganic arsenic compounds) in site-specific soils. The objective of this limited study was to determine if there were differences between site-specific soils and background soils in terms of arsenic speciation (trivalent vs. pentavalent arsenic and organic vs. inorganic arsenic compounds). According to the Agency for Toxic Substances and Disease Registry (ATSDR), studies have indicated that organic arsenicals are usually less toxic than inorganic arsenic compounds. Differences in arsenic species could be attributed to anthropogenic (resulting from influences of human beings) sources of arsenic. Anthropogenic sources of arsenic may be associated with AUES activities, but could also be associated with the use of pressure-treated lumber, pesticides, herbicides, coal, or fertilizer. It has been shown that natural processes can also change the oxidation states of arsenic regardless of the original source (Oremland and Stolz, May 2003). All speciation sampling was performed in accordance with the *Final WMP Amendment 3, (October 2002).*

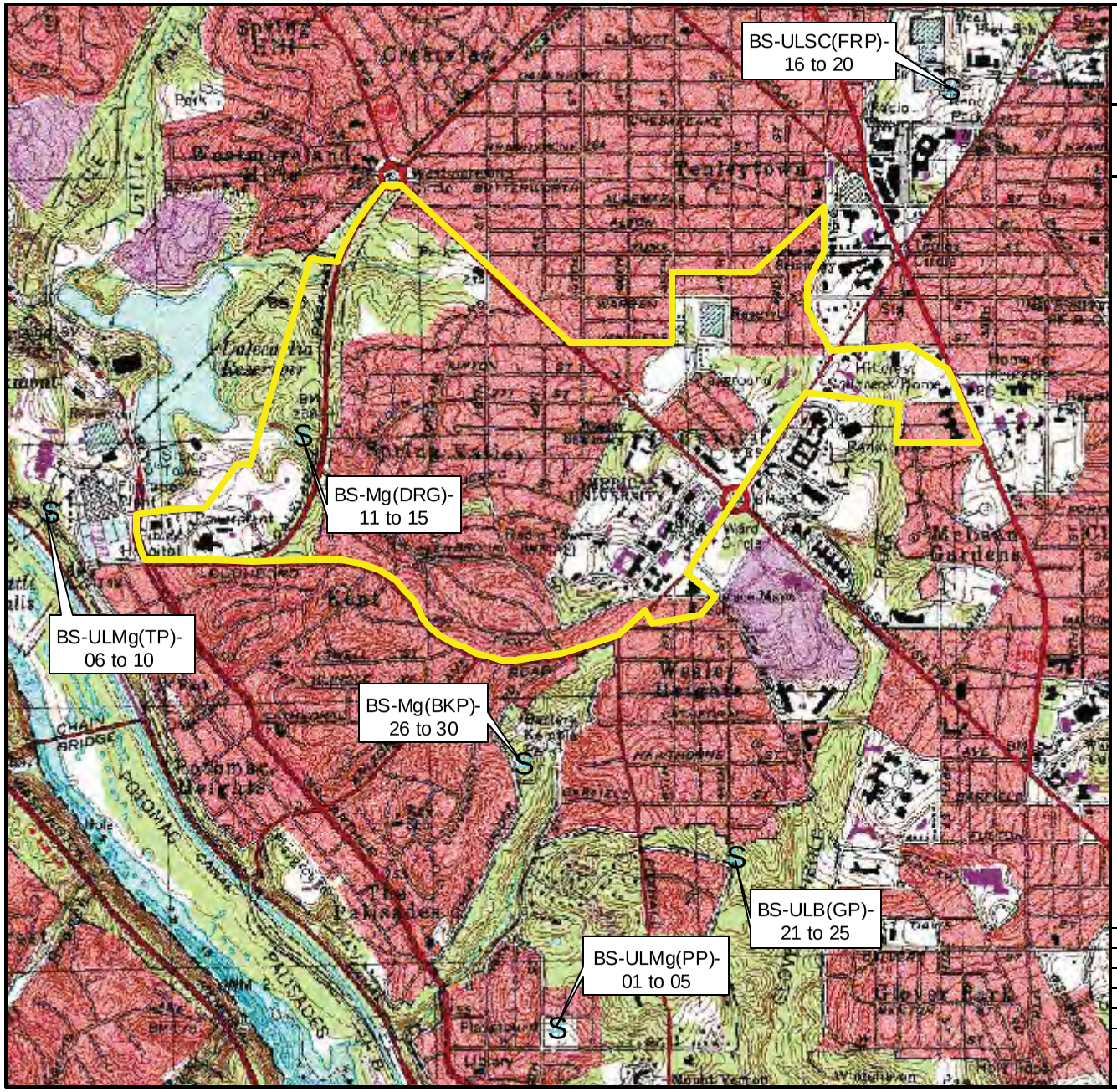


Figure 3-4
Background Sample Locations

Spring Valley Operable Units 4 and 5
Washington D.C.

Legend

SV FUDS Boundary

DRG - Dalecarlia Reservoir Grounds
FRP - Fort Reno Park
TP - West of Water Treatment Plant
BKP - Battery Kemble Park
GP - Glover Parkway
PP - Palisades Park

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Table 3.6
Background Summary Statistics

Parameter	Sample Number	Geometric Mean	Median	Minimum	Maximum	95th Percentile
Arsenic (mg/kg)	42	5.05	4.55	0.97	18	12.6

Note: In May 2002 it was discovered that one duplicate sample had inappropriately been used to calculate the above statistics. A recalculation indicated a 95th percentile of the data set to be 12.98 mg/kg. To be conservative, the lower of the two values (12.6 mg/kg) continued to be used as the screening criteria for the project.

3.8.1.1 Based on the results of the grid sampling, grids with relatively high arsenic concentrations, distributed throughout Spring Valley, were sampled for speciation in November 2002. Additionally, six background samples representing the four soil types were collected from the same locations the USEPA sampled; these were also analyzed for arsenic speciation. These background samples were collected to ensure that the site sample soil types were represented for the purposes of comparing site data and background data. However, only three of the four soil types were present in the sampled site soils. Samples were sent to the Battelle Marine Science Laboratories for arsenic speciation testing. The samples were analyzed by Battelle Marine Sciences Laboratories for inorganic arsenic (IA), arsenite (As+3), arsenate (As+5), monomethylarsonic acid (MMA), and dimethylarsinic acid (DMA). Battelle Marine Sciences Laboratories followed the procedures outlined in *Method 1632, Chemical Speciation of Arsenic in Water and Tissue by Hydride Generation Quartz Furnace Atomic Absorption Spectrometry, Revision A (USEPA, 2001).*

3.8.2 Speciation Sampling Results

3.8.2.1 The following discussion is a summary of the Technical Memorandum contained in Volume III of this EE/CA. Of the 15 samples (including QA/QC) analyzed for arsenic speciation, all of the samples had detectable concentrations of total arsenic and As^{+5}, and 14 of the 15 samples had detectable concentration of As^{+3}. Of the 15 samples collected, 7 were considered background samples and 7 were collected as site samples. The lab randomly selected an internal duplicate to make a total of 15 samples analyzed.

3.8.2.2 The reason for attempting to quantify the different forms of arsenic at the site was to determine if the species can be determined to be site-related or the result of releases that are not related to AUES activities. Differences in the pattern of background arsenic compared to the site-related samples could indicate the source of the arsenic (i.e., naturally occurring vs. anthropogenic). If the species are site-related, then it may be possible to make some conclusions regarding the relative risk associated with site-related contamination compared to the risk associated with exposure to naturally occurring arsenic.

3.8.2.3 The results indicate that concentrations of Total Arsenic, As^{+5}, and As^{+3}, appear elevated in the site samples when compared to background samples. Also, the ratio of As^{+5}/Total As was significantly higher in the site samples. While there is no indication that anthropogenic activities would specifically contribute one species of arsenic over another, naturally occurring arsenic would likely have the same profile of arsenic species. This profile is indicated by the ratios of the arsenic species to total arsenic. Differences in the ratios of As^{+5}/Total As between site samples and background samples is a possible indicator of potential anthropogenic sources of arsenic contamination. In addition, no organic arsenic compounds were detected in either site or background samples.

3.8.2.4 The findings suggest that, due to the significant difference in the As^{+5}/Total As ratios, the arsenic observed in the site samples may be from a different source than the arsenic in the background samples. Based solely on this study, the source of the As^{+3} and As^{+5} in the site samples cannot be determined. While the findings show that there may be an anthropogenic source of arsenic at the site, because of the uncertainties associated with the types of arsenic originally used at the site and the effects that more than 80 years of weathering may have, the findings cannot clearly indicate what that source may be. The anthropogenic source of arsenic may be associated with AUES, but it could also be associated with the use of pressure-treated lumber, pesticides, herbicides, coal, or fertilizer.

3.8.2.5 Because of the limitations of the study, the arsenic speciation findings were not relied upon to make Spring Valley project decisions. Neither the 12.6 mg/kg arsenic screening level nor the 20 mg/kg arsenic remediation endpoint (see Section 5) was based on the results of this study.

3.9 BIOAVAILABILITY SAMPLING ACTIVITIES

3.9.1 Sample Procedures and Analyses

3.9.1.1 Arsenic bioavailability sampling was conducted on a limited basis to provide a better understanding of the site-specific bioavailability (that fraction of arsenic absorbed into the bloodstream of the human body) of arsenic and to provide more information for human health risk evaluations. All bioavailability sampling was performed in accordance with the *WMP Amendment 3, Final (October 2002)*. A more detailed presentation of investigation objectives, background, and procedures, is contained in the *Technical Memorandum for Arsenic Bioavailability Study, USACE, (January 2002),* included in Volume III of this EE/CA.

3.9.1.2 In an attempt to sample areas of known arsenic contamination, the AU CDC investigation findings were used to focus sample locations. In March 2001, the three highest arsenic concentrations inside the AU CDC area and the three highest outside the CDC (but within AU Lot 12) were sampled for bioavailability. Additionally, six background samples representing the four soil types were collected from the same locations the USEPA sampled.

These were the same sample locations as the initial speciation sampling described in Section 3.8. All samples were collected as discrete surface soil samples, from 0-6 inches in depth. These samples were collected to match the soil types within Spring Valley to ensure that each of the four soil types were represented for the purposes of comparing site data and background data. The samples were submitted to the Laboratory for Environmental and Geological Studies, University of Colorado, at Boulder. Specifically, samples were submitted for determinations of the bioavailability of arsenic from soil. In addition, a determination of the types of particles (inorganic vs. organic) that contain bound arsenic was conducted.

3.9.2 Bioavailability Sampling Results

3.9.2.1 The following discussion is a summary of the Technical Memorandum contained in Volume III. Of the fifteen samples (including QA/QC) analyzed for bioavailability, only eleven samples had detectable concentrations in the test solution that could be used to derive a percent bioavailability. For those samples with detectable concentrations, the percent bioavailability ranged from 3% to 50%.

3.9.2.2 The data presented can be interpreted to conclude that risk estimates derived using detected concentrations of arsenic will likely overestimate the potential risks and hazards associated with exposures to the soils. Based on a bioavailability factor of 3%, these risks and hazards will be overestimated by up to a factor of 33 and remediation criteria developed without accounting for bioavailability will result in criteria that can be up to 33 times too stringent. Even using the most conservative of these bioavailability values (50%) results in the reduction of risk and hazard estimates by one-half and an increase of any calculated remediation criteria by a factor of two.

3.9.2.3 In addition to the bioavailability study, a determination of the types of arsenic-bearing particles was conducted using both electron microprobe and chemical analysis. In general the data indicated the arsenic-bearing phases to be either iron oxides, manganese oxides, iron arsenic sulfates or clays, as determined by particle analysis. An interpretation of the data, when compared to the bioavailability data discussed above, shows that for the four samples where the arsenic-bearing phase was predominantly iron oxides (97 – 100%), and where clays were not identified as an arsenic-bearing phase, the bioavailability ranged from 7 – 22%. For the single sample that had clays identified as an arsenic-bearing phase (OU4-CDC, 150,140), the bioavailability was determined to be 50%. Data from the single sample suggests that arsenic in clays may be more bioavailable and that risk estimates will likely be overestimated for soils where the arsenic-bearing phase is exclusive of clays.

3.9.2.4 Due to the limited amount of data available, a regression model was not developed to determine a bioavailability adjustment factor (BAF) for use at Spring Valley. However, the most conservative assumption would be to use a BAF of 50%, based on the single highest bioavailability obtained from any sample. The range of bioavailability in the remaining samples was 3%-22%, with a mean of 10%. Finally, although these findings indicate that assuming 100% bioavailability is conservative, no project decisions were based on the measured bioavailability range. That is, 100% bioavailability was assumed for the project.

3.9.2.5 Because of the limitations of the study, the arsenic bioavailability findings were not relied upon to make Spring Valley project decisions. Neither the 12.6 mg/kg arsenic screening level nor the 20 mg/kg arsenic remediation endpoint was based on the results of this study.

3.10 SPLP SAMPLING ACTIVITIES

3.10.1 Sample Procedures and Analyses

3.10.1.1 Synthetic Precipitation Leaching Procedure (SPLP) sampling was performed to help evaluate the potential leachability of arsenic from the soil to groundwater. The objective was to help evaluate the potential leachability of arsenic from the soil to groundwater. Specifically, the objective was to determine the concentration of arsenic in soil that, upon leaching from soil to groundwater, will not result in an arsenic concentration that exceeds the groundwater Maximum Contaminant Level (MCL). A more detailed presentation of investigation objectives, background, and procedures, is contained in the *Technical Memorandum for SPLP Arsenic Sampling, USACE, (January 2002),* included in Volume III of this EE/CA.

3.10.1.2 SPLP sampling performed in support of the OU-3 EE/CA as well as additional SPLP sampling conducted for OU-4 is discussed in the Technical Memorandum. In May 2000, Parsons collected SPLP soil samples (42 total samples) at 4801 Glenbrook Road in support of the OU-3 EE/CA. In February 2001, composited 0-2 foot intervals from the grids with the highest 5% of arsenic concentrations (4 total samples) within the CDC were analyzed for SPLP arsenic. All sampling for the OU-3 EE/CA was performed in accordance with *Change 05, Revised Sampling and Analysis Plan*, 4801 Glenbrook Road, (May 2000). All sampling at the CDC was performed in accordance with the *WMP Amendment 1, Revised Final (February 2001).*

3.10.1.3 According to USEPA guidance (USEPA, 1996), a leach test may be more appropriate to help evaluate the potential leachability of arsenic from the soil to groundwater. USEPA guidance (USEPA, 1995) states that the SPLP was originally designed as an alternative to the Toxicity Characteristic Leaching Procedure (TCLP). The SPLP is designed to determine the mobility of both organic and inorganic contaminants contained in wastes and is intended to simulate the effect of acid rain on land-disposed wastes. The primary difference between the two tests is the composition of the leaching medium. While the TCLP relies on extraction fluids that simulate the organic acids that would form from decomposing wastes in a landfill, the SPLP requires the use of extraction fluids that simulate acid rain.

3.10.2 SPLP Sampling Results

3.10.2.1 The following discussion is a summary of the Technical Memorandum contained in Volume III. A total of 46 samples were collected and subjected to the procedure. Of these 46 samples, only seven resulted in detectable concentrations of arsenic in the leachate. Six of the seven samples (total arsenic of 11.5, 25.9, 16, 66.2, 217, and 668 mg/kg) with detectable arsenic

in leachate had a high correlation between soil concentration and leachability. The correlation coefficient for these six samples was 0.99. When the seventh detected sample (total arsenic of 498 mg/kg) was included in the data set, the correlation coefficient dropped to 0.36. Using all the data points, a soil concentration of 217 mg/kg arsenic was the highest that did not exceed the 50 ug/L arsenic MCL. USEPA revised the arsenic MCL to 10 ug/L [Federal Register (66 FR 6975)] on January 22, 2001. Using all the data points, a soil concentration of 66.2 mg/kg arsenic was the highest that did not exceed the revised 10 ug/L MCL. Using the linear regression equation from the six samples with high correlation indicates that concentrations in soils up to 244 mg/kg would not result in an exceedance of the MCL of 50 ug/L. Using the same linear regression equation from the six samples with high correlation, a soil concentration of up to 56 mg/kg would not result in an exceedance of the revised MCL of 10 ug/L.

3.10.2.2 These concentrations suggest that arsenic leaching to groundwater does not appear to be a significant pathway since concentrations that result in an MCL exceedance are greater than the remediation endpoint concentrations proposed for soil (20 mg/kg, discussed further in Section 5). That is, soil greater than 20 mg/kg arsenic would be identified for removal action. The possibility that arsenic may have already leached to groundwater from soil, prior to removal actions, will be addressed separately by the current groundwater investigation.

3.10.2.3 Please note that the arsenic SPLP findings were not relied upon to make Spring Valley project decisions. Neither the 12.6 mg/kg arsenic screening level nor the 20 mg/kg arsenic remediation endpoint was based on the results of this study. The groundwater investigation will obtain site-specific data to characterize whether arsenic has leached to the groundwater from site soils.

3.11 AUES LIST SAMPLING ACTIVITIES

3.11.1 Sample Procedures and Analyses

3.11.1.1 Three investigations were performed to assess for the presence of the AUES list of chemicals. The AUES list of chemicals is a list of approximately 200 chemicals or compounds with documented usage at the AUES. Some of these were common, but most were specific to AUES activities. Sampling was performed at three different areas, reflecting different types of sites and past practices. Each of the three efforts was performed as a separate investigation, with separate reports of results submitted. The three areas were:

- 3819 48th Street, 4710 Quebec Street, 4625 and 4633 Rockwood Parkway;
- CDC/AU Lot 12; and
- Sedgwick Trench Area.

3.11.1.2 A more detailed presentation of results is contained in the: Report of Analytical Results (3819 48th Street, 4710 Quebec Street, 4625 and 4633 Rockwood Parkway), USACE, (May 2002); Report of Analytical Results (CDC/AU Lot 12), USACE, (April 2002); and Report

of Analytical Results (Sedgwick Trench Area), USACE, (April 2002). Each of these reports is included in Volume III of this EE/CA.

3.11.1.3 In accordance with the *Revised Final Work Management Plan for Follow-on Sampling for OU-4 Residential Lots, Amendment 2 (Parsons, April 2001),* Parsons collected soil samples from four residences. These locations were selected because of relatively high arsenic concentrations, or information from other sources suggesting a high likelihood of finding potential contamination. The effort included three AUES List samples each from 4710 Quebec Street, 4625 Rockwood Parkway, and 4633 Rockwood Parkway, and four AUES List samples from 3819 48th Street, for a total of 13 AUES List samples. The samples were discrete samples collected at 0-6 inches bgs, 9-15 inches bgs, or 12-18 inches bgs, depending on location.

3.11.1.4 In accordance with the *Revised Final Work Management Plan, Amendment 1, AU Lot 12/Child Development Center (Parsons, February 2001),* Parsons collected 32 soil samples from the CDC/AU Lot 12 area. Of the 32 samples, 16 were analyzed directly for the AUES List chemicals. The other 16 were analyzed for various parameters as detailed in Volume III. The samples were discrete samples collected primarily at 0-6 inches bgs, with some taken at varying depths.

3.11.1.5 In accordance with the *Revised Final Work Plan for Sedgwick Trench Area Investigation (Parsons, June 2001),* Parsons collected five soil samples (four samples plus one duplicate sample) from the Sedgwick Trench. The samples were discrete samples collected at the presumed bottom of the trench.

3.11.1.6 Because many of the CWM-related compounds were not common and did not have established or routine analytical methodologies, the analytical plan called for analysis for related chemicals that had routine analytical methodologies and that could be directly analyzed. These included Target Compound List (TCL) and Target Analyte List (TAL) constituents, CWM compounds, and CWM degradation products. For the AUES List chemicals that could not be directly analyzed, indicator compounds were developed to make determinations of whether the chemicals could be present. Therefore, the final list of parameters included TCL compounds and CWM degradation products.

3.11.2 AUES List Sampling Results

3.11.2.1 This EE/CA discusses how the AUES List investigation was performed and presents the data (Volume III). However, because of the complex nature of the data and the need for careful interpretation of the results, no evaluation of the results is included in this document. Pending completion of this evaluation, a separate report addressing all results will be prepared.

3.11.2.2 Because many of the AUES List chemicals were not common and did not have established or routine analytical methodologies, the possible presence or absence of these chemicals was inferred by the presence or absence of its indicator compound. Of the approximately 200 AUES List chemicals, 138 could be analyzed using the methods described

above. Of the 138 chemicals, only 59 could be directly analyzed; for the remaining 79 chemicals, presence or absence of the chemical could only be inferred.

3.11.2.3 For the chemicals that could be directly analyzed, detections were compared to appropriate criteria as discussed further in Section 5. Where the presence or absence of the chemical could only be inferred, it is likely that some false positives resulted. For example, because arsenic trifluoride does not have a routine analytical method, arsenic and fluoride were used as the indicator compounds for this chemical. The presence of both compounds in detectable amounts resulted in a conclusion that the presence of arsenic trifluoride in the sample could not be ruled out. However, since arsenic and fluoride are common compounds and would be expected even in the absence of arsenic trifluoride, this could result in false positives. As a result, the additional work on evaluating these results may no longer rely on inferring the presence of a compound by use of indicator compounds.

3.11.2.4 Upon further discussion of these results by the Partners, the USEPA recommended additional ways to focus the conclusions of the analytical results. The recommendations included: stoichiometry analysis to see if the concentrations of the indicator compounds relative to the parent chemical could provide stronger support for a presence/absence conclusion; fate and transport analysis to see if the parent chemical or its indicators would likely be present more than 80 years after the chemical was used at AUES; and, relative toxicity evaluations to examine whether the indicator compounds detected might be more harmful than the parent chemical, thereby reducing the importance of the absolute determination of the presence of the parent chemical. The Partners agreed with the recommendations. Pending completion of this analysis, separate reports evaluating all results will be submitted.

3.11.2.5 Figure 3-5 presents the locations of the speciation, bioavailability, SPLP, and AUES List samples.

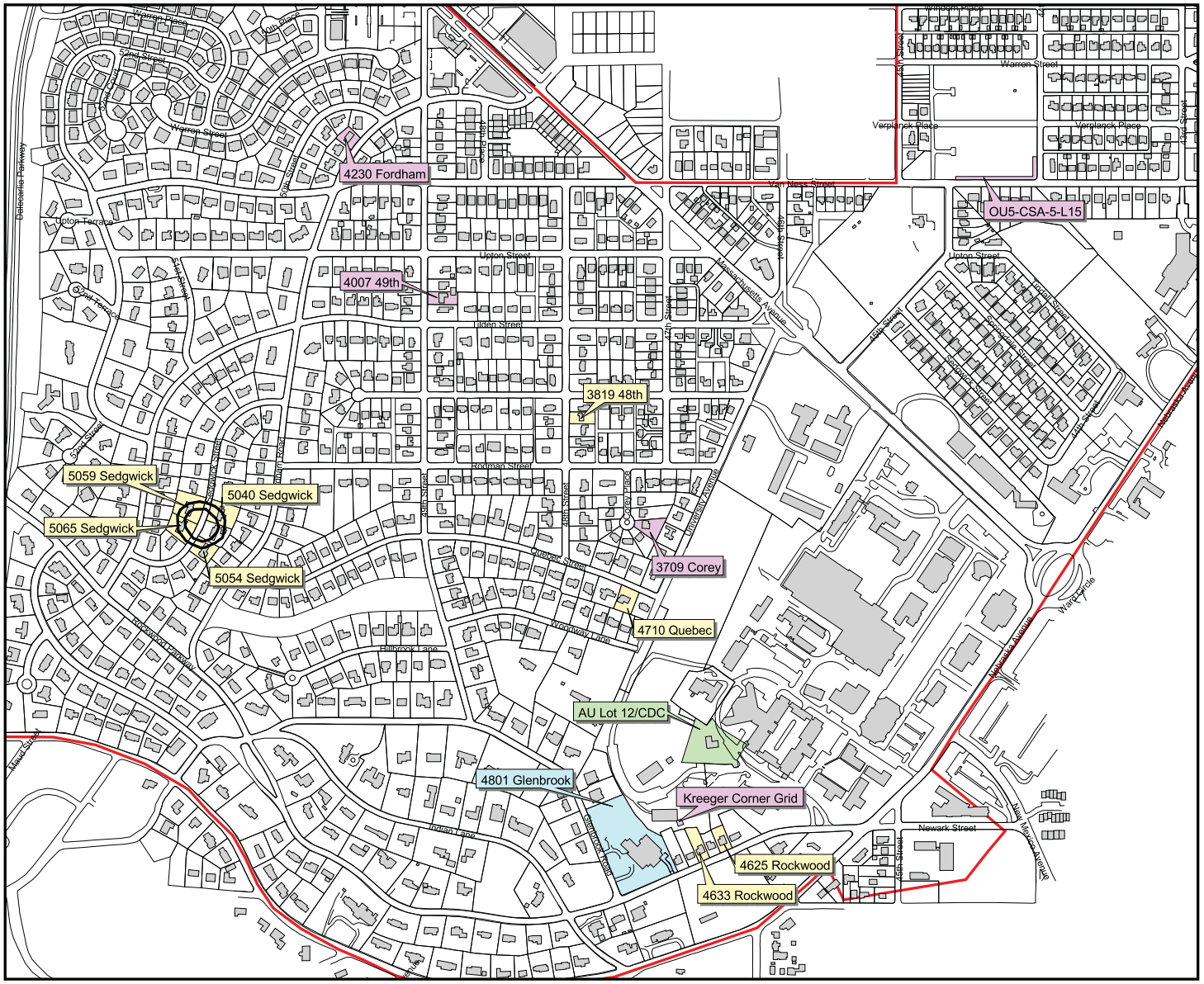


Figure 3-5
Sample Location Overview

Spring Valley Operable Units 4 & 5
Washington D.C.

Legend

- Sedgwick Trench
- Roads
- Buildings
- Speciation Samples
- AUES List, Bioavailability, and SPLP Samples (CDC)
- AUES List Samples
- SPLP Samples
- Parcels
- SV Boundary

Note:
Background sampling locations associated with speciation and bioavailability are shown in figure 3-4.

500 0 500 Feet

1 inch = 500 feet

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4. SOURCE, NATURE, AND EXTENT OF CONTAMINATION

4.0.0.1 This section presents the results of this OU-4 and OU-5 EE/CA investigation. The results of the other Spring Valley investigations described in Section 2.4 are not included here. Any significant findings from those investigations have been addressed in separate actions.

4.1 SOURCE

4.1.1.1 Arsenic has been identified as a Chemical of Concern (COC) in the soil at Spring Valley. This identification is based on the concentrations discussed in Section 3 and a comparison of those concentrations to screening criteria as discussed in Section 5. This is also based on the findings of previous investigations, including the OU-3 EE/CA Risk Assessments (USACE, October 2000 and April 2002). There are likely several sources of arsenic in the soil at Spring Valley. Arsenic is naturally occurring and widely distributed in the environment. Arsenic levels may have been increased by human activities other than those associated with the AUES, including fertilizer, pesticide and herbicide usage, and coal burning. One of the most wide-spread sources of arsenic is the use of pressure treated wood (chromated copper arsenate or CCA). Arsenic in the soil could also be related to AUES activities, as several AUES List compounds, most notably Lewisite, contain arsenic.

4.2 NATURE AND PHYSICAL CHARACTERISTICS OF ARSENIC

4.2.1.1 The Chemical Abstract Service (CAS) number for arsenic is 744-03-82. The atomic weight of arsenic is 75 and the specific gravity of arsenic is 5.73. The following description is from the Agency for Toxic Substances and Disease Registry (ATSDR) fact sheet. Arsenic is a naturally occurring element widely distributed in the earth's crust. In the environment, arsenic combines with oxygen, chlorine, and sulfur to form inorganic compounds. Arsenic in plants and animals combines with carbon and hydrogen to form organic arsenic compounds. Organic arsenic is usually less harmful than inorganic arsenic. Inorganic arsenic compounds are mainly used to preserve wood, but can also be used to make insecticides and weed killers. Organic arsenic compounds are sometimes used as pesticides. The Department of Health and Human Services and the USEPA have determined that inorganic arsenic is a human carcinogen (ATSDR, July 2001).

4.2.1.2 Arsenic also exists in different electronic valence states. Among the inorganic arsenic compounds, the trivalent arsenites are somewhat more toxic than the pentavalent arsenates. Arsenite compounds are 4 to 10 times more soluble than arsenate compounds. The arsenates will fix to soil more easily and are therefore not very mobile. The adsorption of arsenite is highly dependent upon the pH range. Under anaerobic conditions, arsenate may be reduced to arsenite. Arsenite is more subject to leaching because of its higher solubility. The transport of arsenic through the soil column is highly dependent upon these physical and chemical properties as well as that of the soil. Arsenic is readily and strongly bound to the soil by the presence of fixing agents such as iron. Surface dust and erosion are common mechanisms of arsenic transport.

4.2.1.3 At Spring Valley, arsenic speciation (Section 3.8) indicates possible anthropogenic sources when compared to the background samples. In particular, As^{+5} is significantly higher on site than in the background samples. As indicated in that section, the nature of the anthropogenic source, AUES activities or other (coal, fertilizer, pesticides use, etc.), could not be determined. The bioavailability study (Section 3.9) suggests that the arsenic bearing phases in Spring Valley soils are mainly iron oxides, manganese oxides, iron arsenic sulfates, or clays. Soil type does not appear to be a major factor in arsenic concentrations as there appeared to be little difference between arsenic concentrations among the four soil types sampled.

4.3 EXTENT OF ARSENIC CONTAMINATION

4.3.1 Surface Soil

4.3.1.1 As discussed in more detail in Section 5, composite surface soil arsenic concentrations greater than 12.6 mg/kg triggered further investigation and the resulting grids containing arsenic concentrations greater than 20 mg/kg (remediation endpoint) were identified for removal action. The grid sampling focussed the extent and distribution of arsenic contamination by identifying those grids containing arsenic concentrations greater than 20 mg/kg.

4.3.1.2 Figure 4-1 presents the sites throughout Spring Valley that received grid sampling. The individual sites have been color-coded on the figure to indicate relative arsenic concentrations. The color-coding was applied to the entire site if one or more samples were above the designated arsenic concentration. Some sites that were grid sampled showed no arsenic concentrations greater than 20 mg/kg. Those sites are shown on the figure although they are not identified for removal activity. As discussed in more detail in Section 5, the color increments on the figure represent grids exceeding 20 mg/kg, 43 mg/kg and 150 mg/kg arsenic. Further discussion of the rationale for the arsenic concentration increments is contained in Section 5.

4.3.1.3 As shown on the figure, 64 sites had at least one grid result greater than 20 mg/kg arsenic, but less than or equal to 43 mg/kg arsenic. 64 sites had at least one grid result greater than 43 mg/kg arsenic, but less than or equal to 150 mg/kg arsenic. 19 sites had at least one grid result greater than 150 mg/kg arsenic. Note that most of the residential sites scheduled for a TCRA (Section 2.4.4) contained at least one grid result greater than 150 mg/kg arsenic. Volume II contains individual grid result maps for every grid-sampled site as well as a large-scale fold out map for finding specific sites by street address.

4.3.1.4 Based on the planning for the NTCRAs to be completed, there are approximately 800 grids (greater than 20 mg/kg) to be removed. This represents a volume of almost 24,000 cubic yards of arsenic contaminated soil.

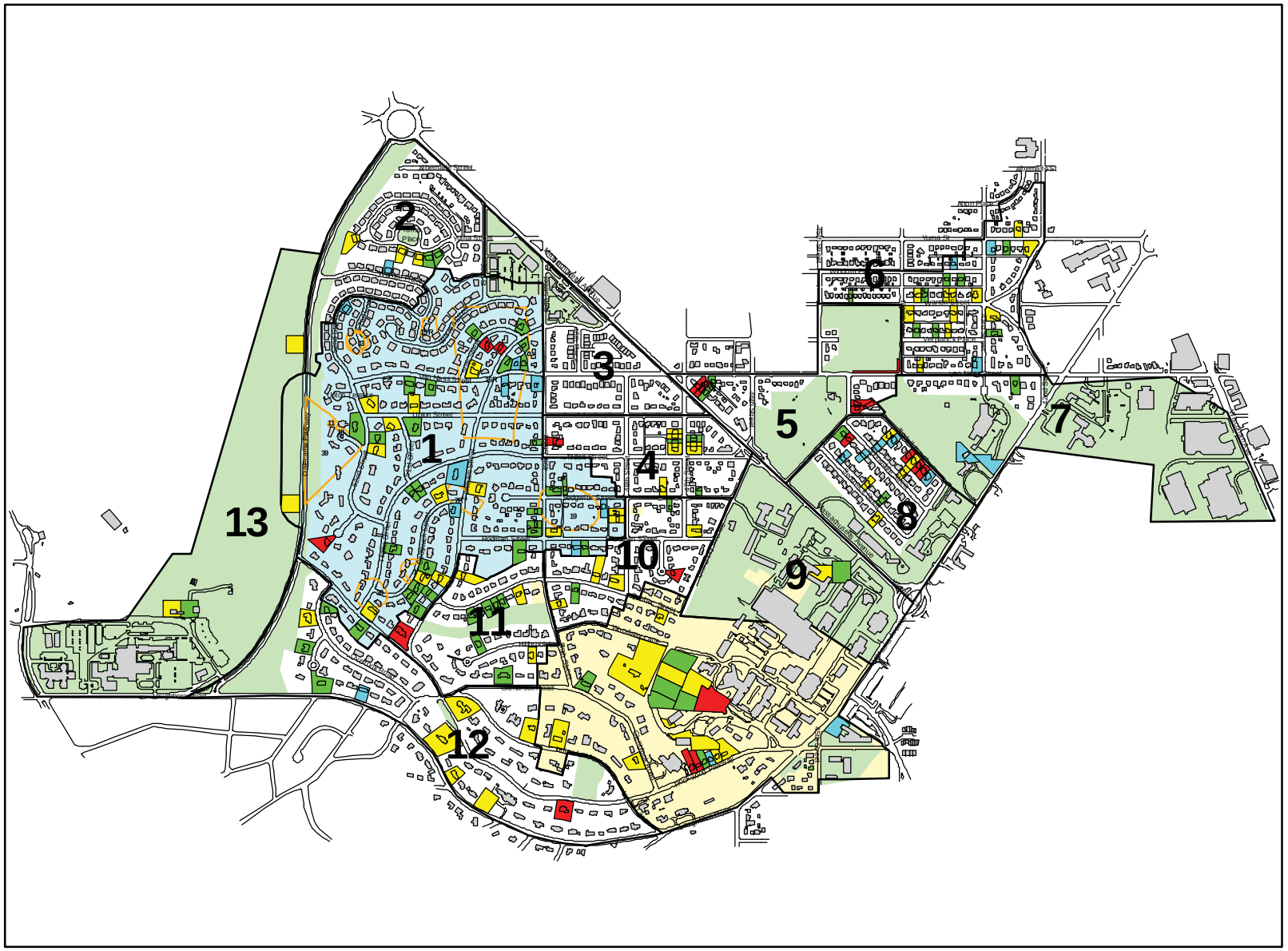


Figure 4-1
Grid Sampled Sites
(Showing Relative Arsenic Concentrations)

Spring Valley Operable Unit 4 & 5
Washington D.C.

Legend

At least one grid sample:
- > 0 - 20 ppm As (22)
- > 20 - 43 ppm As (65)
- > 43 - 150 ppm As (65)
- > 150 ppm As (19)
- Groupings
- POIs
- Buildings
- Roads
- Non-Residential Acreage
- CTA
- OU-4

Notes:

OU-5 Acreage comprises groupings 1 through 13.

CSA is groupings 2 through 13.

A site needed to exceed 12.6 ppm arsenic in order to warrant grid sampling.

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4.3.2 Subsurface Soil

4.3.2.1 Few subsurface samples exhibited levels of arsenic greater than 20 mg/kg. As previously indicated in Section 3.4.1, subsurface arsenic concentrations resulted in removals at AU lots 16, 19, 23, and 24. In general, where elevated arsenic levels were found in subsurface samples, the depth was the 0-1 foot bgs interval.

4.3.3 Migration Potential

The migration potential for arsenic in the soils at Spring Valley was evaluated through the SPLP sampling discussed in Section 3.10. The SPLP concentrations suggest that arsenic leaching to groundwater does not appear to be a significant pathway. This is because the arsenic soil concentrations that would result in an arsenic MCL exceedance were greater than the remediation endpoint (discussed further in Section 5) and would therefore be removed. The possibility that arsenic may have already leached to groundwater from soil, prior to removal actions, will be addressed in the current groundwater investigation.

4.4 EXTENT OF SPECIALTY PARAMETER DETECTIONS

4.4.0.1 This discussion does not address the AUES List sampling summarized in Section 3.11 (those results, which are presented in Volume III of this EE/CA, require further analysis and the evaluation will be presented in a separate document). For the OU-4 and OU-5 sampling other than the AUES List sites, few compounds other than arsenic were detected. Figure 4-2 indicates detections of thiodiglycol (a non-specific mustard ABP, i.e., thiodiglycol is not necessarily the result of mustard) and cyanide at six sites. These are detections of the parameter, not exceedances of their screening criteria. The detected concentrations were well below the screening criteria (see Table 5.1). Thiodiglycol was detected in two OU-4 sites (AU Lots). One detection was in a surface sample and one was in a subsurface sample. Cyanide was detected in five samples (representing four sites). Each of these detections was from a subsurface sample. While these detections are below screening criteria, the need for further sampling will be evaluated by the USACE with input from USEPA, DCDOH, and all other stakeholders.

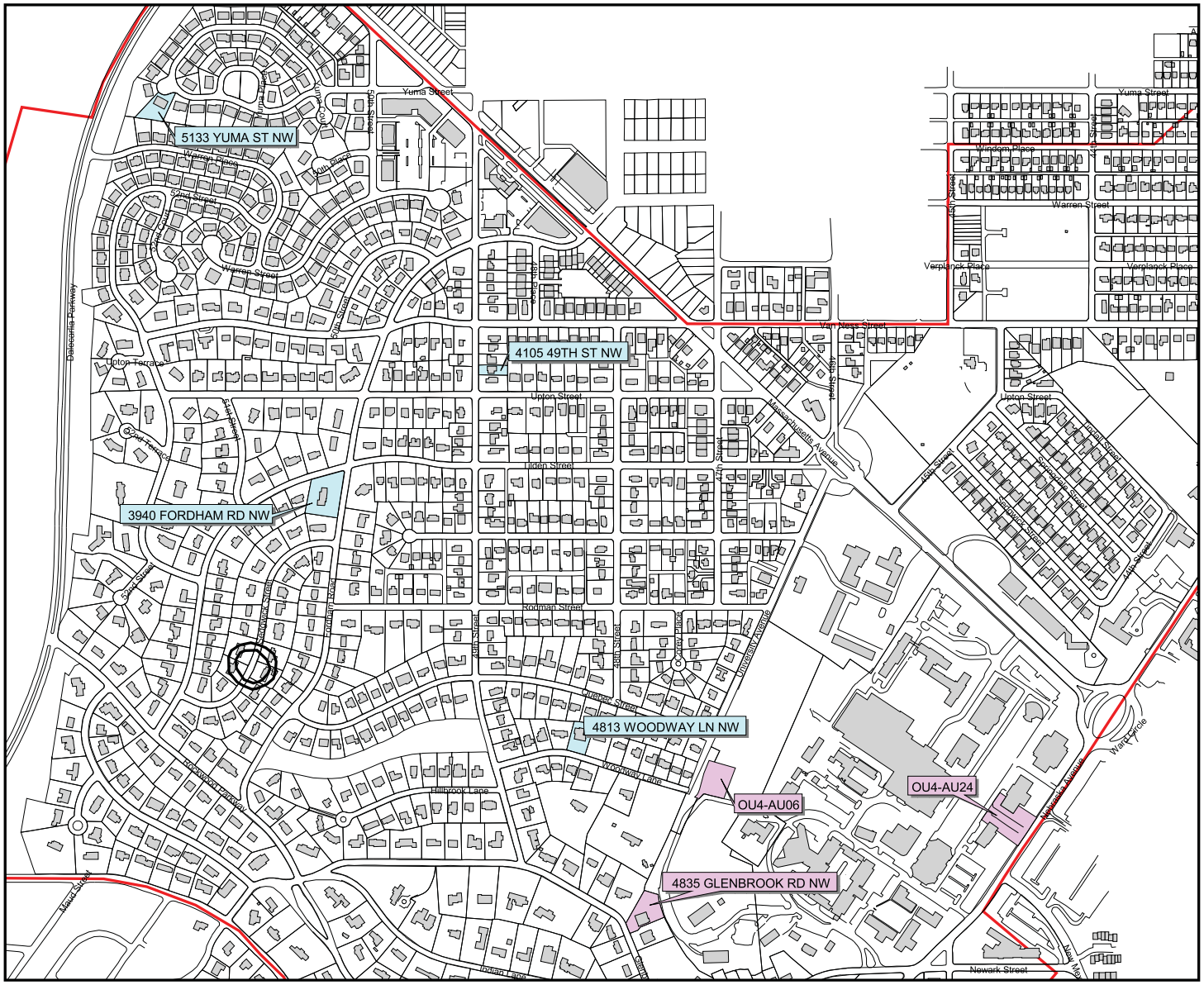


Figure 4-2
Specialty Parameter Detections
(Not Including AUES List Sampling)

Spring Valley Operable Units 4 & 5
Washington, D.C.

Note:
These are detections. None of the detections exceeded the screening criteria for the parameter.

With the exception of AU06, all detections were from subsurface samples.

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5. STREAMLINED RISK EVALUATION

5.1 INTRODUCTION

5.1.0.1. Risk Assessments (RA), associated with the OU-3 EE/CA, were performed to estimate the potential risks/hazards to current and future receptors from site related contamination at 4801, 4825, and 4835 Glenbrook Road. The initial RA at 4801 and 4825 Glenbrook (USACE, October 2000) was supplemented by additional data from 4835 Glenbrook (USACE, April 2002). Some of the information presented in this section was derived from those RAs. A summary of the soil screening levels, comparison criteria, and remediation endpoints developed for the analytical parameters for the project is presented in Table 5.1.

Table 5.1
Analytical Parameters and Comparison Criteria

Parameter	Units	Comparison Criteria			Remediation Endpoint\4
		RBC	Background\2 (screening level)	Other\3	
Arsenic	mg/kg	0.43\1	12.6		20
Specialty Parameters:					
CVAA/CVAO	ug/kg	890\a			NA
Sulfur Mustard	ug/kg			10	NA
1,4-Dithiane	ug/kg	78,000\b			NA
1,4-Oxathiane	ug/kg	78,000\a, b			NA
Thiodiglycol	ug/kg	39,100\a, b			NA
2,4-Dinitrotoluene	ug/kg	16,000\b			NA
2,6-Dinitrotoluene	ug/kg	7,800\b			NA
2,4,6-Trinitrotoluene	ug/kg	21,000\1			NA
Nitrobenzene	ug/kg	3,900\b			NA
Nitroglycerine	ug/kg	46,000\1			NA
Tetryl	ug/kg	78,000\b			NA
Cyanide, Total	mg/kg	160\b			NA

\1 USEPA's published Risk-Based Concentrations [for Cyanide, (Free) Cyanide RBC was used].

\2 95th Percentile of arsenic background samples.

\3 US Army Center for Health Promotion and Preventive Medicine (USACHPPM) residential Health-Based Environmental Screening Level (HBESL).

\4 Only arsenic required development of a remediation endpoint, as no other parameters were detected above the comparison criteria listed.

NA - Not Applicable.

\a RBC derived for the 1995 RI (USACE, 1995).

\b RBC for non-carcinogen adjusted downward by a factor of 10 to account for cumulative effect of several compounds possibly present.

5.2 ARSENIC SCREENING LEVEL

5.2.0.1 The RAs determined arsenic to be the COC. A toxicity screening was performed by comparing the maximum detected concentrations of arsenic to USEPA Region III Residential Risk-Based Concentrations (RBCs). For compounds such as arsenic, where natural background concentrations are greater than RBCs, the toxicity screening can be performed using the background concentrations. Therefore, as discussed in Section 3.7, a background study was performed. The 95th percentile of the background arsenic data set was 12.6 mg/kg whereas the Region III residential RBC is 0.43 mg/kg. Thus, the screening level for arsenic at the Spring Valley site was established at 12.6 mg/kg. The use of the 95th percentile of the background arsenic data set to screen for arsenic contamination was a consensus approach of the Partners.

5.3 ARSENIC REMEDIATION ENDPOINT

5.3.0.1 A remediation endpoint for arsenic of 20 mg/kg was jointly proposed by the Partners. The endpoint is that soil arsenic concentration above which remediation will be recommended. This concentration is considered protective of human health and the environment. The Scientific Advisory Panel, established to assist the community in understanding the overall approach to technical issues affecting Spring Valley, recommended adoption of this remediation endpoint, saying that "the level should not pose a health hazard to the community and should not threaten the natural ecological systems of northwest Washington, DC." (*Scientific Advisory Panel Report*, May 29, 2002 Meeting).

5.3.0.2 The remediation endpoint of 20 mg/kg is a consensus approach of the Partners. For comparison purposes, the highest background sample collected was 18 mg/kg and the calculated, non-cancer Soil Screening Level (SSL) is 23.5 mg/kg (based on a child resident receptor). 20 mg/kg is a cleanup level for arsenic in soil that has been adopted by many states. Finally, the 20 mg/kg level is conservative in that it does not make use of any bioavailability factors, as discussed in Section 3.9.

5.3.0.3 In limited situations, soil containing up to 43 mg/kg arsenic may be left in the root zones of trees or where access and other construction limitations make soil removal difficult or unsafe. The decision to exercise this option in a given situation will be based on discussion and concurrence between the property owner, the USEPA, DCDOH, and USACE representatives. 43 mg/kg is the USEPA emergency removal concentration for arsenic in soil. This is a risk-based value for a residential surface soil scenario corresponding to a cancer risk of 1 in 10,000.

5.3.0.4 Prior to acceptance of the 20 mg/kg concentration, some of the earlier removals, such as the CDC (section 2.4.4) used a remediation endpoint of 26 mg/kg arsenic. This was the 99.8th percentile of the background arsenic data set, or approximately twice the screening level of 12.6 mg/kg.

5.3.0.5 Figure 4-1 indicates other comparison criteria for arsenic. These are intended simply to organize the presentation of the data. The 150 mg/kg level was a value agreed upon by the Partners to help plan and prioritize the TCRAs (see Section 2.4.4).

5.4 SPECIALTY PARAMETERS

5.4.0.1 A summary of the soil screening levels, comparison criteria, and remediation endpoints developed for the analytical parameters for the project, including arsenic, is presented in Table 5.1.

5.4.0.2 For the most part, RBCs were used as the comparison criteria for the specialty parameters. Typical risk assessment practice is to adjust the RBC downward by a factor of ten, based on non-carcinogenic effects, to account for the potential cumulative toxicological effects of several compounds being present in a sample. For those compounds without published RBCs, these were either specifically derived for the parameter or another standard was used. The RBCs for Lewisite ABPs (CVAA/CVAO), 1,4-Oxathiane, and thiodiglycol, were derived for the 1995 RI (USACE, 1995). The mustard comparison standard was based on the US Army Center for Health Promotion and Preventive Medicine (USACHPPM) residential Health-Based Environmental Screening Level (HBESL). Table 5.1 indicates which compounds had adjusted RBCs and which compounds had derived RBCs.

5.5 GROUNDWATER

5.5.0.1 A groundwater investigation is currently underway. Fieldwork is expected to be initiated in the Spring of 2004. The potential risk from arsenic in soil leaching to groundwater was evaluated through the SPLP study described in Section 3.10. This SPLP study suggests that arsenic leaching to groundwater does not appear to be a significant pathway assuming the removal actions for soil greater than the remediation endpoint of 20 mg/kg. The possibility that arsenic may have already leached to groundwater from soil, prior to removal actions, will be addressed in the current groundwater investigation.

6. IDENTIFICATION OF REMOVAL ACTION OBJECTIVES

6.1 REMOVAL ACTION OBJECTIVES

6.1.0.1 The objectives established for this removal action guide the development of the alternatives and provide focus to the comparison of acceptable removal action alternatives. These objectives also assist in clarifying the goal of reducing the hazard posed by elevated arsenic concentrations in the surface soils and achieving an acceptable level of protection to the public and environment. These objectives include:

- Prevent exposure to elevated levels of arsenic in surface and subsurface soils; and
- Prevent future migration of arsenic contamination.

6.2 REMOVAL ACTION GOAL

6.2.0.1 In order to achieve the objectives of this removal action, a removal goal was established. As discussed in Section 5, the remediation goal or endpoint established for arsenic for the Spring Valley FUDS is 20 mg/kg (with the exception of some of the earlier removal efforts and the limited situations where 43 mg/kg is applicable, as described in section 5.3). The goal of this removal action is to reduce the hazard to human health and the environment posed by arsenic concentrations greater than 20 mg/kg in surface and subsurface soils at the Spring Valley FUDS. Based on the results of the site investigation, addressing soil with arsenic concentrations greater than 20 mg/kg is expected to remove the potential for downward migration of leachable arsenic to the groundwater. However, it is anticipated that the current groundwater investigation will provide specific data regarding the downward migration of arsenic to the groundwater.

6.3 EXTENT OF REMOVAL ACTION

6.3.0.1 As described in Section 4, a grid system consisting of 20-foot by 20-foot grid squares (or 10-foot by 10-foot in some cases) was established during the site investigation. All grids containing a sample greater than 20 mg/kg of arsenic were identified for removal action. These sites are shown in Figure 4-1.

6.4 SCHEDULE

The proposed removal actions (some TCRAs have been completed as described in Section 2.4.4) for the arsenic contamination in soils at the Spring Valley Site are scheduled to begin immediately after the public comment period on this EE/CA has ended. It is expected that the removal work will take several years to complete.

7. IDENTIFICATION & ANALYSIS OF REMOVAL ACTION ALTERNATIVES

7.0.0.1 This section describes the removal action alternatives identified for this project and the individual analysis of each alternative. The criteria used to evaluate the alternatives are defined below.

7.0.0.2 The following analysis also considers that a single remedy for potentially 140 plus sites throughout Spring Valley may not be practical and that private home owners may want less intrusive alternatives. Although other alternatives are not available at this time, the USACE plans to conduct a greenhouse study and feasibility study for phytoremediation in 2004. A determination will be made based on the results of the study as to whether or not phytoremediation can be an effective arsenic removal technology in Spring Valley.

7.1 IDENTIFICATION OF REMOVAL ALTERNATIVES

7.1.0.1 The USACE has identified six removal alternatives. These include:

- Alternative 1: No Action;
- Alternative 2: Institutional Controls and Engineering Controls;
- Alternative 3: Phytoremediation;
- Alternative 4: Soil Stabilization;
- Alternative 5: Soil Washing; and
- Alternative 6: Excavation and Landfill Disposal.

The following sections provide a brief description of each identified alternative.

7.1.1 Alternative 1: No Action

7.1.1.1 The no action alternative would involve leaving the properties in their current state. The no action alternative provides a comparative baseline against which other alternatives can be evaluated. Under this alternative, no removal action will be taken, and any identified contaminants are left "as is," without the implementation of any containment, removal, treatment, or other protective actions. This alternative does not provide for the monitoring of soil, and does not provide for any active or passive institutional controls to reduce the potential for exposure (e.g., physical barriers, deed restrictions).

7.1.1.2 No potential action-specific ARARs are identified for this alternative.

7.1.2 Alternative 2: Institutional Controls and Engineering Controls

7.1.2.1 The institutional controls alternative would include limiting access to areas with elevated arsenic concentrations in the surface soil and developing deed restrictions. The areas identified are located in the yards of residential properties. Limiting access to these areas could be achieved in a variety of ways, depending on the specific location and orientation of contaminated grids within a particular property and the desires of the individual property owner. Options could include fencing the area; covering the area with concrete or brick for use as a patio or sitting area, for example; or planting the area with groundcover plants that do not require routine maintenance. These options would all prevent physical contact with the contaminated soil and would reduce or eliminate runoff from the contaminated surface soil and thus reduce the spread of the contamination. This alternative would also include the development of deed restrictions to legally bind the current and future property owner to appropriate access and use restrictions. The deed restrictions would include prohibition of gardening and routine landscaping activities in these areas. Finally, an institutional control plan would be developed in cooperation with the property owners and local agencies and would include a delineation of enforcement and maintenance responsibilities.

7.1.2.2 No potential action-specific ARARs are identified for this alternative.

7.1.3 Alternative 3: Phytoremediation

7.1.3.1 Phytoremediation is an innovative remedial technology in which plants are used to remove contaminants from the environment. In the case of arsenic contaminated soils, this method can also be described as phytoaccumulation/phytoextraction and refers to the uptake and translocation of metal contaminants in the soil by plant roots into the aboveground portions of the plants. Certain plants called hyperaccumulators absorb unusually large amounts of metals in comparison to other plants. One or a combination of these plants is selected and planted at a site based on the type of metals present and other site conditions. As discussed in paragraph 7.0.0.2, the USACE is currently undertaking a greenhouse feasibility study of this technology.

7.1.3.2 Individual treatability studies would need to be conducted to determine the appropriateness of this alternative to site-specific conditions. If the treatability study determines that this technique is appropriate for a site, the selected plants would be installed in the contaminated areas. Based on the removal rates and capacities determined during the treatability study, the plants are harvested periodically and disposed appropriately. The harvested plants would be replaced with new plants, as necessary, in order to achieve the remediation endpoint.

7.1.3.3 The treatment program would be monitored and maintained on a regular basis and would likely require some type of institutional controls (i.e., temporary access controls such as fencing) to address exposure to contamination in the interim between installing the plants and achieving the remediation endpoints. The duration of operation and maintenance for this technology is very site-specific and can vary depending on cleanup goals, contaminant

concentrations, growth rate of the plantings, depth of contamination, and climate (e.g., temperature, precipitation, etc.).

7.1.3.4 No potential action-specific ARARs are identified for this alternative.

7.1.4 Alternative 4: Soil Stabilization

7.1.4.1 Soil stabilization is a remediation technique in which contaminated soil is treated with a binding/stabilizing agent such as iron to minimize the rate of contaminant migration and to reduce the toxicity of the soil. Stabilization may be achieved through *in situ* (in place) or *ex situ* (out of place) treatment approaches. A treatability study would be conducted to determine the appropriateness of this alternative to site-specific conditions. If the treatability study determines that this technique is appropriate for a site, specific design parameters would be determined. Soil in those areas identified as requiring removal would be treated on site, either in situ or excavated and transported to an on-site treatment facility, and then replaced in the excavation. Soil would initially be excavated to a depth of two feet below ground surface. Soil samples would be collected from the bottom of these excavations and analyzed for confirmation purposes. All excavated soil would be treated and returned to the excavation. Clean fill from an off-site source would be used on top of the replaced soil as necessary to fill the excavation to grade. However, the most likely scenario is that the soil volume will increase during the stabilization process such that it would not fit into the original excavation.

7.1.4.2 The regulatory provisions governing erosion and sediment control, storm water management, fugitive dust emissions, noise control, hazardous waste accumulation, and land disposal are identified in section 7.3.2.5 as potential action-specific ARARs for this proposed removal action.

7.1.5 Alternative 5: Soil Washing

7.1.5.1 Soil washing is a remediation technique in which contaminants are separated from the soil particles to which they are sorbed. This is achieved through washing of the soil with a leaching agent, surfactant, or chelating agent or through pH adjustments. For the removal of heavy metals such as arsenic, chelating agents are most commonly used. A treatability study would be conducted to determine the appropriateness of this alternative to site-specific conditions. If the treatability study concludes that this technology is appropriate to this site, an on-site treatment facility would be designed and constructed. Excavation of contaminated soil would proceed as described in the previous section. A portion of the treated soil could be used as backfill although it would be necessary to supplement this soil with clean backfill from off site. This is due to the fact that some of the soil volume would be included in the contaminated sludge generated during the process. This sludge would be disposed at an appropriate off-site facility.

7.1.5.2 The regulatory provisions governing erosion and sediment control, storm water management, fugitive dust emissions, noise control, hazardous waste accumulation, hazardous

waste storage tank management, and land disposal are identified in section 7.3.2.5 as potential action-specific ARARs for this proposed removal action.

7.1.6 Alternative 6: Excavation and Landfill Disposal

7.1.6.1 The excavation and landfill disposal alternative would involve excavating soils in areas identified as requiring removal. Excavation of contaminated soil would proceed as described in Section 7.6.6. Excavated soil would be characterized and transported to an appropriate off-site disposal facility. The excavated soil would be characterized in accordance with the requirements of the disposal facility. If the soil is characterized as RCRA hazardous, it would be transported to a RCRA subtitle C landfill where it would be pretreated and disposed. If the soil is characterized as RCRA non-hazardous, it would be transported to a sanitary landfill for disposal.

7.1.6.2 The regulatory provisions governing erosion and sediment control, storm water management, fugitive dust emissions, noise control, and hazardous waste accumulation are identified in section 7.3.2.5 as potential action-specific ARARs for this proposed removal action.

7.2 INTRODUCTION TO EVALUATION CRITERIA

7.2.0.1 The USEPA provides specific criteria by which to judge removal actions in EE/CAs in their document *Guidance on Conducting Non-Time Critical Removal Actions Under CERCLA* EPA/540-R-93-057 (USEPA, 1993). The three general categories are effectiveness, implementability, and cost.

7.2.0.2 The effectiveness of an alternative refers to its ability to meet the cleanup objective within the scope of the removal action. This criterion also evaluates whether the alternative can be conducted in a manner that is safe to the public, the workers, and the environment. The effectiveness category is divided into four evaluation criteria that roll up into one overall criterion, Overall Protection of Human Health and the Environment. The four subcriteria are: Compliance with Applicable or Relevant and Appropriate Requirements (ARARs); Long-Term Effectiveness; Reduction of Toxicity, Mobility, or Volume through Treatment; and Short-Term Effectiveness.

7.2.0.3 The implementability category includes the technical and administrative feasibility of implementing an alternative; the availability of various services and materials required during its implementation; and the acceptance that local residents and agencies have expressed towards the various alternatives. Site conditions, characteristics of each technology, availability and reliability, the regulatory climate, and community concerns are considered under this criterion. The implementability category is divided into five evaluation criteria including: Technical Feasibility; Administrative Feasibility; Availability of Services and Materials; State (Support Agency) Acceptance; and Community Acceptance.

7.2.0.4 Finally, each alternative is evaluated to determine its projected overall implementation cost. Included in the cost calculation is an estimate of time necessary to complete the proposed alternative. Each of the evaluation criteria introduced above is discussed in greater detail in the following paragraphs.

7.3 EVALUATION CRITERIA: EFFECTIVENESS

7.3.1 Overall Protection of Public Health and Environment

7.3.1.1 This criterion evaluates each alternative on how well it can achieve and maintain protection of public health and the environment. This criterion draws on assessments of the four subcriteria described below.

7.3.2 Compliance with Applicable or Relevant and Appropriate Requirements

7.3.2.1 Section 121(d)(1) of CERCLA, 42 U.S.C. § 9621(d)(1), requires that on-site removal actions attain federal standards, requirements, criteria, limitations or more stringent state standards determined to be legally applicable or relevant and appropriate to the circumstances at a given site. For removal actions, compliance with ARARs is required to the extent possible based on the urgency of the situation and the scope of the action contemplated. 40 C.F.R. § 300.415(j).

7.3.2.2 Applicable requirements are those cleanup standards, controls, and other substantive environmental protection requirements promulgated under federal or state law that specifically address a hazardous substance, pollutant, contaminant, removal action, location, or other circumstance found at a CERCLA site. 40 C.F.R. § 300.400(g)(1). Relevant requirements are those that are not applicable to a specific release or removal action, but are sufficiently similar to the circumstances of the release or removal action and therefore relevant and appropriate. 40 C.F.R. § 300.400(g)(2). Only state standards that are more stringent than the federal requirements may be considered ARARs. Generally, ARARs fit into three categories: chemical-specific, location-specific, and action-specific ARARs. The following are potential ARARs that may apply.

7.3.2.3 **Chemical-Specific ARARS**. Chemical-specific ARARs set health or risk-based concentration limits in various environmental media for specific hazardous substances, pollutants, or contaminants. These ARARs establish either protective cleanup levels for the chemical of concern in the designated media or indicate the appropriate level of concern.

- **ARSENIC:** Arsenic has been identified as a substance found at the site for which consideration of any potential chemical-specific ARARs is warranted. As discussed in Section 5, analysis of soil samples collected at the site detected the presence of arsenic in concentrations exceeding the screening levels. The medium of concern is soil.

7.3.2.3.1 **Soil** – There are no current chemical-specific ARARs for arsenic in soil. No directly applicable requirements that address the level of arsenic in soil were identified. Treatment levels under the land disposal restriction (LDR) regulations, see 40 C.F.R. §§ 268.34(a) and 268.48, were considered as potentially relevant and appropriate and rejected in accordance with 40 C.F.R. § 300.400(g)(2). Specifically, while the LDR treatment level in question may be relevant in the instant case because it applies to arsenic in soil, the requirement is inappropriate. LDRs are triggered by "placement" of restricted RCRA hazardous wastes in land-based units. Placement occurs when wastes are land disposed in on-site or off-site land-based RCRA units, such as landfills or surface impoundments. Placement does not occur if wastes are left in place. See memorandum from Jonathan Z. Cannon, Acting Assistant Administrator Office of Solid Waste and Emergency Response, *Policy for Superfund Compliance With the RCRA Land Disposal Restrictions* OSWER Directive 9347.1-0 (Nov. 8, 1986). Similarly, the District of Columbia's Hazardous Waste Management regulations (DC Code Sections 8-1301 et seq.), which apply to disposal sites, were found not to be ARARs for a cleanup level for arsenic in soil.

7.3.2.4 **Location-Specific ARARs**. Location specific ARARs prevent damage to unique or sensitive areas, such as floodplains, wetlands, and fragile ecosystems. They also restrict activities that may be harmful as a result of the characteristics of the site or the immediate environment. These requirements function like and may overlap the potential action-specific ARARs discussed below.

- Based on the identified grids with arsenic exceedances, removal activities are not expected to impact floodplains, wetlands, or sensitive ecosystems. As a result, no location-specific ARARs are identified for the Spring Valley site.

7.3.2.5 **Action-Specific ARARs**. Action-specific ARARs set controls or restrictions on specific removal activities at a site. They specify performance levels, actions or technologies, as well as specific levels for discharges or residual chemicals. Potential action-specific ARARs are addressed below.

7.3.2.5.1 **Erosion and Sediment Control** – The following regulatory provisions qualify as potential action-specific ARARs for this purpose:

Removal actions are required to comply with the underlying substantive requirements of 21 D.C.M.R. § 502.1. As such, removal activities must address and comply with erosion and sediment control requirements during and after completion of all land disturbing activities where applicable.

The District of Columbia Department of Consumer and Regulatory Affairs 1987 Standards and Specifications for Soil Erosion and Sediment Control are incorporated into the D.C.M.R. by reference at 21 D.C.M.R. § 501.4. Compliance with erosion and sediment regulations will ensure compliance with surface water quality consistent with District of Columbia antidegradation policy. Additional erosion and sediment control requirements include 21 D.C.M.R. § 539, which prescribes principles for designing erosion and sediment control

measures, including the maximum allowable period of exposure and the maximum area that can be exposed.

7.3.2.5.2 **Storm Water Management** – The following regulatory provisions qualify as potential action-specific ARARs for this purpose:

21 D.C.M.R. § 526.1 requires appropriate storm water management measures to control or manage run-off during any earth moving or land change activity, unless the activity is exempt. Exempt activities include construction or grading operations that disturb less than 5,000 square feet of land. Based on an average of seven grids requiring removal per site, less than 5,000 square feet of land will be disturbed per site. However, some sites will exceed that limit. Additional storm water management requirements include:

- 21 D.C.M.R. § 528 – Provides for a waiver or variance from the storm water management requirements if the applicant can demonstrate that storm water runoff from the property in question will not adversely impact receiving wetlands, water courses, or waterways.
- 21 D.C.M.R. § 529 – Prescribes the minimum storm water management requirement that must be met before any land may be developed in the District.
- 21 D.C.M.R. § 530 – Identifies minimum storm water management measures that, singly or in combination, must be implemented by developments constructed in the District.

The requirements of 21 D.C.M.R. § 529 and 21 D.C.M.R. § 530 are not applicable but are relevant and appropriate because storm water management must be considered when disturbing more than 5,000 square feet of land.

7.3.2.5.3 **Fugitive Dust Emissions** – 21 D.C.M.R. § 605 qualifies as a potential action-specific ARAR for this purpose. It requires the taking of reasonable precautions to minimize the emission of fugitive dust into the outdoor atmosphere. Regulated activities include unpaved roads and parking lots, vehicles transporting dusty material or with wheels that accumulate dirt, the loading and unloading of dusty materials, and the stockpiling of dusty material.

7.3.2.5.4 **Noise Control**–20 D.C.M.R. § 2802.2 qualifies as a potential action-specific ARAR for this purpose. It prescribes a maximum noise level of 60 decibels for construction activities conducted in residential areas between the hours of 7:00 a.m. and 7:00 p.m. Construction noise levels are measured 25 feet from the outermost limit of the site. 20 D.C.M.R. § 2802.3.

7.3.2.5.5 **Hazardous Waste Determination**-40 C.F.R. § 261 determination of whether the arsenic-laden soil is a hazardous waste subject to the hazardous waste storage, transportation, manifest, land disposal restrictions, and other hazardous waste requirements in 40 C.F.R. parts 260 - 268 and the comparable DC Hazardous Waste Management Act and Munitions Regulation.

7.3.2.5.6 **Accumulation of Hazardous Waste**–40 C.F.R. § 262.34 qualifies as a potential action-specific ARAR for this purpose. It prescribes standards for the temporary accumulation of hazardous waste on site, including labeling, container, and storage requirements.

7.3.2.5.7 **Hazardous Waste Storage Tank Management**—40 C.F.R. part 264, subpart J qualifies as a potential action-specific ARAR for this purpose. It prescribes requirements for managing tank systems that are used to treat hazardous wastes.

7.3.2.5.8 **Land Disposal**–40 C.F.R. § 268.40 qualifies as a potential action-specific ARAR for any potential on-site land placement of hazardous soil. It prohibits the land disposal of arsenic waste unless the waste has been treated to concentrations at or below 1.4 mg/L in wastewater or 5.0 mg/L TCLP in non-wastewater.

7.3.3 Long-Term Effectiveness

7.3.3.1 This criterion measures how an alternative maintains the protection of human health and the environment after the removal objective has been met. The analysis focuses on:

- The permanence of the removal action alternative;
- The magnitude of residual risk following completion of the removal action; and
- The need for and the adequacy and reliability of any post removal site controls (PRSCs) (e.g., access limitations, deed restrictions, long-term monitoring etc.) used to manage the treated residuals or untreated wastes that remain at the site following the removal action.

7.3.4 Reduction of Toxicity, Mobility or Volume through Treatment

7.3.4.1 Based on the USEPA's preference that a chosen removal alternative will reduce toxicity, mobility, or volume through treatment, an alternative must be evaluated based upon the following (USEPA 1993):

- The treatment processes(es) employed and the material(s) it will treat;
- The amount of hazardous materials to be destroyed or treated;
- The degree of reduction expected in toxicity, mobility, or volume;
- The degree to which the treatment will be irreversible;
- The type and quantity of residuals that will remain after treatment; and
- Whether the alternative meets the USEPA's preference for treatment.

7.3.5 Short-Term Effectiveness

7.3.5.1 This criterion addresses the effects of an alternative during the implementation phase, prior to the removal objectives being met. More specifically, each alternative will be examined for:

- Protection of the community and workers during the removal action;
- Adverse environmental impacts resulting from construction and implementation; and
- The time required to meet the removal objectives.
- This criterion accounts for factors such as air quality, fugitive dust, transportation of hazardous materials, potential threats to worker and the reliability of mitigation measures, and potential environmental impacts including spills and releases.

7.4 EVALUATION CRITERIA: IMPLEMENTABILITY

7.4.1 Technical Feasibility

7.4.1.1 This criterion evaluates the ease of implementing a specific alternative. This criteria evaluates:

- The reliability of the technology and operational difficulties;
- The ability to perform the alternative in the allotted time;
- The need and ease of conducting future removal actions following the initial undertaking; and
- The environmental conditions with respect to set-up, construction and operation of the alternative.

7.4.2 Administrative Feasibility

7.4.2.1 This criterion focuses on the planning stages for each alternative and includes consideration of:

- Adherence to non-environmental laws (e.g., Siting of a treatment plant in a residential neighborhood);
- Coordinating services needed to carry out an alternative;
- Arranging the delivery of services in a timely manner; and
- Addressing the concerns of other regulatory agencies.

7.4.3 Availability of Services and Materials

7.4.3.1 This criterion evaluates the following sub-criteria:

- Availability of the technology and the personnel needed to perform the operation based on schedule;
- Availability of off-site treatment, storage and disposal for materials; and
- Need for and availability of supporting services (e.g., Power lines, laboratory services etc.).

7.4.4 State (Support Agency) and Community Acceptance

7.4.4.1 This criterion evaluates technical and administrative concerns of the supporting agency. Community acceptance of the alternative(s) is also evaluated. These concerns may include the time it takes to initiate the alternative and the time it takes to reach the endpoint.

7.5 EVALUATION CRITERIA: COST

7.5.0.1 This criterion determines and evaluates projected costs. These costs include direct capital costs (i.e., costs to perform the alternative), indirect capital costs (e.g., design expenses, legal fees, and permit fees), and post removal site control costs (e.g., monitoring, operation and maintenance costs).

7.6 EVALUATION OF ALTERNATIVES

7.6.0.1 This section details the analysis of each individual alternative with respect to the evaluation criteria described previously. Where known, indications of regulator, property owner, and community reaction, based on comments at past meetings, is provided for informational purposes only. Input received from stakeholders during the public comment period for this EE/CA report will be incorporated into the Final EE/CA and may affect the alternatives evaluation.

7.6.1 Alternative 1: No Action

Effectiveness: The No Action alternative would not provide for overall protection of human health and the environment. Section 4 identifies areas where arsenic concentrations in surface soil exceeded removal action goals. Arsenic concentrations in the surface soils would not be expected to decrease over time with no treatment. Therefore, this alternative would not be effective in achieving the removal goals and objectives of this EE/CA in the short-term or long-term, nor does it reduce toxicity, mobility or volume.

Implementability: The no action alternative, though implementable, will be technically ineffective and administratively impossible. Also, based on past comments, DCDOH, USEPA,

and the community are unlikely to accept this alternative as it fails to achieve the removal goals and objectives. No services or materials would be required to implement this alternative.

Cost: There are no costs associated with the no action alternative.

Outcome: The no action alternative will not be further evaluated because it fails the effectiveness and implementability criteria.

7.6.2 Alternative 2: Institutional Controls and Engineering Controls

Effectiveness: In order to be protective of human health and the environment, the institutional controls alternative would have to prevent contact with the surface soil. This alternative does not achieve any reduction in toxicity, mobility, or volume through treatment; however, limiting access to the contaminated soil would limit potential exposure and, depending on the specific type of access control implemented, mobility may also be reduced through the reduction of infiltration and/or surface runoff from the soil during precipitation events. Although this alternative may be effective in the short term with the cooperation and understanding of current owners/residents and the proper protection of workers involved in the implementation, the long-term effectiveness of institutional controls such as access restrictions and limitations is difficult to ensure, particularly since these are private residences. Even if a current owner agrees to abide by the institutional controls, a future owner may not agree and could demand an alternate removal action.

Implementability: It is technically feasible to design and install physical barriers such as fences, concrete or brick patios, or groundcover plantings to limit access to the surface soils as well as to develop deed restrictions. The materials and services required to implement this alternative are available. The administrative feasibility of institutional controls is less certain as it would require the cooperation of many parties, including the property owners/residents, and numerous local agencies. An institutional control plan describing the controls as well as delineating responsibility for enforcement and maintenance of the controls must also be developed and agreed to by all parties. DCDOH, USEPA, property owner, and community acceptance has not been established.

Cost: The cost for this alternative ranges from approximately $20 per ton of contaminated soil removed for a concrete patio; approximately $90 per ton of contaminated soil removed for a brick patio; or approximately $29 per ton for ground cover plants. These costs are based on approximately 45 tons of soil removed per 20-foot by 20-foot by 2-foot grid. Decorative fencing (6 feet tall with no gates) would cost approximately $4800 per grid (i.e., $107 per ton of contaminated soil). These costs do not include maintenance (e.g., irrigation for ground cover plants), the development of deed restrictions, or costs otherwise associated with institutional control implementation.

Outcome: This alternative provides limited effectiveness and could be difficult to implement. However, even though this alternative leaves contaminated soil in place, individual residents may prefer this alternative to other removal alternatives that would require potentially extensive land disturbing activities on their property. Therefore, this alternative will be further evaluated.

7.6.3 Alternative 3: Phytoremediation

Effectiveness: A treatability study would be required to determine the potential effectiveness of this alternative at a particular site. If the treatability study indicates that phytoremediation is appropriate to site-specific conditions, this alternative would be protective of human health and the environment in the long-term, once the endpoints are achieved. However, the substantial time it would likely take to reach the remediation endpoints makes it ineffective in the short-term. During the potentially long interim period, the alternative would require regular monitoring, maintenance and access limitations. Phytoremediation would reduce mobility and toxicity in the soils, eliminating the residual risk, however, the toxic constituents would be transferred to the plants which would require periodic harvesting, disposal and replacement. Appropriate health and safety precautions would be required during construction and maintenance of this alternative in order to protect workers and the community during implementation.

Implementability: This alternative would require a treatability study to determine its technical feasibility. The technology in general is still largely in the developmental stages. Administratively, this alternative would require long-term plans for maintenance and monitoring. Enforcement would also be required during the interim between installing the plants and reaching the endpoints to ensure that the plants are being maintained and to ensure compliance with access controls established to protect human health in the interim. Availability of materials will depend on the specific materials identified during the treatability study. Restrictions in place during the phytoremediation effort would limit the resident's ability to utilize a portion of the property. DCDOH, USEPA, property owner, and community acceptance has not been established.

Cost: Based on a review of the literature, this alternative would cost between $15 and $31 per ton of soil. These costs include planting of the selected species, harvesting and disposal. The cost will vary based on various factors including the type of plant(s) required, climate factors (e.g., amount of irrigation needed), nutrient requirements, the number of harvesting and replanting cycles required, and disposal requirements. This alternative may also involve an additional cost of approximately $20 per ton for fencing (three foot high wooden picket fence with gate) which may be necessary to restrict access to the area during treatment. The estimated cost for the treatability study required to determine the technical feasibility and design parameters is $127 per ton. This is based on the current costs for the field portion of the phytoremediation demonstration test and an assumed economy of scale for many individual sites.

Outcome: The technical feasibility of this alternative for the site-specific conditions is unknown. Therefore, implementation of this alternative would be delayed pending completion of the treatability study. However, phytoremediation may be effective and implementable for certain individual properties where the owner may not want the potentially extensive land disturbing activities required for some of the other alternatives. Thus, this alternative will be further evaluated.

7.6.4 Alternative 4: Soil Stabilization

Effectiveness: This alternative would achieve protection of human health and the environment through immobilization of arsenic, thus reducing toxicity and mobility. During implementation of this alternative, proper controls would be required to minimize dust generated during the excavation and mixing process. In designing the stabilization process for the site, one consideration would be residual risks associated with the long-term stability of the treated material (i.e., the potential that the material would degrade under site conditions, thus releasing arsenic to the environment). More specifically, the following issues would require consideration:

- Hazards from the operation of heavy equipment, damage to underground utilities, or other occupational injuries;
- Airborne contaminated dusts and waste materials;
- Weathering of the treated material such that the ability to maintain the immobilization of contaminants is compromised; and
- Confirmatory sampling.

Implementability: This technology is available. However, a treatability study would be required to determine the technical feasibility of this alternative for site-specific conditions. The study would require a determination regarding the variability of site conditions within Spring Valley between the individual residential properties or lots included in this EE/CA (i.e., the scope of the study could require evaluation of multiple site conditions in order to determine the effectiveness of this alternative for an individual site). The soil at the site, which has typically been classified as clayey silt, may cause problems with the stabilization process because in general the higher the clay content the more difficult the procedure becomes. It also may not be possible to construct an on-site treatment plant either at the site because it is located in a residential neighborhood, or at the Federal Property. It would be very labor intensive to construct an on-site treatment plant. Because of the bulking of soil during this process, this alternative could create difficulties for future landscaping and construction activities, or alternatively, could require relocation/disposal of the soil volume that does not fit back into the original excavation. Hauling of soil through the neighborhood would be disruptive and potentially create opportunities for spills. DCDOH, USEPA, property owner, and community acceptance has not been established.

Cost: This alternative would cost approximately $38/ton for *ex-situ* treatment or approximately $35/ton for *in-situ* treatment. This does not include costs for handling any treated soil volume that cannot be replaced in the excavation (i.e., due to soil bulking). These costs also do not include the costs for the treatability study required to determine the technical feasibility and design parameters for this alternative.

Outcome: The technical feasibility of this alternative for the site-specific conditions is unknown. Therefore, implementation of this alternative would be delayed pending completion of the treatability study. This alternative may not be effective in the long-term due to degradation of the stabilized soil replaced on-site. In addition, this alternative may not be administratively implementable due to issues of siting an on-site treatment plant in a residential neighborhood or at the Federal Property. Because of the bulking of soil during this process, this alternative could

create difficulties for future landscaping and construction activities. Therefore, this alternative will not be further evaluated.

7.6.5 Alternative 5: Soil Washing

Effectiveness: This alternative would be protective of human health and the environment. It will remove the arsenic from site soils to levels below the cleanup level, thus reducing the mobility, toxicity, and volume of contaminated soil. The arsenic removed from the soil will be contained in the sludge and wastewater generated during the washing process which would require proper handling and disposal appropriate for the concentrations of arsenic in the waste stream. This alternative would be effective in the long-term as the arsenic concentrations in the soil will be reduced below the cleanup levels and the residual risks will be eliminated. During implementation of this alternative, proper controls would be required to minimize dust generated during the excavation and washing process. Additionally, the materials used in the washing process may pose a risk to human health and the environment during implementation of this alternative. More specifically, the following issues would require consideration:

- Hazards from the operation of heavy equipment, damage to underground utilities, or other occupational injuries;
- Airborne contaminated dusts and waste materials;
- Confirmatory sampling;
- Additional management of waste generated by soil washing process; and,
- Emissions from extracting agents or solvents used in the solvent extraction process or the wastes generated during the extraction/washing process.

Implementability: This alternative would require a treatability study to determine whether it is technically feasible for site-specific conditions. In general, the clayey silt content of the soils at the site will make it more difficult to achieve the desired endpoints using this technology. It is uncertain whether soil washing could take place on-site or at the Federal Property location due to the chemicals needed in the process, the waste generated, and the potential for spills of these materials. Hauling of soil through the neighborhood, if needed for this alternative, would be disruptive and potentially create opportunities for spills. Although this technology exists, it is labor intensive and vendors utilizing this technology are few. Parsons was unable to obtain a removal or cost from any vendors utilizing this technology. This alternative may also complicate landscaping efforts due to soil sterility issues. DCDOH, USEPA, property owner, and community acceptance has not been established.

Cost: This alternative would cost approximately $190 per ton of soil treated [Cost from RS-MEANS document, *Environmental Remediation Cost Data 6th Annual Edition* (RS-MEANS 2000)]. This cost does not include the costs for the treatability study required to determine the technical feasibility and design parameters for this alternative.

Outcome: The technical feasibility of this alternative for the site-specific conditions is unknown. Therefore, implementation of this alternative would be delayed pending completion of the treatability study. Furthermore, it may not be possible to construct a treatment plant on site or at the Federal Property location. The materials and services required to implement this alternative

are not widely available, based on the lack of response from potential vendors contacted by Parsons. Therefore, this alternative will not be further evaluated.

7.6.6 Alternative 6: Excavation and Landfill Disposal

Effectiveness: This alternative would be protective of human health and the environment. It will remove the arsenic from site soils to the 20 mg/kg cleanup level (or in limited situations, up to 43 mg/kg as described in Section 5.3), thus eliminating the arsenic's mobility and reducing the toxicity and volume of contaminated soil at the site. This alternative would be effective in the long-term as the soils with elevated arsenic concentrations will be removed from the site, eliminating residual risk, and it will require only a short period of time until the endpoints are reached. During implementation of this alternative, controls would be required to minimize dust generated during the excavation.

The excavated soils must be disposed, consistent with 40 C.F.R. § 300.440, in a treatment, storage, or disposal facility that EPA determines to be acceptable. If the excavated soils are characterized as RCRA hazardous, they would have to be stabilized by the RCRA Subtitle C hazardous waste landfill and then deposited in the landfill. If they are not considered RCRA hazardous, they can be disposed of directly into a sanitary landfill. It should be noted that past experience at the site has shown that the vast majority of the soil would be characterized as non-hazardous. Sanitary landfills are required to have liners and caps such that the residential human health hazard presented by the soils would be controlled. Even after closure of the sanitary landfill, the soils would be controlled as part of landfill management.

More specifically, the following issues would require consideration:

- Hazards from the operation of heavy equipment, damage to underground utilities, or other occupational injuries;
- Airborne contaminated dusts and waste materials;
- Confirmatory sampling; and
- Storage, labelling, and transportation requirements.

Implementability: This alternative is technically and administratively feasible. The materials and services required to implement this alternative are readily available. DCDOH, USEPA, property owner, and community acceptance has been established through the on-going TCRA and NTCRA efforts described in Section 2.

Cost: This alternative would cost approximately $437 per ton (disposal of material as RCRA non-hazardous at a sanitary landfill), and approximately $546 per ton (disposal of material as RCRA hazardous at a RCRA Subtitle C landfill).

Outcome: This alternative is both effective and implementable. It will be retained for further evaluation.

8. COMPARATIVE ANALYSIS OF REMOVAL ACTION ALTERNATIVES

8.0.0.1 Based on the individual analysis of alternatives presented in Section 7, the remaining alternatives include:

- Institutional Controls
- Phytoremediation
- Excavation and Landfill Disposal

The three other alternatives identified in Section 7 were eliminated during the individual analysis for various reasons including lack of effectiveness and/or implementability. This section presents a comparative analysis of the remaining alternatives to determine their relative performance in relation to each of the criteria. The purpose of this analysis is to identify the advantages and disadvantages of the remaining alternatives relative to one another so that key factors that would affect the remedy selection can be identified. Table 8.1 presents a summary of the comparative analysis.

8.1.1 Effectiveness

The excavation and landfill disposal alternative would be most protective of human health and the environment overall:

- This alternative will be conducted in a manner that complies with the following action-specific ARARs:
  - **Erosion and Sediment Control**—21 D.C.M.R. §§ 501.4, 502.1 and 539 (discussed in paragraph 7.3.2.5.1 above) are applicable ARARs for this removal action.
  - **Storm Water Management**—21 D.C.M.R. §§ 529 and 530 (discussed in paragraph 7.3.2.5.2 above) are relevant and appropriate ARARs for this removal action.
  - **Fugitive Dust Emissions**—21 D.C.M.R. § 605 (discussed in paragraph 7.3.2.5.3 above) is an applicable ARAR for this removal action.
  - **Noise**—20 D.C.M.R. § 2802.2 and 2802.3 (discussed in paragraph 7.3.2.5.4 above) are applicable ARARs for this removal action.
  - **Accumulation of Hazardous Waste**—40 C.F.R. § 262.34 (discussed in paragraph 7.3.2.5.5 above) is a relevant and appropriate ARAR for this removal action.
  - **Hazardous Waste Storage Tank Management**—40 C.F.R. § 264, Subpart J, (discussed in paragraph 7.3.2.5.6 above) is a relevant and appropriate ARAR for this removal action.
  - **Land Disposal**—40 C.F.R. § 268.40 (discussed in paragraph 7.3.2.5.7 above) is a relevant and appropriate ARAR for this removal action.

Table 8.1
Summary of Comparative Alternatives Analysis

Screening Criterion	Institutional Controls	Phytoremediation	Excavation and Landfill Disposal
Effectiveness			
Protection of Human Health and Environment	○	◑	●
Compliance with ARARs	○	◑	●
Long-Term Effectiveness	○	◑	●
Reduction of Toxicity, Mobility, and Volume through Treatment[/1]	○	●	◑
Short-Term Effectiveness	◑	○	●
Implementability			
Technical Feasibility	◑	○	●
Administrative Feasibility	○	◑	●
Availability of Materials and Services	●	○	●
Supporting Agency Acceptance	○	○	●
Community Acceptance	○	○	●
Cost ($/ton)	$127 to $197 [/a]	$162 to $178 [/b]	$437 to $546[/c]
Recommended	○	◑	●

● = Favorable

◑ = Fair

○ = Not Favorable/Potential Problems

/1 Reflects EPA's preference for <u>treatment</u> (i.e., for technologies that will permanently and significantly reduce toxicity, mobility or volume of the hazardous substances as their principal element), *EPA 540-R-93-057, Guidance on Conducting Non-Time-Critical Removal Actions under CERCLA*

/a Includes between $20 per ton for a concrete patio and $90 per ton for a brick patio; plus $107 per ton for decorative 6' fencing. These costs do not include maintenance (e.g., irrigation for ground cover plants), the development of deed restrictions, or the development of the institutional control plan.

/b Includes between $15 and $31 per ton for planting of the selected species, harvesting and disposal, $20 per ton of soil for temporary 3' picket fencing, and $127 per ton for the treatability study required to determine the technical feasibility and design parameters for this alternative. The treatability cost is based on the field portion of the current demonstration test costs and an economy of scale assumption ($40,000 per site).

/c $437 per ton (disposal of material as RCRA non-hazardous at a sanitary landfill, most likely scenario based on past site experience); $546 per ton (disposal of material as RCRA hazardous at a RCRA Subtitle C landfill). For the entire site, 800 grids or 36,000 tons are anticipated for a total of $15.7 million, assuming non-hazardous material.

- The institutional controls alternative and the phytoremediation alternative (depending on the results of the treatability study) are also each expected to attain all pertinent action-specific ARARs for this site.
- The excavation and landfill disposal alternative is also effective in the long-term whereas there may be problems with the institutional controls alternative in the long-term regarding enforcement of compliance with use limitations, particularly if the property is transferred to a new owner.
- Assuming that a treatability study indicates that phytoremediation would be effective for a particular site, the phytoremediation alternative would be more favorable compared to the excavation and landfill disposal alternative in terms of reduction of toxicity, mobility, and volume **through treatment**. However, the excavation and landfill disposal alternative will remove the arsenic contaminated soil from the site for placement into a controlled landfill, thereby reducing the toxicity and mobility of the soil through the controls in place at the landfill and reducing the volume of contaminated soil at the site.
- The excavation and landfill disposal alternative is the most favorable in terms of short-term effectiveness. The appropriate controls for protection of workers, the community and the environment during implementation of the alternative are readily available and easily implemented. This alternative will achieve the removal objectives in a substantially shorter time frame than the phytoremediation alternative or the institutional controls alternative, which is likely to require substantial time to develop an institutional control plan delineating enforcement and maintenance responsibilities.
- Finally, while the excavation and landfill disposal alternative will attain the 20 mg/kg remediation endpoint, the institutional controls alternative will not, and it is not currently known whether phytoremediation can attain this level.

8.1.2 Implementability

The excavation and landfill disposal alternative is the most implementable of the three remaining alternatives:

- In terms of technical feasibility, the excavation and landfill disposal alternative is favorable in comparison to the other remaining alternatives. It is more reliable than the other alternatives and would have fewer operational difficulties; it can be performed in a shorter period of time; and there will not be a need to conduct future removal actions. Most importantly, this alternative has been performed at various areas throughout the Spring Valley site as discussed in Section 2 and associated unknowns or potential problems have been identified and largely resolved.
- In terms of administrative feasibility, the excavation and landfill disposal alternative is favorable in comparison to the other remaining alternatives. The institutional controls alternative could have substantial problems during implementation due to the required coordination amongst various government agencies and the individual property owners to select an access control option appropriate for each site (i.e., concrete vs. brick vs. groundcover). Development of an institutional control plan agreed to and complied with by all parties could also present administrative difficulties for the institutional controls alternative. The phytoremediation alternative

could also have problems in terms of administrative feasibility due to the required maintenance of the plants and compliance with temporary access controls.

- The materials and services for both the institutional controls alternative and the excavation and landfill disposal alternative are readily available. The availability of materials and services could be an issue for the phytoremediation alternative depending on the type of the plants identified during the treatability study and because it is an innovative technology.
- Based on historical removal actions involving the excavation and landfill disposal of arsenic contaminated soil from other portions of the Spring Valley site, it has been assumed that the excavation and landfill disposal option is acceptable to DCDOH, USEPA, the property owner, and the community. Input received from these stakeholders during the public comment period for this EE/CA report will be incorporated into the Final EE/CA and may affect the alternatives evaluation.

8.1.3 Cost

Table 8.1 summarizes the estimated costs for each alternative. Costs were developed using standard cost estimating tools, literature values, estimates from remedial contractors, and costs for similar work previously conducted by the USACE. The excavation and landfill disposal alternative specifically reflects the actual costs from the portions of the work described in Section 2.4 that the USACE performed. The phytoremediation treatability costs were based on actual costs for the field portion of the current demonstration test, plus economy of scale assumptions. As described in Section 7.6.2, Institutional Controls involves some costs that were not included in the summary costs presented in the table.

9. RECOMMENDED REMOVAL ACTION ALTERNATIVE

9.0.0.1 The analysis considered that a single remedy for potentially 140 plus sites throughout Spring Valley may not be practical and that private home owners may want less intrusive alternatives. Although other alternatives are not available at this time, the USACE plans to conduct a greenhouse study and feasibility study for phytoremediation in 2004. A determination will be made based on the results of the study as to whether or not phytoremediation can be an effective arsenic removal technology in Spring Valley.

9.1 RECOMMENDED REMOVAL ACTION ALTERNATIVE

9.1.0.1 Based on the evaluations presented in Sections 7 and 8, the recommended alternative is excavation and landfill disposal. This alternative satisfies the removal action goal of reducing the risk posed by elevated arsenic concentrations in surface soil at the sites. This alternative satisfies the evaluation criteria because it will meet the removal objectives in an acceptable amount of time, pose limited risk during implementation, is readily implementable both from a technical and administrative standpoint, and can be accomplished at a reasonable cost. This alternative was selected after evaluating six alternatives separately under each criterion.

9.1.0.2 Figure 4-1 illustrates the areas requiring removal. Soil will initially be excavated to a depth of two feet below ground surface in these areas. Soil samples will be collected from the bottom and sidewalls of these excavations and analyzed for total arsenic. If the arsenic concentrations in the soil samples exceed 20 mg/kg, additional soil will be excavated in that area. This excavation and sampling procedure will continue until the samples collected do not exceed 20 mg/kg arsenic. Clean fill from an off-site source will be used to fill the excavation to grade. The excavated areas would be re-landscaped to conditions equivalent to the pre-existing condition.

9.1.0.4 Excavated soil would be characterized and transported to an appropriate off-site disposal facility. The excavated soil would be characterized in accordance with the requirements of the disposal facility. If the soil is characterized as hazardous, it will be transported to a RCRA subtitle C landfill where it will be pretreated and disposed. If the soil is characterized as non-hazardous, it will be transported to a sanitary landfill for disposal where it will be disposed of directly, without pretreatment. Past experience at the site has shown that the vast majority of the soil would be characterized as non-hazardous.

9.2 DETAILED COST ESTIMATE

9.2.0.1 A detailed cost estimate was prepared for the recommended alternative and is presented in Appendix B. The alternative was costed for two scenarios: disposal at a hazardous waste facility and disposal at a non-hazardous waste facility. These costs include excavation, transportation, disposal, and support requirements for the recommended alternative. The excavation and landfill disposal alternative specifically reflects the actual costs from the portions of the work described in Section 2.4 that the USACE performed. As noted above, although both costs are included, past experience at the site has shown that the vast majority of the soil would be characterized as non-hazardous.

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APPENDIX A

SITE DETAIL MAPS BY GEOGRAPHICAL GROUPING

1

GEOGRAPHICAL GROUPINGS
(OU-4, CTA & CSA)

OU-4 GROUPING A (DETAIL)
OU-4 GROUPING B (DETAIL)
OU-4 GROUPING C (DETAIL)

CTA GROUPINGS
- CTA GROUPING 1A
- CTA GROUPING 1B–North (DETAIL)
- CTA GROUPING 1B-South (DETAIL)
- CTA GROUPING 1C-North (DETAIL)
- CTA GROUPING 1C-South (DETAIL)
- CTA GROUPING 1D

CSA GROUPING 2
- CSA GROUPING 2A (DETAIL)
- CSA GROUPING 2B (DETAIL)

CSA GROUPING 3
- CSA GROUPING 3A (DETAIL)
- CSA GROUPING 3B (DETAIL)

CSA GROUPING 4

CSA GROUPING 5
- CSA GROUPING 5A (DETAIL)
- CSA GROUPING 5B (DETAIL)

CSA GROUPING 6
- CSA GROUPING 6A (DETAIL)
- CSA GROUPING 6B (DETAIL)

CSA GROUPING 7
- CSA GROUPING 7A (DETAIL)
- CSA GROUPING 7B (DETAIL)

CSA GROUPING 8

CSA GROUPING 9

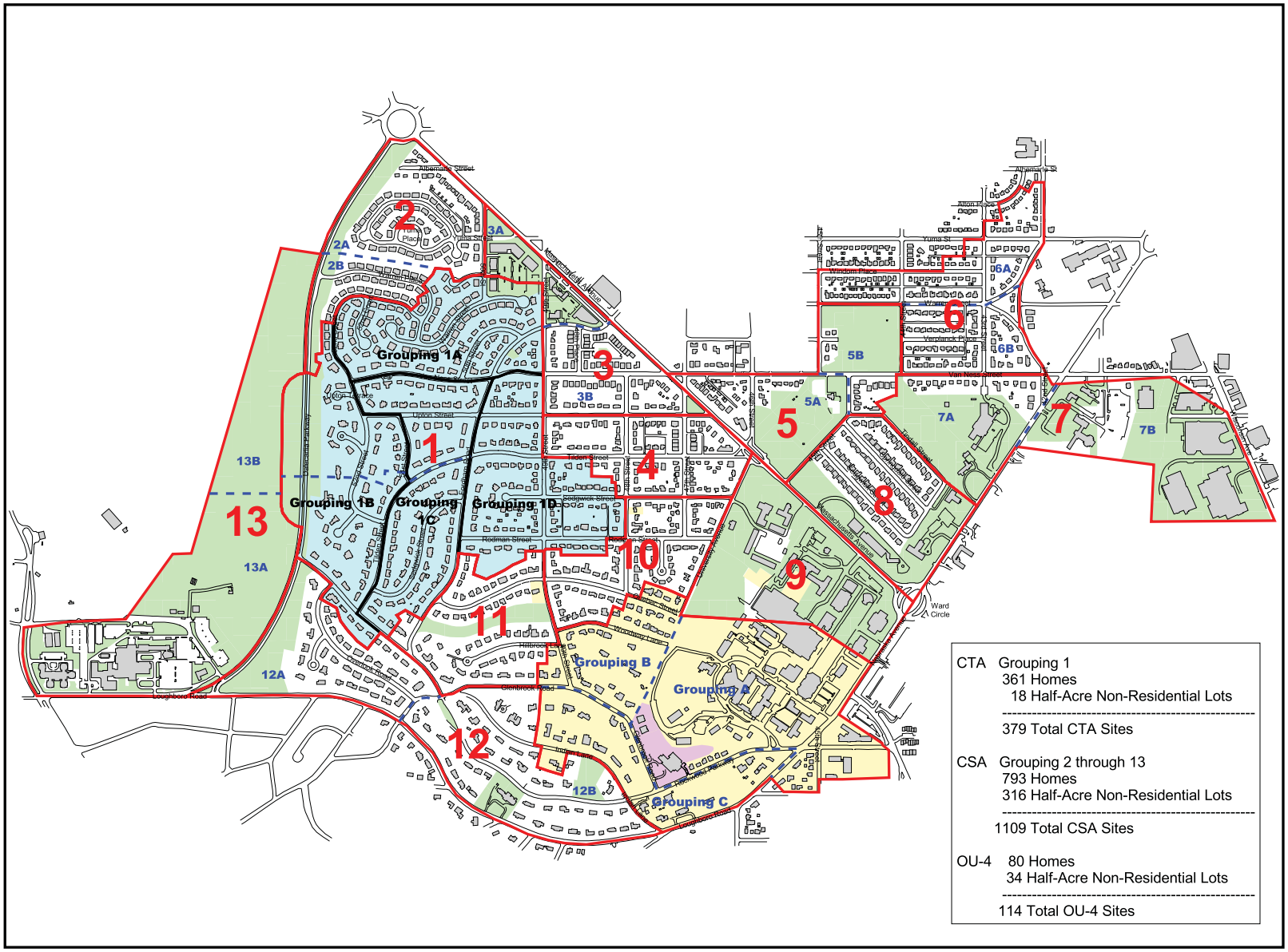
CSA GROUPING 10

CSA GROUPING 11

CSA GROUPING 12
- CSA GROUPING 12A (DETAIL)
- CSA GROUPING 12B (DETAIL)

CSA GROUPING 13
- CSA GROUPING 13A (DETAIL)
- CSA GROUPING 13B (DETAIL)

2



Geographical Groupings

Spring Valley
Operable Units 4 & 5
Washington D.C.

Legend

- Grouping Divisions
- Central Testing Area Divisions
- Groupings
- Buildings
- Roads
- Non-Residential Acreage
- CTA (Group 1)
- OU-3
- OU-4

Note:
OU-5 Acreage comprises groupings 1 through 13.

CSA is groupings 2 through 13.

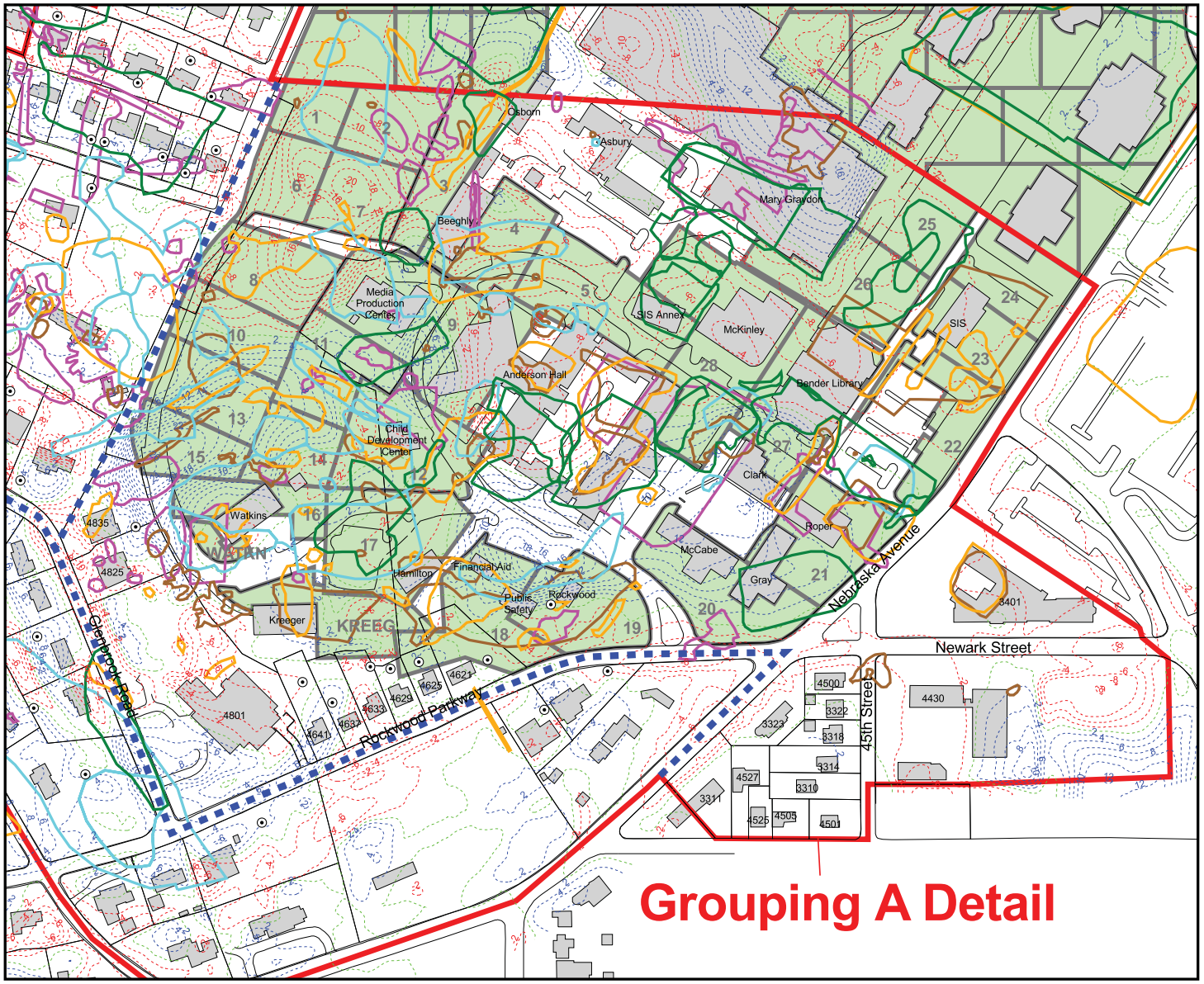
Note:

- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas. Sampling of these lots will be based on open accessible portions determined in the field.

0 1000 Feet

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PARSONS



Operable Unit 4
Grouping A Detail

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring Locations
- Boundary between A, B & C Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

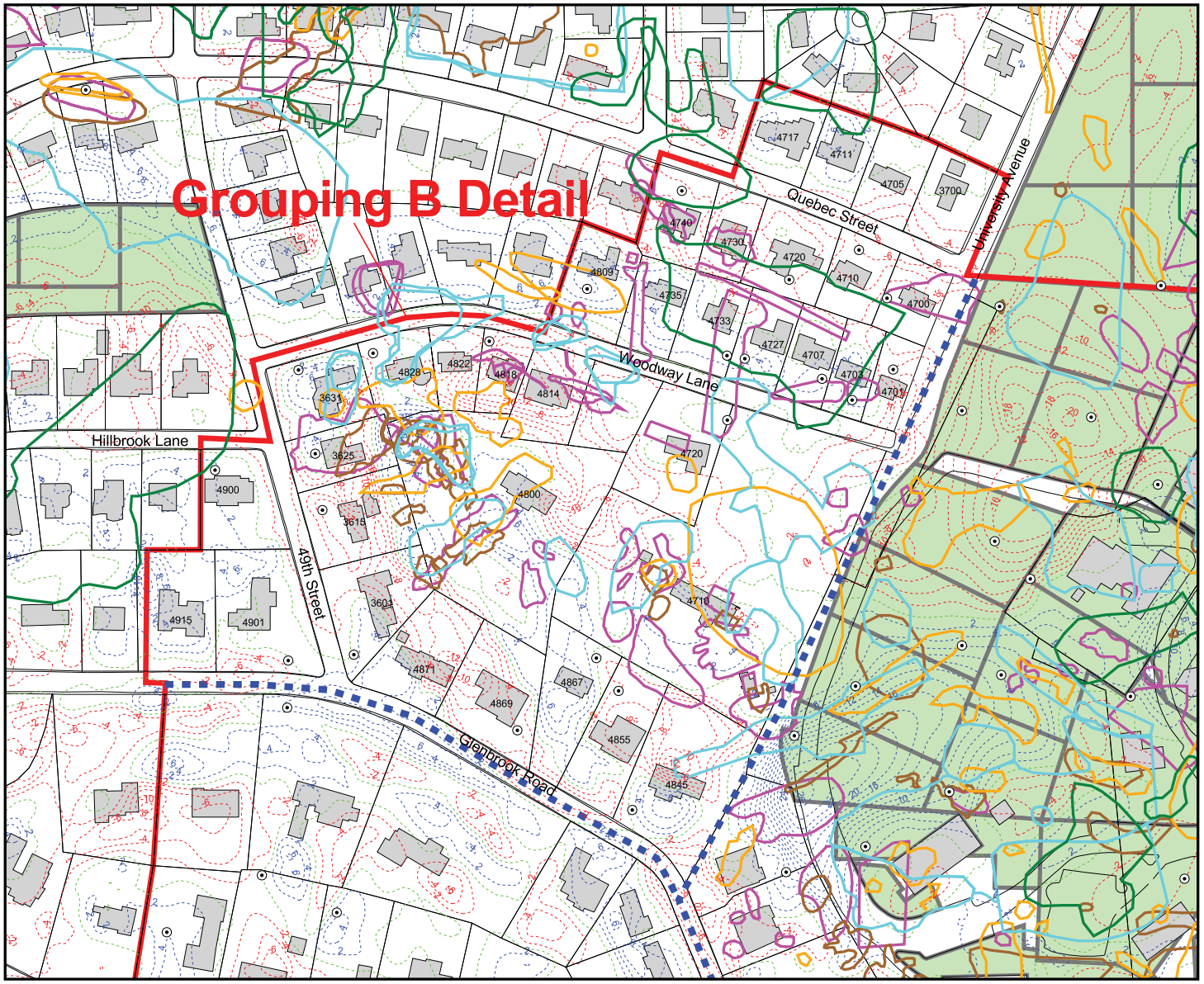
- Parcels
- OU-4
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

200 0 200 Feet

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PARSONS



Operable Unit 4
Grouping B Detail

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring Locations
- Boundary between A, B & C Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

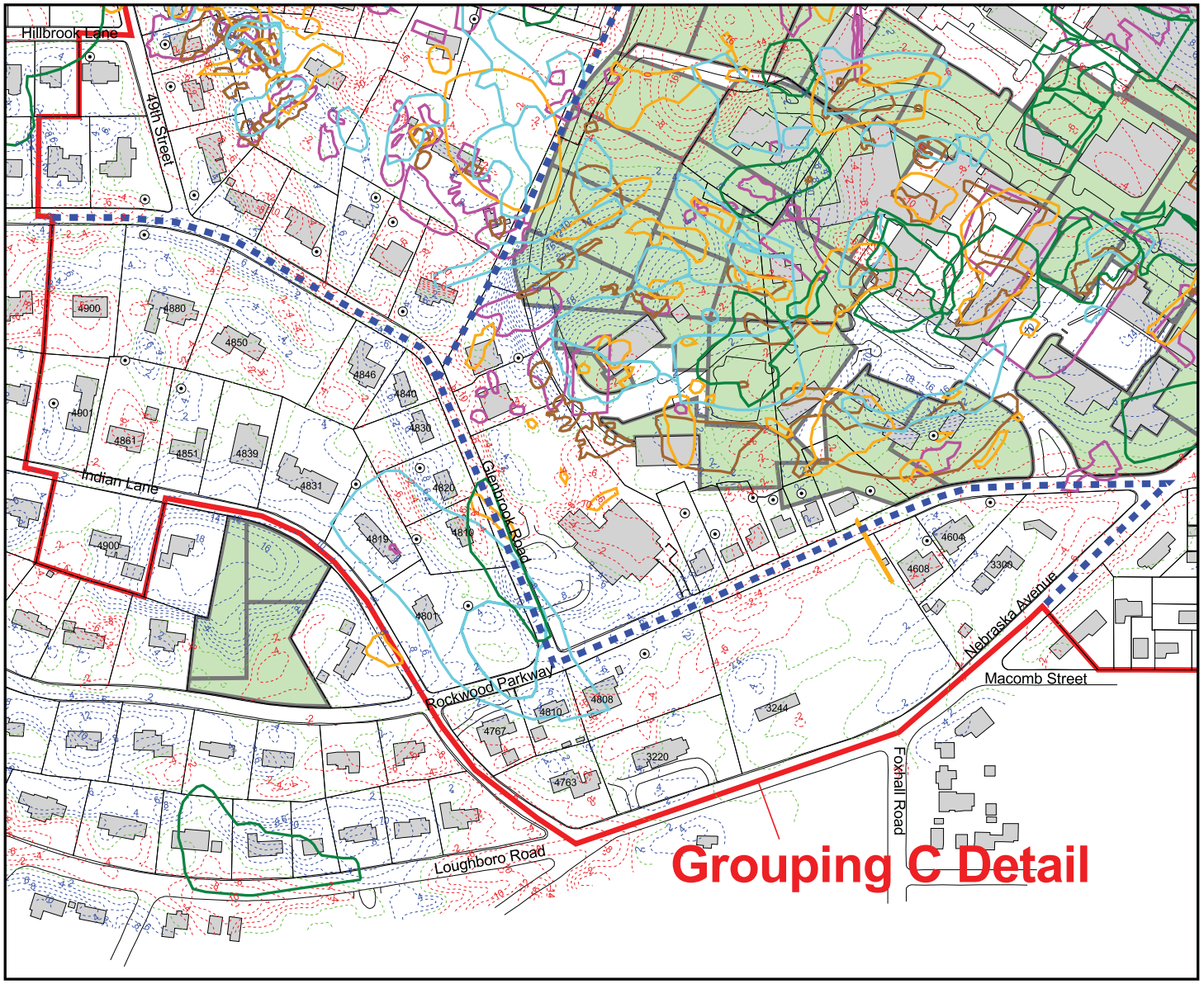
- Parcels
- OU-4
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

150 0 150 Feet

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PARSONS



Operable Unit 4
Grouping C Detail

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring Locations
- Boundary between A, B & C Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

- Parcels
- OU-4
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

200 0 200 Feet

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Page Number:	

PARSONS



CTA Grouping 1A

Spring Valley Operable Unit 5
Washington D.C.

Legend

Boring Location
- Arsenic
- POI-Specific Parameters

Roads
Stressed Vegetation
1928 Ground Scars
1927 Ground Scars
1922 Ground Scars
1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

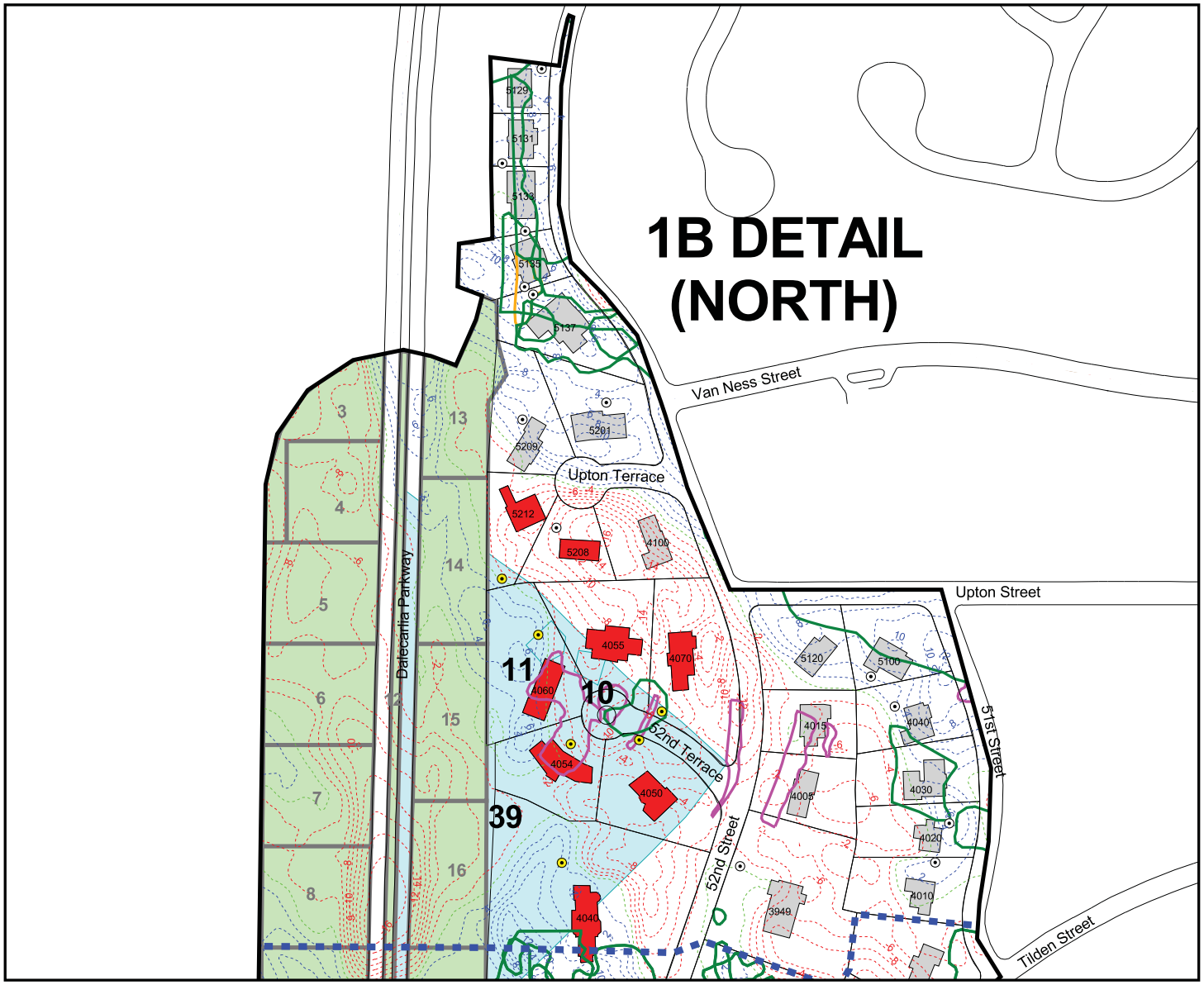
Parcels
Non-Residential Lots
CTA Grouping 1A
Residence Within a POI
Building
POIs

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

0 200 Feet

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Figure Number:	
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PARSONS



CTA
Grouping 1B-North Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

Boring Locations
- Arsenic
- POI-Specific Parameters

Boundary between North & South Detail
Roads
Stressed Vegetation
1928 Ground Scars
1927 Ground Scars
1922 Ground Scars
1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

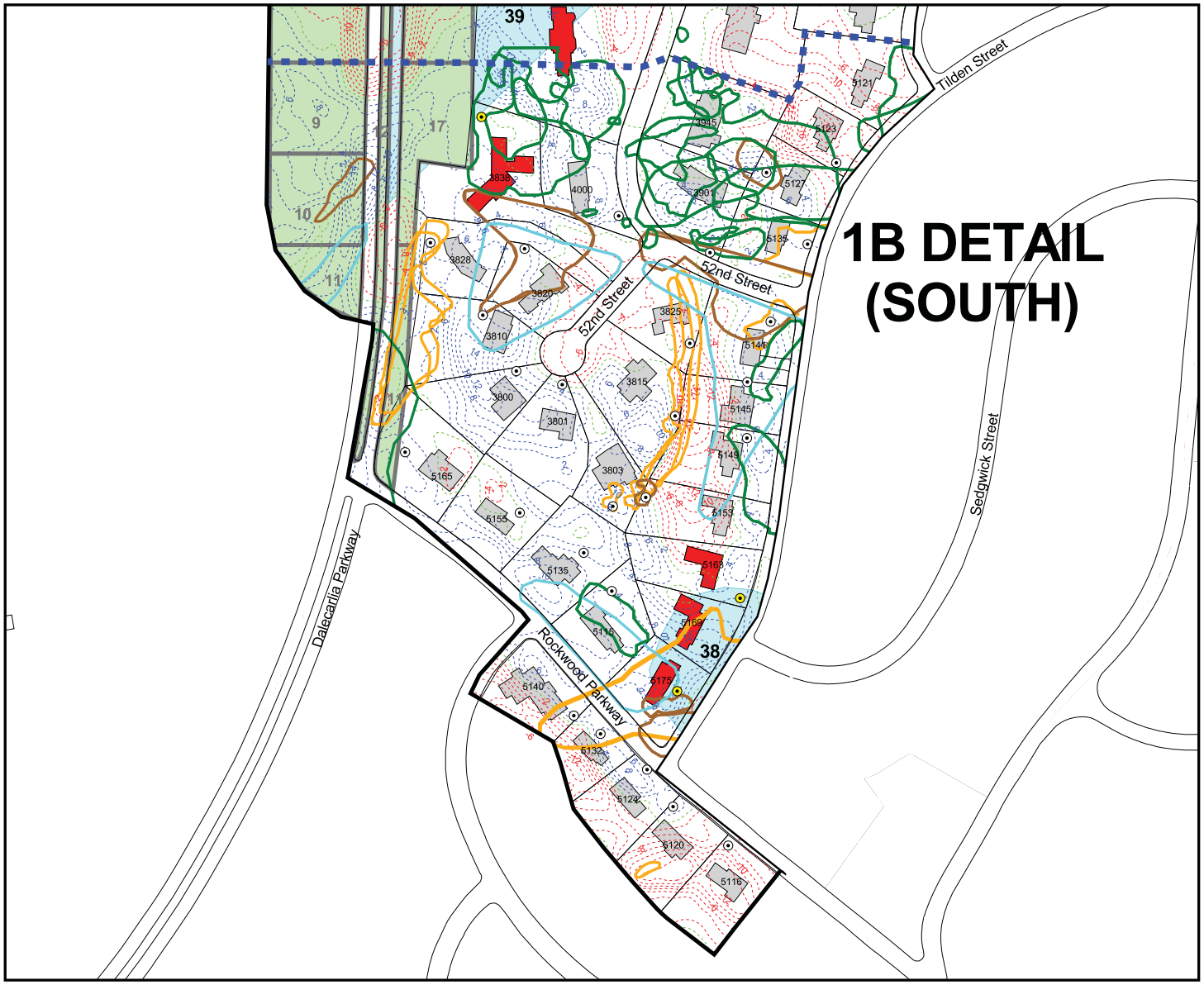
Parcels
Non-Residential Lots
CTA Grouping 1B
Residence Within a POI
Building
POIs

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

150 0 150 Feet

Scale:	1 : 1800
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CTA
Grouping 1B-South Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

Boring Locations
- Arsenic
- POI-Specific Parameters

Boundary between North & South Detail
Roads
Stressed Vegetation
1928 Ground Scars
1927 Ground Scars
1922 Ground Scars
1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

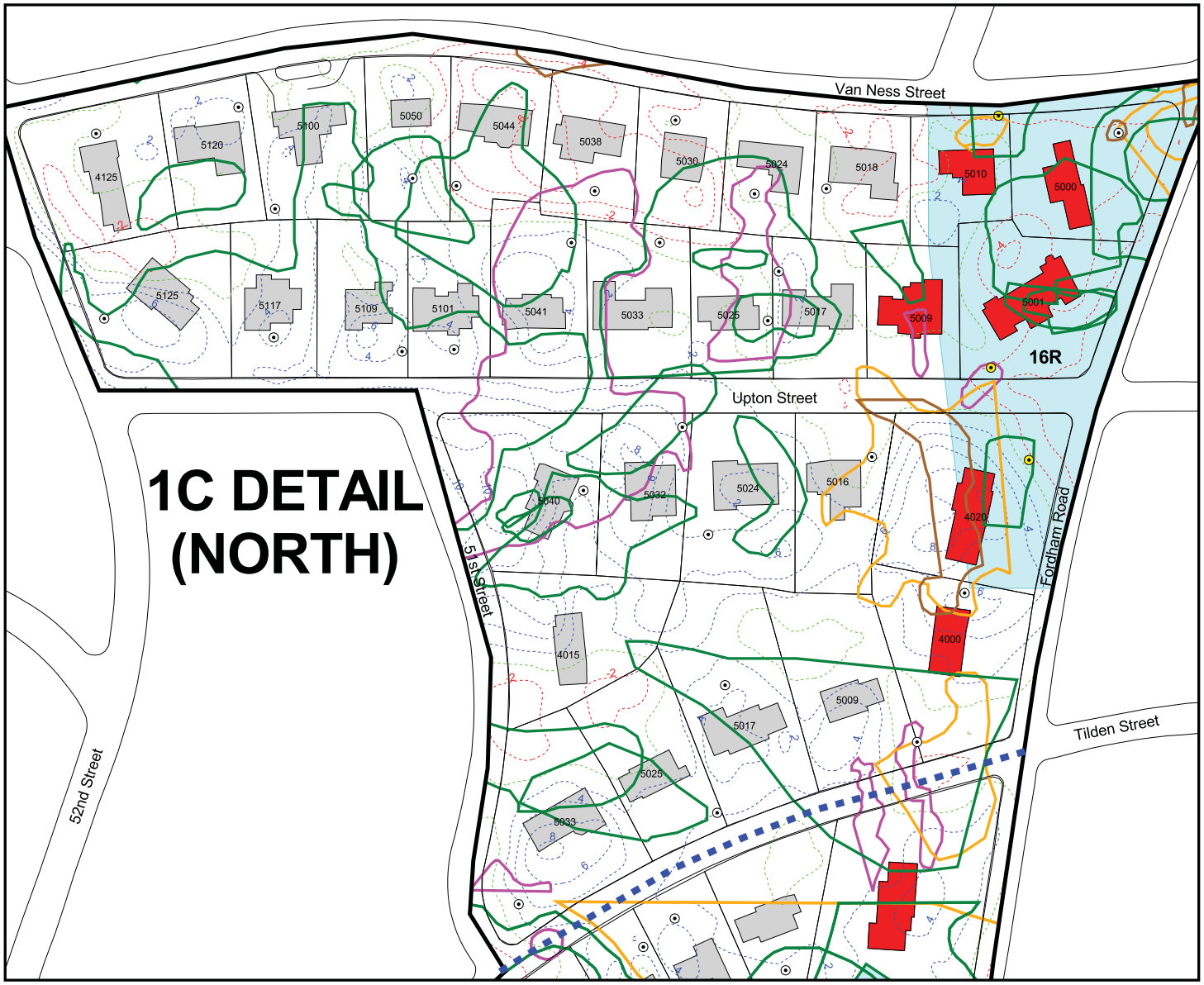
Parcels
Non-Residential Lots
CTA Grouping 1B
Residence Within a POI
Building
POIs

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
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150 0 150 Feet

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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CTA
Grouping 1C-North Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

Boring Locations
- Arsenic
- POI-Specific Parameters

Boundary between North & South Detail
Roads
Stressed Vegetation
1928 Ground Scars
1927 Ground Scars
1922 Ground Scars
1918 Ground Scars
Cut & Fill
- Cut
- Level
- Fill

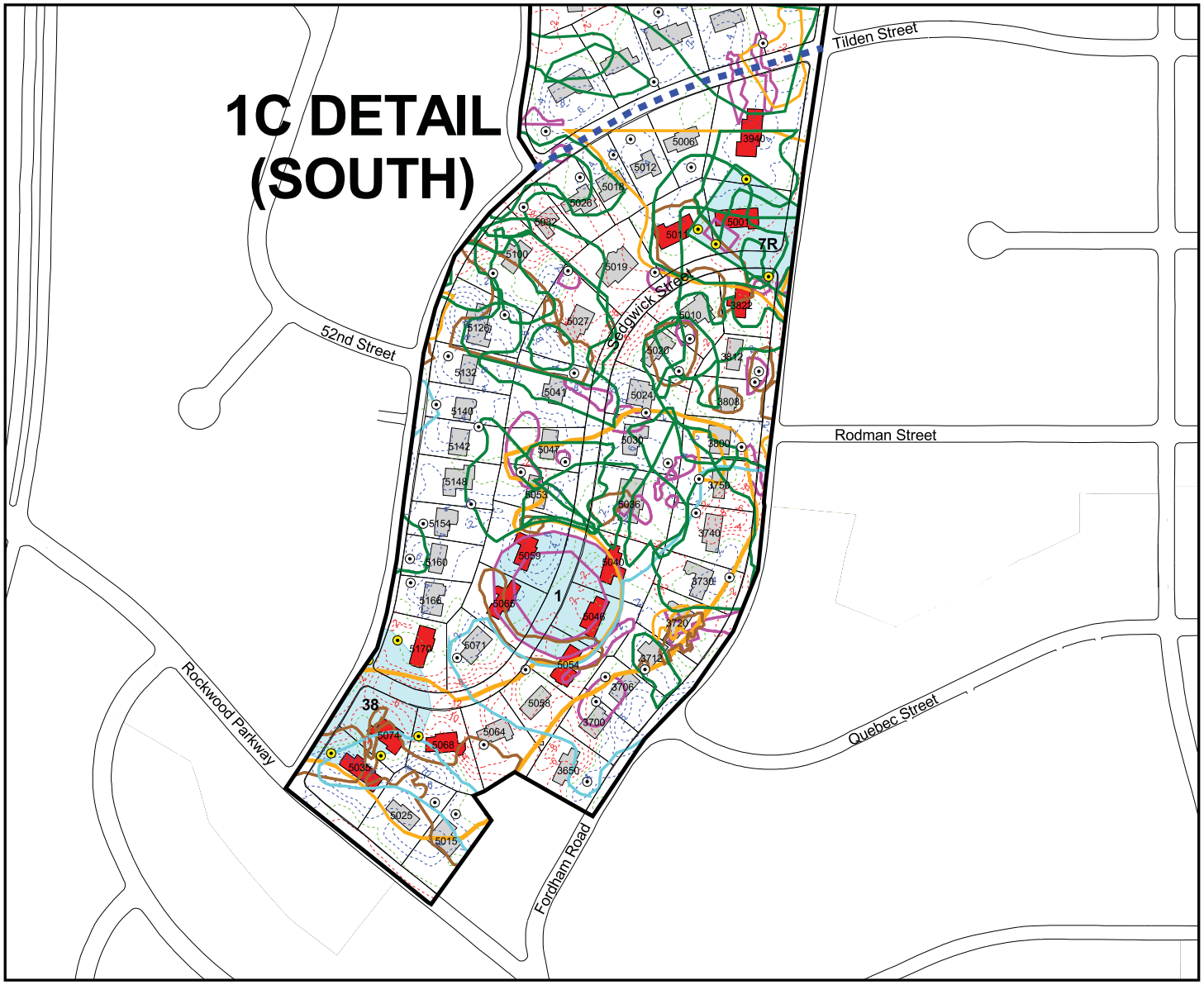
Parcels
Non-Residential Lots
CTA Grouping 1C
Residence Within a POI
Building
POIs

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
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100 0 100 Feet

Scale:	1 : 1200
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Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CTA
Grouping 1C-South Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

Boring Locations
- Arsenic
- POI-Specific Parameters

Boundary between North & South Detail
Roads
Stressed Vegetation
1928 Ground Scars
1927 Ground Scars
1922 Ground Scars
1918 Ground Scars
Cut & Fill
- Cut
- Level
- Fill

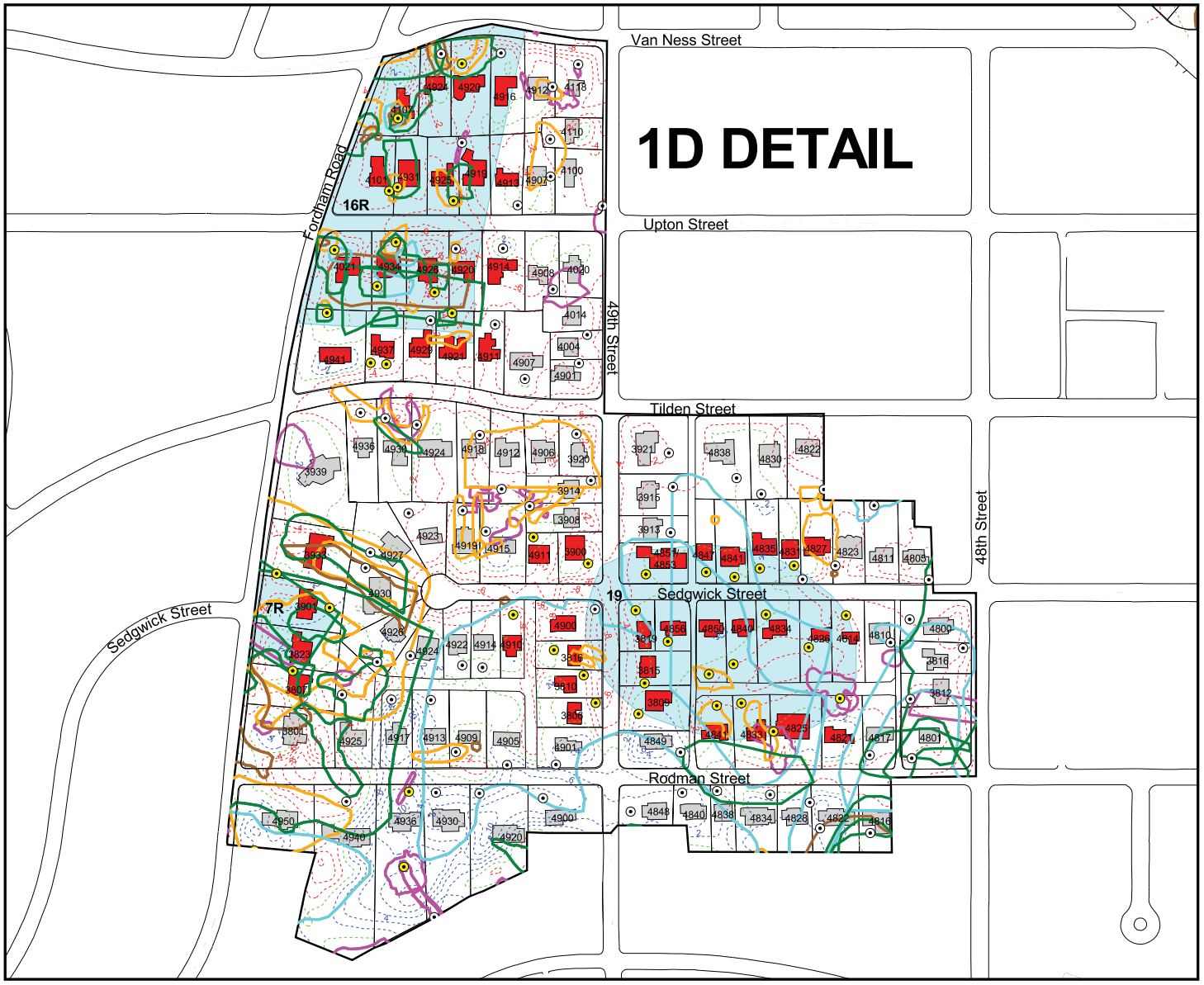
Parcels
Non-Residential Lots
CTA Grouping 1C
Residence Within a POI
Building
POIs

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
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- Non-residential acreage is divided into 1/2 acre (approximate) lots.

200 0 200 Feet

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Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CTA
Grouping 1D

Spring Valley Operable Unit 5
Washington D.C.

Legend

Boring Location
- Arsenic
- POI-Specific Parameters

Roads
Stressed Vegetation
1928 Ground Scars
1927 Ground Scars
1922 Ground Scars
1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

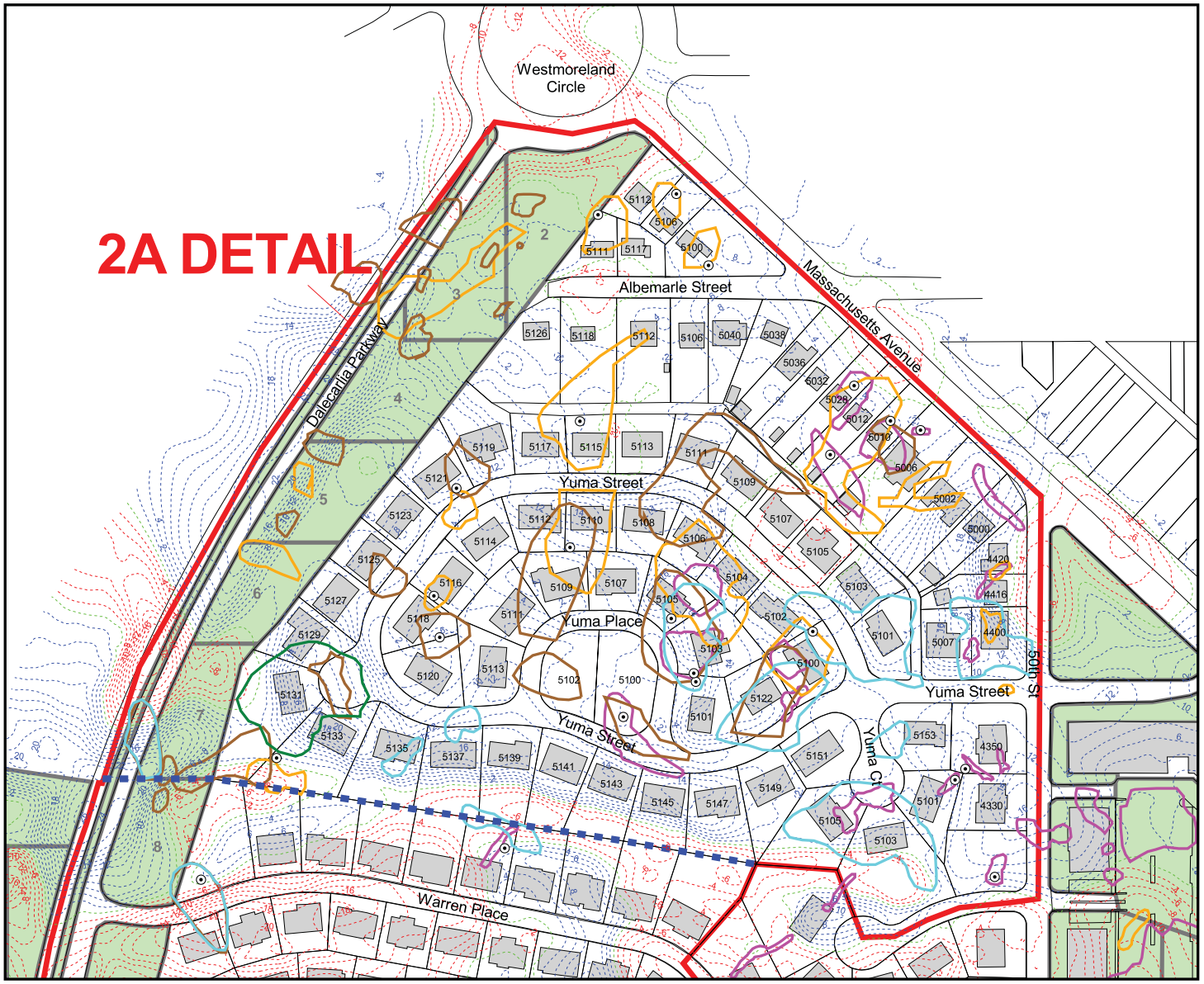
Parcels
Non-Residential Lots
CTA Grouping 1D
Residence Within a POI
Building
POIs

Note:
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200 0 200 Feet

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Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 2A Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

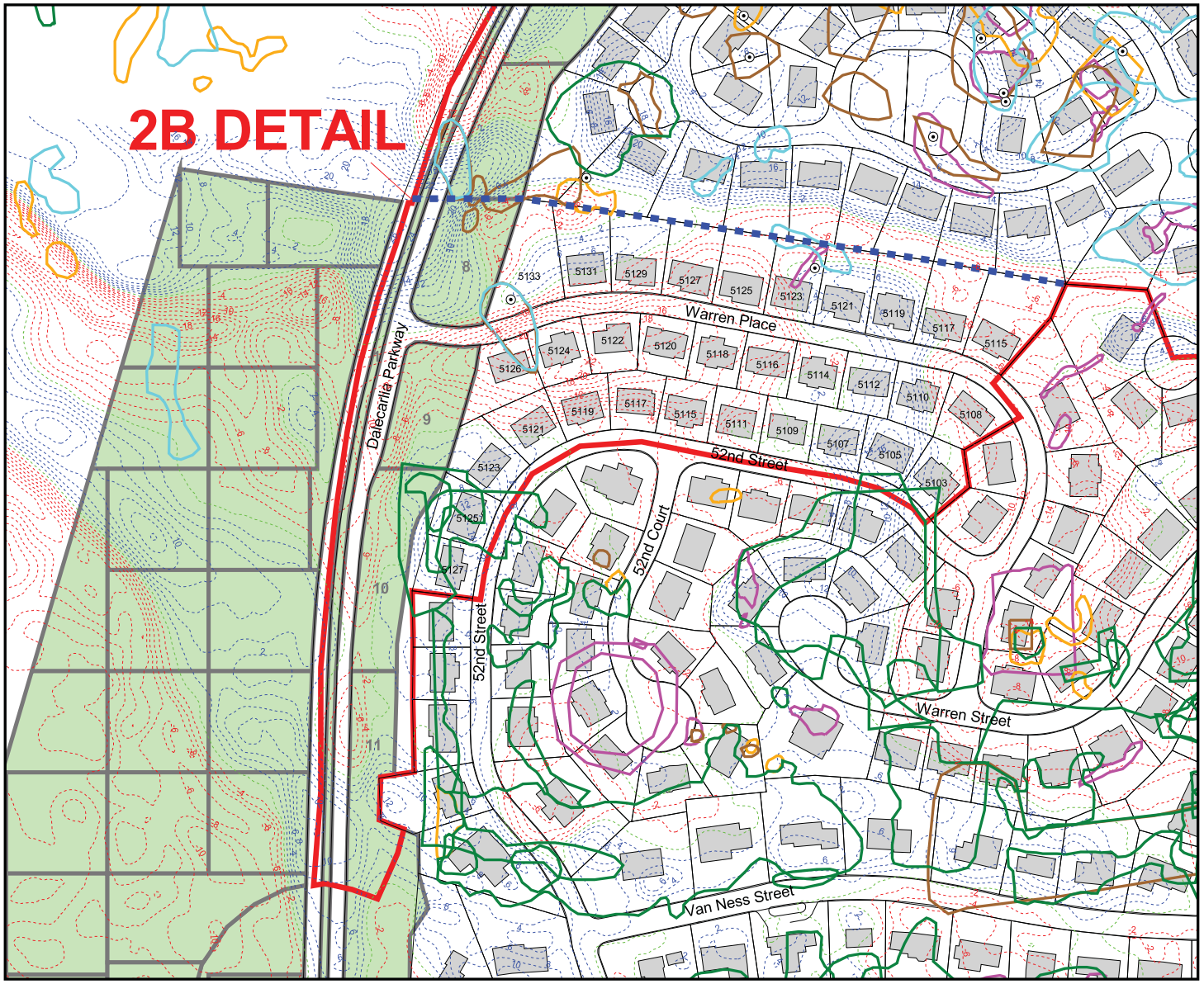
- Parcels
- Grouping 2
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
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150 0 150 Feet

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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 2B Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill

- Cut
- Level
- Fill
- Parcels
- Grouping 2
- Buildings
- Roads
- Non-Residential Lots

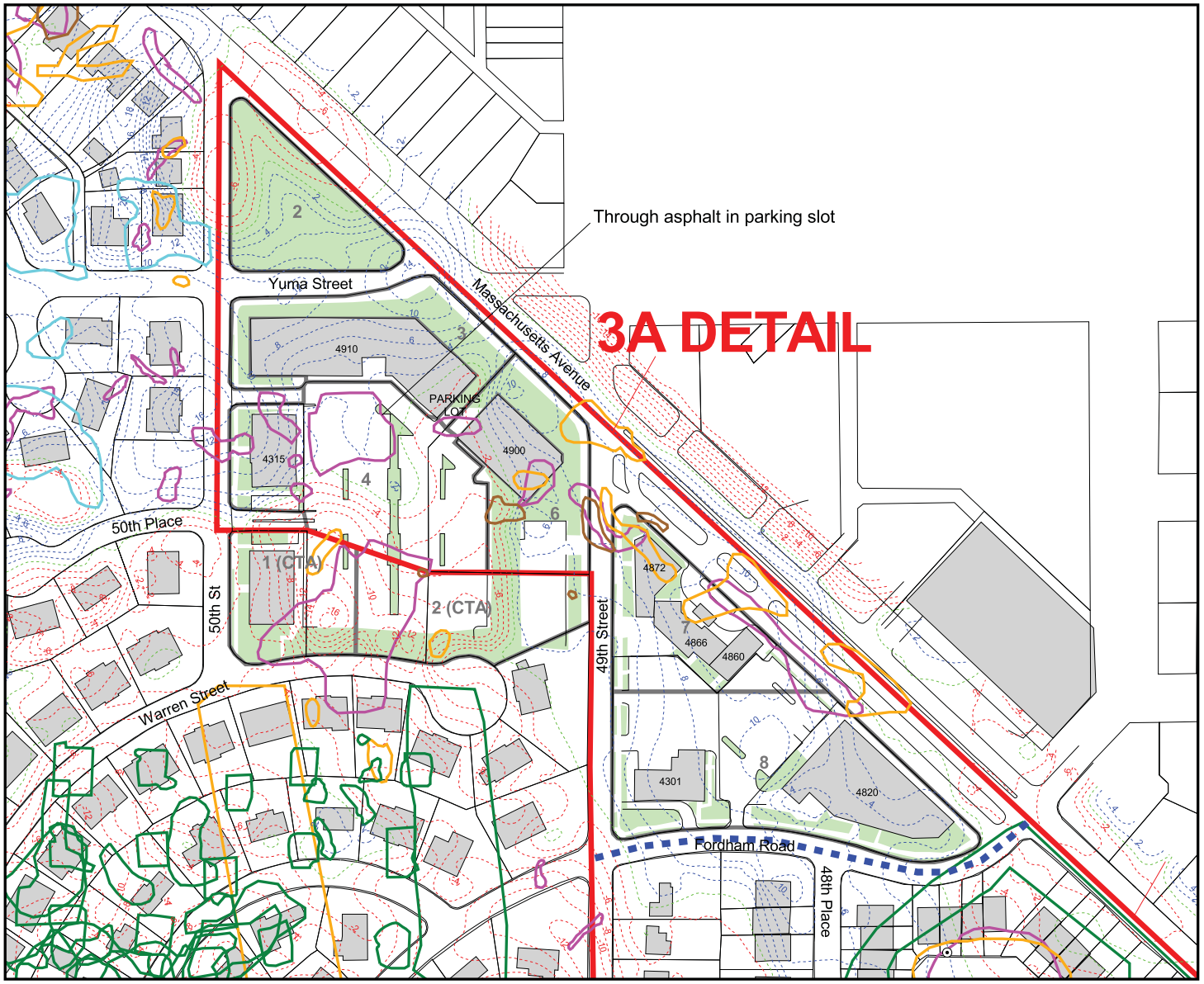
Note:

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- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
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150 0 150 Feet

Scale:	1 : 1800
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 3A Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

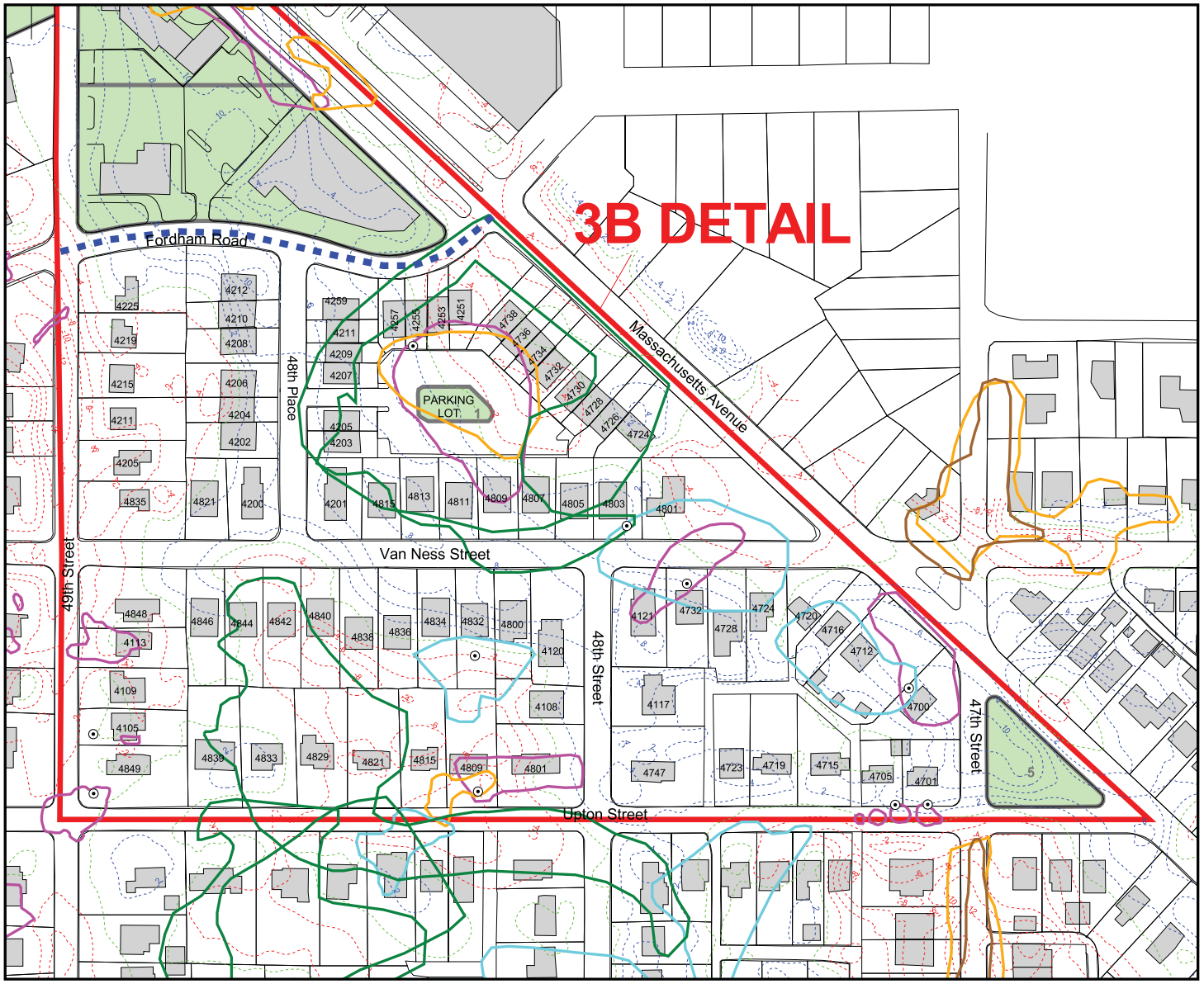
- Parcels
- Grouping 3
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
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150 0 150 Feet

Scale:	1 : 1600
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 3B Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

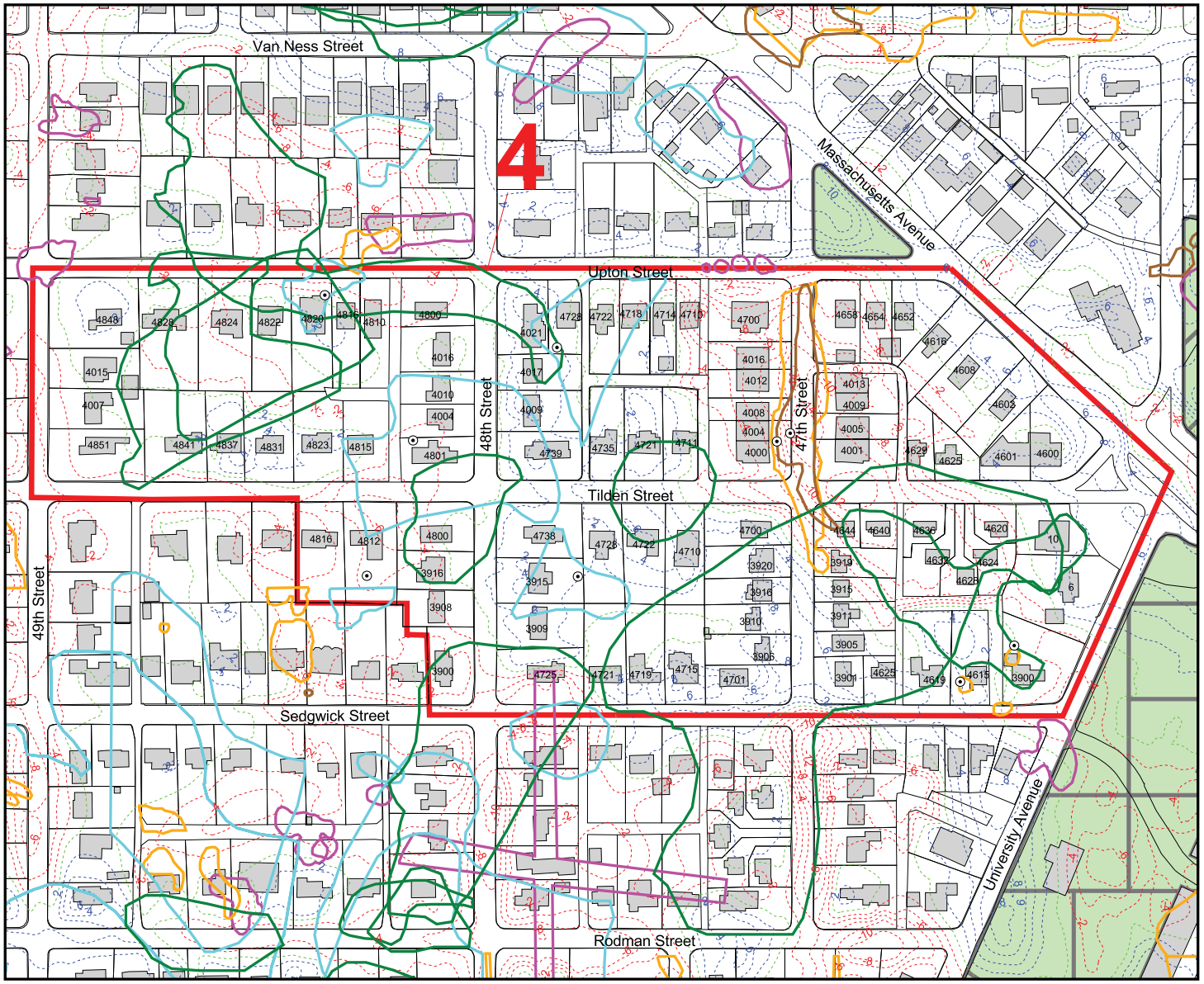
- Parcels
- Grouping 3
- Buildings
- Roads
- Non-Residential Lots

Note:
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150 0 150 Feet

Scale:	1 : 1600
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 4

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Stressed Vegetation
- 1928 Ground Scars
- 1922 Ground Scars
- 1927 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

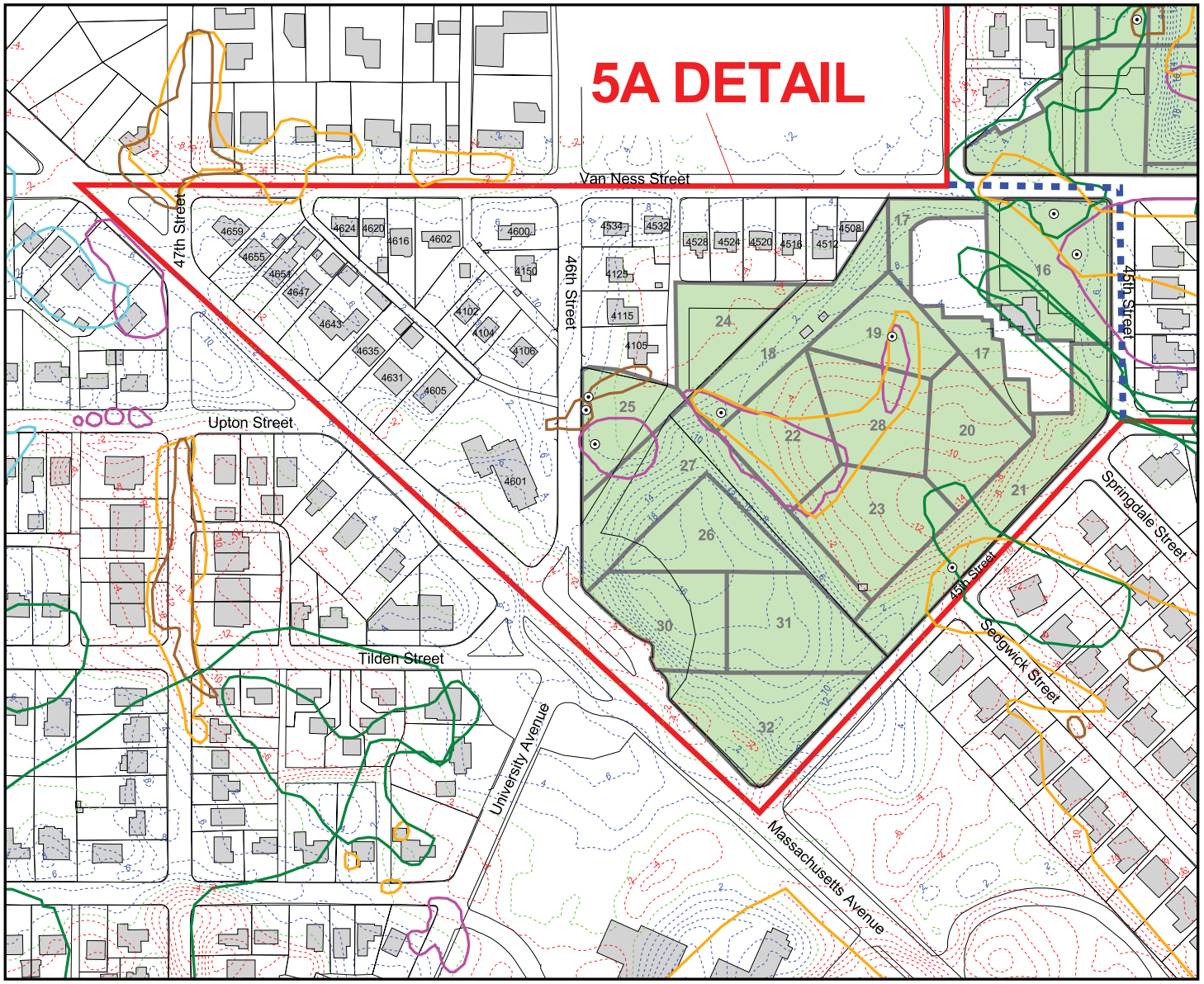
- Parcels
- Grouping 4
- Buildings
- Roads
- Non-Residential Lots

Note:
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200 0 200 Feet

Scale:	1 : 1900
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 5A Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill

- Cut
- Level
- Fill

- Parcels
- Grouping 5
- Buildings
- Roads
- Non-Residential Lots

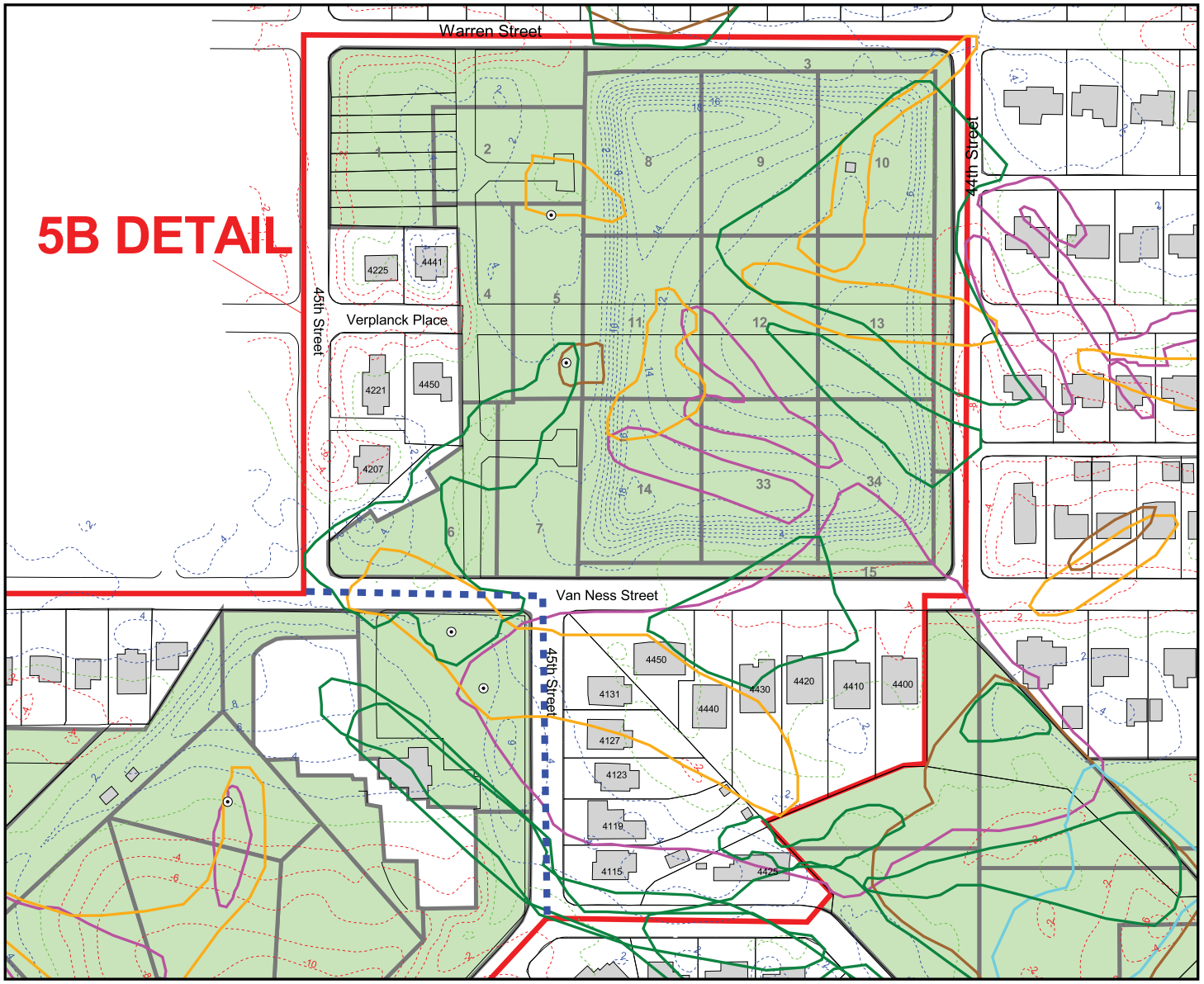
Note:

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150 0 150 Feet

Scale:	1 : 1800
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
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Page Number:	

PARSONS



CSA
Grouping 5B Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

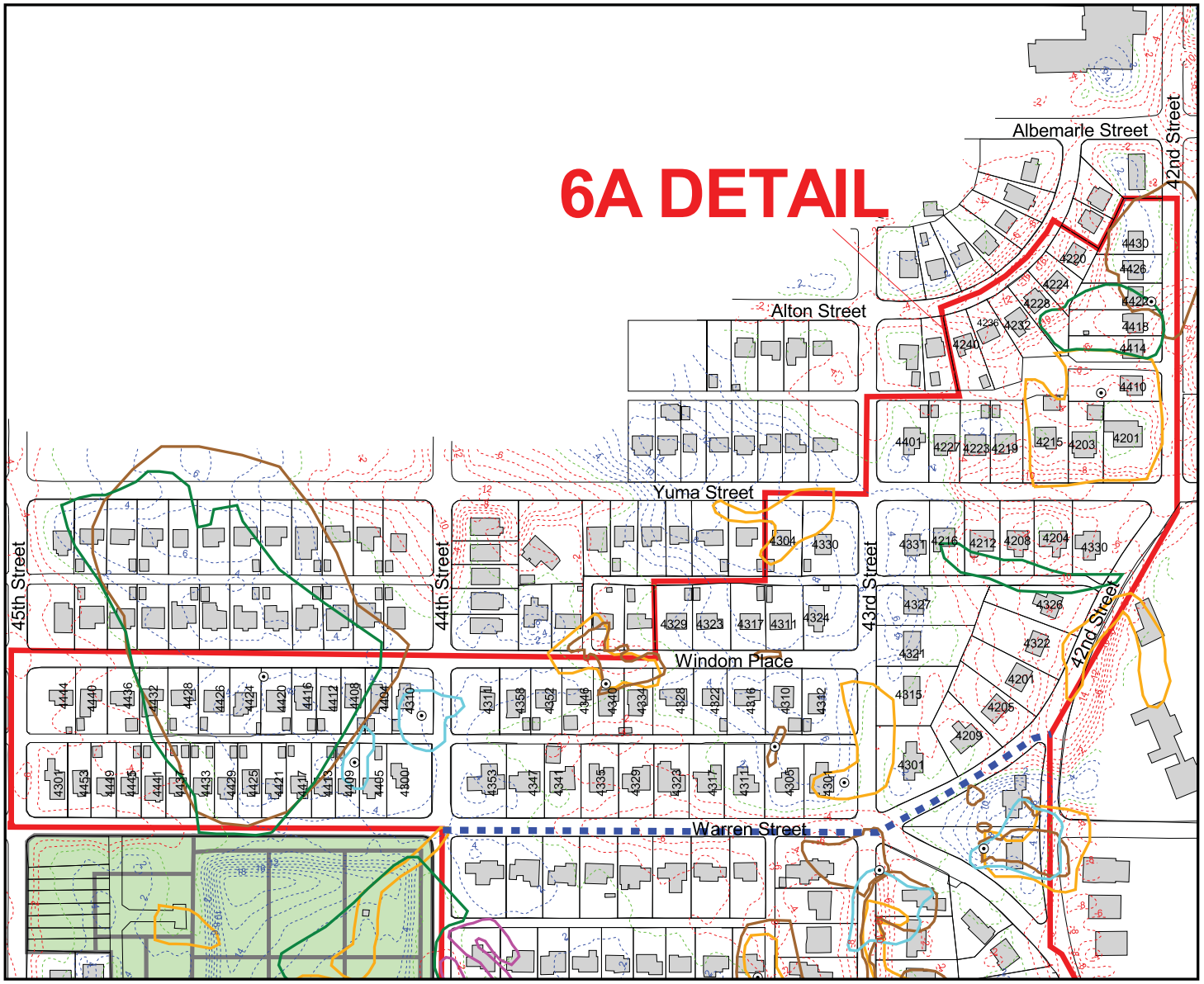
- Parcels
- Grouping 5
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
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100 0 100 Feet

Scale:	1 : 1200
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Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 6A Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

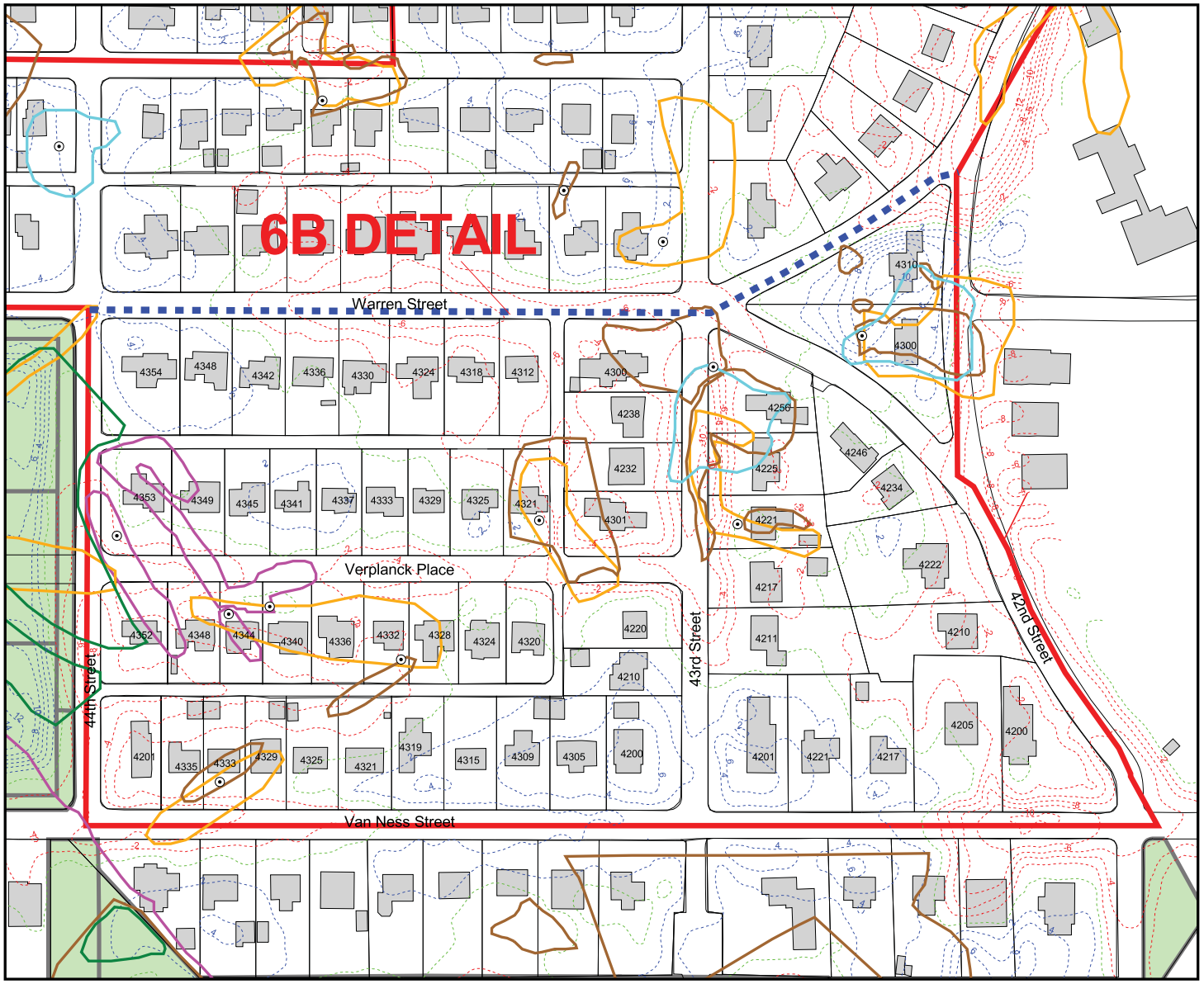
- Parcels
- Grouping 6
- Buildings
- Roads
- Non-Residential Lots

Note:
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200 0 200 Feet

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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 6B Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

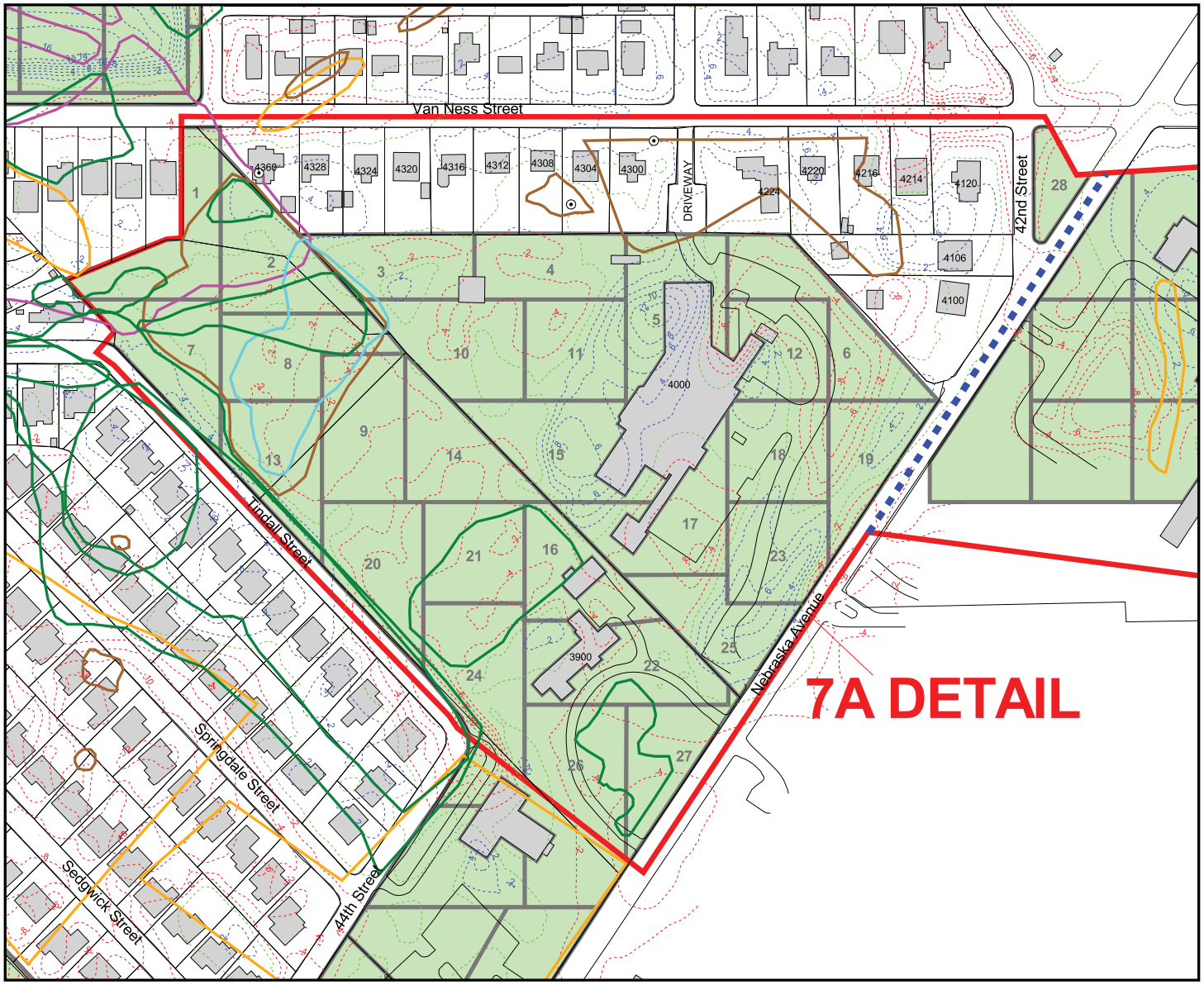
- Parcels
- Grouping 6
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
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100 0 100 200 Feet

Scale:	1 : 1200
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 7A Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

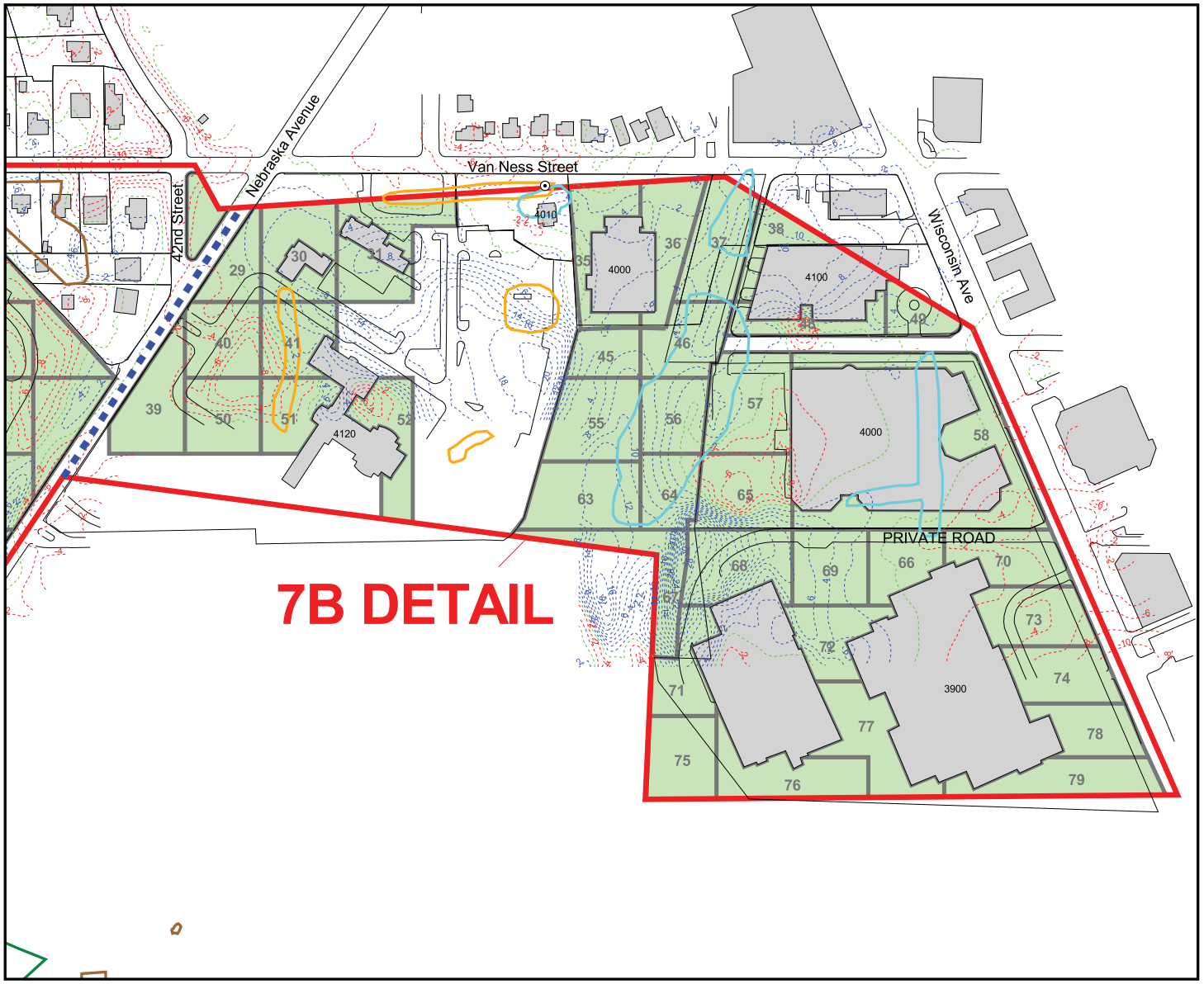
- Parcels
- Grouping 7
- Buildings
- Roads
- Non-Residential Lots

Note:
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150 0 150 Feet

Scale:	1 : 1800
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Date:	10/02/2002
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Page Number:	

PARSONS



CSA
Grouping 7B Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

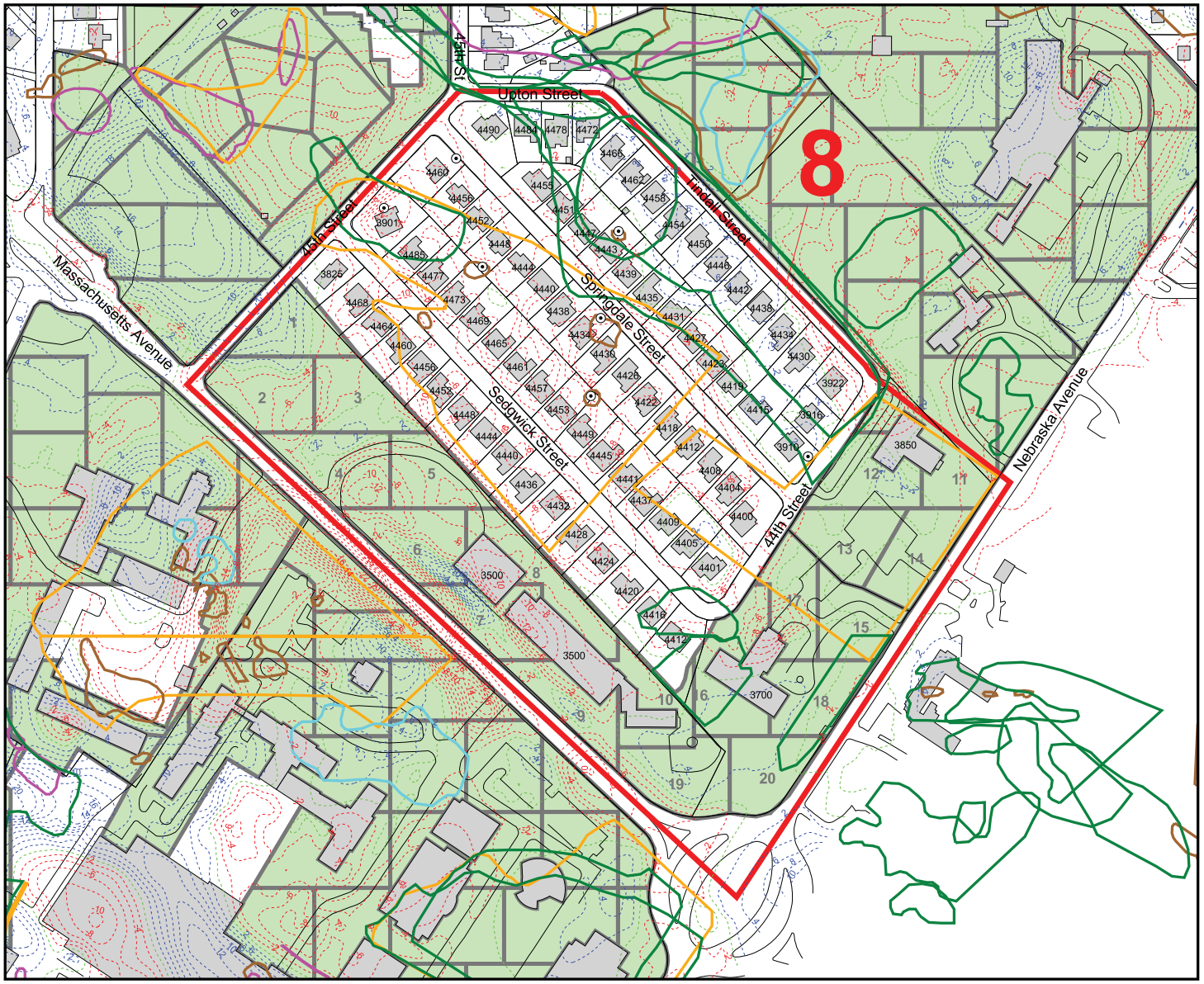
- Parcels
- Grouping 7
- Buildings
- Roads
- Non-Residential Lots

Note:
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200 0 200 Feet

Scale:	1 : 2400
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 8

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Stressed Vegetation
- 1928 Ground Scars
- 1922 Ground Scars
- 1927 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

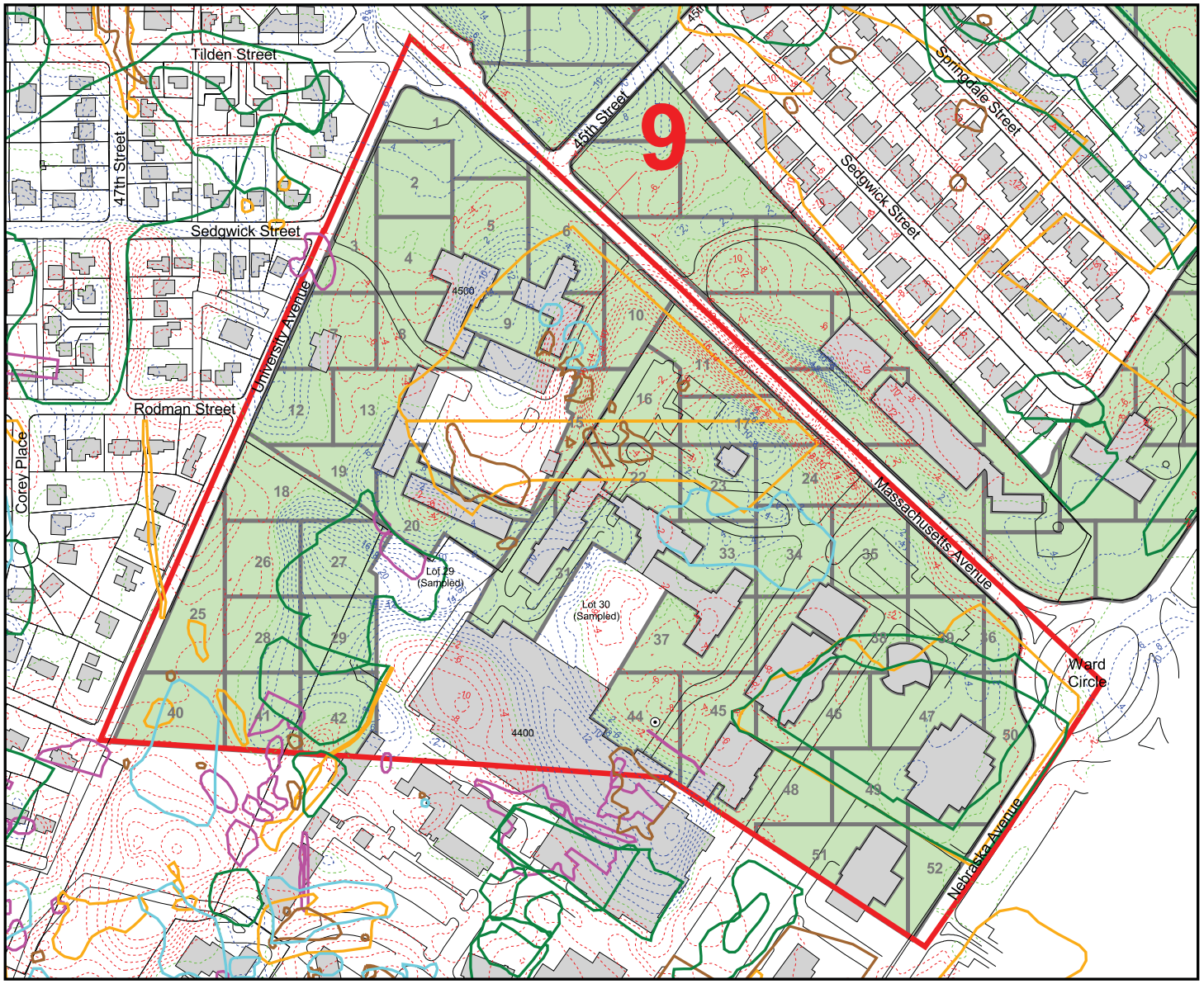
- Parcels
- Grouping 8
- Buildings
- Roads
- Non-Residential Lots

Note:
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200 0 200 Feet

Scale:	1 : 2400
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA

Grouping 9

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Stressed Vegetation
- 1928 Ground Scars
- 1922 Ground Scars
- 1927 Ground Scars
- 1918 Ground Scars

Cut & Fill

- Cut
- Level
- Fill

- Parcels
- Grouping 9
- Buildings
- Roads
- Non-Residential Lots

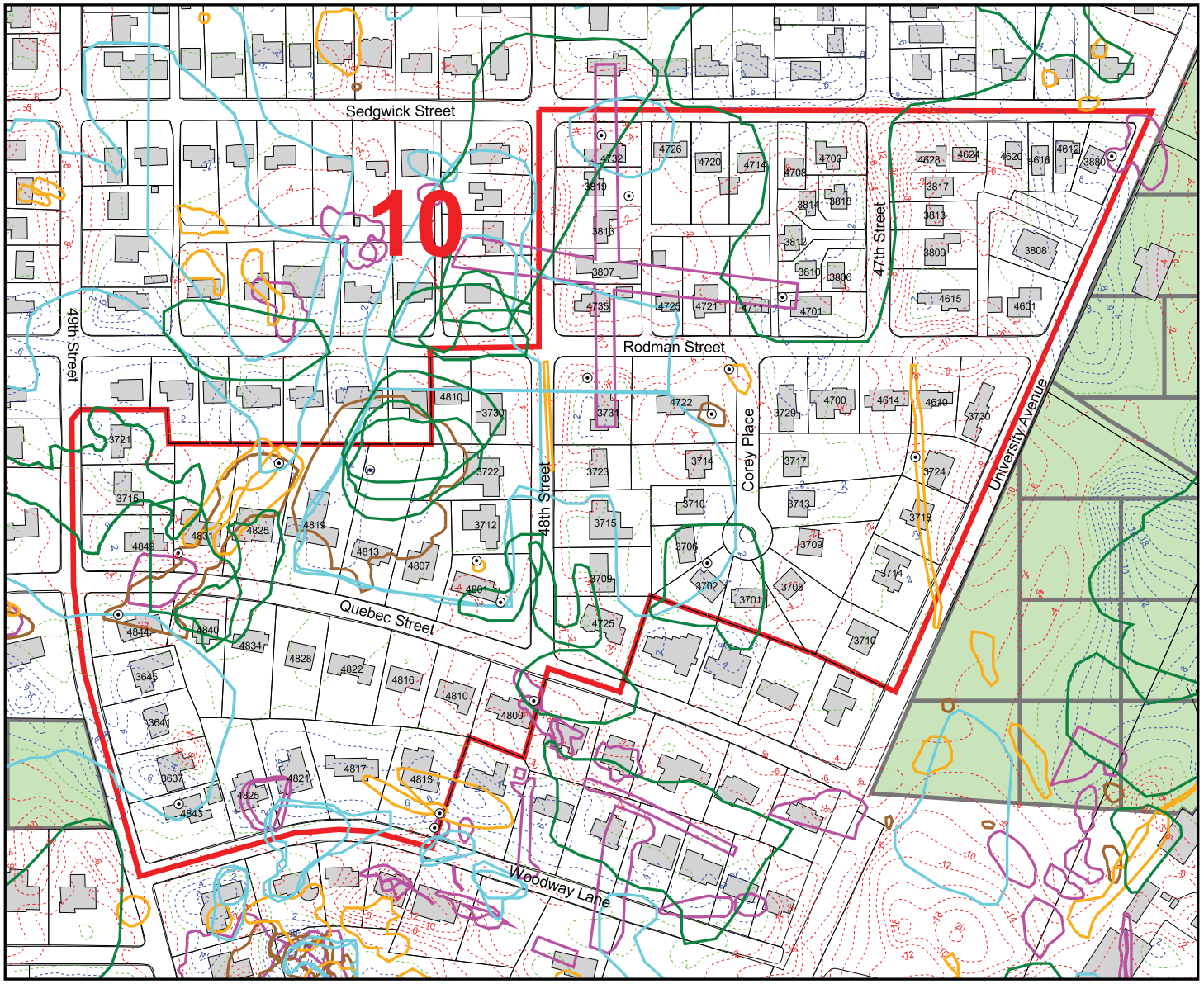
Note:

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200 0 200 Feet

Scale:	1 : 2400
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 10

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Stressed Vegetation
- 1928 Ground Scars
- 1922 Ground Scars
- 1927 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

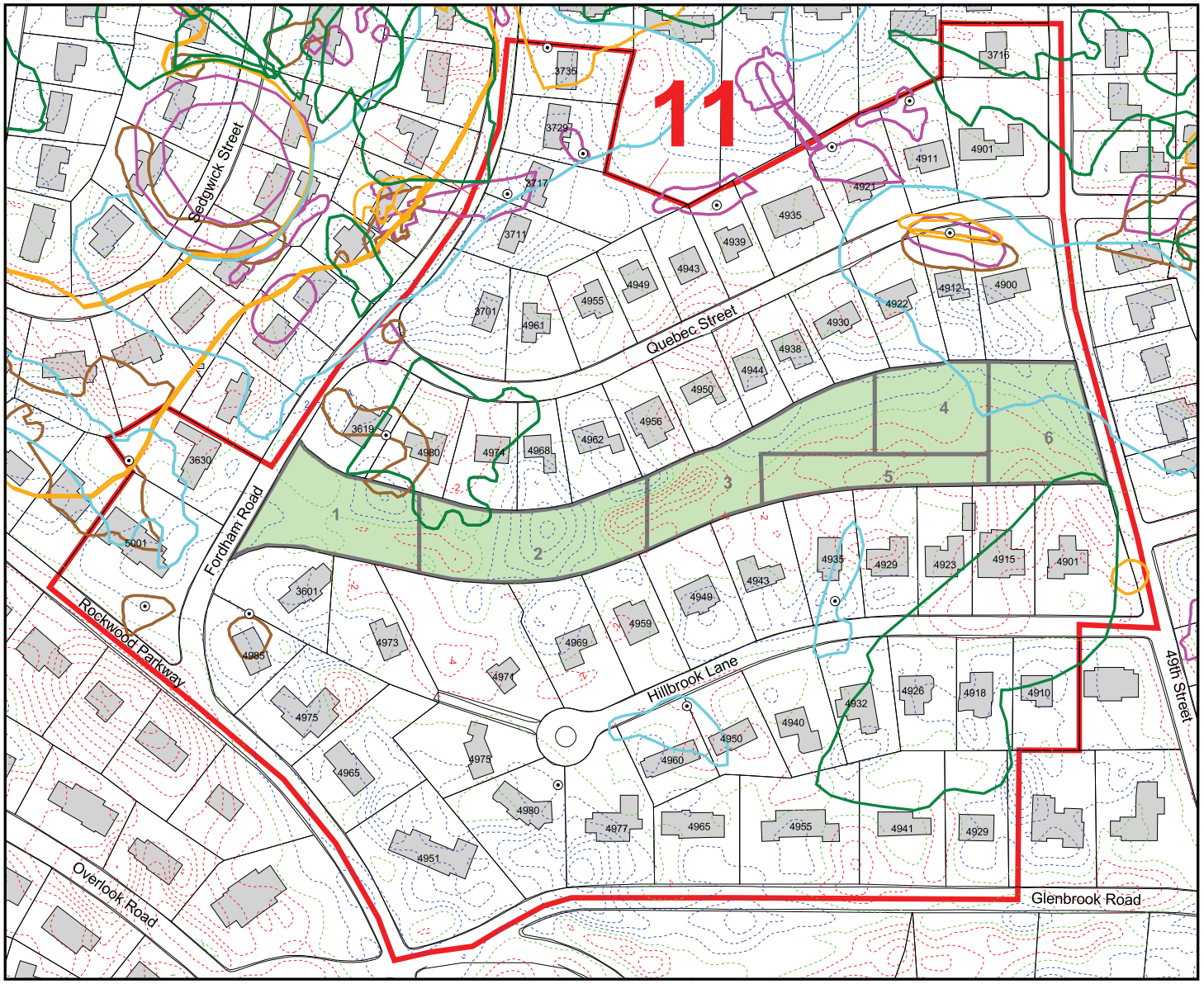
- Parcels
- Grouping 10
- Buildings
- Roads
- Non-Residential Lots

Note:
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- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

150 0 150 Feet

Scale:	1 : 1800
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 11

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Stressed Vegetation
- 1928 Ground Scars
- 1922 Ground Scars
- 1927 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

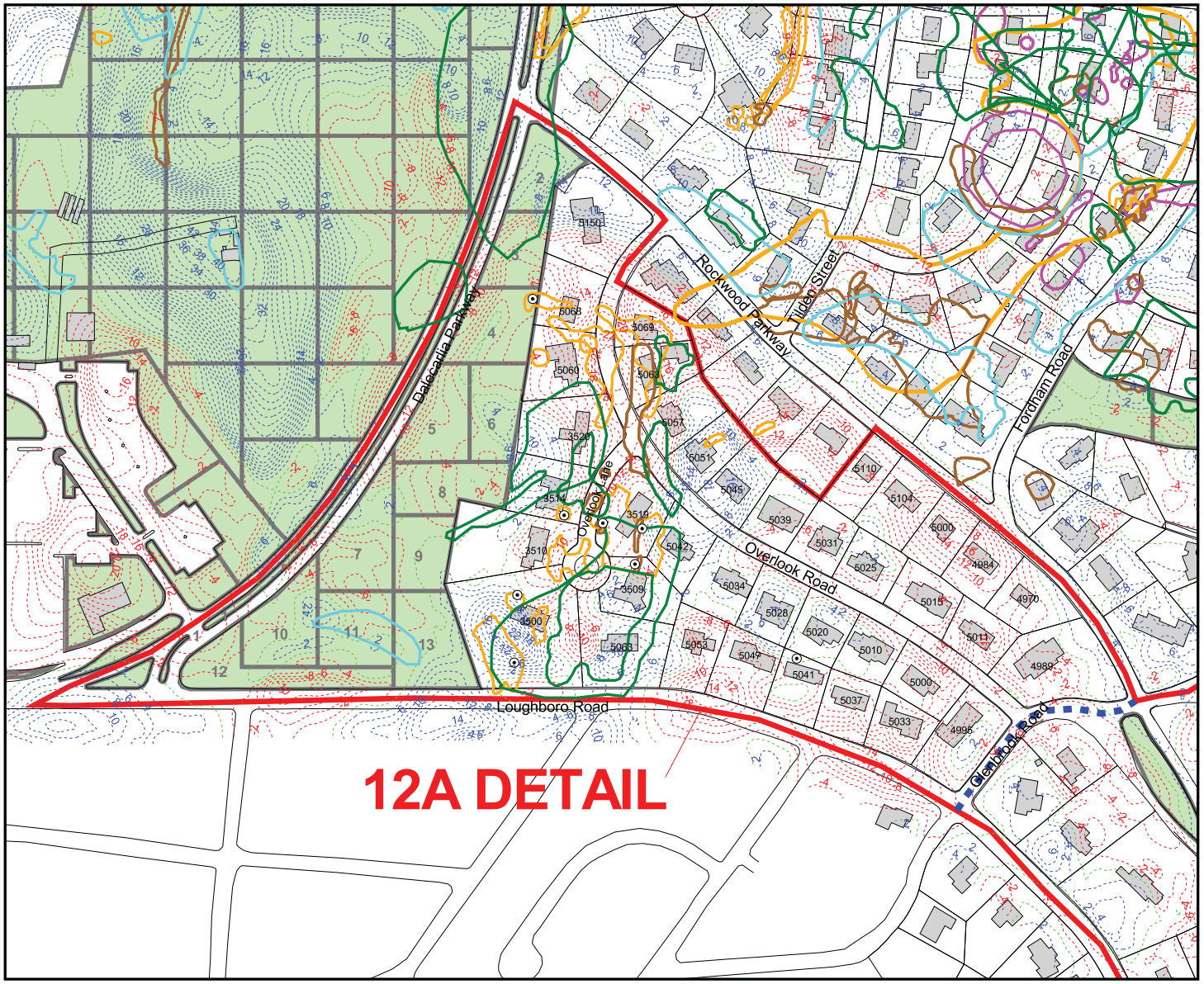
- Parcels
- Grouping 11
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

150 0 150 Feet

Scale:	1 : 1600
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 12A Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

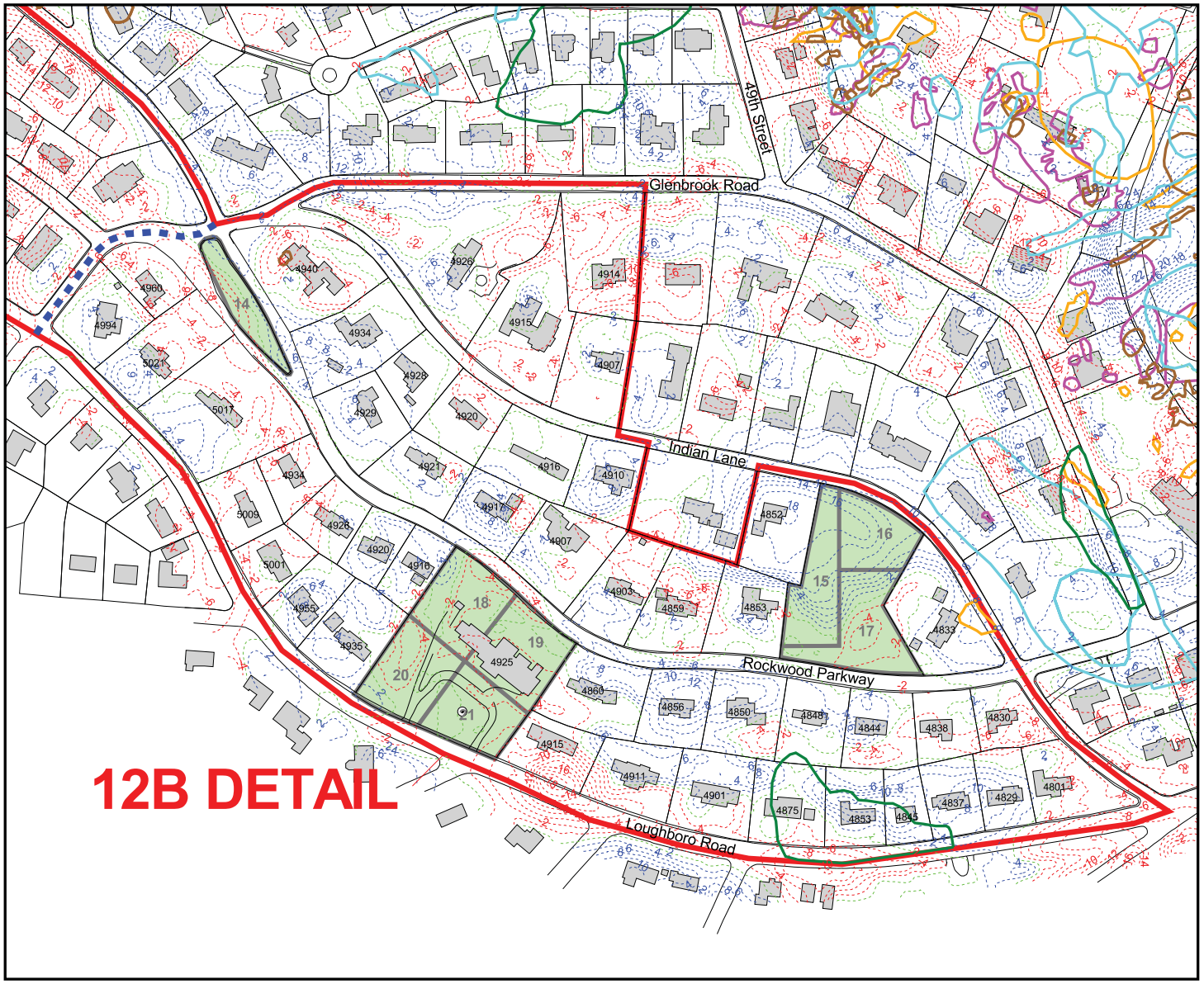
- Parcels
- Grouping 12
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

200 0 200 Feet

Scale:	1 : 2400
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 12B Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

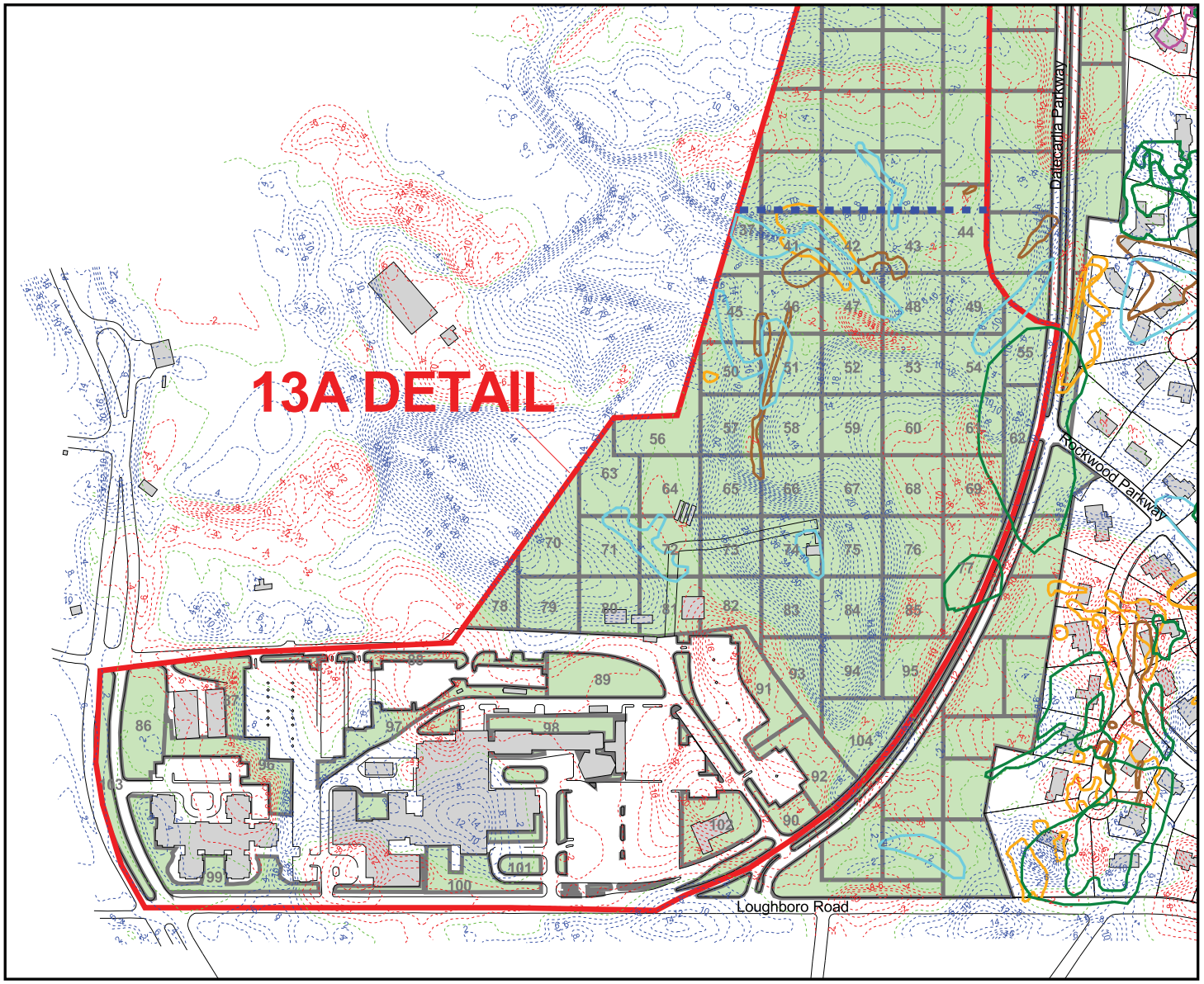
- Parcels
- Grouping 12
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

200 0 200 Feet

Scale:	1 : 2400
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 13A Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

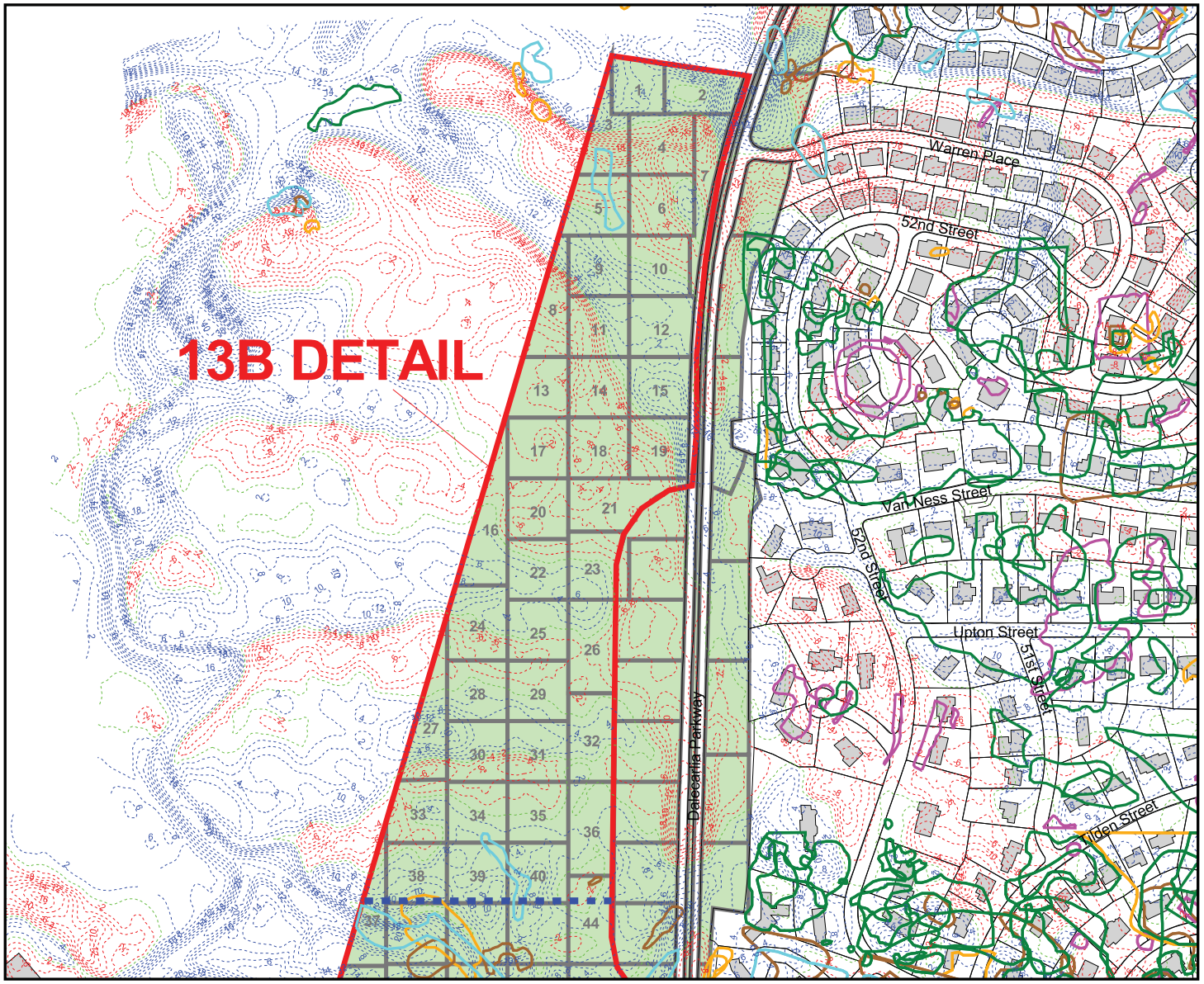
- Grouping 13
- Parcels
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

300 0 300 Feet

Scale:	1 : 3000
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File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS



CSA
Grouping 13B Detail

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring Locations
- Boundary between A & B Detail
- Stressed Vegetation
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars

Cut & Fill
- Cut
- Level
- Fill

- Grouping 13
- Parcels
- Buildings
- Roads
- Non-Residential Lots

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas.
- Non-residential acreage is divided into 1/2 acre (approximate) lots.

300 0 300 Feet

Scale:	1 : 3000
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/02/2002
Figure Number:	
Page Number:	

PARSONS

APPENDIX B

EXCAVATION AND LANDFILL DISPOSAL COST SUMMARY

(TABLES B-1 and B-2)

Table B-1 Detailed Cost Estimate

Soils Contaminated with Arsenic
(Excavation and Disposal - Non-Hazardous Landfill, 7 Grids)
Spring Valley OU-4 and OU-5 EECA

Cost Item						Bare Costs							
						Materials		Labor		Equipment		Cost Including O&P	
	WBS	Task & Subtask	Item	Quantity	Units	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal
33101	A.	**MOBILIZATION AND PREPARATORY WORK**											
	01	Mobilization of Construction Equipment and Facilities		1	LS	$ 2,000.00	$ 2,000.00	$ -	$ -	$ -	$ -	$ -	$ 2,000.00
	02	Mobilization of Personnel		1	LS	$ 1,000.00	$ 1,000.00		$ -		$ -		$ 1,000.00
	03	Remediation Work Plan	Senior Engineer	8	hr	$ -	$ -	$ 149.50	$ 1,196.00	$ -	$ -	$ -	$ 1,196.00
			Engineer	12	hr	$ -	$ -	$ 88.40	$ 1,060.80	$ -	$ -	$ -	$ 1,060.80
			CADD Operator/GIS	8	hr	$ -	$ -	$ 68.90	$ 551.20	$ -	$ -	$ -	$ 551.20
			Admin Aide	8	hr	$ -	$ -	$ 59.54	$ 476.32	$ -	$ -	$ -	$ 476.32
			Publication/Reproduction	10	copy	$ 20.00	$ 200.00	$ -	$ -	$ -	$ -	$ -	$ 200.00
	10	Population Relocation		1	LS	$ 7,000.00	$ 7,000.00		$ -		$ -		$ 7,000.00
	90	Permitting											
		- District of Columbia DCRA Land Disturbance		1	LS	$ 500.00	$ 500.00	$ -	$ -	$ -	$ -	$ -	$ 500.00
			SUBTOTAL				**$ 10,700.00**		**$ 3,284.32**		**$ -**		**$ 13,984.32**
33102	B.	**MONITORING, SAMPLING AND ANALYSIS**											
	06	Confirmation Soil Sampling	Analytical Costs	1	LS	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,489.00	$ 1,489.00
			SUBTOTAL				**$ -**		**$ -**		**$ -**		**$ 1,489.00**
33103	C.	**SITE WORK**											
	02	Clearing-Related Activities											
		- Tree removal	Cut and Chip Light trees	0.1	ACRE	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,875.00	$ 287.50
			Tree Removal w/ Chain Saws, 4-6" dia.	5	EA	$ -	$ -	$ -	$ -	$ -	$ -	$ 168.00	$ 840.00
			Tree Removal w/ Chain Saws, 8-12" dia.	5	EA	$ -	$ -	$ -	$ -	$ -	$ -	$ 252.00	$ 1,260.00
			Tree Subcontractor Service (Large Tree, including stump)	1	LS	$ -	$ -	$ 10,000.00	$ 10,000.00	$ -	$ -	$ -	$ 10,000.00
		- Stump removal											
			1-1/2 CY Backhoe, 4-6" diam.	5	EA	$ -	$ -	$ -	$ -	$ -	$ -	$ 29.50	$ 147.50
			1-1/2 CY Backhoe, 8-12" diam.	5	EA	$ -	$ -	$ -	$ -	$ -	$ -	$ 80.00	$ 400.00
	03	- Soil Excavation											
		Gross	Light Equipment w/ operator	80	CY	$ -	$ -	$ -	$ -	$ -	$ -	$ 50.15	$ 4,011.73
			1 CY Bucket w/ operator	65	CY	$ -	$ -	$ -	$ -	$ -	$ -	$ 23.04	$ 1,497.60
		By Hand (heavy soil or clay)	Laborer	65	CY	$ -	$ -		$ -	$ -	$ -	$ 100.00	$ 6,500.00
	05	- Fencing											
			Installing as Temporary	300	LF	$ -	$ -	$ -	$ -	$ -	$ -	$ 7.80	$ 2,340.00
			Removal of Temporary Fencing	300	LF	$ -	$ -	$ -	$ -	$ -	$ -	$ 7.45	$ 2,235.00
			Fence Material Allowance	1	LS	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,000.00	$ 2,000.00
			Reinstall Fence (Labor Only)	300	LF	$ -	$ -	$ 6.25	$ 1,875.00	$ -	$ -	$ -	$ 1,875.00

Table B-1 Detailed Cost Estimate

Soils Contaminated with Arsenic
(Excavation and Disposal - Non-Hazardous Landfill, 7 Grids)
Spring Valley OU-4 and OU-5 EECA

Cost Item						Bare Costs						Cost Including O&P	
						Materials		Labor		Equipment			
WBS	Task & Subtask	Item	Quantity	Units		$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal
	90	Surveying	1	DAY		$ -	$ -	$ -	$ -	$ -	$ -	$ 625.00	$ 625.00
	91	Miscellaneous Expenses	Per Diem	10	M/DAY	$ -	$ -	$ -	$ -	$ -	$ -	$ 200.00	$ 2,000.00
			Portable Water Tank	5	DAY	$ -	$ -	$ -	$ -	$ -	$ -	$ 95.50	$ 477.50
			SUBTOTAL				**$ -**		**$ 11,875.00**		**$ -**		**$ 36,496.83**
33105	D.	**EROSION AND SEDIMENT CONTROL**											
	13		Jute Fence	325	SY	$ -	$ -	$ -	$ -	$ -	$ -	$ 1.21	$ 393.25
			Silt Fence	400	LF	$ -	$ -	$ -	$ -	$ -	$ -	$ 0.73	$ 292.00
			Hay Bales	250	LF	$ -	$ -	$ -	$ -	$ -	$ -	$ 2.00	$ 500.00
			Remove Hay Bales	1	TON	$ -	$ -	$ -	$ -	$ -	$ -	$ 385.00	$ 385.00
			SUBTOTAL				**$ -**		**$ -**		**$ -**		**$ 1,570.25**
33301	E.	**SUPERVISION AND ADMINISTRATION**											
			Construction Manager	28	hr	$ -	$ -	$ 85.80	$ 2,402.40	$ -	$ -	$ -	$ 2,402.40
			SSHO	28	hr	$ -	$ -	$ 80.60	$ 2,256.80	$ -	$ -	$ -	$ 2,256.80
			UXO Technician	28	hr	$ -	$ -	$ 65.00	$ 1,820.00	$ -	$ -	$ -	$ 1,820.00
			Per Diem	10	M/DAY	$ -	$ -	$ -	$ -	$ -	$ -	$ 200.00	$ 2,000.00
			SUBTOTAL				**$ -**		**$ 6,479.20**		**$ -**		**$ 8,479.20**
33119	F.	**DISPOSAL**											
	21	Hauling From Site to Landfill		315	tons	$ 20.00	$ 6,300.00	$ -	$ -	$ -	$ -	$ -	$ 6,300.00
	22	Non- Hazardous Soil Disposal		315	tons	$ 21.00	$ 6,615.00	$ -	$ -	$ -	$ -	$ -	$ 6,615.00
			SUBTOTAL				**$ 12,915.00**		**$ -**		**$ -**		**$ 12,915.00**
33120	G.	**SITE RESTORATION**											
	01	Earthwork											
		- Backfill	Material Only	273	LCY	$ -	$ -		$ -	$ -	$ -	$ 10.00	$ 2,730.00
		Gross	2-1/2 CY Loader w/ Operator	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 2.39	$ 217.49
			Dozer w/ Operator	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 2.87	$ 261.17
		By Hand	Laborer	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 22.50	$ 2,047.50
		- Compaction											
		Gross	Air Tamp. W/ Operator	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 8.30	$ 755.30
			Vibratory Plate w/ Operator	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 5.75	$ 523.25
		By Hand	6" Layers	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 13.10	$ 1,192.10

Table B-1 Detailed Cost Estimate
Soils Contaminated with Arsenic
(Excavation and Disposal - Non-Hazardous Landfill, 7 Grids)
Spring Valley OU-4 and OU-5 EECA

Cost Item						Bare Costs							
					Materials		Labor		Equipment		Cost Including O&P	
WBS	Task & Subtask	Item	Quantity	Units	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal
	04 Revegetation and Planting											
	- Seeding and Sodding	Area of Approx. 2800 sf	1	LS	$ -	$ -		$ -	$ -	$ -	$ 1,200.00	$ 1,200.00
	- Landscape Restoration	Replace existing landscaping and features	1	LS	$ -	$ -		$ -	$ -	$ -	$ 25,000.00	$ 25,000.00
		SUBTOTAL				**$ -**		**$ -**		**$ -**		**$ 33,926.81**
33121	H. **DEMOBILIZATION**											
	Demobilization		1	LS	LS	$ -	$ -	$ -	$ -	$ -	$ 2,000.00	$ 2,000.00
		SUBTOTAL				**$ -**		**$ -**		**$ -**		**$ 2,000.00**
33222	I. **OTHER REQUIREMENTS**											
	90 POST REMEDIATION ACTIVITIES											
	-Closure Report	Senior Engineer	8	hr	$ -	$ -	$ 149.50	$ 1,196.00	$ -	$ -	$ -	$ 1,196.00
		Engineer	12	hr	$ -	$ -	$ 88.40	$ 1,060.80	$ -	$ -	$ -	$ 1,060.80
		CADD Operator	8	hr	$ -	$ -	$ 68.90	$ 551.20	$ -	$ -	$ -	$ 551.20
		Admin Aide	8	hr	$ -	$ -	$ 59.54	$ 476.32	$ -	$ -	$ -	$ 476.32
		Publication/Reproduction	10	per	$ 20.00	$ 200.00	$ -	$ -	$ -	$ -	$ -	$ 200.00
		SUBTOTAL				**$ -**		**$ 3,284.32**		**$ -**		**$ 3,484.32**

TOTAL COST SUMMARY

	Task	Total per Task
A.	MOBILIZATION AND PREPARATORY WORK	$13,984
B.	MONITORING, SAMPLING AND ANALYSIS	$1,489
C.	SITE WORK	$36,497
D.	EROSION AND SEDIMENT CONTROL	$1,570
E.	SUPERVISION AND ADMINISTRATION	$8,479
F.	DISPOSAL	$12,915
G.	SITE RESTORATION	$33,927
H.	DEMOBILIZATION	$2,000
I.	OTHER REQUIREMENTS	$3,484
	SUB-TOTAL	**$114,346**
	Contingency based on tasks C, D, F, G, H (10%)	$9,295
	Project Management based on Tasks C, D, F, G, H (5%)	$4,648
	Remedial Design based on Tasks C, D, F, G, H (10%)	$9,295
	TOTAL	**$137,584**

Per Grid Cost (30 CY)	Per Ton Cost (45 tons/grid)
$19,655	**$437**

Table B-1 Detailed Cost Estimate

Soils Contaminated with Arsenic
(Excavation and Disposal - Non-Hazardous Landfill, 7 Grids)
Spring Valley OU-4 and OU-5 EECA

Cost Item					Bare Costs							
					Materials		Labor		Equipment		Cost Including O&P	
WBS	Task & Subtask	Item	Quantity	Units	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal

KEY - ASSUMPTIONS

O&P = Overhead and Profit

COST ESTIMATE REFLECTS AN AVERAGE SITE WITH **7 GRIDS REQUIRING REMOVAL**
Note that based on sampling to date, it is anticipated that approximately 800 total grids will require removal.

A.	MOBILIZATION AND PREPARATORY WORK	-Assumed Draft and Final versions of Remediation Work Plan would be prepared. -Assumed electronic versions of existing site drawings will be adequate to produce excavation plans (I.e., additional surveying/creation of new base maps will not be required for planning). -Assumed existing health and safety documents would apply (I.e., no new health and safety submittals included). -Assumed existing quality assurance project plan would apply. -Permitting assumed fee based on amount of land disturbance. Includes application preparation time.
B.	MONITORING, SAMPLING, AND ANALYSIS	-Assumed 7 samples (1 confirmation sample per grid) analyzed for total arsenic ($65/sample) plus TCLP disposal characterization sample ($1,034). -Assumes each grid will meet the remedial objective at the initial excavation depth of 2 feet.
C.	SITE WORK	-Assumes a 1.5 factor for the soil conversion of CY to TON. -Assumes extent of soil contamination has been determined. -Assuming 30% of work can be done with "heavy" equipment, 40% with "light" equipment, and 30% of work done by hand. -Clearing: Up to 12" trees with manageable heights - remove with chain saws and stump removal equipment. 12" trees and larger, and any trees close to the houses, etc. - Utilize tree subcontractior to remove. The number of trees to remove is approximated as (5) 4-6" diameter, (5) 8-12" diameter per 7 grids excavated.
E.	SUPERVISION AND ADMINISTRATION	- Assumed that removal actions will occur in sequence (Site Manager, SSHO and UXO Tech. remain on-site from job to job)
F.	DISPOSAL	-Assumes non-hazardous landfill disposal
G.	SITE RESTORATION	-Assumed 1" topsoil layer and seeding. No other landscaping allowance. -Assumed equal compaction by methods of Air Tamping, Vibratory Plate, and Hand Methods. -Assumed 30% more soil required from backfill to allow for compaction.
I.	OTHER - POST REMEDIATION ACTIVITIES	-Assumed Draft and Final versions of closure report would be prepared. -Assumed closure report would simply describe the activities conducted. -The Closure Report will include the final actual costs of the work.

Table B-2 Detailed Cost Estimate

Soils Contaminated with Arsenic
(Excavation and Disposal - Hazardous Landfill, 7 Grids)
Spring Valley OU-4 and OU-5 EECA

Cost Item						Bare Costs							
						Materials		Labor		Equipment		Cost Including O&P	
WBS	Task & Subtask	Item	Quantity	Units		$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal
33101	A.	**MOBILIZATION AND PREPARATORY WORK**											
	01	Mobilization of Construction Equipment and Facilities	1	LS		$ 2,000.00	$ 2,000.00	$ -	$ -	$ -	$ -	$ -	$ 2,000.00
	02	Mobilization of Personnel	1	LS		$ 1,000.00	$ 1,000.00		$ -		$ -		$ 1,000.00
	03	Remediation Work Plan											
			Senior Engineer	8	hr	$ -	$ -	$ 149.50	$ 1,196.00	$ -	$ -	$ -	$ 1,196.00
			Engineer	12	hr	$ -	$ -	$ 88.40	$ 1,060.80	$ -	$ -	$ -	$ 1,060.80
			CADD Operator/GIS	8	hr	$ -	$ -	$ 68.90	$ 551.20	$ -	$ -	$ -	$ 551.20
			Admin Aide	8	hr	$ -	$ -	$ 59.54	$ 476.32	$ -	$ -	$ -	$ 476.32
			Publication/Reproduction	10	copy	$ 20.00	$ 200.00	$ -	$ -	$ -	$ -	$ -	$ 200.00
	10	Population Relocation	1	LS		$ 7,000.00	$ 7,000.00		$ -		$ -		$ 7,000.00
	90	Permitting											
		- District of Columbia DCRA Land Disturbance	1	LS		$ 500.00	$ 500.00	$ -	$ -	$ -	$ -	$ -	$ 500.00
		SUBTOTAL					**$ 10,700.00**		**$ 3,284.32**		**$ -**		**$ 13,984.32**
33102	B.	**MONITORING, SAMPLING AND ANALYSIS**											
	06	Confirmation Soil Sampling											
			Analytical Costs	1	LS	$ -	$ -	$ -	$ -	$ -	$ -	$ 1,489.00	$ 1,489.00
		SUBTOTAL					**$ -**		**$ -**		**$ -**		**$ 1,489.00**
33103	C.	**SITE WORK**											
	02	Clearing-Related Activities											
		- Tree removal											
			Cut and Chip Light trees	0.1	ACRE	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,875.00	$ 287.50
			Tree Removal w/ Chain Saws, 4-6" dia.	5	EA	$ -	$ -	$ -	$ -	$ -	$ -	$ 168.00	$ 840.00
			Tree Removal w/ Chain Saws, 8-12" dia.	5	EA	$ -	$ -	$ -	$ -	$ -	$ -	$ 252.00	$ 1,260.00
			Tree Subcontractor Service (Large Tree, including stump)	1	LS	$ -	$ -	$ 10,000.00	$ 10,000.00	$ -	$ -	$ -	$ 10,000.00
		- Stump removal											
			1-1/2 CY Backhoe, 4-6" diam.	5	EA	$ -	$ -	$ -	$ -	$ -	$ -	$ 29.50	$ 147.50
			1-1/2 CY Backhoe, 8-12" diam.	5	EA	$ -	$ -	$ -	$ -	$ -	$ -	$ 80.00	$ 400.00
	03	- Soil Excavation											
		Gross	Light Equipment w/ operator	80	CY	$ -	$ -	$ -	$ -	$ -	$ -	$ 50.15	$ 4,011.73
			1 CY Bucket w/ operator	65	CY	$ -	$ -	$ -	$ -	$ -	$ -	$ 23.04	$ 1,497.60
		By Hand (heavy soil or clay)	Laborer	65	CY	$ -	$ -		$ -	$ -	$ -	$ 100.00	$ 6,500.00
	05	- Fencing											
			Installing as Temporary	300	LF	$ -	$ -	$ -	$ -	$ -	$ -	$ 7.80	$ 2,340.00
			Removal of Temporary Fencing	300	LF	$ -	$ -	$ -	$ -	$ -	$ -	$ 7.45	$ 2,235.00
			Fence Material Allowance	1	LS	$ -	$ -	$ -	$ -	$ -	$ -	$ 2,000.00	$ 2,000.00
			Reinstall Fence (Labor Only)	300	LF	$ -	$ -	$ 6.25	$ 1,875.00	$ -	$ -	$ -	$ 1,875.00

Table B-2 Detailed Cost Estimate

Soils Contaminated with Arsenic
(Excavation and Disposal - Hazardous Landfill, 7 Grids)
Spring Valley OU-4 and OU-5 EECA

Cost Item						Bare Costs							
						Materials		Labor		Equipment		Cost Including O&P	
WBS	Task & Subtask	Item	Quantity	Units		$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal
	90	Surveying		1	DAY	$ -	$ -	$ -	$ -	$ -	$ -	$ 625.00	$ 625.00
	91	Miscellaneous Expenses	Per Diem	10	M/DAY	$ -	$ -	$ -	$ -	$ -	$ -	$ 200.00	$ 2,000.00
			Portable Water Tank	5	DAY	$ -	$ -	$ -	$ -	$ -	$ -	$ 95.50	$ 477.50
			SUBTOTAL				**$ -**		**$ 11,875.00**		**$ -**		**$ 36,496.83**
33105	**D.**	**EROSION AND SEDIMENT CONTROL**											
	13		Jute Fence	325	SY	$ -	$ -	$ -	$ -	$ -	$ -	$ 1.21	$ 393.25
			Silt Fence	400	LF	$ -	$ -	$ -	$ -	$ -	$ -	$ 0.73	$ 292.00
			Hay Bales	250	LF	$ -	$ -	$ -	$ -	$ -	$ -	$ 2.00	$ 500.00
			Remove Hay Bales	1	TON	$ -	$ -	$ -	$ -	$ -	$ -	$ 385.00	$ 385.00
			SUBTOTAL				**$ -**		**$ -**		**$ -**		**$ 1,570.25**
33301	**E.**	**SUPERVISION AND ADMINISTRATION**											
			Construction Manager	28	hr	$ -	$ -	$ 85.80	$ 2,402.40	$ -	$ -	$ -	$ 2,402.40
			SSHO	28	hr	$ -	$ -	$ 80.60	$ 2,256.80	$ -	$ -	$ -	$ 2,256.80
			UXO Technician	28	hr	$ -	$ -	$ 65.00	$ 1,820.00	$ -	$ -	$ -	$ 1,820.00
			Per Diem	10	M/DAY	$ -	$ -	$ -	$ -	$ -	$ -	$ 200.00	$ 2,000.00
			SUBTOTAL				**$ -**		**$ 6,479.20**		**$ -**		**$ 8,479.20**
33119	**F.**	**DISPOSAL**											
	21	Hauling From Site for Treatment		315	tons	$ 25.00	$ 7,875.00	$ -	$ -	$ -	$ -	$ -	$ 7,875.00
	22	Hazardous Soil Disposal		315	tons	$ 125.00	$ 39,375.00	$ -	$ -	$ -	$ -	$ -	$ 39,375.00
			SUBTOTAL				**$ 47,250.00**		**$ -**		**$ -**		**$ 47,250.00**
33120	**G.**	**SITE RESTORATION**											
	01	Earthwork											
		- Backfill	Material Only	273	LCY	$ -	$ -		$ -	$ -	$ -	$ 10.00	$ 2,730.00
		Gross	2-1/2 CY Loader w/ Operator	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 2.39	$ 217.49
			Dozer w/ Operator	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 2.87	$ 261.17
		By Hand	Laborer	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 22.50	$ 2,047.50
		- Compaction											
		Gross	Air Tamp. W/ Operator	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 8.30	$ 755.30
			Vibratory Plate w/ Operator	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 5.75	$ 523.25
		By Hand	6" Layers	91	LCY	$ -	$ -		$ -	$ -	$ -	$ 13.10	$ 1,192.10

Table B-2 Detailed Cost Estimate
Soils Contaminated with Arsenic
(Excavation and Disposal - Hazardous Landfill, 7 Grids)
Spring Valley OU-4 and OU-5 EECA

Cost Item						Bare Costs							
					Materials		Labor		Equipment		Cost Including O&P	
WBS	Task & Subtask	Item	Quantity	Units	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal
04	Revegetation and Planting											
	- Seeding and Sodding	Area of Approx. 2800 sf	1	LS	$ -	$ -		$ -	$ -	$ -	$ 1,200.00	$ 1,200.00
	- Landscape Restoration	Replace existing landscaping and features	1	LS	$ -	$ -		$ -	$ -	$ -	$ 25,000.00	$ 25,000.00
		SUBTOTAL				**$ -**		**$ -**		**$ -**		**$ 33,926.81**
33121	**H.**	**DEMOBILIZATION**										
		Demobilization	1	LS	LS	$ -	$ -	$ -	$ -	$ -	$ 2,000.00	$ 2,000.00
		SUBTOTAL				**$ -**		**$ -**		**$ -**		**$ 2,000.00**
33222	**I.**	**OTHER REQUIREMENTS**										
	90	POST REMEDIATION ACTIVITIES										
		-Closure Report										
		Senior Engineer	8	hr	$ -	$ -	$ 149.50	$ 1,196.00	$ -	$ -	$ -	$ 1,196.00
		Engineer	12	hr	$ -	$ -	$ 88.40	$ 1,060.80	$ -	$ -	$ -	$ 1,060.80
		CADD Operator	8	hr	$ -	$ -	$ 68.90	$ 551.20	$ -	$ -	$ -	$ 551.20
		Admin Aide	8	hr	$ -	$ -	$ 59.54	$ 476.32	$ -	$ -	$ -	$ 476.32
		Publication/Reproduction	10	per	$ 20.00	$ 200.00	$ -	$ -	$ -	$ -	$ -	$ 200.00
		SUBTOTAL				**$ -**		**$ 3,284.32**		**$ -**		**$ 3,484.32**

TOTAL COST SUMMARY

	Task	Total per Task
A.	MOBILIZATION AND PREPARATORY WORK	$13,984
B.	MONITORING, SAMPLING AND ANALYSIS	$1,489
C.	SITE WORK	$36,497
D.	EROSION AND SEDIMENT CONTROL	$1,570
E.	SUPERVISION AND ADMINISTRATION	$8,479
F.	DISPOSAL	$47,250
G.	SITE RESTORATION	$33,927
H.	DEMOBILIZATION	$2,000
I.	OTHER REQUIREMENTS	$3,484
	SUB-TOTAL	**$148,681**
	Contingency based on tasks C, D, F, G, H (10%)	$9,295
	Project Management based on Tasks C, D, F, G, H (5%)	$4,648
	Remedial Design based on Tasks C, D, F, G, H (10%)	$9,295
	TOTAL	**$171,919**

Per Grid Cost (30 CY)	Per Ton Cost (45 tons/grid)
$24,560	**$546**

Table B-2 Detailed Cost Estimate

Soils Contaminated with Arsenic
(Excavation and Disposal - Hazardous Landfill, 7 Grids)
Spring Valley OU-4 and OU-5 EECA

Cost Item					Bare Costs							
					Materials		Labor		Equipment		Cost Including O&P	
WBS	Task & Subtask	Item	Quantity	Units	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal	$/Unit	Subtotal

KEY - ASSUMPTIONS

O&P = Overhead and Profit

COST ESTIMATE REFLECTS AN AVERAGE SITE WITH **7 GRIDS REQUIRING REMOVAL.**
Note that based on sampling to date, it is anticipated that approximately 800 total grids will require removal.

A.	MOBILIZATION AND PREPARATORY WORK	-Assumed Draft and Final versions of Remediation Work Plan would be prepared. -Assumed electronic versions of existing site drawings will be adequate to produce excavation plans (I.e., additional surveying/creation of new base maps will not be required for planning). -Assumed existing health and safety documents would apply (I.e., no new health and safety submittals included). -Assumed existing quality assurance project plan would apply. -Permitting assumed fee based on amount of land disturbance. Includes application preparation time.
B.	MONITORING, SAMPLING, AND ANALYSIS	-Assumed 7 samples (1 confirmation sample per grid) analyzed for total arsenic ($65/sample) plus TCLP disposal characterization sample ($1,034). -Assumes each grid will meet the remedial objective at the initial excavation depth of 2 feet.
C.	SITE WORK	-Assumes a 1.5 factor for the soil conversion of CY to TON. -Assumes extent of soil contamination has been determined. -Assuming 30% of work can be done with "heavy" equipment, 40% with "light" equipment, and 30% of work done by hand. -Clearing: Up to 12" trees with manageable heights - remove with chain saws and stump removal equipment. 12" trees and larger, and any trees close to the houses, etc. - Utilize tree subcontractior to remove. The number of trees to remove is approximated as (5) 4-6" diameter, (5) 8-12" diameter per 7 grids excavated.
E.	SUPERVISION AND ADMINISTRATION	- Assumed that removal actions will occur in sequence (Site Manager, SSHO and UXO Tech. remain on-site from job to job)
F.	DISPOSAL	-Assumes treatment prior to landfill disposal at a non-hazardous facility
G.	SITE RESTORATION	-Assumed 1" topsoil layer and seeding. No other landscaping allowance. -Assumed equal compaction by methods of Air Tamping, Vibratory Plate, and Hand Methods. -Assumed 30% more soil required from backfill to allow for compaction.
I.	OTHER - POST REMEDIATION ACTIVITIES	-Assumed Draft and Final versions of closure report would be prepared. -Assumed closure report would simply describe the activities conducted. -The Closure Report will include the final actual costs of the work.

APPENDIX C

RESPONSIVENESS SUMMARY

RESPONSIVENESS SUMMARY-
COMMENTS AND RESPONSES ON THE

ENGINEERING EVALUATION / COST ANALYSIS FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (JULY 18, 2003 DRAFT-FINAL)

SPRING VALLEY OPERABLE UNITS 4 AND 5
WASHINGTON, D.C.

CONTRACT DAHA90-94-D-0010, TASK ORDER DA01
DERP-FUDS HTRW PROJECT NO. C03DC091802

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Prepared By:

PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VIRGINIA 22030

December 17, 2003

RESPONSIVENESS SUMMARY

THIS DOCUMENT CONTAINS RESPONSES TO COMMENTS ON THE

DRAFT-FINAL SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (JULY 18, 2003)

Comments were received from:

- **Kent Slowinski, RAB Community Member**
- **Dr. Peter deFur, RAB Consultant**
- **DC Department of Health (DCDOH)**
- **American University**
- **J. Michel and Mary Fontaine M. Marcoux, Community Residents**
- **August 5, 2003 Community Meeting Participants**

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
1	**Kent Slowinski**	The Spring Valley soil sampling, upon which the EE/CA is based, is flawed. Contrary to USACE statements, sampling has not been in compliance with EPA's Soil Screening Guidance (SSG). USACE's Spring Valley soil sampling apparently has only a 90% confidence level, whereas EPA's SSG requires a 95% level of confidence as confirmed in USACE's Sampling Plan Rationale (SPR). What does this mean for residents? Why should you be concerned? **RESPONSE**: EPA's Guidance does not require a specific decision error tolerance. The validity of the sampling plan has been clarified previously. The plan was developed in conjunction with, and approved by, the USEPA and DCDOH. Additionally, a briefing of the plan to the RAB was conducted on September 10, 2002; the slides for that briefing are posted on the USACE Spring Valley Project web site: www.nab.usace.army.mil/projects/WashingtonDC/springvalley.htm The RAB Science Task Group and RAB Technical Advisor, Dr. deFur, provided favorable feedback regarding the validity and thoroughness of the sampling scheme at the January 2003 RAB meeting.
2	**Kent Slowinski**	If your neighbor's property has elevated arsenic levels, there is a good chance your property does too. Arsenic contamination doesn't respect property lines. The actual number of properties with elevated arsenic is likely to double due to flaws in the soil sampling plan. The Spring Valley remediation will likely take twice as long, or contaminated properties will not be remediated. One possible solution - USACE resample properties adjacent to properties with elevated arsenic as many residents have requested, and as I recommended in May 2002. **RESPONSE:** The presence of elevated arsenic on any one property does not indicate contamination on the adjacent properties. Arsenic is "chased" across property lines when the perimeter confirmation sampling during the removal effort indicates high arsenic. However, this has had to be done in only a small percentage of the cases, providing further support for the thoroughness of the sampling plan.
3	**Kent Slowinski**	Lewisite should be added as a contaminant of concern. Has anyone contacted the contractors that Mr. Umpleby reports were exposed to Lewisite on his property? Who should? Contractors were also exposed, possibly to Lewisite, at 4825 and 4835 Glenbrook Road, in 1992 and 1996.

No.	NAME	COMMENT AND RESPONSE
		RESPONSE: A contaminant of concern is any compound identified as being present at levels that pose unacceptable risks. Lewisite breakdown products (CVAA and CVAO) have been analyzed for on more than 200 properties throughout the community as part of the Operable Unit 4 and 5 investigations. There have not been any detections of Lewisite breakdown products on the sampled properties, indicating that Lewisite is not a chemical of concern for the broader community. Lewisite has been found in containers recovered from specific burial areas located in the Rockwood Parkway/Glenbrook Road area and in the soil in direct contact with the recovered containers. Lewisite and other materials present at these specific burial areas do present a potential risk to the community and are removed during the burial pit excavations. Risks at these specific locations do not transfer to other locations where lewisite or its breakdown products have not been found. The Lewisite concern expressed by Mr. Umpleby was conveyed to USACE in 2002, and an additional soil sample was collected in his garden area and analyzed for agent breakdown products, including CVAA and CVAO. This sample taken in 2002 was in addition to a soil boring collected from his property in 2001 and analyzed for arsenic and these other parameters. Results from both the soil boring and the additional soil sample taken did not detect any agent breakdown products. Mr. Umpleby raised concerns during the August 5, 2003, community meeting. See additional discussion in the Responses to Comments and Questions for that meeting. USACE is aware of the reported historical exposures at 4825 and 4835 Glenbrook Road. The investigation and removal of any AUES-related contamination at 4825 and 4835 Glenbrook Road is an on-going part of the Spring Valley project.
4	**Kent Slowinski**	Where are the TCLP test results? Are the SPLP and TCLP the same? Major Peloquin said there "wasn't significant leaching of arsenic" in soil removed from AU's intramural field. This suggests there was leaching. Should the arsenic contaminated soil have been taken to King and Queen County Sanitary Landfill, or to a hazardous waste facility? Should state regulators in VA be notified? Where will future contaminated soil be taken for disposal/ treatment? **RESPONSE:** The Toxicity Characteristic Leaching Procedure (TCLP) and the Synthetic Precipitation Leaching Procedure (SPLP) are not the same. The TCLP is performed to provide characterization for disposal. Typically, disposal facilities, including the King and Queen Landfill, base their acceptance of a waste on the TCLP results. For this project, all wastes that are sent off site for disposal are sampled and characterized and sent to the appropriate disposal facility in accordance with the facility's RCRA permit. The waste must meet the facility's

No.	NAME	COMMENT AND RESPONSE
	Response Continued	waste acceptance criteria established by the facility's permit. Furthermore, in accordance with the NCP (40 CFR 300.440), the EPA Offsite Coordinator is notified when "CERCLA waste" is going to be sent off site for disposal to ensure the disposal facility is in compliance with their operating permit. The TCLP results for soils removed from Spring Valley are not presented in the EE/CA because the EE/CA does not address the actual removal of soil. The EE/CA is an analysis of removal alternatives for the site. The EE/CA informs the public on the alternatives and is a part of the public information process that allows the community and regulators to comment on the removal action. All removal actions have been or will be documented in stand-alone reports. Those reports would contain all relevant disposal data, manifests, etc. The SPLP is a leach test that simulates an acid rain environment and is appropriate for a contaminated soil scenario. It helps ascertain whether contamination in the soil is likely to leach into groundwater. The use of the SPLP is specifically discussed in Section 2.5 of the USEPA Soil Screening Guidance.
5	**Kent Slowinski**	The SPLP test data suggests groundwater contamination has already occurred. Has the groundwater in high arsenic level properties been tested? Are there plans to test these areas for arsenic and AUES chemicals? Has the groundwater in these areas been tested, or are there plans to test in these areas for arsenic and AUES chemicals? This groundwater enters homes through flooded basements when groundwater level rises. Should residents be warned? Do you think groundwater contamination has already occurred? Is the Rick Woods burial pit contributing to groundwater contamination? Should MD environmental officials be contacted? Does the Washington Aqueduct (WA) have any groundwater sampling data? Should the WA be part of the FUDS? What is the likelihood of other AUES chemicals detected at burial pits causing groundwater contamination? **RESPONSE:** As indicated in paragraph 1.2.0.2 of the EE/CA, a Spring Valley groundwater investigation is underway, with the initial field phases being implemented in Fiscal Year 2004. It is anticipated that the findings of the groundwater study will answer the other questions posed above. Some groundwater data do exist for the Washington Aqueduct property, and these data are being shared among the partnering agencies, discussed in our monthly partnering meetings, and considered in the development of the upcoming groundwater investigation.
6	**Kent Slowinski**	Prior to remediation, USACE should test properties with elevated arsenic levels for the AUES List of Chemicals if residents have health concerns, or if residents request the sampling. Properties should be resampled upon resident request.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
		RESPONSE: The name of this EE/CA has been changed to better reflect the fact that arsenic is the only contaminant being addressed by the response alternatives presented. USACE's multi-tiered sampling approach for OU-4 and OU-5 has not identified any other chemicals beside arsenic that require soil removal. Sampling at 10 locations (9 properties) for AUES List chemicals did not reveal the presence of any other chemicals requiring attention in this EE/CA. Based on these findings, there is no justification for conducting the proposed sampling upon request on individual properties. USACE is taking action to better understand and address community concerns, where possible, regarding the AUES List and community health issues. Specifically, an AUES List Work Group has been established to address scientific uncertainties associated with the AUES List sampling effort. Minutes and other materials from this multi-stakeholder work group can be found on the Spring Valley Project web site at: www.nab.usace.army.mil/projects/WashingtonDC/springvalley.htm. Regarding community health, USACE continues to have community health discussions with local residents, the Spring Valley RAB, and our partnering agencies. USACE's position and efforts associated with community health concerns were conveyed to the community, the USEPA, and DCDOH in an October 22 memorandum to Mr. Cas Heuer, a copy of which was provided to community RAB members on October 27. A copy of this memo will be available in the Information Repository and the Administrative Record. It can also be obtained by contacting Spring Valley project's community outreach team at **(410) 962-0157.**

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
1.	**Dr. Peter deFur**	The subjects, title and in places sections of the text lead the readers to consider that this EE/CA may do more than simply address the arsenic contamination issues. These need to be corrected. The reader should have no doubt that non-arsenic issues are not addressed in the remediation actions proposed here. **RESPONSE**: The name of this EE/CA has been changed to better reflect the fact that arsenic is the only contaminant being addressed by the response alternatives presented. Although there is significant data presented for the "other selected chemicals", the removal decisions reached in the EE/CA address arsenic in soil only.
2.	**Dr. Peter deFur**	The section on bioavailability is not helpful to the discussion or the presentation. The methods are not presented, and the detailed report only gives some general sense of what was done. The results are not clear, to the point of being ambiguous. Bioavailability studies with which I am familiar are experimental in nature, using test animals or plants to assess the uptake and retention of chemicals in living tissues. This study seems to have been only an assessment of whether arsenic can/will move from soils. I recommend removing the section as written and inserting a brief paragraph stating that some work was conducted and that the results offer little of practical application here. **RESPONSE:** The EE/CA has been revised to present more prominently the fact that the bioavailability study was a limited study. It is correct that these types of studies are experimental in nature, and therefore difficult to derive concrete conclusions from. It is for these reasons that neither the 20 ppm remediation endpoint for arsenic, nor the EE/CA removal alternatives evaluation makes use of the bioavailability data (see paragraph 3.9.2.4). Nevertheless, the USACE feels it is important to describe the many efforts involved in investigating and characterizing the Spring Valley site.
3.	**Dr. Peter deFur**	The EE/CA seeks to accurately portray the extent of the work on the site. The field work has been extensive and still the on-going work reveals new outcomes and unanticipated results. Therefore, the EE/CA needs to make some statement of uncertainty about the sampling and analysis for arsenic. **RESPONSE**: A brief statement of uncertainty inherent in any investigation of this type has been added to Section 3.1. Activity-specific work plans or reports, such as the Technical Memoranda in Volume III, contain more detailed discussions of uncertainties associated with those specific activities.
4.	**Dr. Peter deFur**	Pg. IX; E.1.0.1: "This Document does not evaluate future actions related to non-arsenic compounds." This is an important point that must be highlighted. Note that the title includes "Other Selected Chemicals." The inclusion of this phrase in the title is misleading and should be removed. **RESPONSE**: Please see response to Dr. deFur comment #1.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
5.	**Dr. Peter deFur**	Pg. X; E.2.0.4: "(approximately 91 acres)", "some 577 acres". The text is not clear on acreage. I recommend a table that clarifies the matter of acreage. **RESPONSE**: The acreages are given with qualifying terms because they are derived from the Geographic Information System overlays and not a site-specific survey. These values have been added to Table 3.1.
6.	**Dr. Peter deFur**	Pg. X; E.4.0.1: "The objective of this EE/CA does not include evaluation of future actions related to non-arsenic compounds in soil." Good point and it cannot be highlighted enough. **RESPONSE**: Noted.
7.	**Dr. Peter deFur**	Pg. 1-4; 1.3.0.2: "The area of these three properties was designated as Operable Unit 3 (OU-3). The OU designations and explanation is going to be confusing to the reader who is not familiar with the site. I suggest another table that presents the information in a concise and clear form. **RESPONSE**: The OU designations are clearly shown on Figure 1-2 (the preceding page). A reference directing the reader to this figure has been added.
8.	**Dr. Peter deFur**	Pg. 1-4; 1.3.0.3: "Based on these events, a partnership was formed with the relevant agencies involved in the decision making process. The Spring Valley Partners (Partners), the USACE, USEPA, and DCEHA" Please add that the Partners continue to work cooperatively on cleanup issues and decisions, involving the public through the RAB and public outreach coordinator. **RESPONSE:** This has been added.
9.	**Dr. Peter deFur**	Pg. 2-3; 2.2.3: "Wildlife and Endangered Species" ; section 2.2.3.2 There are other sources of information on this subject. The fact is that this EE/CA has focused on human health for excellent reasons. Federal agencies and DC government both have information on the non-human receptors in the vicinity of the site. The EE/CA must include some statement regarding peregrine falcons and bald eagles, both of which may visit the site, especially considering the proximity of the Potomac River that is home to and feeding grounds for bald eagles. US Fish and Wildlife Service needs to be officially consulted on this subject at the earliest opportunity. **RESPONSE:** This section has been updated with more recent information from the Fish and Wildlife Service to ensure that any potential interaction of the referenced species and the site are reflected. Substantial information of this type that has the potential to impact decisions will be obtained during the follow-on Remedial Investigation.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
10.	**Dr. Peter deFur**	Pg. 2-5, 2-6; 2.4.3.1: "In April 1999, during a USEPA environmental sampling event, a DCEHA representative discovered surface debris located on AU property in the vicinity of the 4801 Glenbrook Road site.", "Soil contaminated with elevated levels of arsenic, lead, and mercury was encountered. Historical evidence suggests that during the operation of the AUES, the SDA was very close to the perimeter fence of the AUES. However, an archaeological review of the items recovered during the excavation concluded that the disposal occurred in the early 1930's. The area was backfilled and closed following the 2001 removal." This paragraph reads as though EPA was conducting some random or routine sampling in the area; such was not the case. EPA was conducting sampling related to AUES contamination and the report should give a more exact description and context. It would be good to place this in geographical context to the active digging in 2003 and beyond. **RESPONSE**: The EE/CA has been clarified to show that the USEPA event was part of the Spring Valley investigation.
11.	**Dr. Peter deFur**	Pg. 3-3; 3.1.3.1; lines 12-14: "The CSA includes all the remaining acreage outside of the CSA (not including the OU-3 and OU-4 area. The CSA is approximately 445 acres. The CSA contains 793 homes and 316 lots (1109 total sites). This passage is another place where acreage and geographic confusion may occur; consider putting this information into the table that I recommended earlier to summarize all of this type of data. **RESPONSE**: At the start of these discussions, the reader is directed to Figure 3-1, which clearly delineates each area discussed. There is a table within this figure as well as Table 3.1 which further details the site counts. Table 3.1 has been revised to include the acreages as well.
12.	**Dr. Peter deFur**	Pg. 3-3; 3.2.1.1; lines 25-27: "In general accordance with the Soil Screening Guidance, each OU-4 and CTA site was divided into four equal areas called quadrants." Lines 34-35: "Samples were collected from the first six inches of surficial soil." Lines 36-38 .?? One of the limitations of the sampling was the shallow soil sampling. There was evidence that the arsenic was surficial; the evidence does include some deeper cores taken at a depth close to the soil surface from 1918, as I read the WMP's and the related documents. That evidence needs to be noted here, or the reader will be left with the impression that deeper soils were ignored. **RESPONSE:** A sentence has been added to the Section 3 Overview, telling the reader that subsurface samples were a significant part of the sampling plan. The commenter's referenced section, 3.2.1, deals only with Quadrant Surface Sampling. Sections 3.2.3, 3.2.4, 3.2.5, Table 3.2, 3.3.2, and Table 3.4, discuss subsurface sampling. More than 4,500 subsurface soil samples were analyzed for arsenic and very few had concentrations greater than 12.6 ppm. The vast majority of arsenic samples greater than 12.6 ppm were in the surface soils.

No.	NAME	COMMENT AND RESPONSE
	Response Continued	Surficial sampling was done intentionally at 0-6 inches to characterize the area of greatest exposure to the residents. It was clearly understood by the USACE that the 1918 horizon would be of greatest interest in terms of reflecting AUES activities, as the subsurface boring rationale discussions indicate. However, the overriding concern was the surficial soil to which human receptors are most exposed.
13.	**Dr. Peter deFur**	Pg. 3-5; 3.2.2.1; lines 5-6: "Samples were collected from the first six inches of surficial soil." 3.2.3.1; line 14: "In general, one subsurface boring was advanced at each site." Lines 17-19: "A direct push Geoprobe contractor was used to obtain the boring samples. To help site the boring, the cut and fill map developed during the 1995 RI was used to determine which areas represent fill material since 1918 levels." 3.2.4.1; line 26: "In general, one subsurface boring was advanced at each site. See note above. Even with all this text on surface soils and deeper borings, the naïve reader is not going to follow this text without a clear introduction. Add an explanation on what the Geoprobe is and does. **RESPONSE**: A brief description of a Geoprobe has been added to inform the reader.
14.	**Dr. Peter deFur**	Pg. 3-9; 3.3.2.3; lines 1-2: "for the subsurface samples, with the exception of portions of the sampling described in sections 3.8 through 3.11 below." 3.4.1; lines 9-11: "The highest surface quadrant arsenic result was 101 mg/kg. The highest subsurface quadrant boring arsenic result was 124 mg/kg. This result was from the 0-1 foot bgs sample from the boring." Line 14: "The AU lots (AU lot 16, 19, 23, and 24)" I am familiar with the results and the sampling and did ot follow this text well. Please put the numbers in a table. **RESPONSE:** These are summary discussions. Although not every result discussed in the text is shown, Table 3.5 does present this summary information. Additionally, there are several figures that present the data in a reader-friendly format. Given that there were approximately 17,000 samples, and that the data from all of them are presented elsewhere in the document (Volumes II and III), a conscious decision was made to not flood the reader with too many results in Volume I.
15.	**Dr. Peter deFur**	Pg. 3-11; 3.4.3.1; Lines 9-12: "one site (4629RP) that did not exceed the arsenic screening level was grid sampled because of proximity to numerous other sites that had arsenic screening level exceedances. A total of 21 OU-4 sites were grid sampled. The highest OU-4 grid sample arsenic result was 498 mg/kg." 3.5.1.1; Lines 25-28?? 3.5.2.1; lines 30-31: OU-5 CTA sample was cyanide. Cyanide was detected in only one of the 101 specialty samples collected in the CTA." This property and the nearby ones are the subject of rather intense interest at present and in the later sections. Please refer to those other sections. **RESPONSE**: Section 4.4, "Extent of Specialty Parameter Detections", is now referenced.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
16.	**Dr. Peter deFur**	Pg. 3-13; 3.6.1.1; lines 5-6: "The highest surface composite sample arsenic result was 202 mg/kg." 3.6.2.1; lines 9-10: "The only specialty parameter detected in an OU-5 CSA sample was cyanide. Cyanide was detected in only four of the 179 specialty samples collected in the CSA." 3.6.3.1; lines 19-21 The issue is that cyanide is an indicator of CWM. But because this EE/CA only deals with the arsenic, these results are not directly on point. The EE/CA would be improved if a note were added that these results will be considered in the further investigations and that the presence of cyanide is not normal at these levels. **RESPONSE**: Section 3 is a presentation of the overall sample program and the results. Section 4, which addresses the nature and extent of contamination, does include these discussions in paragraph 4.4.0.1, which concludes that the need for further action regarding cyanide (and other chemicals) is being evaluated by the USEPA, DCDOH, and the USACE.
17.	**Dr. Peter deFur**	Pg. 3-16; 3.8.2.3; lines 27-28: "In addition, no organic arsenic compounds were detected in either site or background samples." 3.8.2.4; lines 35-37: "The anthropogenic source of arsenic may be associated with AUES, but it could also be associated with the use of pressure-treated lumber, pesticides, herbicides, coal, or fertilizer." Is there a statement here that the inorganic arsenic is toxic and the organic is not? If not, please add. **RESPONSE**: This section has been clarified to indicate that, according to ATSDR, organic arsenic is usually less harmful than inorganic arsenic.
18.	**Dr. Peter deFur**	Pg. 3-17; 3.9.1.2; lines 10-12: "In March 2001, the three highest arsenic concentrations inside the AU CDC area and the three highest outside the CDC (but within AU Lot 12) were samples for bioavailability. Additionally, six background samples representing the four soil types were collected from the same locations the USEPA sampled." This whole section is a confusing one and does not add to the EE/CA. **RESPONSE**: The referenced sentence has been clarified. This is a summary of the more detailed complete Technical Memorandum contained in Volume III. Lines 10-12 indicate the sample numbers and locations, and are therefore relevant to the discussion.
19.	**Dr. Peter deFur**	Pg. 3-21: It is not clear why paragraphs 3.11.2 were included beyond the statement in 3.11.2.1. The rest seems unnecessary. **RESPONSE**: Even though the EE/CA does not include an evaluation of the results, those referenced paragraphs help the reader to understand the presentation of the results. Some of this information has been changed to reflect recent discussions of the AUES Work Group.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
20.	**Dr. Peter deFur**	Pg. 4-1; 4.2.1.3; Lines 39-40: "The bioavailability study (Section 3.9) suggests that the arsenic bearing phases in Spring Valley soils are mainly iron oxides, manganese oxides, iron arsenic sulfates, or clays. Soil type does not appear to be a major factor in arsenic concentrations as there appeared to be little difference between arsenic concentrations among the four soil types sampled." I suggest deleting this section as written because the bioavailability study was not adequate for the purposes of this assessment. **RESPONSE**: The EE/CA has been revised to present more prominently the fact that the bioavailability study was a limited study. (See response to Dr. deFur's comment #2.) Nevertheless, the USACE feels it is important to describe the many efforts involved in investigating and characterizing the Spring Valley site.
21.	**Dr. Peter deFur**	Pg. 4-4; 4.4.0.1; line 5: "The discussion does not address the AUES List sampling summarized in section 3.11" This paragraph is a summary only, giving some indication of where to look next for AUES chemicals. **RESPONSE**: Noted.
22.	**Dr. Peter deFur**	Pg. 5-1; 5.3: Section 5.3 explains the basis and origin for the 12.6 and 20 ppm levels used in the SV investigation. As such, this point adds much, but might be better off repeated in an earlier section. **RESPONSE:** Earlier references to these numbers are made in the document, and clear references to the more detailed discussion in Section 5.3 have been added.
23.	**Dr. Peter deFur**	Pg. 5-3; 5.5.0.1; line 6: "Groundwater will be addressed in a future investigation." Please give a timeline for this work. **RESPONSE:** A general statement has been added indicating that planning and discussion of the groundwater investigation has already begun and that fieldwork is expected to be initiated in the Spring of 2004.
24.	**Dr. Peter deFur**	Pg. 6-1; 6.3.0.1; line 23: "All grids containing a sample greater than 20 mg/kg of arsenic were identified for removal action." **RESPONSE**: Noted.
25.	**Dr. Peter deFur**	Pg.7-4; 7.2.0.2; lines 11-13: "The four subcriteria are: Compliance with Applicable or Relevant and Appropriate Requirements (ARARs); Long-Term Effectiveness; Reduction of Toxicity, Mobility, or Volume through Treatment; and Short-Term Effectiveness." **RESPONSE**: Noted.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
26.	**Dr. Peter deFur**	Pg. 7-7; 7.3.2.5.5; line 12: "PARAG Nos. OFF FROM HERE ON" Delete this comment in the text- it is a typo. **RESPONSE**: This has been deleted.
27.	**Dr. Peter deFur**	Pg. 7-10; 7.62; Line 34-35: "This alternative provides limited effectiveness and could be difficult to implement. However, individual residents may prefer this alternative to other removal alternatives that would require potentially extensive land disturbing activities on their property. Therefore, this alternative will be further evaluated." The COE is doing all they can to accommodate resident wishes, but the text can and should be more clear that this alternative will leave the contaminated soils in place in a residential area where there is no way to guarantee the public safety. **RESPONSE**: This has been clarified.
28.	**Dr. Peter deFur**	Pg. 7-14; Outcome: "This alternative is both effective and implementable. It will be retained for further evaluation." Good. **RESPONSE**: Noted.
29.	**Dr. Peter deFur**	Pg. 9-1; 9.1.0.1; lines 8-9: "Based on the evaluations presented in Sections 7 and 8, the recommended alternative is excavation and landfill disposal." 9.1.0.2; Lines 15-16: "Soil will initially be excavated to a depth of two feet below ground surface in these areas. I agree with the recommendations. **RESPONSE:** Noted.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
1.	**DC Department of Health (DCDOH)**	1) ACRONYM LIST page vii. Add to mg/kg definition, (parts per million) **RESPONSE**: This has been added.
2.	**DCDOH**	2) Par. E.2.0.1 page ix. Third sentence, after, "During a 1997 review of the 1995 RI (USACE 1998),"add "…resulting from a District of Columbia Environmental Health Administration Report, ". Change third sentence from, "…(POI) No. 24 was actually located in the vicinity of 4801 Glenbrook Road…" to "…(POI) 24 was believed to be located in the vicinity of 4801 Glenbrook Road…" Add at end of paragraph a listing of principle finds at 4801 Glenbrook. (i.e. 175 bottles, 200 shells, etc.) **RESPONSE**: This language has been revised.
3.	**DCDOH**	3) Par. 1.3.0.1. Change fifth sentence from, "…(POI) No. 24 was actually located in the vicinity of 4801 Glenbrook Road…" to "…(POI) 24 was believed to be located in the vicinity of 4801 Glenbrook Road…" **RESPONSE:** This language has been revised.
4.	**DCDOH**	4) Par. 2.1.4.2. Add at end of paragraph, "DCEHA also requests some groundwater sampling in the vicinity of burial sites to make certain that contaminated groundwater is not heading for surface water bodies such as streams and springs. Finally, DCEHA requests groundwater sampling in an effort to locate as yet undiscovered burial areas." **RESPONSE**: The particulars of the groundwater investigation that is planned for 2004 will be developed with input from the USEPA, DCDOH, and the USACE, and presented to the RAB for further discussion.
5.	**DCDOH**	5) Par. 2.4.1.2 Add prior to last sentence, "Mustard was identified in one bunker drain line." **RESPONSE**: As put forth in the Final Remedial Investigation Report for the Spaulding and Captain Rankin Areas (June 1996), Sections 6.5.1 and 6.5.2, it is the USACE position that these were false positive results. The EE/CA has been changed to reflect this.
6.	**DCDOH**	6) Par. 2.4.2.1 Change, "However, POI 24 was actually located…" to "However, POI 24 was believed in 1997 to be located…" (Note EPIC and DCDOH now believe POI 24 to be located on 4825 Glenbrook Road). **RESPONSE**: The exact location of POI 24 is still in question. Two burial pits were found on the 4801 Glenbrook Road property, and an additional burial pit has been found straddling the property line between 4801 and 4825 Glenbrook Road. Either of these locations could be POI 24. Additional investigation of this latter pit is ongoing. The EE/CA has been revised to reflect these facts.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE**
7.	**DCDOH**	7) Figure 3-3. Excellent aid. Suggest adding, " > 12.6 ppm to definition of blue block. **RESPONSE**: Figure 3-3 has been revised to indicate that a site needed to exceed the 12.6 ppm arsenic screen in order to be grid sampled.
8.	**DCDOH**	8) Figure 4-1. Excellent aid. DOH believes that the definition of blue block is incorrect as that broad definition should cover all of Spring Valley. Suggest 12.6 to 20 ppm. Should include arsenic readings for 4801, 4825 and 4835 Glenbrook Road properties. Should add a fifth color for arsenic levels over 400 ppm. Yellow block on AU campus behind Krieger Hall should be blue (or the fifth color) for arsenic reading for small disposal area (i.e. 3350 ppm) and 2450 at nearby excavation. **RESPONSE**: The color scheme is based on the grid results, not the quadrant/half screen results. Since some of the grid sites contained grids with concentrations lower than 12.6 ppm, the definition of the blue block is correct. No decisions were made based on the concentration of 400 ppm that were not made for the sites exceeding 150 ppm. Therefore, to keep the figure readable and user friendly, a fifth color was not used. This figure is presenting the grid results, a very specific set of data. It does not include every arsenic sample collected, and therefore does not include the SDA or other excavation results. To ensure that the reader realizes that those other areas of high arsenic were not ignored, a statement has been added to acknowledge these other areas and other significant sample results.
9.	**DCDOH**	9) Figure 4-2. Excellent aid. Should cover all of current FUDS boundary. Should cover all sample results for the two constituents (possibly using a different color for other sampling efforts). (i.e. thiodiglycol reading on 4625 Rockwood Parkway and 52nd court trench from CBDA sampling. Cyanide reading at Sedgwick trench). Also recheck Corey Place data. **RESPONSE**: Generally, data presented in figures in this EE/CA reflect activities performed for the EE/CA. Data from other past sampling events are not shown, to ensure the document does not deviate from its express purpose and objectives. Specifically, Figure 4.2 is described in Section 4.4 as one that presents the EE/CA sampling results <u>other than the AUES list</u>. The 4625 Rockwood thiodiglycol detection was from the AUES List sampling. Those results will be assessed in detail in another document. No data regarding any non-arsenic detection at a Corey Place residence could be found.
10.	**DCDOH**	10) Par. 5.3.0.2 Add at end. "20 mg/kg is also the cleanup value chosen by the greatest number of states." **RESPONSE**: Language to this effect has been added.

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No.	**NAME**	**COMMENT AND RESPONSE**
11.	**DCDOH**	11) Par. 7.1.3.4 Add at end. "However, DCDOH has suggested consideration of this alternative at two sites in order to save large trees." **RESPONSE**: The EE/CA has been changed to make clear that the phytoremediation alternative is not available at this time. However, it is acknowledged that the USACE is completing a greenhouse and feasibility study of this technology to determine whether this can be an effective alternative at Spring Valley.
12.	**DCDOH**	12) Par. 7.3.2.2 After, "Only state standards that are more stringent than the federal requirements may be considered ARARs." Add "DC Code § 8-1301 et seq. applies to disposal sites where hazardous waste may enter the environment." **RESPONSE**: Paragraph 7.3.2.2 does not cite particular regulations, but rather is a general description of ARARs. Paragraph 7.3.2.3.1 of the EE/CA has been changed to add a reference to the DC regulation that applies to disposal sites, and to further note that it was found not to be applicable or relevant and appropriate in setting the cleanup level for arsenic in soil.
13.	**DCDOH**	13) Volume II Sampling Results and Data Validation Arsenic Grid Results Site Grid Map Suggest adding, " > 12.6 ppm to definition of blue block. **RESPONSE**: The EE/CA has been revised to make clear that a site needed to exceed the 12.6 ppm arsenic screening level in order to be grid sampled.
14.	**DCDOH**	14) Volume III AUES List-Selected OU-4 Residences. This section should include the DCDOH Comments. **RESPONSE**: The DCDOH comments have been added, along with the USACE responses to those comments.
15.	**DCDOH**	15) AUES List-Sedgwick Trench. The use of a metals background column is inappropriate. DCDOH has previously rejected the background sampling because it was conducted on sites influenced by AUES activities. It was for that reason that a new arsenic background sampling was performed. Other metals background has not been determined. **RESPONSE**: The background sampling events performed by EPA (1993/1994 and 1999), which covered arsenic and other metals, were discussed at numerous Partner meetings, and consensus was reached on using these data. (Note: Section 3.7.2 of Volume I gives more detail on these events and how the data are used).

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
No.	**NAME**	**COMMENT AND RESPONSE:**
1.	**American University**	American University reviewed the EE/CA and asked that various experts working with the University also review the EE/CA to ensure that the procedures and proposals for the OU 4,5 areas meet the applicable regulatory standards. The EE/CA contains partial results of ACOE investigations on the American University (AU) campus and associated AU-properties along with recommendations for remediation. It is our understanding that the EE/CA was conducted under the authority of CERCLA, especially Subpart E "Hazardous Substance Response" and Subpart I "Administrative Record for Selection of Response Action". Based on our review, AU's comments on the EE/CA are as follows: General Comments In general, AU believes that the EE/CA does not conform to EPA guidance, presents an incomplete picture of potential environmental hazards in OU 4,5, is inadequate to support the selected remedy, and, in some cases, is scientifically inaccurate. **RESPONSE:** Noted. Please see responses to individual comments, below.
2.	**American University**	The EPA has published guidance for conducting non-time removal actions under CERCLA Guidance on Conducting Non-Time-Critical Removal Comments under CERCLA, OSWER Directive 9360.0-32, August 1993. ("Non-TCRA Guidance"). This guidance contains the regulatory requirements for conducting an EE/CA. Based on our review, we believe that there are many instances where the draft EE/CA does not follow this document. For example, a key component of this process is publication of an EE/CA approval memorandum (Non-TCRA Guidance Section 2.2). This document is part of the administrative record and establishes the framework for the EE/CA. There is no evidence that this memorandum was ever published for OU 4,5. **RESPONSE:** The Approval Memorandum has recently been signed and placed in the Administrative Record file for this removal action. It serves an internal administrative function by memorializing the fact that USACE management authorized the undertaking of the EE/CA. The public was long ago put on notice, through public meetings, RAB meetings, the Spring Valley Project web site, and the Spring Valley publication, the Corps'pondent, that the EE/CA was being undertaken.
3.	**American University**	As another example, the Non-TCRA Guidance calls for a streamlined risk evaluation (pp. 29-30). Although the EE/CA contains a section with this title, it only refers to background concentrations of arsenic and is not a risk evaluation in the sense of the Non-TCRA-Guidance. Specifically, the Non-TCRA Guidance requires an "estimate of how and to what extent people might be exposed to these chemicals, and provides an assessment of health effects associated with these chemicals." The EE/CA does not contain any of this

	Comment Continued	information. The EE/CA focuses only on arsenic and only on the chemical portion of the investigation. It is not possible to gain an adequate understanding of OU 4,5 without an evaluation of the full suite of chemicals that were detected at the CDC, Sedgwick Trench area, and other locations. **RESPONSE:** This EE/CA does not evaluate future actions related to non-arsenic compounds. Further, the Guidance states that "the streamlined risk evaluation should focus on the specific problem that the removal action is intended to address" (Section 2.4). Therefore, this EE/CA, in accordance with the Guidance, addresses only arsenic in soil and does not attempt to evaluate risk for any other chemicals encountered. That effort will be completed in the overall RI. To avoid any confusion, the title of the EE/CA has been changed to delete the reference to "Other Selected Chemicals". Regarding the content of a Streamlined Risk Evaluation (SRE), the Guidance makes clear that the lead agency has broad discretion in deciding the SRE's contents, and that it need not include a formal risk assessment. An SRE that identifies only contaminants of concern in the affected media, contaminant concentrations, and the toxicity associated with the chemical can be sufficient to justify taking an action." Non-TCRA Guidance at p. 29. The Guidance also states that an "EE/CA is a flexible document tailored to the scope, goals, and objectives of the non-time critical removal action" (Section 2.1), and that "where a NTCRA is one of a series of response actions or where a completed RI will be available....the EE/CA would be similar to a Focused FS, concentrating on the analysis of two or three appropriate alternatives and providing reference to existing information on the nature and extent of contamination and risks" (Section 2.1). See also, Use of Non-Time Critical Removal Authority in Superfund Response Actions, February 14, 2000. Given that other activities, including a groundwater investigation and the evaluation of the AUES List of chemicals (and possibly other chemicals), are scheduled to be completed and compiled in an overarching RI document, the scenario described in the Guidance is applicable.
4.	**American University**	Another glaring omission is the lack of confirmation sampling data from those areas that have already been remediated. We believe that without these data, it is impossible to evaluate conditions site-wide. In addition, the EE/CA does not contain information from the geophysical analysis and subsequent removal of ordnance or chemical weapons materials. Because these materials may have contained arsenic, it is necessary to be able to review both chemical and geophysical results prior to making a final judgment on the completeness of the removal actions. **RESPONSE**: This EE/CA is clear regarding the scope and goals of the removal action. This EE/CA is not intended to document the actual removal actions. This EE/CA is the supporting document for the removal action to be undertaken, not the Time-Critical Removal Actions already completed. The specifics of those removals already completed, including the confirmation sampling results, will be reported in separate

	Response Continued	documents. Similarly, the investigations regarding ordnance are separate actions with separate reports, are not part of this EE/CA, and are therefore not included in this document. It would not be appropriate to include the results of those investigations and/or removals in this document. The ordnance investigations and removals follow soil characterization procedures consistent with decisions made for soil in Spring Valley, i.e., arsenic above 20 ppm will be removed (or, in selected locations up to 43 ppm as approved by the USEPA, DCDOH, and the USACE), and any other detections of other chemicals will be addressed the same as the AUES List sampling. Section 5 of the EE/CA provides additional information regarding support for the arsenic levels referenced above.
5.	**American University**	Our analysis shows that some portions of the EE/CA including the bioavailability, speciation and leaching studies, are of poor scientific quality and their results are over-interpreted. For example the "bioavailability study" is of questionable quality and failed to reliably evaluate the oral bioavailability of arsenic, but is relied on throughout the document to support conclusions. Similarly, the leaching study is scientifically flawed, yet used to support decisions about cleanup levels. Due to these reasons, the EE/CA is inadequate to support the proposed remedy. It is our position that these defects should be corrected before the EE/CA is finalized. **RESPONSE:** The EE/CA has been revised to present more prominently the fact that the scope and results of these studies were limited, and that they were not relied on in making decisions. Neither the 20 ppm remediation endpoint for arsenic nor the EE/CA removal alternatives evaluation was based on results of these studies. Nevertheless, the USACE feels it is important to describe the many efforts involved in investigating and characterizing the Spring Valley site, so discussions of these studies remain in the EE/CA.
6.	**American University**	The EE/CA does not discuss how this investigation and recommendations fit into the overall framework for the site. It is not possible to determine, for example, if remedial action in the CERCLA sense is contemplated following completion of removal action or if a 5-year review process will be implemented. **RESPONSE**: The EE/CA has been revised to explain the larger framework at the very beginning of the document. At this time, an RI documenting the results of the other activities related to hazardous substances, including groundwater investigations and the AUES List evaluation, is planned to integrate all actions taken. The ordnance-related investigations and any removal actions involving ordnance are on a separate track from the hazardous substances activities.
7.	**American University**	Possibly most important, due to the cleanup level itself and the ACOE's application of the cleanup level, we are concerned that there may be substantial residual risk remaining after cleanup. This degree of residual risk is a critical piece of information that should be transmitted to all stakeholders so that the stakeholders can determine if there will be residual liability associated with arsenic remaining on their property. This cannot be determined

	Comment Continued	until the ACOE completes a site-specific risk assessment that uses plausible exposure scenarios to estimate the baseline and residual risk. This may be done with a supplementary document; however, it should be completed prior to finalization of a remedy. **RESPONSE:** As described in the response to comment no. 3 above, the USACE will complete a site-wide RI that will address the existence of residual risks (if any) from arsenic as well as the AUES List of chemicals (and possibly other chemicals). However, the USEPA, DCDOH, and the USACE believe the 20 ppm remediation endpoint will be protective regarding residual risks.
8.	**American University (Specific Comments)**	The ACOE should review the Non-TCRA Guidance document and revise the EE/CA to ensure that all information required by the guidance is contained in the EE/CA. **RESPONSE:** This EE/CA is in compliance with CERCLA and the NCP, and was prepared in accordance with USEPA's Guidance document. All information required by the Guidance is contained in the EE/CA.
9.	**American University**	Section 2.4.3. No evidence is presented to substantiate the allegation that disposal of materials at the SDA occurred in the 1930s. The evidence should be presented or this statement should be removed. **RESPONSE**: The statement has been revised to reflect that items found at the SDA spanned several time periods. Detailed information about all items found in the SDA will be documented in a separate report.
10.	**American University**	Section 2.4.5. The results of the OE/CWM investigations should be presented to give a complete picture of OU 4,5. **RESPONSE:** Please see response to comment no. 4 above.
11.	**American University**	Section 3.8 and Technical Memorandum Arsenic Speciation Study. This material is of limited utility. Basically, all that it shows is that the arsenic on-site is chemically different than the arsenic off-site. The study makes numerous references to sources of arsenic other than AUES chemicals. There is no evidence that pressure-treated lumber, herbicides, pesticides, coal, or fertilizer were the source of arsenic at the site. To the contrary, the chemical signatures found in those samples where complete analyses were performed strongly suggest that these materials were not the source of the arsenic since each of these materials presents a distinct chemical profile, none of which were found at the site. The conclusion "no organic arsenic compounds were detected" is erroneous and should be removed. Only two organic arsenic chemicals were sought in the investigation (MMA, DMA). The investigation did not involve chemical warfare agents containing arsenic (Lewisite, Adamsite, ABPs) or commonly occurring organic arsenic compounds (arsenobetaine, TMA). Because of this, the data are inadequate to support the conclusion. Statements that trivalent arsenic is more toxic than pentavalent arsenic are not relevant to human carcinogenicity, which is the

	Comment Continued	toxicological endpoint of greatest interest. They should be deleted. The blank contained high concentrations of As+3 relative to the samples. Under the "10 times" rule, all the background As+3 results and two of the site results should be rejected. The precision on the lab dupes for As+3 suggests these analyses are unreliable. Finally, there is an insufficient number of samples to support any generalized conclusions from these data. **RESPONSE**: Please see response to no. 5 above. The EE/CA has been revised to emphasize that the speciation study was limited and that its data were not relied on to make any decisions regarding the 20 ppm remediation endpoint or the removal alternatives for arsenic in soil. The "10 times" rule applies to organics, not metals. For metals, the "5 times" rule applies. Even so, these results should have been "B" flagged to indicate the As+3 found in the blank. These are not rejections; the data are usable as qualified. The speciation study report has been revised to show a "JB" qualifier for the affected samples.
12.	**American University**	Section 3.9 and Technical Memorandum Arsenic Bioavailability Study. Our review suggests that this study is of poor scientific quality and is over-interpreted in the EE/CA. The study is actually a bioaccessibility study, not a bioavailability study. A true bioavailability study presents results in vivo or from an in vitro system that simulates in vivo processes. The study presented in the EE/CA does neither. The study states that swine are the best animal model for human bioavailability of arsenic; however, recent work by Roberts clearly shows that primates are the best model. The results are too variable (100% CV) and the number of samples too small to be used with any degree of confidence. The methods used in the analysis have not been published or validated for arsenic; indeed they have only been generally accepted by the scientific and regulatory communities for lead. The ACOE seems to have substantially more confidence in the study methodology and reliability than does their contractor, John Drexler of the University of Colorado. **RESPONSE:** Please see response to no. 5 above. The EE/CA has been revised to emphasize that the bioavailability study was limited in nature and that its data were not relied on to support conclusions or make any decisions regarding the 20 ppm remediation endpoint or the removal alternatives for arsenic in soil. It is precisely because the USACE does not have more confidence in the methodology and reliability than Dr. Drexler has, that the data were not used to make site decisions. Also, where "recent work" post-dates the study presented here, it is impractical to revise or redo the study to reflect each recent development in the field.
13.	**American University**	At the EPA Bioavailability Workshop, April 16-17, 2003, Drexler clearly stated that more work needed to be done before arsenic bioavailabilities can be confidently predicted using any in vitro system Drexler, J.W. "Bioassays: Past and Future". USEPA Bioavailability Workshop. Tampa FL. April 16-17, 2003.. Drexler

	Comment Continued	additionally pointed out that the correlation coefficient r2 for arsenic in vitro compared to EPA swine data was only 0.33 and that the method itself had a CV of 14%. The numerical correlation analyses presented by Drexler graphically show the unreliability of this method. When combined with the variability in the samples, the low precision of the method renders the results too uncertain to use. **RESPONSE:** Please see response to comment no. 12 above.
14.	**American University**	The EE/CA (Section 5.02) states that the most conservative assumption would be to use a bioavailability factor of 50% based on these data. However, given the variability in the data, statistical approaches should be used to study the confidence in the use of any single point estimate derived from these data. The laboratory report contains no information regarding the correspondence (or lack thereof) between Drexler's methods for arsenic analysis and standard EPA methods. There were no data quality objectives stated for this study and inadequate information to assure quality. For example, p. 12 of the Drexler report states that accuracy and precision "will be determined"; however, no results are provided. This study may give a naïve reader the impression that bioavailability has actually been characterized and that human absorption of arsenic from site-soils is reduced. Section 3.9, the technical memorandum, and any references to the bioavailability study should be removed from the report in order to correct this impression. **RESPONSE:** Please see response to comment no. 12 above.
15.	**American University**	Additionally, we would note that AU has asked for this study for at least 2 years. Even though it is dated January 2002, and the underlying laboratory report was dated July 2001, it has not been provided to AU despite frequent requests. **RESPONSE:** These results were discussed at various Partner meetings in the late 2001 timeframe, at which an AU representative was present. Nevertheless, the USACE regrets that this report, which is included in Volume III of this EE/CA, was not forwarded to AU in a timely fashion.
16.	**American University**	Section 3.10 and Technical Memorandum Synthetic Precipitation Leaching Procedure (SPLP) Arsenic Sampling. It is our opinion that this study contains an inadequate number of samples to be used in decision making; only seven samples had SPLP concentrations that were detectable. Further the study was biased toward samples that were likely to yield low SPLP results. The detection limits were too high for this study to be of use. Several samples had detection limits of 50 µg/L which is five times higher than the proposed arsenic drinking water MCL. When all the data are considered, there is a poor correlation between total arsenic and SPLP arsenic. Inputting an additional variable to correct for the detection limit problem, a re-calculated adjusted r2 is 0.28, which is too low to be sufficiently reliable for prediction purposes. Neither this

	Comment Continued	regression analysis nor the analyses presented in the EE/CA appear to be statistically significant at p=0.5 level, although we were not able to precisely replicate the analyses in the EE/CA. **RESPONSE**: 46 samples were analyzed for SPLP arsenic. The fact that only 7 contained detections of SPLP arsenic does not mean the non-detects are not relevant to a study of leachability. It has been clarified in the EE/CA that the SPLP results were not relied upon to derive the 20 ppm remediation level and that the upcoming groundwater investigation will provide additional information concerning whether arsenic has leached to the groundwater. The locations were not biased to low arsenic areas: the 4801 Glenbrook samples were collected from areas where arsenic was expected to be high; the CDC samples were actually biased high as explained in Section 3.10.1.2. There was no detection limit problem. The 3.2 ug/L value should not have been shown for non-detects on the table. The 50 ug/L value should have been shown for all non-detects. 3.2 ug/L is the Instrument Detection Limit (IDL) and 50 ug/L is the Practical Quantitation Limit. The IDL is typically set well below the PQL. In accordance with USEPA Region III guidance for data validation, any detection between 3.2 and 50 ug/L would be reported (J-flagged as estimated; the J qualifier has been added where appropriate). This has been corrected in the table.
17.	**American University**	The main reasons for the lack of correlation are the non-normality of the data, censoring of the data, and small number of data points. Regardless, and even using the best case from the EE/CA (where the highest data point is arbitrarily excluded), the 95% confidence limit on the regression line shows that an arsenic residual in the soil of 20 mg/kg will result in leachate concentrations exceeding the new MCL for arsenic. The discussion on page 7 of the Technical Memorandum is obsolete and should be revised to reflect the current regulatory position regarding arsenic in drinking water. Due to the uncertainties in this study, it cannot be used to support conclusions regarding leachability. This underscores the need for a groundwater study prior to implementing a final remedy. **RESPONSE:** The USACE agrees that a groundwater study is needed before implementation of the final remedy at Spring Valley. As is stated in the EE/CA, follow-on groundwater studies will be performed to provide more detailed information regarding this issue. The groundwater investigation will evaluate all exposure pathways, even though groundwater is not used as a drinking water source in this area. The USACE believes that the regression line shown is correct. Using this line, the data suggest that arsenic in soil of up to 56 mg/kg will not exceeed the MCL of 10 ug/L. The discussion on page 7 clearly addresses the former MCL (50 ug/L) and the new MCL.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
18.	**American University**	Section 3.11.2.1. We are not clear on how is it possible to propose and evaluate a remedy when these data are not available? They could have a substantial impact on remedial decision making. **RESPONSE:** The removal action this EE/CA covers is only for arsenic in soil. The AUES List data are being evaluated in a separate action that will ultimately be incorporated into the characterization of the entire site, which will form the basis for the remedial action.
19.	**American University**	Section 3.22.2.3. What is the rationale for using chloride as a surrogate for chlorate? **RESPONSE:** Based on recent discussions regarding evaluation of the AUES List chemicals, the indicator compound procedure is no longer expected to be used to understand these results. The EE/CA has been revised to capture as many of these procedural changes as possible.
20.	**American University**	Section 4.2.1.1. Arsenic has an "atomic weight", not a "molecular weight". The conventional units are g/mol. What is the significance of the specific gravity of atomic arsenic? **RESPONSE:** This error has been corrected. The specific gravity of atomic arsenic is presented as part of a general background discussion of the nature and properties of arsenic.
21.	**American University**	Section 4.2.1.2. We believe that this discussion is overly simplistic. There are complexes of pentavalent arsenic that are highly mobile and complexes of trivalent arsenic that are virtually immobile. Arsenic can also behave as a cation or a covalent organoarsenical in addition to being a component of oxyanions. The ACOE should use a geochemical model (such as MINTEQ) to more precisely define the arsenic speciation and mobility. A demonstration of low mobility is of critical importance to AU. It is our recommendation that the ACOE perform additional leaching tests and combine the leaching results with predictions of a geochemical model to yield a site-specific evaluation of arsenic mobility. **RESPONSE:** Geochemical modeling to supplement the existing leachate testing is not necessary to move forward with removals based on arsenic. The upcoming USACE groundwater investigation will examine the mobility of arsenic and other chemicals that could impact groundwater in the Spring Valley area. Also, please see response to comment no. 17 above.
22.	**American University**	Section 4.2.1.3. The conclusions about alternative sources are unsubstantiated and should be deleted. The conclusions about arsenic mineralogy are not supported by data in the bioavailability report and should be revised. **RESPONSE:** The section does not conclude that these alternatives sources are responsible for areas of high arsenic in Spring Valley. The mineralogy discussion is merely what the data suggest in the limited study; no conclusions or site decisions were based on this information.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
23.	**American University**	Section 4.3.3. The conclusions in this section are unfounded due to the lack of reliability of the SPLP data and should be revised or deleted. **RESPONSE:** Please see response to comment no. 16 above.
24.	**American University**	Section 4.4. Further sampling for cyanide and/or ABPs should be conducted after consultation with all stakeholders, not just the USEPA and DCEHA. **RESPONSE:** Section 2.4 has been revised to clarify that these decisions will be made following discussions with all stakeholders.
25.	**American University**	Section 5. AU feels this entire section is inadequate and must be substantially revised. CERCLA (40 CFR § 300.410) requires an assessment by ATSDR or other sources of the threat to public health. One of the factors to be considered is actual or potential exposure to nearby human populations, animals, or the food chain from hazardous substances (40 CFR § 300.415). The standard method for making these determinations is through a risk assessment. **RESPONSE:** The regulation at 40 CFR § 300.410 does not require the assessment asserted. That section concerns the preliminary assessment of a site suspected of containing hazardous substances. A CERCLA preliminary assessment may, but is not required to, include an ATSDR or other assessment, for the purpose of deciding whether to undertake an EE/CA. While the regulation at 40 CFR § 300.415 mentions the food chain in a list of factors to consider in determining whether a removal action is an appropriate response, neither of these sections can be interpreted to mean that a risk assessment is required in the EE/CA.
26.	**American University**	The Non-TCRA Guidance contains explicit requirements for conducting the streamlined risk evaluation that is a component of the EE/CA. It specifically requires using "sampling data from the site to identify the chemicals of concern, provides an estimate of how and to what extent people might be exposed to these chemicals, and provides an estimate of the health effects associated with these chemicals". It further references EPA's Risk Assessment Guidance for Superfund for guidance in conducting risk evaluations. None of this information or analysis is contained in the EE/CA. The EE/CA needs to be revised to yield an estimate of the baseline risk prior to remedial activities. In addition, since substantial quantities of arsenic, a listed hazardous substance, are to be left at the site, the risk assessment should include a calculation of residual risk for the remaining arsenic. It is our recollection that initial discussions between AU and the ACOE led us to the understanding that the ACOE would perform this type of risk assessment using information provided by AU regarding the receptors at the site and their exposure patterns. This was not done, thus the degree of both baseline and residual risk is unknown.

		RESPONSE: Please see response to comment no. 3 above. The EE/CA completed for Operable Unit 3 addressed many of the issues raised in this comment regarding exposure to and health effects of arsenic. Since the exposures for Operable Units 4 and 5 are largely the same as those in Operable Unit 3, conclusions about risk derived from the detailed Human Health Risk Assessment completed as part of the EE/CA for Operable Unit 3 are applicable to Operable Units 4 and 5. The text of Section 5.1.0.1 refers the reader to the Operable Unit 3 EE/CA. The USEPA, DCDOH, and the USACE consider the selected 20 ppm remediation endpoint to be protective of future land uses. The selected remediation level was reviewed by the Mayor's Scientific Advisory Panel. The selected remediation level of 20 ppm is less than the non-cancer goal of 23.5 ppm and is within the EPA's cancer risk management range of 10^{-4} to 10^{-6}. Issues considering potential residual risks were considered when this level was approved and additional testing and modeling is not required to move forward with removals addressing arsenic. Should the follow-on work with the AUES List chemicals or groundwater indicate the possibility of unacceptable risk due to the chemicals, it will be addressed in the final site-wide RI.
27.	**American University**	Section 5.3.0.2. Since the bioavailability study is unreliable, references to bioavailability should be deleted. **RESPONSE:** Please see response to no. 5 above. The EE/CA has been revised to emphasize that the bioavailability study was limited in nature and that its data were not relied on to support conclusions or make any decisions regarding the 20 ppm remediation level or the removal alternatives for arsenic in soil. Nevertheless, the USACE feels it is important to show the numerous efforts attempted to investigate and characterize the Spring Valley site.
28.	**American University**	Section 5.3.0.3. The site-wide cleanup level is 20 mg/kg arsenic. Therefore, all soils exceeding 20 mg/kg must be remediated. Any soil previously remediated to a higher cleanup standard must be revisited and remediated to 20 mg/kg. **RESPONSE:** A variance of up to 43 mg/kg has been approved by the USEPA, the DCDOH, and the USACE for selected locations to accommodate cultural features or access issues. In many places, including on AU property, up to 43 ppm of arsenic in soil has been approved to remain in place to save trees or to address other logistical concerns.
29.	**American University**	Section 5.3.0.4. CERCLA requires consideration of guidance and advisories other than ARARs in making a removal determination (40 CFR § 300.400). This category of criteria is known as "to be considered" or TBCs. The ACOE should present the entire range of TBCs for the site including human health criteria such as RBCs, SSLs, MRLs for both residents and various categories of applicable workers. Groundwater SSLs should also be presented. In addition, the ACOE should determine if TBCs exist for phytotoxicity of arsenic given its history as an herbicide.

		RESPONSE: The EPA regulations advisories or other guidance may be considered for a particular release "as appropriate" (40 CFR 300.400(g)(3)). TBCs may be used when the applicable or relevant and appropriate requirements (ARARs) are not fully protective, so that an acceptable level of risk will be reached; to clarify how particular ARARs should be applied; or to otherwise guide the response action. The use of TBCs is not mandatory. This EE/CA includes a streamlined risk evaluation that takes into account existing information on the nature and extent of contamination and risks, including Human Health Risk Assessments performed in Spring Valley. The USEPA, DCDOH, and the USACE, have determined that consideration of TBCs is not needed in this EE/CA, because the remediation endpoint attains an acceptable level of risk and is considered protective of human health and the environment. This EE/CA concerns arsenic-contaminated soil. Groundwater contamination is being investigated in a separate action, and groundwater concerns will be discussed in the reports coming out of that investigation.
30.	**American University**	Section 5.4, Table 5.1. Support and justification should be provided for "RBCs" or other criteria for those chemicals that do not have dose-response data in EPA's Integrated Risk Information System (IRIS) or an ATSDR toxicity profile. **RESPONSE:** All comparison criteria shown in this table are either EPA-published RBCs or RBCs derived in the 1995 RI (as referenced). Support for the RI-derived values can be found in the 1995 RI. The standard shown for Mustard is the residential Health Based Environmental Screening Level developed by USACHPPM. See the USACHPPM/ORNL Technical Report, March 1999 for additional information regarding justification of this value.
31.	**American University**	Section 5.5. This section should be deleted. The existing SPLP data are too unreliable to support any conclusions. Groundwater should be addressed in a subsequent investigation and incorporated into a final EE/CA. **RESPONSE:** Please see response to comment no. 16 above. The groundwater investigation will be incorporated into a final site-wide RI, not this EE/CA.
32.	**American University**	Section 6.2.0.1. The last sentence of this paragraph is not supported and should be deleted. **RESPONSE:** The sentence has been revised to acknowledge the forthcoming groundwater study that will provide additional data regarding downward migration of arsenic.
33.	**American University**	Section 7.3.3.1. Note that the guidance as listed in this section calls for an evaluation of the magnitude of the residual risk following completion of the removal action. This was not done in the case of any of the proposed alternatives.

		RESPONSE: The Section 7.6 discussions in the EE/CA have been clarified to ensure that "residual risk" has been addressed.
34.	**American University**	Section 7.6.6. We believe that the statement that this alternative would be protective of human health and the environment is not supported by the EE/CA and should be removed. The second sentence states that arsenic will be removed to levels "below the cleanup level", however, elsewhere (e.g. Section 5.3.0.1), the EE/CA states that arsenic above 20 mg/kg will be removed. This contradiction should be investigated and the inconsistencies removed throughout the document. AU's preference is for remediation to levels below 20 mg/kg, not above 20 mg/kg, due to the significant residual risk that will likely remain following remediation. **RESPONSE:** The statement in section 7.6.6 was improperly worded. It has been changed to state that arsenic greater than 20 mg/kg will be removed. The discussion has been further clarified by referencing Section 5.3 which describes that in limited situations, soil containing up to 43 mg/kg arsenic may be left in the root zones of trees or where access and other construction limitations make soil removal difficult or unsafe.

RESPONSES TO COMMENTS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
NO	**NAME**	**COMMENT AND RESPONSE**
1	**J. Michel Marcoux** **Mary Fontaine M. Marcoux**	Because the report shows that our property at 4615 Rodman Street has a substantial number of grids testing for arsenic at over 20 ppm as reported to us by the Corps on February 19, 2002, ... and April 16, 2002,... **we want to know when the Corps will remediate the elevated range of arsenic levels on our property** as we requested the Corps to do over a year and a half ago. See our February 25, 2002, letter to Major Michael D. Peloquin describing our restoration concerns, and Major Peloquin's April 19, 2002, letter to us mentioning a prioritization scheme for elevated arsenic level properties such as ours.... **RESPONSE**: The Marcoux property will be addressed in the first phase of the Non-Time Critical Removal Action that will be initiated early in calendar year 2004. As explained in Major Peloquin's April 19, 2002, letter, the approximately 150 properties having grid sampling results above the 20 ppm cleanup level for arsenic were prioritized. The Time Critical Removal Actions were conducted in 2002-2003 for properties with the highest exposure point concentrations and for properties that had a grid result above 150 parts per million. USACE was not able to address the Marcoux property in either of the Time Critical Removal Actions because arsenic levels on that property did not meet either criterion.
2	**J. Michel Marcoux** **Mary Fontaine M. Marcoux**	We particularly want prompt remediation in order to facilitate sale of our property. Once remediation is complete, we respectfully request the most complete set of comfort or assurance letters to us, from the Corps and the other responsible authorities, regarding remediation effectiveness, to show to potential buyers. **RESPONSE:** USACE, USEPA, and DCDOH, with input from the Spring Valley RAB, have been working on the wording of letters that can be issued to each property owner after the cleanup work is completed.
3	**J. Michel Marcoux** **Mary Fontaine M. Marcoux**	Finally, the Corps' April 16, 2002 letter …confuses us by stating about other chemicals that "your results indicate that none of the other chemicals tested were found at levels greater than what the laboratory's instrumentation can detect" and referring to "review of acceptable levels of chemicals without published RBC's." What are the final results of the testing of our property for chemicals other than arsenic? What are the health consequences of other chemicals present, without regard to detectability by the laboratory's instrumentation? **RESPONSE**: The language regarding 'laboratory instrumentation' is intended to convey that it is scientifically incorrect to say that zero amount of a chemical was detected, or that the chemical was

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NO	**NAME**	**COMMENT AND RESPONSE**
	Response Continued	not present. Detection of any chemical is a function of how well the analytical instrument can 'see'. Using the industry standard analytical equipment and methods for performing these analyses, the most that can technically be said is that the chemical was not present at the level to which the instrument can detect it. This is not significant for the chemicals in question since they all can be 'seen' by the instrument at levels well below their health risk levels. Thus, although it is technically possible that the other chemicals might be present below what the instrument can see (the detection limits), the results do confirm that even if certain chemicals are present, they are not present at levels of concern regarding health impacts. The April 16, 2002 letter stated that some chemicals did not have a published RBC. However, since that time, the US Army Center for Health Promotion and Preventive Medicine (USACHPPM) developed a Health-Based Environmental Screening Level for Mustard, which serves as an indicator of the level of unacceptable health risk for mustard. The USACE can now say that none of the other chemicals (other than arsenic) sampled on the Marcoux property were found at concentrations above their respective health risk levels.

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No.	**NAME**	**COMMENT AND RESPONSE:**
1.	**Umpleby, 49th Street**	I experienced lewisite while digging in my garden. And it came as a surprise to me because of the presentation that I went to on arsenic because I was thinking in terms of a powder or dust in the soil in the form which was arsenic. We went over how do you get it into the body. Well, you have to basically eat the soil. And it didn't accumulate in the body, the body eliminated it. You would have to get a high dosage at one time. And so I came away very unconcerned on the grounds that, well, I'm not accustomed to eating the soil and so there's really not much of a problem. But when I was digging in the yard, I smelled something. I started sneezing. My eyes were burning. And it occurred to me that over near American University the guys that went to the hospital had been digging in the soil. So I went into the house, got on the computer, did a web search on lewisite and read what is available on lewisite. It was very informative. Basically, lewisite is a liquid. It becomes volatile. It turns into a gas and you breathe it. It smells like geraniums. It causes you to sneeze. It burns the eyes. Basically all the symptoms that I had. And then I remembered that I had some guys working in the yard putting in some drainage pipes and they called me the day after and said they really felt bad. There was something wrong with the soil. Well, this was several years ago before all of this stuff came up, and so what could I say? Well, I'm -- I'm sorry, you know, you felt that. I had no idea there was anything wrong with the soil. So, my point would be, anytime you hear the word "arsenic," think "lewisite." Why do they talk about arsenic? Because arsenic is a component of lewisite and you can find arsenic. You can test for arsenic. The data on lewisite is not good, according to the web sites. The data that's available on lewisite has to do with warfare exposures. It does not have to do with long-term deposits in the soil. Lewisite is a non-water soluble liquid. That means water doesn't wash it away. When you get exposed to it is when you disturb the soil and it becomes a gas and you breathe it in. And that's what we're faced with in our yards. And so I would ask that to the extent possible, because I know the data is not there, try to talk about lewisite in addition to arsenic. And it would be helpful to me because that's the way I'm currently thinking because that's what I experienced. **Response to Mr. Umpleby:** Noted. **Follow-up for Responsiveness Summary:** The Lewisite concern expressed by Mr. Umpleby had been conveyed to USACE in 2002 and an additional soil sample had been collected in his garden area and analyzed for agent degradation products, including CVAA and CVAO (Lewisite breakdown products). This sample taken in 2002 was in addition to a soil boring collected from his property in 2001 and analyzed for arsenic and these other parameters. Results from both the soil boring and the additional soil sample taken did not detect any contamination, and the results letter

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No.	**NAME**	**COMMENT AND RESPONSE:**
	Response Continued	was provided to Mr. Umpleby in October 2002. Lastly, it should be noted that some glassware debris was recovered during arsenic soil removal on his property in FY-03, and the site safety officer assessed the items and did not determine them to be chemical warfare materiel. However, in light of recent field procedural deficiencies identified in the Lot 18 After Action Report, USACE is reviewing this glassware recovery to make sure no additional action is required. USACE intends to meet with Mr. Umpleby to make sure he has all relevant information pertaining to past AUES activities and USACE efforts on his property, once he can be reached.
2.	**Audience Member (not identified)**	Could you tell me how you're planning to prioritize the non-time critical properties? **Response to Audience Member by Ed Hughes:** Essentially, what we're using is an established method called the Exposure Point Concentration. And that essentially is more or less the average of all the elevated arsenic grids on a given property. That's averaged and it determines an exposure level. And basically, all the properties -- the 118 properties that require remediation are ranked based on their EPC value. And so, in general, we know based on the EPC ranking of a given house essentially where it's going to fall in the lineup. The properties down on the bottom certainly are going to be in the latter part. The properties up top certainly will be prioritized. We do make certain exceptions based on management reasons. If we go to a property that is high-ranking and the property next to it also needs to be remediated, also needs to be dug, in the interest of efficient use of resources we will also -- we will do that adjacent house at the same time. So sometimes different property owners kind of get lucky in that their neighbor has higher levels and they kind of get bumped up in the ranking. If you would like, certainly, one of the numbers we showed earlier, you can talk to one of our representatives. You can talk to Danielle Stern, you can talk to Ben. He's got the numbers right up here. We can let you know where it looks like your property lies in that ranking. **Follow-up for Responsiveness Summary:** The exposure point concentration (EPC) was used to rank the residential properties for the non-time critical removal action. The EPC is the 95 percent upper confidence level (UCL) on the mean concentration of a property. In accordance with EPA guidance, the 95 percent UCL on the mean concentration is used to examine exposure “because of the uncertainty associated with estimating the true average concentration at a site, the 95 percent upper confidence limit (UCL) of the arithmetic mean should be used for this variable”

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No.	**NAME**	**COMMENT AND RESPONSE:**
	Response Continued	(EPA, 1992). The EPC was calculated using all of the grid results from a property. A detailed description of how to calculate the EPC was provided to the RAB on 9 July 2002. The overheads used for that presentation are available on the project web site. See http://www.nab.usace.army.mil/projects/WashingtonDC/springvalley/Presentations/RAB-9jul02/index.html.
3.	**David Dragnich**	Bore samplings were taken roughly one in, like, a half an acre it looks like. I was wondering, and I didn't see it in your uncertainty analysis, if there was anything that was done to look at the data to interpret what might be the concentrations between those kinds of samples. Particularly, when I looked at the one slide, it showed excavation right up to -- next to a house, which to me said, well, there must have been some contamination there. How about under the house? Were samples -- are there ways that you can by this sample over here and by this sample over here you can statistically look at the uncertainties and infer whether there is something like "kriging" I think is what -- "kriging" of data? Is that considered at all? **Response to David Dragnich by Ed Hughes:** Essentially, you're asking what confidence level do we know that our samples have found the hot spots. You've seen an excavation go up to a house and you're wondering about underneath the house. Certainly the sampling program that we've instituted is in accordance with the EPA guidance for conducting such sampling activities. In fact, some of the professional folks who've reviewed our sampling plan commented that it exceeded the EPA guidance. And in the midst of my presentation I noted a couple areas where there's actually some conservatism built into the process. One of those coming to mind is the fact that the trigger level for additional sampling is 12.6 parts per million, which is below the far end of the background level, which is 18. Essentially, we're investigating a lot of properties that are still within background level, which is one of the ways it is conservative. When a property goes to grid sampling, it's more focused sampling and essentially it's a statistical scenario as to whether or not we pinpoint every single spot. But the good thing with grid sampling is when a property goes to grid, certain assumptions are made. On 20-by-20-foot grids we have a very good chance of finding a large area of contamination. We have a certain statistical chance of missing a small area of

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No.	**NAME**	**COMMENT AND RESPONSE:**
	Response Continued	contamination, but the good thing is it's a smaller chance at missing a smaller area and we stand a greater chance of finding the bigger areas, which pose the bigger risk. So essentially, it does come down to statistics a lot in environmental sampling. What we have noticed is, in all the excavations that we've done so far in the community, is that the elevated arsenic levels essentially do not exist below two to three feet below the ground. So the good thing is we have not had to dig down deeply into the ground. And as far as an excavation up to a house, essentially we dig a 20-by-20-foot grid if the corresponding sample is over 20 parts per million. And that means taking it right up to the house whether or not it needs it or not. So, there are certain levels of conservatism built into the program. We don't claim that we have every single speck of it, but we use every measure of conservative approach to try to make sure that we have the arsenic situation alleviated on a given property and that the overall average of a property is below the level that would trigger a health risk. Tom Bachovchin with Parsons is the contractor who drafted the EE/CA document, and his firm also conducted the site-wide sampling within recent years throughout the neighborhood. And Tom is suggesting that I encourage you to take a look at our large sample map posted on the wall in the back of the auditorium. **Response to David Dragnich by Ted Henry:** I guess the point is that using those types of numbers you can see how we're identifying more properties to do grid sampling that turn out don't need it and very few times are we going into grids that we didn't think had it and actually had arsenic levels of concern. So we tend to be falling to the side of being overly-conservative in the composite to grid sampling approach that we use. **Follow-up for Responsiveness Summary:** When digging grids that required removal, there were very few instances that required excavation laterally into grids not previously identified as containing arsenic over 20 ppm. To provide some additional clarity regarding the conservative nature of the arsenic sampling process, note that while 174 properties required

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No.	**NAME**	**COMMENT AND RESPONSE:**
	Response Continued	grid sampling based on elevated composite results, only 137 were found to need remediation. Additionally, there were very few times during the time critical soil removals where excavation extended into grids or onto properties originally thought to contain only background or normal arsenic levels. For instance, in the tier 1 Time Critical Removal Action addressing 10 properties, only 2 of the 149 grids removed were grids originally thought to be 'clean'. In only 2 of the 149 grids did the contractor have to dig deeper than the 2 feet initially planned. Only once did the contractor have to 'chase' arsenic onto a limited area of an adjacent property where composite sampling did not reveal elevated arsenic. While the above response regarding depth of elevated arsenic was accurate for the TCRA properties, particularly high arsenic concentrations were found below 2-3 feet deep at a few specific locations addressed outside the TCRA, (AU's Child Development Center, 4801 Glenbrook Rd, the SDA). "Kriging" is interpolation or predictive modeling, and an important geostatistical tool. However, it does not work very well where patterns are not clearly discernible, which is the case with arsenic in soil at Spring Valley. Kriging is quite common in groundwater modeling where flow patterns are more predictable.
4.	**Warren Jones**	My property is affected. Will you provide us at the end of this process a letter that documents the fact that you've done this cleanup and that our property is then free of arsenic? **Response to Warren Jones by Gary Schilling:** Yes. There are a couple of different letters that are in the mill right now. There's a letter in the works from the EPA and D.C. Health which are the regulatory groups overseeing this work. The Corps of Engineers also has a letter that we will send out. We have a letter for ordnance work, and you should be getting a letter from the EPA and D.C. Health that has had RAB input -- it has had community input -- once work has been completed to state that we've removed all known arsenic from your property that's above 20 parts per million.
5.	**Lee Monsein**	I was told by a toxicologist that actually is part of the RAB that in his experience working with Region 4 that there was another alternative to arsenic removal that hadn't been mentioned here, and that was something that he termed a point-specific removal.

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No.	**NAME**	**COMMENT AND RESPONSE:**
	Comment Continued	In other words, there was just a solid bore that was removed and sampling was done around the site of the bore. When that was clear of whatever the contaminant was, they consider that adequate removal. He called it, a precedent had been set in this particular example. I just wondered whether you had any information about that? **Response to Lee Monsein by Drew Rak, Mitretek:** I have not heard of the specific Region 4 example that you're talking about. However, given the methods by which most of the CWM and therefore the arsenic would have been released either through static testing or spreading out on the ground, most of the arsenic therefore is spread over significant areas and would not be in discreet point areas where you could perhaps take it out of the ground with a six- or eight-inch boring type of opportunity. But I've made a note to look into it, Region 4 toxicology is rather a small group of people. I'm sure I can find out who it is and find out some more about that particular case. **Follow-up for Responsiveness Summary:** After the meeting, the USACE contacted Dr. Monsein for additional information. He indicated that Naval Air Station (NAS) Jackson, FL should be contacted. USACE contacted the Naval Facilities Command (NAVFAC), Southern Division which is the executing agency for the environmental program at NAS Jackson; however, the staff at NAVFAC did not have information about this alternative. USACE also contacted Mr. Ted Simon, a Toxicologist at EPA Region IV. Mr. Simon presented a risk-based and statistically-based methodology for determining which areas in an exposure unit should be slated for removal. The method only identifies areas that should be removed and does not alter the need for construction equipment to perform the excavation. The identification method is based on removing hot-spots within an exposure unit until the average concentration within the entire unit is equal to or less than a predetermined cleanup goal. This process is described in detail in a forthcoming guidance document that EPA Region IV is drafting on behalf of the agency; however, the internal draft guidance document was not available for review by USACE. The process described by Mr. Simon is similar to the process being implemented by USACE at Spring Valley in that it identifies areas for removal using a statistically-based approach. However, the process used by USACE removes all identified areas with elevated arsenic (>20 mg/kg) and not just some areas. Also, in limited instances, areas of up to 43 mg/kg may be left to save cultural/natural resources (e.g., trees).

RESPONSES TO COMMENTS AND QUESTIONS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*		
	The questions and the responses for this group are taken from the meeting transcripts. Follow-up responses to questions, as applicable, are included for Responsiveness Summary completeness.	
No.	**NAME**	**COMMENT AND RESPONSE:**
6.	**Alex McCrae**	What assurances do we have that the areas closely adjacent to your green map have not been affected by toxic chemicals? And how did you decide on this configuration? What I mean, just for example, how about a couple of blocks north and west of Mass Avenue or north of Van Ness or west or north of whatever the street is there? I guess it would be Yuma. **Response to Alex McCrae by Gary Schilling:** We are looking into that. You asked how the FUDS boundary was delineated. That is a matter of historical record. We had our real estate folks and our historians comb through the records and try to find agreements that would show what areas were used by the Army during that time frame. The partnering group, EPA, D.C. Health, and the Corps of Engineers, have looked at contamination -- the areas that we have tested that have shown arsenic contamination above 20 parts per million. We've looked along the border areas and developed criteria for sampling across the border in areas where the contamination moves up to the border. We have chosen three areas outside of the FUDS boundary that we would like to sample the soil and ensure that those areas have not been affected. We also continue to evaluate information, both historical documents and information that comes from residents both inside and outside of the FUDS boundary. If there is an indication that the activities from the American University Experiment Station affected areas outside of the FUDS boundary, we have a work group -- a task group that's made up, again, of members of EPA, D.C. Health, Corps of Engineers, and the neighborhood's RAB TAPP contractor. And they look at the available information and determine if there is enough information there to investigate that area. A follow-up to this gentleman's question on different alternatives.
7.	**David Dragnich**	I talked to Major Peloquin probably 18 months ago about alternatives. One I was talking about was electrogeochemical remediation. It's a technology that the Corps has employed I believe in some sediment work up in Pennsylvania. And he told me at the time that, oh yeah, we're looking at all these. I was just wondering because that seems like a natural -- if you're considering phytoremediation, this seemed to be much more effective as well as cost effective compared to your chosen alternative, which if I remember in reading was probably the most expensive, the excavation and removal. I was just wondering if that or other alternatives like that. It's referred to as both electrochemical and electrogeochemical.

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No.	**NAME**	**COMMENT AND RESPONSE:**
		Response to David Dragnich by Ed Hughes: I haven't heard about that technology, sir. I can look into that. I would imagine that it would take a period of pilot testing, of application testing here in Spring Valley. And although it may be cheaper if that were to work in the long run, essentially we'd be -- the excavation and removal option, it does appear to be expensive, but taking the time factor into consideration is also something we're real sensitive about. And as I mentioned, in some of the other technologies -- phytoremediation, soil washing, and soil stabilization -- they would require pilot testing. And the time issue is kind of open-ended with those. And I would expect that that would be the -- it's a similar case with that technology, but I can certainly look into that and do an adequate investigation just to see what that's all about. My understanding is that it's on par or less expensive (than soil washing). And throwing the time factor into the equation, given the uncertainty that with soil washing, we'd have to do a pilot study, which is X-amount of time, before anybody gets done. And then at the end of that period, you still have the question as to whether or not it's going to work or not. **Follow-up for Responsiveness Summary:** The EE/CA process is based on the concept that the problem to be addressed, in this case, arsenic in soil, is not uncommon or does not involve many unknowns in terms of the removal methodologies. To that end, USEPA publishes a "Presumptive Remedy for Metals-in-Soil Sites" Guidance document (referenced in the EE/CA). The intent is to streamline remedy selection by narrowing the universe of alternatives to be evaluated. As described in the EE/CA, this Guidance was used to select the remedies evaluated for Spring Valley. The USACE acknowledges that there may be hundreds of other specialized remedies, but typically these have not been validated over a long time period. The specific technology referenced by Mr. Dragnich as electrochemical or electrogeochemical is not contained in the USEPA Presumptive Remedy Guidance. Research indicates that electrochemical remediation is a general term for several different approaches to remediating soil by mobilizing metals with electrical current to electrodes, where they are deposited and removed with the electrodes. This technology

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No.	**NAME**	**COMMENT AND RESPONSE:**
	Response Continued	would likely require pilot testing at each property because it is sensitive to soil type and arsenic species. The research suggests that this technology is still being field tested in the U.S.; that is, it is not one of the standard or presumptive methods for remediating soil and documented success stories may not be readily available.
8.	**Audience Member (Not Identified)**	Back some time ago when we had another meeting you elaborated a little bit more on the soil washing. And if it was just to clean the soil, there would be no advantage at all because, heck, put dirt in from somewhere else is easy as clean the dirt that came out of the hole. But one of the advantages was that it was done in a manual fashion where you could take shovelfuls at a time rather than bring in a backhoe and excavate all at once. And that was one of the advantages of that technology. Let me just add one point to what I said earlier, and that has to do with the neighbors of properties that are being remediated. In other words, if you think that the problem is arsenic in the form of dust and somebody's digging in the yard, that's not much of a problem. But if the problem is lewisite in the form of a chemical which turns into a gas when the soil is disturbed, then when they come in to remediate the property it seems to me that some of that would go up into the air.' Now, they did have these sensors around checking for things while they were digging, but I also advised my neighbors of my theory, which is that you get exposed to it when it comes up into the air. And I urged them to not be around as much as possible during the time that the property is being remediated, at least during the period when they're digging it up. When they're putting the soil back it's okay. And I think that's important. **Response:** Noted. **Follow-up for Responsiveness Summary:** Unless Lewisite is containerized and has only recently leaked, it is highly unlikely to still be present in soil after eight decades. Lewisite hydrolizes (decomposes) rapidly in the presence of moisture (as would be present in soil) and would have broken down to other chemicals long ago. Thus, volatilization of Lewisite in soil is unlikely to occur, unless there is a buried container that is leaking or could leak in the future. The soil removal operations have several layers of safety procedures to ensure that the USACE is prepared to respond and mitigate any possible releases due to buried containers before the public is impacted.

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No.	**NAME**	**COMMENT AND RESPONSE:**
	Response Continued	Because breakdown products of Lewsite might be present, they were included in specific sampling plans conducted during the OU-5 investigation. However, no detections of Lewisite breakdown products were found during these sampling efforts.
9.	**Janet Bohlen**	On the eight sampled properties, you said eight sampled properties in AU were tested for other chemicals, and there were four of those that I know of that do have a lot of other chemicals that were AUES chemicals. And I'm just wondering if you plan to sample other properties having -- that might show up. And if so, how do you plan to deal with it? I mean, if -- remediating for arsenic, will that solve the problem or are we going to worry about these other chemicals at all? **Response to Janet Bohlen by Gary Schilling:** The question is, I referred to the properties that were sampled for the AUES list sampling, the 177 compounds. The question is, are we going to sample any additional properties for those compounds and will remediation for arsenic take care of those compounds? We are at a process here with the AUES-specific compounds that is ongoing. The results from the sampling event have been reported in this EE/CA document. We're going to continue with this study, and if there is activity that's required based on the continuation of this study, it'll have to be undertaken differently from this arsenic removal activity. **Follow-up for Responsiveness Summary:** The AUES List currently contains 177 chemicals or compounds. However, it was not possible to analyze for every compound on the list because no accepted analytical method exists for some of the compounds. Beyond the AUES List, several other sources have been identified regarding chemicals used at the American University Experiment Station. Discussion of these lists and the associated uncertainties can be found in the AUES Work Group minutes available on the project's web site. These various sources of information are considered in planning any additional sampling efforts under the Spring Valley project. Discussions of these issues with the USEPA, DCDOH, and the USACE can be reviewed through Partnership meeting minutes, which are also available on the web site: www.nab.usace.army.mil/projects/WashingtonDC/springvalley.htm

RESPONSES TO COMMENTS AND QUESTIONS ON THE DRAFT-FINAL *SPRING VALLEY EE/CA FOR ARSENIC AND OTHER SELECTED CHEMICALS IN SOIL (July 18, 2003)*

	The questions and the responses for this group are taken from the meeting transcripts. Follow-up responses to questions, as applicable, are included for Responsiveness Summary completeness.	
No.	**NAME**	**COMMENT AND RESPONSE:**
10.	**Kent Slowinski**	I'm a member of the Restoration Advisory Board. I have a question regarding the soil sampling. The AUES list sampling on the four properties detected more than 100 chemicals other than arsenic. If a resident has health concerns or concerns about the adequacy of the soil sampling, how can they get their property tested for the AUES list? Can they go through a private contractor to do that, or what is the process for getting the Army Corps to do the AUES list sampling on their property? **Response to Kent Slowinski by Gary Schilling:** The answer to the second part is, certainly, a resident can hire a private contractor to do whatever sampling they think their property needs. And we, of course, would consider any of that information helpful. The answer to the first question is that we are evaluating the AUES-specific data. We have Army agency and a private contractor evaluating that data to try to determine -- it's basically an operation that borders on research -- to determine how we can tell for sure whether or not the 40 or so compounds without methods are present. Our regulatory partners and the Corps of Engineers will meet and determine what the next steps are in this investigation. This investigation proceeds at a different pace. It's separate from this EE/CA.
11.	**Audience Member (Not Identified)**	Approximately how much does it cost to sample each property for the AUES list? **Response to Audience Member by Gary Schilling:** The question was, what is the cost for the AUES sampling? The analytical costs alone are about $4,000 per sample.
12.	**Audience Member (Not Identified)**	Recently, EPA came out with a new document. Actually, it was March of 2003. It's called the "Framework for Cumulative Risk Assessment." In light of the fact that there are more than 100 chemicals detected on these AUES list sample properties, what's the likelihood of conducting a cumulative risk assessment? **Response to Audience Member by Drew Rak:** The document that you are talking about, the EPA document, was primarily released to help EPA deal with its regulatory programs revolving around food additives and pesticides regulation. It doesn't necessarily affect the cleanup program because we already do cumulative risk assessments.

	The questions and the responses for this group are taken from the meeting transcripts. Follow-up responses to questions, as applicable, are included for Responsiveness Summary completeness.	
No.	**NAME**	**COMMENT AND RESPONSE:**
	Response Continued	For example, in the pesticide regulation program historically EPA would regulate one pesticide at a time, although there may have been more than one pesticide used at a time. In the cleanup program historically, we continue to do this, we look at all of the chemicals that are found and detected. As Ed mentioned during his presentation, we take the EPA's risk-based screening concentrations and we actually divide those by a factor of 10 to account for the multiple effects of non-carcinogenic chemicals, or chemicals that have non-carcinogenic effects. We also keep note while we are going through and looking at chemicals, ones that would have either synergistic or potentiation types of effects. Also, as Ed pointed out, in the EE/CA there is what is called a streamlined risk evaluation that basically supports the removal action. The streamlined risk evaluation does take into account multiple chemical effects. And as Gary has pointed out, the AUES list sampling, that particular aspect of the overall investigation continues, but we found nothing in the AUES list sampling from those four homes or the CDC that would -- Child Development Center at AU -- that would indicate that there is any other problem but the arsenic. But we're continuing to evaluate that data right now.
13	**Lou Saul**	My house was sampled and there was, according to the report, no problem, no difference from other houses in known affected area. But I just now discovered that the house just behind mine and confronting with me was grid tested. And this -- I was not aware of that at all. So, how can -- first, I mean, what are the results -- how can I know the results of that grid testing? And since the house is immediately adjacent to mine, I wonder if my testing is sufficient. **Response to Lou Saul by Gary Schilling:** The answer to the first part of the question, you'll be able to find out what the levels are of the house adjacent to yours in this EE/CA document. If you wish to receive an electronic copy, if you wish to receive a hard copy, it's available. We can get it to you. The information is also on our web site. You can see either Danielle or Ben and get that information. I don't think it's uncommon. And as you look around that map, there are a lot of homes that are singles. They're not all in clusters. I'll have to ask you to keep in mind that a lot of the soil here at Spring Valley has been moved. We've generated cut-and-fill maps, we've generated -- or we have the contour maps from the

	The questions and the responses for this group are taken from the meeting transcripts. Follow-up responses to questions, as applicable, are included for Responsiveness Summary completeness.	
No.	**NAME**	**COMMENT AND RESPONSE:**
	Response Continued	1918 time frame and today, and there's been a good deal of soil removal throughout the neighborhood. There are also, as Ed mentioned in his presentation, many different man-made causes of arsenic in the neighborhood. So, you know, there's certainly no way to tell for sure that your neighbor's arsenic came from the American University Experiment Station activities. The data at your house, the data that was collected at your house was collected in accordance with the EPA procedures and the data has been validated. I think there's a good deal of confidence that the field work and laboratory work done on your property is good.

ENGINEERING EVALUATION / COST ANALYSIS FOR ARSENIC IN SOIL

SPRING VALLEY OPERABLE UNITS 4 and 5
WASHINGTON, D.C.

VOLUME II – SAMPLING RESULTS AND DATA VALIDATION

CONTRACT DAHA90-94-D-0010, TASK ORDER DA01
DERP-FUDS HTRW PROJECT NO. C03DC091802

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Prepared By:

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December 17, 2003

VOLUME II – SAMPLING RESULTS AND DATA VALIDATION

This volume contains:

- Arsenic Quadrant and Half Sampling Results
- Specialty Parameter Sampling Results
- Arsenic Grid Sampling Results
- Data Validation Reports
    - USEPA'S Arsenic Split Sampling Results

- Overview Map (Fold Out in Pouch)

ARSENIC QUADRANT AND HALF SAMPLING RESULTS

ORGANIZATION PAGE

This section contains:

- Organization Page
- Geographical Groupings Map
- Lot Key
- Data Tables

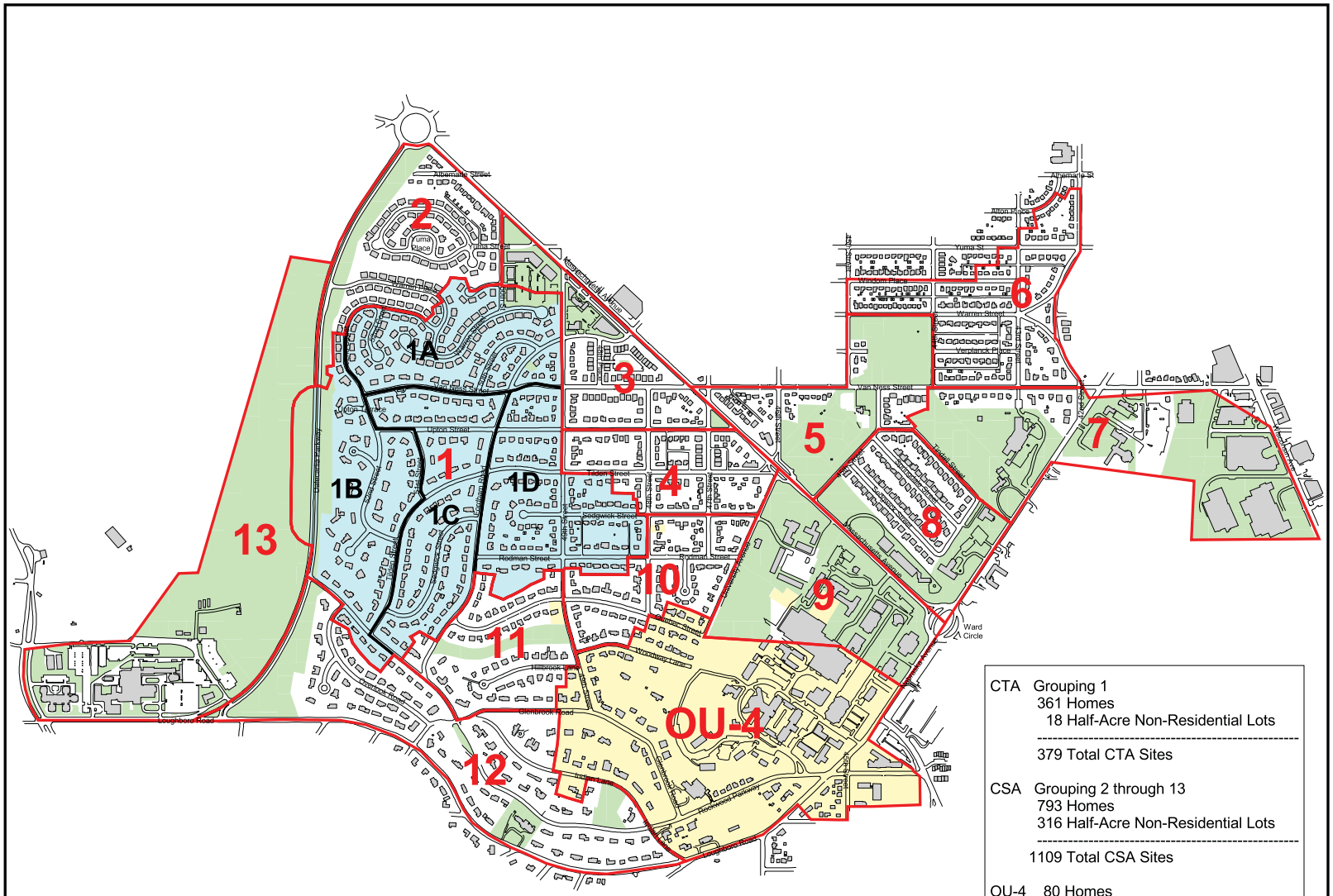
This section presents the validated results of the arsenic screen sampling, surface and subsurface, for Operable Units 4 and 5. This includes quadrant and half sampling activities at all sites (residences and lots) sampled through September 30, 2003. Approximately 93% of all sites in Spring Valley had been sampled through that date. If parameters other than arsenic were sampled, that is indicated on the data tables (specialty boring column). Those data are included in the next section.

The Geographical Groupings map on the next page allows for the general location of a site based on its street address, name, and grouping number. The data tables are ordered numerically by house number. The sample name indicates the location on the map. For example:

OU5-CTA-1C-9999FR is a site within OU-5, Geographical Group 1C, house number 9999, Fordham Road.

For lots (undeveloped areas, parking lots, parks, etc.), a Lot Key is provided at the front of the data tables to locate the site. Similar to the example above, use the sample name/ID to determine the lot ID on the key. The key indicates the street address, owner's name, or property description for the lot. Since some of the lots do not have numerical street addresses, the owner's name or property description was used to alphabetically place the results on the data table.

The specific location of the sites within Spring Valley can be found on the large fold out Overview Map located in the pouch at the back of the binder. Site-specific maps are only included for those sites that exceeded the screening criteria (see arsenic grid section).



CTA Grouping 1
361 Homes
18 Half-Acre Non-Residential Lots
---
379 Total CTA Sites

CSA Grouping 2 through 13
793 Homes
316 Half-Acre Non-Residential Lots

1109 Total CSA Sites

OU-4 80 Homes
34 Half-Acre Non-Residential Lots
---
114 Total OU-4 Sites

Geographical Groupings

Spring Valley Operable Units 4 & 5
Washington D.C.

Legend

- CTA Groupings
- Groupings
- Buildings
- Roads
- Non-Residential Acreage
- CTA
- OU-4

Note:
OU-5 Acreage comprises groupings 1 through 13.

CSA is groupings 2 through 13.

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas. Sampling of these lots will be based on open accessible portions determined in the field.

0 1000 Feet

Scale:	1 : 10,000
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PARSONS

Spring Valley OU-4 and OU-5 Lots Key

Lot ID	Corresponding MAIN table ID	Address [1]	Owner
OU4-3401-L1 & L2	OU4-3401NA	3401 Nebraska Avenue	Metropolitian Methodist Church
OU4-4430-L3 & L4	OU4-4430NS	4430 Newark Street	District of Columbia - Horace Mann School
OU4-AU01 through AU30, AU-KREEG, & AU-WATKN	OU4-4400MA	4400 Massachusetts Avenue	American University
OU5-CTA-1A-L1 & L2	OU5-CTA-1A-4301(50)	4301 50th Street	W C & A N Miller Develop Co
OU5-CTA-1A-L3	OU5-CTA-1A-4915VNSVacant	4915 Vacant Van Ness Street	Jack D. & Irene Neal, Et Al
OU5-CTA-1B-L3 through L17	DC/Nat'l Park Grp 1B	DC/Nat'l Park Dalecarlia Pkwy	DC / National Park Service
OU5-CSA-2-L1 through L11	Dalecarlia Pkwy Lots	DP Lots Grp 2 Dalecarlia Pkwy	DC Right-of-Way
OU5-CSA-3-L2	OU5-CSA-3-L2	Lot 2 Massachusetts Avenue	DC Government
OU5-CSA-3-L3	OU5-CSA-3-4910MA	4910 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-3-L4	OU5-CSA-3-4315(50)	4315 50th Street	W C & A N Miller Develop Co
OU5-CSA-3-L5	OU5-CSA-3-L5	Lot 5 Massachusetts Avenue	DC Government
OU5-CSA-3-L6	OU5-CSA-3-4900MA	4900 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-3-L7	OU5-CSA-3-4860MA	4860 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-3-L8	OU5-CSA-3-4820MA	4820 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-5-L1, L2, L4, L5, L6, L7, L16 through L25, L27 & L28	Friendship Park	Friendship Park 45th Street	DC Department of Recreation And Parks
OU5-CSA-5-L3, L8 through L15, L33, & L34	OU5-CSA-5-Reservoir	Van Ness Res. 45th Street	United States of America - Dept of The Interior
OU5-CSA-5-L26, L30, L31, & L32	OU5-CSA-5-parkc(45)	Park-C 45th Street	United States of America - Dept of The Interior
OU5-CSA-7-L1, L2, L 7, L8, L9, L13, L14, L16, L20, L21, L22, L24, L26, L27	OU5-CSA-7-3900NA	3900 Nebraska Avenue	Royal Swedish Government
OU5-CSA-7-L3 through L6, L10, L11, L12, L15, L17, L18, L19, L23, L25	OU5-CSA-7-4000NA	4000 Nebraska Avenue	Government of Japan
OU5-CSA-7-L28 through L31, L39, L40, L41, L50, L51, L52	OU5-CSA-7-4120VNS	4120 Van Ness Street	National Presbyterian Church
OU5-CSA-7-L35 & L36	OU5-CSA-7-4000VNS	4000 Van Ness Street	Potomac Electric Power Company
OU5-CSA-7-L38, L48, & L49	OU5-CSA-7-4100WA	4100 Wisconsin Avenue	G Eckles & A E Lord Trs
OU5-CSA-7-L57, L58 & L65	OU5-CSA-7-4000WA	4000 Wisconsin Avenue	Jan Evans & C B King Jr
OU5-CSA-7-L66, L68 through L79	OU5-CSA-7-3900WA	3900 Wisconsin Avenue	Federal National Mortgage Assoc
OU5-CSA-8-L1 through L10, & L19	OU5-CSA-8-3500MA	3500 Massachusetts Avenue	American University
OU5-CSA-8-L15 through L18, & L20	OU5-CSA-8-3700NA	3700 Nebraska Avenue	American University
OU5-CSA-8-L11 through L14	OU5-CSA-8-3850NA	3850 Nebraska Avenue	Temple Baptist Church, Trs C/O Elder Moats
OU5-CSA-9-L1 through L10, L12, L13, L15, L19, L20	OU5-CSA-9-4500MA	4500 Massachusetts Avenue	Wesley Theological Seminary
OU5-CSA-9-L11, L16, L17, L18, L22-L29, L31, L33-L42, & L44-L52	OU5-CSA-9-4400MA	4400 Massachusetts Avenue	American University
OU5-CSA-11-L1 through L6	OU5-CSA-11-DC Right-of-Way	DC Right-of-Way Quebec Street	DC Right-of-Way
OU5-CSA-12-L15, L16, & L17	OU5-CSA-12-4842IL	4842 Indian Lane	John K Delaney & April Delaney
OU5-CSA-12-L18 through L21	OU5-CSA-12-4925LR	4925 Loughboro Road	Republic of Mexico
OU5-CSA-13-L1 through L85, L93, L94, L95, & L104	OU5-CSA-13-WashAqueduct	Wash. Aqueduct	Washington Aqueduct Property Lots
OU5-CSA-13-L86, L88 through L99 & L100 through L103	OU5-CSA-13-5201LR	5201 Loughboro Road	Sibley Memorial Hospital
OU5-CSA-13-L87	OU5-CSA-13-5220LF	5220 Little Falls Road	Potomac Elec Power Co

[1] Those lots without a street number address can be found alphabetically at the end of the data table using the name in this column. Please note that all lots are listed although not all receive specialty or grid sampling.

Spring Valley OU-4/OU-5 Arsenic Quad/Half Sampling Results

Sampling Dates: 6/27/2000 - 9/30/2003 - Sorted Numerically by House Number

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	0006 Wesley Circle						No	No
			OU5-CSA-4-0006WC-1	11/19/2001	5.4	mg/kg			
			OU5-CSA-4-0006WC-2	11/19/2001	5.2	mg/kg			
OU4	OU4	3244 Nebraska Avenue						No	No
			OU4-3244NA-1	8/8/2000	4.85 J	mg/kg			
			OU4-3244NA-2	8/8/2000	4.68 J	mg/kg			
			OU4-3244NA-3	8/8/2000	5 J	mg/kg			
			OU4-3244NA-4	8/8/2000	5.69 J	mg/kg			
			OU4-3244NA-SB-A-1	8/8/2000	6.44 J	mg/kg			
			OU4-3244NA-SB-A-2	8/8/2000	3.31 J	mg/kg			
			OU4-3244NA-SB-A-3	8/8/2000	2.44 J	mg/kg			
			OU4-3244NA-SB-A-4	8/8/2000	3.36 J	mg/kg			
			OU4-3244NA-SB-A-5	8/8/2000	3.66 J	mg/kg			
			OU4-3244NA-SB-A-6	8/8/2000	3.98 J	mg/kg			
			OU4-3244NA-SB-B-1	8/8/2000	4.86 J	mg/kg			
			OU4-3244NA-SB-B-2	8/8/2000	4.44 J	mg/kg			
			OU4-3244NA-SB-B-3	8/8/2000	2.21 J	mg/kg			
			OU4-3244NA-SB-B-4	8/8/2000	2.33 J	mg/kg			
			OU4-3244NA-SB-B-5	8/8/2000	1.95 J	mg/kg			
			OU4-3244NA-SB-B-6	8/8/2000	1.5 J	mg/kg			
OU4	OU4	3300 Nebraska Avenue						No	No
			OU4-3300NA-1	4/12/2001	4.6 L	mg/kg			
			OU4-3300NA-2	4/12/2001	3.9 L	mg/kg			
			OU4-3300NA-3	4/12/2001	4.5 L	mg/kg			
			OU4-3300NA-4	4/12/2001	6.9 L	mg/kg			
			OU4-3300NA-SB-1	4/12/2001	5.6 L	mg/kg			
			OU4-3300NA-SB-10	4/12/2001	10.4 L	mg/kg			
			OU4-3300NA-SB-2	4/12/2001	5.9 L	mg/kg			
			OU4-3300NA-SB-3	4/12/2001	6.6 L	mg/kg			
			OU4-3300NA-SB-4	4/12/2001	8.8 L	mg/kg			
			OU4-3300NA-SB-5	4/12/2001	2 JL	mg/kg			
			OU4-3300NA-SB-6	4/12/2001	9.9 L	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-3300NA-SB-7	4/12/2001	11.5 L	mg/kg			
			OU4-3300NA-SB-8	4/12/2001	18 L	mg/kg			
			OU4-3300NA-SB-9	4/12/2001	26.5 L	mg/kg			
			OU4-3300NA-SB-DUP-01	4/12/2001	16.3 L	mg/kg	OU4-3300NA-SB-5		
OU4	***OU4***	***3310 45th Street***						***No***	***No***
			OU4-3310(45)-1	4/13/2001	5.1	mg/kg			
			OU4-3310(45)-2	4/13/2001	8.2	mg/kg			
			OU4-3310(45)-3	4/13/2001	5.3	mg/kg			
			OU4-3310(45)-4	4/13/2001	4.9	mg/kg			
			OU4-3310(45)-SB-1	4/13/2001	4.7	mg/kg			
			OU4-3310(45)-SB-2	4/13/2001	7	mg/kg			
			OU4-3310(45)-SB-3	4/13/2001	8.1	mg/kg			
			OU4-3310(45)-SB-4	4/13/2001	7.8	mg/kg			
			OU4-3310(45)-SB-5	4/13/2001	6.4	mg/kg			
			OU4-3310(45)-SB-6	4/13/2001	12.9	mg/kg			
			OU4-3310(45)-SB-7	4/13/2001	12.6	mg/kg			
			OU4-3310(45)-SB-8	4/13/2001	9.6	mg/kg			
			OU4-3310(45)-SB-9	4/13/2001	6	mg/kg			
OU4	***OU4***	***3311 Nebraska Avenue***						***No***	***No***
			OU4-3311NA-1	4/12/2001	5.8	mg/kg			
			OU4-3311NA-2	4/12/2001	5.1	mg/kg			
			OU4-3311NA-3	4/12/2001	5.3	mg/kg			
			OU4-3311NA-4	4/12/2001	5.1	mg/kg			
			OU4-3311NA-DUP-01	4/12/2001	5.3	mg/kg	OU4-3311NA-3		
			OU4-3311NA-SB-1	4/12/2001	5.2	mg/kg			
			OU4-3311NA-SB-2	4/12/2001	9.4	mg/kg			
			OU4-3311NA-SB-3	4/12/2001	8.3	mg/kg			
			OU4-3311NA-SB-4	4/12/2001	9	mg/kg			
			OU4-3311NA-SB-5	4/12/2001	9.8	mg/kg			
			OU4-3311NA-SB-6	4/12/2001	3.6	mg/kg			
			OU4-3311NA-SB-7	4/12/2001	1.5 J	mg/kg			
OU4	***OU4***	***3314 45th Street***						***No***	***No***
			OU4-3314(45)-1	8/2/2001	6.5	mg/kg			
			OU4-3314(45)-2	8/2/2001	5.9	mg/kg			
			OU4-3314(45)-3	8/2/2001	6	mg/kg			
			OU4-3314(45)-4	8/2/2001	7.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-3314(45)-SB-1	8/2/2001	3.1	mg/kg			
			OU4-3314(45)-SB-10	8/2/2001	6.8	mg/kg			
			OU4-3314(45)-SB-2	8/2/2001	5.5	mg/kg			
			OU4-3314(45)-SB-3	8/2/2001	3.1	mg/kg			
			OU4-3314(45)-SB-4	8/2/2001	10.9	mg/kg			
			OU4-3314(45)-SB-5	8/2/2001	11.8	mg/kg			
			OU4-3314(45)-SB-6	8/2/2001	12.1	mg/kg			
			OU4-3314(45)-SB-7	8/2/2001	13.5	mg/kg			
			OU4-3314(45)-SB-8	8/2/2001	11.1	mg/kg			
			OU4-3314(45)-SB-9	8/2/2001	8.5	mg/kg			
OU4	*OU4*	*3318 45th Street*						*No*	*Yes*
			OU4-3318(45)-1	4/13/2001	10	mg/kg			
			OU4-3318(45)-2	4/13/2001	14.1	mg/kg			
			OU4-3318(45)-3	4/13/2001	8.5	mg/kg			
			OU4-3318(45)-4	4/13/2001	14.9	mg/kg			
			OU4-3318(45)-SB-1	4/13/2001	2.6	mg/kg			
			OU4-3318(45)-SB-2	4/13/2001	5.8	mg/kg			
			OU4-3318(45)-SB-3	4/13/2001	5.4	mg/kg			
			OU4-3318(45)-SB-4	4/13/2001	9.4	mg/kg			
			OU4-3318(45)-SB-5	4/13/2001	9.7	mg/kg			
			OU4-3318(45)-SB-6	4/13/2001	10.9	mg/kg			
			OU4-3318(45)-SB-7	4/13/2001	9.2	mg/kg			
			OU4-3318(45)-SB-8	4/13/2001	12.4	mg/kg			
			OU4-3318(45)-SB-9	4/13/2001	9.2	mg/kg			
			OU4-3318(45)-SB-DUP01	4/13/2001	10.2	mg/kg	OU4-3318(45)-SB-6		
OU4	*OU4*	*3322 45th Street*						*No*	*No*
			OU4-3322(45)-1	4/13/2001	6.2 K	mg/kg			
			OU4-3322(45)-2	4/13/2001	6.1 K	mg/kg			
			OU4-3322(45)-3	4/13/2001	7.8 K	mg/kg			
			OU4-3322(45)-4	4/13/2001	5.9 K	mg/kg			
			OU4-3322(45)-SB-1	4/16/2001	3.3	mg/kg			
			OU4-3322(45)-SB-2	4/16/2001	5	mg/kg			
			OU4-3322(45)-SB-3	4/16/2001	11.2	mg/kg			
			OU4-3322(45)-SB-4	4/16/2001	13.7	mg/kg			
			OU4-3322(45)-SB-5	4/16/2001	13.1	mg/kg			
			OU4-3322(45)-SB-6	4/16/2001	8.9	mg/kg			
			OU4-3322(45)-SB-7	4/16/2001	10.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-3322(45)-SB-8	4/16/2001	2.8	mg/kg			
OU4	OU4	3401 Nebraska Avenue, Lot 1						No	No
			OU4-3401-1-1	4/18/2001	8.4 L	mg/kg			
			OU4-3401-1-2	4/18/2001	5.6 L	mg/kg			
			OU4-3401-1-3	4/18/2001	5.4 L	mg/kg			
			OU4-3401-1-4	4/18/2001	6.5 L	mg/kg			
			OU4-3401-1-SB-1	4/18/2001	7.4	mg/kg			
			OU4-3401-1-SB-2	4/18/2001	8.6	mg/kg			
			OU4-3401-1-SB-3	4/18/2001	5.2	mg/kg			
			OU4-3401-1-SB-4	4/18/2001	10.3 L	mg/kg			
			OU4-3401-1-SB-5	4/18/2001	9 L	mg/kg			
			OU4-3401-1-SB-6	4/18/2001	9.1 L	mg/kg			
			OU4-3401-1-SB-7	4/18/2001	5.3 L	mg/kg			
			OU4-3401-1-SB-8	4/18/2001	7.8 L	mg/kg			
OU4	OU4	3401 Nebraska Avenue, Lot 2						No	Yes
			OU4-3401-2-1	4/18/2001	16.8 L	mg/kg			
			OU4-3401-2-2	4/18/2001	6 L	mg/kg			
			OU4-3401-2-3	4/18/2001	5.7	mg/kg			
			OU4-3401-2-4	4/18/2001	4.4	mg/kg			
			OU4-3401-2-DUP01	4/18/2001	6.8 L	mg/kg	OU4-3401-2-2		
			OU4-3401-2-SB-1	4/18/2001	6.6 L	mg/kg			
			OU4-3401-2-SB-10	4/18/2001	7.1	mg/kg			
			OU4-3401-2-SB-2	4/18/2001	2.7 L	mg/kg			
			OU4-3401-2-SB-3	4/18/2001	6.6 L	mg/kg			
			OU4-3401-2-SB-4	4/18/2001	6.3 L	mg/kg			
			OU4-3401-2-SB-5	4/18/2001	2.8 L	mg/kg			
			OU4-3401-2-SB-6	4/18/2001	7.7 L	mg/kg			
			OU4-3401-2-SB-7	4/18/2001	4.6 L	mg/kg			
			OU4-3401-2-SB-8	4/18/2001	6.8 L	mg/kg			
			OU4-3401-2-SB-9	4/18/2001	5.2	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 1						No	No
			OU5-CSA-8-L1-1	8/23/2001	5.7	mg/kg			
			OU5-CSA-8-L1-2	8/23/2001	4.6	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 10						No	No
			OU5-CSA-8-L10-1	8/23/2001	4.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-8-L10-2	8/23/2001	7.4	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 19						No	No
			OU5-CSA-8-L19-1	8/23/2001	7	mg/kg			
			OU5-CSA-8-L19-2	8/23/2001	6.5	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 2						No	No
			OU5-CSA-8-L2-1	8/23/2001	4.8	mg/kg			
			OU5-CSA-8-L2-2	8/23/2001	4.7	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 3						No	No
			OU5-CSA-8-L3-1	8/23/2001	4.5	mg/kg			
			OU5-CSA-8-L3-2	8/23/2001	6.7	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 4						No	No
			OU5-CSA-8-L4-1	8/23/2001	5.6	mg/kg			
			OU5-CSA-8-L4-2	8/23/2001	3.7	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 5						No	No
			OU5-CSA-8-L5-1	8/23/2001	5.6	mg/kg			
			OU5-CSA-8-L5-2	8/23/2001	4.5	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 6						No	No
			OU5-CSA-8-L6-1	8/23/2001	5.9	mg/kg			
			OU5-CSA-8-L6-2	8/23/2001	4.5	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 7						No	No
			OU5-CSA-8-L7-1	8/23/2001	8	mg/kg			
			OU5-CSA-8-L7-2	8/23/2001	6.2	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 8						No	No
			OU5-CSA-8-L8-1	8/23/2001	6.1	mg/kg			
CSA	8	3500 Massachusetts Avenue, Lot 9						No	No
			OU5-CSA-8-L9-1	8/23/2001	8.1	mg/kg			
			OU5-CSA-8-L9-2	8/23/2001	6.5	mg/kg			
CSA	12	3500 Overlook Court						Yes	No
			OU5-CSA-12-3500OC-1	8/6/2001	2.1 J	mg/kg			
			OU5-CSA-12-3500OC-2	8/6/2001	4.3	mg/kg			
			OU5-CSA-12-3500OC-SBA1	8/6/2001	3.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-12-3500OC-SBA2	8/6/2001	2.8	mg/kg			
			OU5-CSA-12-3500OC-SBA3	8/6/2001	2.2	mg/kg			
			OU5-CSA-12-3500OC-SBA4	8/6/2001	1.1 J	mg/kg			
			OU5-CSA-12-3500OC-SBA5	8/6/2001	1.8 J	mg/kg			
			OU5-CSA-12-3500OC-SBA6	8/6/2001	1.4 J	mg/kg			
			OU5-CSA-12-3500OC-SBB1	8/6/2001	4	mg/kg			
			OU5-CSA-12-3500OC-SBB2	8/6/2001	4	mg/kg			
			OU5-CSA-12-3500OC-SBB3	8/6/2001	2.7	mg/kg			
			OU5-CSA-12-3500OC-SBB4	8/6/2001	2.8	mg/kg			
			OU5-CSA-12-3500OC-SBB5	8/6/2001	3.3	mg/kg			
			OU5-CSA-12-3500OC-SBB6	8/6/2001	1.9 J	mg/kg			
CSA	***12***	***3509 Overlook Court***						***Yes***	***No***
			OU5-CSA-12-3509OC-1	11/12/2001	5.9	mg/kg			
			OU5-CSA-12-3509OC-2	11/12/2001	5.1	mg/kg			
			OU5-CSA-12-3509OC-SB1	11/12/2001	3.1	mg/kg			
			OU5-CSA-12-3509OC-SB2	11/12/2001	1.7 J	mg/kg			
			OU5-CSA-12-3509OC-SB3	11/12/2001	2.1 J	mg/kg			
			OU5-CSA-12-3509OC-SB4	11/12/2001	0.75 J	mg/kg			
			OU5-CSA-12-3509OC-SB5	11/12/2001	1.6 J	mg/kg			
			OU5-CSA-12-3509OC-SB6	11/12/2001	5	mg/kg			
CSA	***12***	***3510 Overlook Court***						***No***	***No***
			OU5-CSA-12-3510OC-1	10/26/2001	2.9	mg/kg			
			OU5-CSA-12-3510OC-2	10/26/2001	2.4 J	mg/kg			
			OU5-CSA-12-3510OC-DUP81	10/26/2001	1.9 J	mg/kg	OU5-CSA-12-3510OC-1		
CSA	***12***	***3514 Overlook Court***						***Yes***	***Yes***
			OU5-CSA-12-3514(OC)-1	7/20/2001	13	mg/kg			
			OU5-CSA-12-3514(OC)-2	7/20/2001	9.6	mg/kg			
			OU5-CSA-12-3514OC-SB1	12/17/2001	2.6	mg/kg			
			OU5-CSA-12-3514OC-SB2	12/17/2001	1 J	mg/kg			
			OU5-CSA-12-3514OC-SB3	12/17/2001	0.77 J	mg/kg			
			OU5-CSA-12-3514OC-SB4	12/17/2001	0.57 U	mg/kg			
			OU5-CSA-12-3514OC-SB5	12/17/2001	0.7 J	mg/kg			
			OU5-CSA-12-3514OC-SB6	12/17/2001	0.57 U	mg/kg			
CSA	***12***	***3519 Overlook Court***						***Yes***	***No***
			OU5-CSA-12-3519OC-1	9/4/2001	5.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-12-3519OC-2	9/4/2001	2.6	mg/kg			
			OU5-CSA-12-3519OC-SBA1	9/4/2001	2.7	mg/kg			
			OU5-CSA-12-3519OC-SBA10	9/4/2001	1.5 J	mg/kg			
			OU5-CSA-12-3519OC-SBA2	9/4/2001	3.7	mg/kg			
			OU5-CSA-12-3519OC-SBA3	9/4/2001	3.6	mg/kg			
			OU5-CSA-12-3519OC-SBA4	9/4/2001	2.6	mg/kg			
			OU5-CSA-12-3519OC-SBA5	9/4/2001	1.4 J	mg/kg			
			OU5-CSA-12-3519OC-SBA6	9/4/2001	1.1 J	mg/kg			
			OU5-CSA-12-3519OC-SBA7	9/4/2001	1.2 J	mg/kg			
			OU5-CSA-12-3519OC-SBA8	9/4/2001	2 J	mg/kg			
			OU5-CSA-12-3519OC-SBA9	9/4/2001	0.57 J	mg/kg			
			OU5-CSA-12-3519OC-SBB1	9/4/2001	2.8	mg/kg			
			OU5-CSA-12-3519OC-SBB2	9/4/2001	1.7 J	mg/kg			
			OU5-CSA-12-3519OC-SBB3	9/4/2001	2.6	mg/kg			
			OU5-CSA-12-3519OC-SBB4	9/4/2001	1.6 J	mg/kg			
			OU5-CSA-12-3519OC-SBB5	9/4/2001	2.2	mg/kg			
			OU5-CSA-12-3519OC-SBB6	9/4/2001	1.8 J	mg/kg			
			OU5-CSA-12-3519OC-SBB7	9/4/2001	3.6	mg/kg			
CSA	**12**	**3520 Overlook Court**						**No**	**No**
			OU5-CSA-12-3520OC-1	2/14/2002	5.9	mg/kg			
			OU5-CSA-12-3520OC-2	2/14/2002	3.1	mg/kg			
OU4	**OU4**	**3601 49th Street**						**No**	**No**
			OU4-3601(49)-1	9/27/2000	5.11 DJ	mg/kg			
			OU4-3601(49)-2	9/27/2000	5.78 DJ	mg/kg			
			OU4-3601(49)-3	9/27/2000	7.49 DJ	mg/kg			
			OU4-3601(49)-4	9/27/2000	3.93 DJ	mg/kg			
			OU4-3601(49)-SB-1	9/27/2000	3.65 DJ	mg/kg			
			OU4-3601(49)-SB-2	9/27/2000	3.31 DJ	mg/kg			
			OU4-3601(49)-SB-3	9/27/2000	2.3 DJ	mg/kg			
			OU4-3601(49)-SB-4	9/27/2000	2.61 DJ	mg/kg			
			OU4-3601(49)-SB-5	9/27/2000	3.18 DJ	mg/kg			
			OU4-3601(49)-SB-6	9/27/2000	2.27 DJ	mg/kg			
			OU4-3601(49)-SB-7	9/27/2000	1.04 DJ	mg/kg			
			OU4-3601(49)-SB-8	9/27/2000	1.01 DJ	mg/kg			
CSA	**11**	**3601 Fordham Road**						**No**	**No**
			OU5-CSA-11-3601FR-1	7/6/2001	3.9	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-11-3601FR-2	7/6/2001	2 J	mg/kg			
OU4	OU4	3615 49th Street						No	No
			OU4-3615(49)-1	8/30/2000	4.74 DJ	mg/kg			
			OU4-3615(49)-2	8/30/2000	6.27 DJ	mg/kg			
			OU4-3615(49)-3	8/30/2000	6.53 DJ	mg/kg			
			OU4-3615(49)-4	8/30/2000	3.62 D	mg/kg			
			OU4-3615(49)-SB-1	8/30/2000	3.44 D	mg/kg			
			OU4-3615(49)-SB-2	8/30/2000	2.41 D	mg/kg			
			OU4-3615(49)-SB-3	8/30/2000	4.43 D	mg/kg			
			OU4-3615(49)-SB-4	8/30/2000	3.37 D	mg/kg			
			OU4-3615(49)-SB-5	8/30/2000	2.77 D	mg/kg			
			OU4-3615(49)-SB-6	8/30/2000	3.62 D	mg/kg			
CSA	11	3619 Fordham Road						Yes	No
			OU5-CSA-11-3619FR-SB1	10/9/2001	2.3	mg/kg			
			OU5-CSA-11-3619FR-SB2	10/9/2001	1.2 J	mg/kg			
			OU5-CSA-11-3619FR-SB3	10/9/2001	1 J	mg/kg			
			OU5-CSA-11-3619FR-SB4	10/9/2001	0.72 J	mg/kg			
			OU5-CSA-11-3619FR-SB5	10/9/2001	1.6 J	mg/kg			
			OU5-CSA-11-3619FR-SB6	10/9/2001	0.47 J	mg/kg			
			OU5-CSA-11-3619FS-1	5/31/2001	3.9	mg/kg			
			OU5-CSA-11-3619FS-2	5/31/2001	2.3 J	mg/kg			
OU4	OU4	3625 49th Street						No	No
			OU4-3625(49)-1	8/30/2000	4.57 D	mg/kg			
			OU4-3625(49)-2	8/30/2000	5.88 D	mg/kg			
			OU4-3625(49)-3	8/30/2000	6.33 D	mg/kg			
			OU4-3625(49)-4	8/30/2000	4.75 D	mg/kg			
			OU4-3625(49)-SB-1	8/30/2000	3.68 D	mg/kg			
			OU4-3625(49)-SB-2	8/30/2000	3.84 D	mg/kg			
			OU4-3625(49)-SB-3	8/30/2000	3.73 D	mg/kg			
			OU4-3625(49)-SB-4	8/30/2000	4.11 D	mg/kg			
			OU4-3625(49)-SB-5	8/30/2000	2.58 D	mg/kg			
			OU4-3625(49)-SB-6	8/30/2000	4.02 D	mg/kg			
CSA	11	3630 Fordham Road						Yes	No
			OU5-CSA-11-3630FR-1	8/1/2001	3	mg/kg			
			OU5-CSA-11-3630FR-2	8/1/2001	3.9	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-11-3630FR-SB-1	8/1/2001	1.5 J	mg/kg			
			OU5-CSA-11-3630FR-SB-2	8/1/2001	1.7 J	mg/kg			
			OU5-CSA-11-3630FR-SB-3	8/1/2001	2 J	mg/kg			
			OU5-CSA-11-3630FR-SB-4	8/1/2001	2.1	mg/kg			
			OU5-CSA-11-3630FR-SB-5	8/1/2001	3.7	mg/kg			
			OU5-CSA-11-3630FR-SB-6	8/1/2001	4.1	mg/kg			
			OU5-CSA-11-3630FR-SB-DUP45	8/1/2001	2.4	mg/kg	OU5-CSA-11-3630FR-SB-4		
OU4	*OU4*	*3631 49th Street*						*No*	*No*
			OU4-3631(49)-1	9/6/2000	3.31 DJ	mg/kg			
			OU4-3631(49)-2	9/6/2000	4.72 DJ	mg/kg			
			OU4-3631(49)-3	9/6/2000	9.82 DJ	mg/kg			
			OU4-3631(49)-4	9/6/2000	3.82 DJ	mg/kg			
			OU4-3631(49)-SB-1	9/5/2000	3.85 DJ	mg/kg			
			OU4-3631(49)-SB-2	9/5/2000	2.92 DJ	mg/kg			
			OU4-3631(49)-SB-3	9/5/2000	1.75 DJ	mg/kg			
			OU4-3631(49)-SB-4	9/5/2000	2.43 DJ	mg/kg			
			OU4-3631(49)-SB-5	9/5/2000	3.51 DJ	mg/kg			
			OU4-3631(49)-SB-6	9/5/2000	4.81 DJ	mg/kg			
			OU4-3631(49)-SB-7	9/5/2000	2.51 DJ	mg/kg			
			OU4-3631(49)-SB-8	9/5/2000	1.71 DJ	mg/kg			
CSA	*10*	*3637 49th Street*						*No*	*No*
			OU5-CSA-10-3637(49)-1	7/6/2001	4.8	mg/kg			
			OU5-CSA-10-3637(49)-2	7/6/2001	5.4	mg/kg			
CSA	*10*	*3641 49th Street*						*No*	*Yes + specialty boring*
			OU5-CSA-10-3641(49)-1	8/23/2001	68	mg/kg			
			OU5-CSA-10-3641(49)-2	8/23/2001	9.7	mg/kg			
CSA	*10*	*3645 49th Street*						*No*	*No*
			OU5-CSA-10-3645(49)-1	7/6/2001	6.1	mg/kg			
			OU5-CSA-10-3645(49)-2	7/6/2001	4.1	mg/kg			
			OU5-CSA-10-3645(49)-DUP17	7/6/2001	4.5	mg/kg	OU5-CSA-10-3645(49)-2		
CTA	*1C*	*3650 Fordham Road*						*No*	*Yes*
			OU5-CTA-1C-3650FR-1	6/6/2001	10.1	mg/kg			
			OU5-CTA-1C-3650FR-2	6/6/2001	6.6	mg/kg			
			OU5-CTA-1C-3650FR-3	6/6/2001	21	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-3650FR-4	6/6/2001	12.7	mg/kg			
			OU5-CTA-1C-3650FR-SB-1	6/6/2001	2.3 J	mg/kg			
			OU5-CTA-1C-3650FR-SB-2	6/6/2001	0.53 J	mg/kg			
			OU5-CTA-1C-3650FR-SB-3	6/6/2001	0.95 J	mg/kg			
			OU5-CTA-1C-3650FR-SB-4	6/6/2001	4.1	mg/kg			
			OU5-CTA-1C-3650FR-SB-5	6/6/2001	2.3	mg/kg			
			OU5-CTA-1C-3650FR-SB-6	6/6/2001	1.2 J	mg/kg			
CTA	*1C*	*3700 Fordham Road*						*No*	*No*
			OU5-CTA-1C-3700FR-1	6/6/2001	4.5	mg/kg			
			OU5-CTA-1C-3700FR-2	6/6/2001	5.5	mg/kg			
			OU5-CTA-1C-3700FR-3	6/6/2001	4.3	mg/kg			
			OU5-CTA-1C-3700FR-4	6/6/2001	5.5	mg/kg			
			OU5-CTA-1C-3700FR-SB-1	6/6/2001	1.2 J	mg/kg			
			OU5-CTA-1C-3700FR-SB-2	6/6/2001	1.1 J	mg/kg			
			OU5-CTA-1C-3700FR-SB-3	6/6/2001	3.8	mg/kg			
			OU5-CTA-1C-3700FR-SB-4	6/6/2001	2.5	mg/kg			
			OU5-CTA-1C-3700FR-SB-5	6/6/2001	1.6 J	mg/kg			
			OU5-CTA-1C-3700FR-SB-6	6/6/2001	2 J	mg/kg			
CSA	*8*	*3700 Nebraska Avenue, Lot 15*						*No*	*No*
			OU5-CSA-8-L15-1	8/23/2001	5.9	mg/kg			
			OU5-CSA-8-L15-2	8/23/2001	5.4	mg/kg			
CSA	*8*	*3700 Nebraska Avenue, Lot 16*						*No*	*No*
			OU5-CSA-8-L16-1	8/23/2001	6.8	mg/kg			
			OU5-CSA-8-L16-2	8/23/2001	6.9	mg/kg			
CSA	*8*	*3700 Nebraska Avenue, Lot 17*						*No*	*No*
			OU5-CSA-8-L17-1	8/23/2001	6.4	mg/kg			
			OU5-CSA-8-L17-2	8/23/2001	5.7	mg/kg			
CSA	*8*	*3700 Nebraska Avenue, Lot 18*						*No*	*No*
			OU5-CSA-8-L18-1	8/23/2001	6.6	mg/kg			
			OU5-CSA-8-L18-2	8/23/2001	7.6	mg/kg			
CSA	*8*	*3700 Nebraska Avenue, Lot 20*						*No*	*No*
			OU5-CSA-8-L20-1	8/23/2001	7.9	mg/kg			
			OU5-CSA-8-L20-2	8/23/2001	7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
OU4	OU4	3700 University Avenue						No	No
			OU4-3700UA-1	2/6/2001	3.43	mg/kg			
			OU4-3700UA-2	2/6/2001	4.31	mg/kg			
			OU4-3700UA-3	2/6/2001	3.86	mg/kg			
			OU4-3700UA-4	2/6/2001	3.74	mg/kg			
			OU4-3700UA-SB-1	2/6/2001	3.58	mg/kg			
			OU4-3700UA-SB-2	2/6/2001	1.4	mg/kg			
			OU4-3700UA-SB-3	2/6/2001	0.668	mg/kg			
			OU4-3700UA-SB-4	2/6/2001	5 U	mg/kg			
			OU4-3700UA-SB-5	2/6/2001	0.953	mg/kg			
CSA	10	3701 Corey Place						No	No
			OU5-CSA-10-3701CP-1	8/24/2001	12.2	mg/kg			
			OU5-CSA-10-3701CP-2	8/24/2001	5.8	mg/kg			
CSA	11	3701 Fordham Road						No	No
			OU5-CSA-11-3701 FS-1	6/5/2001	3	mg/kg			
			OU5-CSA-11-3701 FS-2	6/5/2001	3.7	mg/kg			
			OU5-CSA-11-3701 FS-DUP01	6/5/2001	4.6	mg/kg	OU5-CSA-11-3701 FS-2		
CSA	10	3702 Corey Place						Yes	No
			OU5-CSA-10-3702CP-1	7/6/2001	11	mg/kg			
			OU5-CSA-10-3702CP-2	7/6/2001	6.5	mg/kg			
			OU5-CSA-10-3702CP-SB1	8/7/2001	2.1 J	mg/kg			
			OU5-CSA-10-3702CP-SB10	8/7/2001	0.78 J	mg/kg			
			OU5-CSA-10-3702CP-SB2	8/7/2001	2.1 J	mg/kg			
			OU5-CSA-10-3702CP-SB3	8/7/2001	3	mg/kg			
			OU5-CSA-10-3702CP-SB4	8/7/2001	3.1	mg/kg			
			OU5-CSA-10-3702CP-SB5	8/7/2001	2.6 J	mg/kg			
			OU5-CSA-10-3702CP-SB6	8/7/2001	3.3 J	mg/kg			
			OU5-CSA-10-3702CP-SB7	8/7/2001	2.3 J	mg/kg			
			OU5-CSA-10-3702CP-SB8	8/7/2001	2.8 J	mg/kg			
			OU5-CSA-10-3702CP-SB9	8/7/2001	2.5	mg/kg			
CSA	10	3705 Corey Place						No	No
			OU5-CSA-10-3705CP-1	7/13/2001	7.9	mg/kg			
			OU5-CSA-10-3705CP-2	7/13/2001	7.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	10	3706 Corey Place						No	No
			OU5-CSA-10-3706CP-1	7/13/2001	5	mg/kg			
			OU5-CSA-10-3706CP-2	7/13/2001	5.1	mg/kg			
CTA	1C	3706 Fordham Road						No	Yes
			OU5-CTA-1C-3706FR-1	6/6/2001	17.8	mg/kg			
			OU5-CTA-1C-3706FR-2	6/6/2001	16.7	mg/kg			
			OU5-CTA-1C-3706FR-3	6/6/2001	19	mg/kg			
			OU5-CTA-1C-3706FR-4	6/6/2001	17	mg/kg			
			OU5-CTA-1C-3706FR-SB-1	6/6/2001	7.4	mg/kg			
			OU5-CTA-1C-3706FR-SB-2	6/6/2001	3.1	mg/kg			
			OU5-CTA-1C-3706FR-SB-3	6/6/2001	3.3	mg/kg			
			OU5-CTA-1C-3706FR-SB-4	6/6/2001	0.55 J	mg/kg			
			OU5-CTA-1C-3706FR-SB-5	6/6/2001	0.37 U	mg/kg			
			OU5-CTA-1C-3706FR-SB-6	6/6/2001	0.36 U	mg/kg			
			OU5-CTA-1C-3706FR-SB-DUP01	6/6/2001	2 J	mg/kg	OU5-CTA-1C-3706FR-SB-4		
CSA	10	3709 48th Street						No	No
			OU5-CSA-10-3709(48)-1	10/24/2001	3.5	mg/kg			
			OU5-CSA-10-3709(48)-2	10/24/2001	3.9	mg/kg			
CSA	10	3709 Corey Place						No	Yes + specialty boring
			OU5-CSA-10-3709CP-1	7/13/2001	6.1	mg/kg			
			OU5-CSA-10-3709CP-2	7/13/2001	70.6	mg/kg			
CSA	10	3710 Corey Place						No	No
			OU5-CSA-10-3710CP-1	7/13/2001	4.6	mg/kg			
			OU5-CSA-10-3710CP-2	7/13/2001	7	mg/kg			
CSA	10	3710 University Avenue						No	No
			OU5-CSA-10-3710OUA-1	3/22/2002	8.5	mg/kg			
			OU5-CSA-10-3710OUA-2	3/22/2002	7.6	mg/kg			
CSA	11	3711 Fordham Road						No	No
			OU5-CSA-11-3711FR-1	8/24/2001	3.7	mg/kg			
			OU5-CSA-11-3711FR-2	8/24/2001	5.3	mg/kg			
CSA	10	3712 48th Street						No	No
			OU5-CSA-10-3712(48)-1	6/21/2001	4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-10-3712(48)-2	6/21/2001	5.1	mg/kg			
CTA	1C	3712 Fordham Road						No	No
			OU5-CTA-1C-3712FR-1	6/22/2001	8.5	mg/kg			
			OU5-CTA-1C-3712FR-2	6/22/2001	5	mg/kg			
			OU5-CTA-1C-3712FR-3	6/22/2001	9.6	mg/kg			
			OU5-CTA-1C-3712FR-4	6/22/2001	8.1	mg/kg			
			OU5-CTA-1C-3712FR-SB-1	6/22/2001	3.9	mg/kg			
			OU5-CTA-1C-3712FR-SB-2	6/22/2001	3	mg/kg			
			OU5-CTA-1C-3712FR-SB-3	6/22/2001	2.7	mg/kg			
			OU5-CTA-1C-3712FR-SB-4	6/22/2001	3.3	mg/kg			
			OU5-CTA-1C-3712FR-SB-5	6/22/2001	3	mg/kg			
			OU5-CTA-1C-3712FR-SB-6	6/22/2001	3.2	mg/kg			
			OU5-CTA-1C-3712FR-SB-7	6/22/2001	6.5	mg/kg			
			OU5-CTA-1C-3712FR-SB-8	6/22/2001	3.6	mg/kg			
			OU5-CTA-1C-3712FR-SB-9	6/22/2001	2.6	mg/kg			
CSA	10	3713 Corey Place						No	No
			OU5-CSA-10-3713CP-1	7/13/2001	6.2	mg/kg			
			OU5-CSA-10-3713CP-2	7/13/2001	4.7	mg/kg			
CSA	10	3714 Corey Place						No	No
			OU5-CSA-10-3714CP-1	7/10/2001	2.4	mg/kg			
			OU5-CSA-10-3714CP-2	7/10/2001	5.8	mg/kg			
CSA	10	3714 University Avenue						No	No
			OU5-CSA-10-3714UA-1	11/8/2001	3.1	mg/kg			
			OU5-CSA-10-3714UA-2	11/8/2001	6.3	mg/kg			
CSA	10	3715 48th Street						No	No
			OU5-CSA-10-3715(48)-1	7/20/2001	4.4	mg/kg			
			OU5-CSA-10-3715(48)-2	7/20/2001	4.1	mg/kg			
			OU5-CSA-10-3715(48)-DUP24	7/20/2001	4.3	mg/kg	OU5-CSA-10-3715(48)-1		
CSA	10	3715 49th Street						No	No
			OU5-CSA-10-3715(49)-1	6/29/2001	4.1	mg/kg			
			OU5-CSA-10-3715(49)-2	6/29/2001	3.6	mg/kg			
CSA	11	3716 49th Street						No	No
			OU5-CSA-11-3716(49)-1	7/6/2001	3.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-11-3716(49)-2	7/6/2001	4.1	mg/kg			
CSA	10	3717 Corey Place						No	No
			OU5-CSA-10-3717CP-1	9/19/2001	7.1 J	mg/kg			
			OU5-CSA-10-3717CP-2	9/19/2001	7.1 J	mg/kg			
CSA	11	3717 Fordham Road						Yes	Yes
			OU5-CSA-11-3717FR-1	7/24/2001	3.1	mg/kg			
			OU5-CSA-11-3717FR-2	7/24/2001	52.1	mg/kg			
			OU5-CSA-11-3717FR-SB-1	7/26/2001	2 J	mg/kg			
			OU5-CSA-11-3717FR-SB-2	7/26/2001	2.1 J	mg/kg			
			OU5-CSA-11-3717FR-SB-3	7/26/2001	1.4 J	mg/kg			
			OU5-CSA-11-3717FR-SB-4	7/26/2001	1.9 J	mg/kg			
			OU5-CSA-11-3717FR-SB-5	7/26/2001	1.3 J	mg/kg			
			OU5-CSA-11-3717FR-SB-6	7/26/2001	2 J	mg/kg			
			OU5-CSA-11-3717FR-SB-7	7/26/2001	1.5 J	mg/kg			
			OU5-CSA-11-3717FR-SB-8	7/26/2001	0.95 J	mg/kg			
CSA	10	3718 University Avenue						No	No
			OU5-CSA-10-3718UA-1	7/13/2001	7.7	mg/kg			
			OU5-CSA-10-3718UA-2	7/13/2001	5.3	mg/kg			
CTA	1C	3720 Fordham Road						No	Yes
			OU5-CTA-1C-3720FR-1	4/4/2001	26.1 DJ	mg/kg			
			OU5-CTA-1C-3720FR-1A	4/4/2001	4.38 J	mg/kg			
			OU5-CTA-1C-3720FR-2	4/4/2001	4.76 J	mg/kg			
			OU5-CTA-1C-3720FR-2A	4/4/2001	2.54 J	mg/kg			
			OU5-CTA-1C-3720FR-3	4/4/2001	3.76 J	mg/kg			
			OU5-CTA-1C-3720FR-3A	4/4/2001	4.07 J	mg/kg			
			OU5-CTA-1C-3720FR-4	4/4/2001	5.23 J	mg/kg			
			OU5-CTA-1C-3720FR-4A	4/4/2001	3.98 J	mg/kg			
			OU5-CTA-1C-3720FR-DUP 02	4/4/2001	4.08 J	mg/kg	OU5-3720 FR-4A		
			OU5-CTA-1C-3720FR-SB-1	4/4/2001	4.18 J	mg/kg			
			OU5-CTA-1C-3720FR-SB-2	4/4/2001	2.71 J	mg/kg			
			OU5-CTA-1C-3720FR-SB-3	4/4/2001	4.72 J	mg/kg			
			OU5-CTA-1C-3720FR-SB-4	4/4/2001	4.78 J	mg/kg			
			OU5-CTA-1C-3720FR-SB-5	4/4/2001	2.89 J	mg/kg			
			OU5-CTA-1C-3720FR-SB-6	4/4/2001	3.04 J	mg/kg			
			OU5-CTA-1C-3720FR-SB-7	4/4/2001	3.52 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-3720FR-SB-8	4/4/2001	1.05 J	mg/kg			
CSA	10	3721 49th Street						No	No
			OU5-CSA-10-3721(49)-1	6/29/2001	3.2	mg/kg			
			OU5-CSA-10-3721(49)-2	6/29/2001	3.5	mg/kg			
CSA	10	3722 48th Street						No	No
			OU5-CSA-10-3722(48)-1	8/23/2001	6.5	mg/kg			
			OU5-CSA-10-3722(48)-2	8/23/2001	5.8	mg/kg			
CSA	10	3723 48th Street						No	No
			OU5-CSA-10-3723(48)-1	3/22/2002	5.2	mg/kg			
			OU5-CSA-10-3723(48)-2	3/22/2002	4 K	mg/kg			
CSA	10	3724 University Avenue						Yes	No
			OU5-CSA-10-3724UA-1	8/6/2001	7.3	mg/kg			
			OU5-CSA-10-3724UA-2	8/6/2001	7.3	mg/kg			
			OU5-CSA-10-3724UA-SB-DUP46	8/6/2001	3.7	mg/kg	OU5-CSA-10-3724UA-SB3		
			OU5-CSA-10-3724UA-SB1	8/6/2001	3.8	mg/kg			
			OU5-CSA-10-3724UA-SB2	8/6/2001	3.7	mg/kg			
			OU5-CSA-10-3724UA-SB3	8/6/2001	2.4	mg/kg			
			OU5-CSA-10-3724UA-SB4	8/6/2001	0.77 J	mg/kg			
			OU5-CSA-10-3724UA-SB5	8/6/2001	0.43 J	mg/kg			
			OU5-CSA-10-3724UA-SB6	8/6/2001	1.2 J	mg/kg			
CSA	10	3729 Corey Place						No	No
			OU5-CSA-10-3729CP-1	7/13/2001	3.9	mg/kg			
			OU5-CSA-10-3729CP-2	7/13/2001	3.6	mg/kg			
CSA	11	3729 Fordham Road						Yes	No
			OU5-CSA-11-3729FR-1	7/26/2001	3.2	mg/kg			
			OU5-CSA-11-3729FR-2	7/26/2001	6.4	mg/kg			
			OU5-CSA-11-3729FR-SB-1	7/26/2001	2.8	mg/kg			
			OU5-CSA-11-3729FR-SB-2	7/26/2001	3.1	mg/kg			
			OU5-CSA-11-3729FR-SB-3	7/26/2001	1.1 J	mg/kg			
			OU5-CSA-11-3729FR-SB-4	7/26/2001	1 J	mg/kg			
			OU5-CSA-11-3729FR-SB-5	7/26/2001	1.6 J	mg/kg			
			OU5-CSA-11-3729FR-SB-6	7/26/2001	1.3 J	mg/kg			
			OU5-CSA-11-3729FR-SB-7	7/26/2001	0.6 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-11-3729FR-SB-8	7/26/2001	1.2	J	mg/kg			
CSA	10	3730 48th Street							No	No
			OU5-CSA-10-3730(48)-1	11/15/2001	5.7		mg/kg			
			OU5-CSA-10-3730(48)-2	11/15/2001	5		mg/kg			
CTA	1C	3730 Fordham Road							No	No
			OU5-CTA-1C-3730FR-1	6/22/2001	3.8		mg/kg			
			OU5-CTA-1C-3730FR-2	6/22/2001	4.2		mg/kg			
			OU5-CTA-1C-3730FR-3	6/22/2001	7.1		mg/kg			
			OU5-CTA-1C-3730FR-4	6/22/2001	6		mg/kg			
			OU5-CTA-1C-3730FR-SB-1	6/22/2001	2.5		mg/kg			
			OU5-CTA-1C-3730FR-SB-2	6/22/2001	2.1	J	mg/kg			
			OU5-CTA-1C-3730FR-SB-3	6/22/2001	1.1	J	mg/kg			
			OU5-CTA-1C-3730FR-SB-4	6/22/2001	1.4	J	mg/kg			
			OU5-CTA-1C-3730FR-SB-5	6/22/2001	0.58	U	mg/kg			
			OU5-CTA-1C-3730FR-SB-6	6/22/2001	0.58	U	mg/kg			
CSA	10	3730 University Avenue							No	No
			OU5-CSA-10-3730UA-1	8/31/2001	9.4		mg/kg			
			OU5-CSA-10-3730UA-2	8/31/2001	9.4		mg/kg			
CSA	10	3731 48th Street							Yes	No
			OU5-CSA-10-3731(48)-1	9/6/2001	11.3		mg/kg			
			OU5-CSA-10-3731(48)-2	9/6/2001	4.7		mg/kg			
			OU5-CSA-10-3731(48)-DUP58	9/6/2001	10.1		mg/kg	OU5-CSA-10-3731(48)-1		
			OU5-CSA-10-3731(48)-SB1	9/6/2001	3.1		mg/kg			
			OU5-CSA-10-3731(48)-SB2	9/6/2001	2.3		mg/kg			
			OU5-CSA-10-3731(48)-SB3	9/6/2001	0.76	J	mg/kg			
			OU5-CSA-10-3731(48)-SB4	9/6/2001	1.1	J	mg/kg			
			OU5-CSA-10-3731(48)-SB5	9/6/2001	1.7	J	mg/kg			
			OU5-CSA-10-3731(48)-SB6	9/6/2001	0.98	J	mg/kg			
CSA	11	3735 Fordham Road							Yes	No
			OU5-CSA-11-3735FR-1	7/26/2001	5.2		mg/kg			
			OU5-CSA-11-3735FR-2	7/26/2001	4.4		mg/kg			
			OU5-CSA-11-3735FR-SB-1	7/26/2001	2.8		mg/kg			
			OU5-CSA-11-3735FR-SB-2	7/26/2001	2.3	J	mg/kg			
			OU5-CSA-11-3735FR-SB-3	7/26/2001	1.7	J	mg/kg			
			OU5-CSA-11-3735FR-SB-4	7/26/2001	2.2	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-11-3735FR-SB-5	7/26/2001	2.6		mg/kg			
			OU5-CSA-11-3735FR-SB-6	7/26/2001	3.1		mg/kg			
			OU5-CSA-11-3735FR-SB-7	7/26/2001	2.4		mg/kg			
			OU5-CSA-11-3735FR-SB-8	7/26/2001	1.8	J	mg/kg			
			OU5-CSA-11-3735FR-SB-DUP40	7/26/2001	3.6		mg/kg	OU5-CSA-11-3735FR-SB-5		
CTA	*1C*	*3740 Fordham Road*							*No*	*No*
			OU5-CTA-1C-3740FR-1	6/11/2001	6.6		mg/kg			
			OU5-CTA-1C-3740FR-2	6/11/2001	7.4		mg/kg			
			OU5-CTA-1C-3740FR-3	6/11/2001	7.5		mg/kg			
			OU5-CTA-1C-3740FR-4	6/11/2001	12.6		mg/kg			
			OU5-CTA-1C-3740FR-DUP03	6/11/2001	12.2		mg/kg	OU5-CTA-1C-3740FR-4		
			OU5-CTA-1C-3740FR-SB1	6/11/2001	4		mg/kg			
			OU5-CTA-1C-3740FR-SB2	6/11/2001	0.79	J	mg/kg			
			OU5-CTA-1C-3740FR-SB3	6/11/2001	0.87	J	mg/kg			
			OU5-CTA-1C-3740FR-SB4	6/11/2001	1.6	J	mg/kg			
			OU5-CTA-1C-3740FR-SB5	6/11/2001	1.6	J	mg/kg			
			OU5-CTA-1C-3740FR-SB6	6/11/2001	2.5		mg/kg			
			OU5-CTA-1C-3740FR-SBDUP04	6/11/2001	1.5	J	mg/kg	OU5-CTA-1C-3740FR-SB4		
CTA	*1C*	*3750 Fordham Road*							*No*	*No*
			OU5-CTA-1C-3750FR-1	6/26/2001	6.8		mg/kg			
			OU5-CTA-1C-3750FR-2	6/26/2001	4.5		mg/kg			
			OU5-CTA-1C-3750FR-3	6/26/2001	3.9		mg/kg			
			OU5-CTA-1C-3750FR-4	6/26/2001	6.1		mg/kg			
			OU5-CTA-1C-3750FR-SB-1	6/26/2001	4.3		mg/kg			
			OU5-CTA-1C-3750FR-SB-2	6/26/2001	1.9	J	mg/kg			
			OU5-CTA-1C-3750FR-SB-3	6/26/2001	2.1	J	mg/kg			
			OU5-CTA-1C-3750FR-SB-4	6/26/2001	3		mg/kg			
			OU5-CTA-1C-3750FR-SB-5	6/26/2001	3.2		mg/kg			
			OU5-CTA-1C-3750FR-SB-6	6/26/2001	1.6	J	mg/kg			
			OU5-CTA-1C-3750FR-SB-DUP18	6/26/2001	2.5		mg/kg	OU5-CTA-1C-3750FR-SB-3		
CTA	*1B*	*3800 52nd Street*							*No*	*Yes*
			OU5-CTA-1B-3800(52)-1	9/18/2001	62.7		mg/kg			
			OU5-CTA-1B-3800(52)-2	9/18/2001	2.9		mg/kg			
			OU5-CTA-1B-3800(52)-3	9/18/2001	3.3		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-3800(52)-4	9/18/2001	3.9	mg/kg			
			OU5-CTA-1B-3800(52)-SB-DUP74	9/18/2001	2.1 J	mg/kg	OU5-CTA-1B-3800(52)-SB5		
			OU5-CTA-1B-3800(52)-SB1	9/18/2001	2.5	mg/kg			
			OU5-CTA-1B-3800(52)-SB2	9/18/2001	5.1	mg/kg			
			OU5-CTA-1B-3800(52)-SB3	9/18/2001	6.8	mg/kg			
			OU5-CTA-1B-3800(52)-SB4	9/18/2001	4.6	mg/kg			
			OU5-CTA-1B-3800(52)-SB5	9/18/2001	2.1 J	mg/kg			
			OU5-CTA-1B-3800(52)-SB6	9/18/2001	1.8 J	mg/kg			
CTA	*1C*	*3800 Fordham Road*						*No*	*No*
			OU5-CTA-1C-3800FR-1	7/26/2001	4	mg/kg			
			OU5-CTA-1C-3800FR-2	7/26/2001	4	mg/kg			
			OU5-CTA-1C-3800FR-3	7/26/2001	4.4	mg/kg			
			OU5-CTA-1C-3800FR-4	7/26/2001	6.9	mg/kg			
			OU5-CTA-1C-3800FR-SB-1	7/26/2001	2.3	mg/kg			
			OU5-CTA-1C-3800FR-SB-2	7/26/2001	3.5	mg/kg			
			OU5-CTA-1C-3800FR-SB-3	7/26/2001	3.2	mg/kg			
			OU5-CTA-1C-3800FR-SB-4	7/26/2001	2.3 J	mg/kg			
			OU5-CTA-1C-3800FR-SB-5	7/26/2001	3.4	mg/kg			
			OU5-CTA-1C-3800FR-SB-6	7/26/2001	2.2 J	mg/kg			
			OU5-CTA-1C-3800FR-SB-DUP39	7/26/2001	2.3	mg/kg	OU5-CTA-1C-3800FR-SB-6		
CTA	*1B*	*3801 52nd Street*						*No*	*No*
			OU5-CTA-1B-3801(52)-1	6/22/2001	2.9	mg/kg			
			OU5-CTA-1B-3801(52)-2	6/22/2001	3.3	mg/kg			
			OU5-CTA-1B-3801(52)-3	6/22/2001	5	mg/kg			
			OU5-CTA-1B-3801(52)-4	6/22/2001	7.6	mg/kg			
			OU5-CTA-1B-3801(52)-SB-1	6/22/2001	13.4	mg/kg			
			OU5-CTA-1B-3801(52)-SB-2	6/22/2001	1 J	mg/kg			
			OU5-CTA-1B-3801(52)-SB-3	6/22/2001	1.2 J	mg/kg			
			OU5-CTA-1B-3801(52)-SB-4	6/22/2001	0.45 J	mg/kg			
			OU5-CTA-1B-3801(52)-SB-5	6/22/2001	0.52 J	mg/kg			
			OU5-CTA-1B-3801(52)-SB-6	6/22/2001	0.43 J	mg/kg			
CTA	*1D*	*3801 Fordham Road*						*No*	*No*
			OU5-CTA-1D-3801FR-1	6/6/2001	3.7	mg/kg			
			OU5-CTA-1D-3801FR-2	6/6/2001	4.5	mg/kg			
			OU5-CTA-1D-3801FR-3	6/6/2001	4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-3801FR-4	6/6/2001	4.7	mg/kg			
			OU5-CTA-1D-3801FR-DUP01	6/6/2001	3.9	mg/kg	OU5-CTA-1D-3801FR-2		
			OU5-CTA-1D-3801FR-SB-1	6/6/2001	3.6	mg/kg			
			OU5-CTA-1D-3801FR-SB-2	6/6/2001	2.2 J	mg/kg			
			OU5-CTA-1D-3801FR-SB-3	6/6/2001	0.55 J	mg/kg			
			OU5-CTA-1D-3801FR-SB-4	6/6/2001	0.52 J	mg/kg			
			OU5-CTA-1D-3801FR-SB-5	6/6/2001	0.78 U	mg/kg			
			OU5-CTA-1D-3801FR-SB-6	6/6/2001	0.77 J	mg/kg			
CTA	*1B*	*3803 52nd Street*						*No*	*No*
			OU5-CTA-1B-3803(52)-1	7/16/2001	9	mg/kg			
			OU5-CTA-1B-3803(52)-2	7/16/2001	2.2 J	mg/kg			
			OU5-CTA-1B-3803(52)-3	7/16/2001	3.2	mg/kg			
			OU5-CTA-1B-3803(52)-4	7/16/2001	2.3 J	mg/kg			
			OU5-CTA-1B-3803(52)-SB-1	7/16/2001	1.5 J	mg/kg			
			OU5-CTA-1B-3803(52)-SB-2	7/16/2001	1.4 J	mg/kg			
			OU5-CTA-1B-3803(52)-SB-3	7/16/2001	1.9 J	mg/kg			
			OU5-CTA-1B-3803(52)-SB-4	7/16/2001	1 J	mg/kg			
			OU5-CTA-1B-3803(52)-SB-5	7/16/2001	3.9	mg/kg			
			OU5-CTA-1B-3803(52)-SB-6	7/16/2001	1.8 J	mg/kg			
CSA	*10*	*3806 47th Street*						*No*	*No*
			OU5-CSA-10-3806(47)-1	3/21/2002	2.4 J	mg/kg			
			OU5-CSA-10-3806(47)-2	3/21/2002	3.2	mg/kg			
CTA	*1D*	*3806 49th Street*						*Yes*	*Yes*
			OU5-CTA-1D-3806(49)-1	6/27/2001	8.9	mg/kg			
			OU5-CTA-1D-3806(49)-2	6/27/2001	22.4	mg/kg			
			OU5-CTA-1D-3806(49)-3	6/27/2001	26.2	mg/kg			
			OU5-CTA-1D-3806(49)-4	6/27/2001	21.4	mg/kg			
			OU5-CTA-1D-3806(49)-SB-1	6/27/2001	10.6	mg/kg			
			OU5-CTA-1D-3806(49)-SB-2	6/27/2001	2.4	mg/kg			
			OU5-CTA-1D-3806(49)-SB-3	6/27/2001	0.44 J	mg/kg			
			OU5-CTA-1D-3806(49)-SB-4	6/27/2001	0.61 J	mg/kg			
			OU5-CTA-1D-3806(49)-SB-5	6/27/2001	0.42 U	mg/kg			
			OU5-CTA-1D-3806(49)-SB-6	6/27/2001	0.79 J	mg/kg			
CSA	*10*	*3807 48th Street*						*No*	*No*
			OU5-CSA-10-3807(48)-1	10/24/2001	4.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-10-3807(48)-2	10/24/2001	3.5		mg/kg			
CTA	1D	3807 Fordham Road							Yes	No
			OU5-CTA-1D-3807FR-1	7/31/2001	3.4		mg/kg			
			OU5-CTA-1D-3807FR-2	7/31/2001	6.4		mg/kg			
			OU5-CTA-1D-3807FR-3	7/31/2001	3.9		mg/kg			
			OU5-CTA-1D-3807FR-4	7/31/2001	5		mg/kg			
			OU5-CTA-1D-3807FR-SB-1	7/31/2001	1.5	J	mg/kg			
			OU5-CTA-1D-3807FR-SB-2	7/31/2001	1.4	J	mg/kg			
			OU5-CTA-1D-3807FR-SB-3	7/31/2001	1.2	J	mg/kg			
			OU5-CTA-1D-3807FR-SB-4	7/31/2001	3.4		mg/kg			
			OU5-CTA-1D-3807FR-SB-5	7/31/2001	0.99	J	mg/kg			
			OU5-CTA-1D-3807FR-SB-6	7/31/2001	1.8	J	mg/kg			
CTA	1C	3808 Fordham Road							No	No
			OU5-CTA-1C-3808FR-1	7/16/2001	4.2		mg/kg			
			OU5-CTA-1C-3808FR-2	7/16/2001	5.7		mg/kg			
			OU5-CTA-1C-3808FR-3	7/16/2001	5.2		mg/kg			
			OU5-CTA-1C-3808FR-4	7/16/2001	5.2		mg/kg			
			OU5-CTA-1C-3808FR-DUP-21	7/16/2001	5.5		mg/kg	OU5-CTA-1C-3808FR-1		
			OU5-CTA-1C-3808FR-SB-DUP31	7/16/2001	2.5		mg/kg	OU5-CTA-1C-3808FR-SB8		
			OU5-CTA-1C-3808FR-SB1	7/16/2001	3.1		mg/kg			
			OU5-CTA-1C-3808FR-SB10	7/16/2001	1.6	J	mg/kg			
			OU5-CTA-1C-3808FR-SB2	7/16/2001	3.7		mg/kg			
			OU5-CTA-1C-3808FR-SB3	7/16/2001	2.9		mg/kg			
			OU5-CTA-1C-3808FR-SB4	7/16/2001	2.7		mg/kg			
			OU5-CTA-1C-3808FR-SB5	7/16/2001	3.8		mg/kg			
			OU5-CTA-1C-3808FR-SB6	7/16/2001	2.1	J	mg/kg			
			OU5-CTA-1C-3808FR-SB7	7/16/2001	1.6	J	mg/kg			
			OU5-CTA-1C-3808FR-SB8	7/16/2001	3		mg/kg			
			OU5-CTA-1C-3808FR-SB9	7/16/2001	2.1	J	mg/kg			
CSA	10	3808 University Avenue							No	No
			OU5-CSA-10-3808UA-1	7/6/2001	2.2	J	mg/kg			
			OU5-CSA-10-3808UA-2	7/6/2001	2.7		mg/kg			
			OU5-CSA-10-3808UA-DUP16	7/6/2001	2.6		mg/kg	OU5-CSA-10-3808UA-1		
CSA	10	3809 47th Street							No	No
			OU5-CSA-10-3809(47)-1	8/23/2001	5.6		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-10-3809(47)-2	8/23/2001	4.9	mg/kg			
CTA	1D	3809 49th Street						Yes	No
			OU5-CTA-1D-3809(49)-1	8/15/2001	0.51 U	mg/kg			
			OU5-CTA-1D-3809(49)-2	8/15/2001	4.6	mg/kg			
			OU5-CTA-1D-3809(49)-3	8/15/2001	2.9 J	mg/kg			
			OU5-CTA-1D-3809(49)-4	8/15/2001	3.3	mg/kg			
			OU5-CTA-1D-3809(49)-SB1	8/15/2001	2.1 J	mg/kg			
			OU5-CTA-1D-3809(49)-SB2	8/15/2001	1.2 J	mg/kg			
			OU5-CTA-1D-3809(49)-SB3	8/15/2001	1.7 J	mg/kg			
			OU5-CTA-1D-3809(49)-SB4	8/15/2001	0.62 J	mg/kg			
			OU5-CTA-1D-3809(49)-SB5	8/15/2001	1.7 J	mg/kg			
			OU5-CTA-1D-3809(49)-SB6	8/15/2001	0.38 U	mg/kg			
CSA	10	3810 47th Street						No	No
			OU5-CSA-10-3810(47)-1	7/13/2001	2.7	mg/kg			
			OU5-CSA-10-3810(47)-2	7/13/2001	2.7	mg/kg			
CTA	1D	3810 49th Street						Yes	No
			OU5-CTA-1D-3810(49)-1	6/25/2001	4.5	mg/kg			
			OU5-CTA-1D-3810(49)-2	6/25/2001	3.8	mg/kg			
			OU5-CTA-1D-3810(49)-3	6/25/2001	4	mg/kg			
			OU5-CTA-1D-3810(49)-4	6/25/2001	2.9	mg/kg			
			OU5-CTA-1D-3810(49)-SB-1	6/25/2001	2.9	mg/kg			
			OU5-CTA-1D-3810(49)-SB-2	6/25/2001	1.2 J	mg/kg			
			OU5-CTA-1D-3810(49)-SB-3	6/25/2001	1.7 J	mg/kg			
			OU5-CTA-1D-3810(49)-SB-4	6/25/2001	1.1 J	mg/kg			
			OU5-CTA-1D-3810(49)-SB-5	6/25/2001	1.2 J	mg/kg			
			OU5-CTA-1D-3810(49)-SB-6	6/25/2001	1.1 J	mg/kg			
CTA	1B	3810 52nd Street						No	No
			OU5-CTA-1B-3810(52)-1	6/11/2001	3.5	mg/kg			
			OU5-CTA-1B-3810(52)-2	6/11/2001	2.6 J	mg/kg			
			OU5-CTA-1B-3810(52)-3	6/11/2001	5	mg/kg			
			OU5-CTA-1B-3810(52)-4	6/11/2001	4.2	mg/kg			
			OU5-CTA-1B-3810(52)-SB-1	6/11/2001	2.1 J	mg/kg			
			OU5-CTA-1B-3810(52)-SB-2	6/11/2001	1.2 J	mg/kg			
			OU5-CTA-1B-3810(52)-SB-3	6/11/2001	1.3 J	mg/kg			
			OU5-CTA-1B-3810(52)-SB-4	6/11/2001	2 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-3810(52)-SB-5	6/11/2001	1.5 J	mg/kg			
			OU5-CTA-1B-3810(52)-SB-6	6/11/2001	3.4	mg/kg			
CSA	10	3812 47th Street						No	No
			OU5-CSA-10-3812(47)-1	7/6/2001	3.8	mg/kg			
			OU5-CSA-10-3812(47)-2	7/6/2001	3.9	mg/kg			
CTA	1D	3812 48th Street						No	Yes
			OU5-CTA-1D-3812(48)-1	8/1/2001	11.9	mg/kg			
			OU5-CTA-1D-3812(48)-2	8/1/2001	34.3	mg/kg			
			OU5-CTA-1D-3812(48)-3	8/1/2001	33.3	mg/kg			
			OU5-CTA-1D-3812(48)-4	8/1/2001	35.7	mg/kg			
			OU5-CTA-1D-3812(48)-SB-DUP42	8/1/2001	1.5 J	mg/kg	OU5-CTA-1D-3812(48)-SB8		
			OU5-CTA-1D-3812(48)-SB1	8/1/2001	2.6	mg/kg			
			OU5-CTA-1D-3812(48)-SB10	8/1/2001	1.1 J	mg/kg			
			OU5-CTA-1D-3812(48)-SB2	8/1/2001	3.9	mg/kg			
			OU5-CTA-1D-3812(48)-SB3	8/1/2001	3.9	mg/kg			
			OU5-CTA-1D-3812(48)-SB4	8/1/2001	2.8	mg/kg			
			OU5-CTA-1D-3812(48)-SB5	8/1/2001	2.6	mg/kg			
			OU5-CTA-1D-3812(48)-SB6	8/1/2001	1.6 J	mg/kg			
			OU5-CTA-1D-3812(48)-SB7	8/1/2001	1.4 J	mg/kg			
			OU5-CTA-1D-3812(48)-SB8	8/1/2001	1.2 J	mg/kg			
			OU5-CTA-1D-3812(48)-SB9	8/1/2001	0.74 J	mg/kg			
CTA	1C	3812 Fordham Road						No	No
			OU5-CTA-1C-3812FR-1	6/25/2001	5.3	mg/kg			
			OU5-CTA-1C-3812FR-2	6/25/2001	6.9	mg/kg			
			OU5-CTA-1C-3812FR-3	6/25/2001	6.3	mg/kg			
			OU5-CTA-1C-3812FR-4	6/25/2001	7.4	mg/kg			
			OU5-CTA-1C-3812FR-SB-1	6/25/2001	3.4	mg/kg			
			OU5-CTA-1C-3812FR-SB-10	6/25/2001	2.2 J	mg/kg			
			OU5-CTA-1C-3812FR-SB-2	6/25/2001	6.2	mg/kg			
			OU5-CTA-1C-3812FR-SB-3	6/25/2001	2.9	mg/kg			
			OU5-CTA-1C-3812FR-SB-4	6/25/2001	3.7	mg/kg			
			OU5-CTA-1C-3812FR-SB-5	6/25/2001	3.3	mg/kg			
			OU5-CTA-1C-3812FR-SB-6	6/25/2001	2 J	mg/kg			
			OU5-CTA-1C-3812FR-SB-7	6/25/2001	2.5	mg/kg			
			OU5-CTA-1C-3812FR-SB-8	6/25/2001	3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-3812FR-SB-9	6/25/2001	4.6	mg/kg			
			OU5-CTA-1C-3812FR-SB-DUP17	6/25/2001	2.1 J	mg/kg	OU5-CTA-1C-3812FR-SB-10		
CSA	***10***	***3813 48th Street***						***No***	***No***
			OU5-CSA-10-3813(48)-1	10/4/2001	4.9	mg/kg			
			OU5-CSA-10-3813(48)-2	10/4/2001	6.8	mg/kg			
CSA	***10***	***3814 47th Street***						***No***	***No***
			OU5-CSA-10-3814(47)-1	7/13/2001	6.6	mg/kg			
			OU5-CSA-10-3814(47)-2	7/13/2001	3.5	mg/kg			
CTA	***1D***	***3815 49th Street***						***Yes***	***No***
			OU5-CTA-1D-3815(49)-1	7/19/2001	3.9	mg/kg			
			OU5-CTA-1D-3815(49)-2	7/19/2001	4.1	mg/kg			
			OU5-CTA-1D-3815(49)-3	7/19/2001	4.6	mg/kg			
			OU5-CTA-1D-3815(49)-4	7/19/2001	4.4	mg/kg			
			OU5-CTA-1D-3815(49)-SB1	7/19/2001	3.6	mg/kg			
			OU5-CTA-1D-3815(49)-SB2	7/19/2001	2.9	mg/kg			
			OU5-CTA-1D-3815(49)-SB3	7/19/2001	1.5 J	mg/kg			
			OU5-CTA-1D-3815(49)-SB4	7/19/2001	1.1 J	mg/kg			
			OU5-CTA-1D-3815(49)-SB5	7/19/2001	0.74 J	mg/kg			
			OU5-CTA-1D-3815(49)-SB6	7/19/2001	3.3 J	mg/kg			
CTA	***1B***	***3815 52nd Street***						***No***	***No***
			OU5-CTA-1B-3815(52)-1	7/16/2001	3	mg/kg			
			OU5-CTA-1B-3815(52)-2	7/16/2001	2.7	mg/kg			
			OU5-CTA-1B-3815(52)-3	7/16/2001	3.9	mg/kg			
			OU5-CTA-1B-3815(52)-4	7/16/2001	3	mg/kg			
			OU5-CTA-1B-3815(52)-SB-1	7/16/2001	3.7	mg/kg			
			OU5-CTA-1B-3815(52)-SB-2	7/16/2001	3.5	mg/kg			
			OU5-CTA-1B-3815(52)-SB-3	7/16/2001	1.3 J	mg/kg			
			OU5-CTA-1B-3815(52)-SB-4	7/16/2001	1.7 J	mg/kg			
			OU5-CTA-1B-3815(52)-SB-5	7/16/2001	1.3 J	mg/kg			
			OU5-CTA-1B-3815(52)-SB-6	7/16/2001	1.2 J	mg/kg			
CTA	***1D***	***3816 48th Street***						***No***	***Yes***
			OU5-CTA-1D-3816(48)-1	7/11/2001	16.2	mg/kg			
			OU5-CTA-1D-3816(48)-2	7/11/2001	6.6	mg/kg			
			OU5-CTA-1D-3816(48)-3	7/11/2001	17.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-3816(48)-4	7/11/2001	18.4	mg/kg			
			OU5-CTA-1D-3816(48)-SB1	7/11/2001	1.4 J	mg/kg			
			OU5-CTA-1D-3816(48)-SB2	7/11/2001	2.1 J	mg/kg			
			OU5-CTA-1D-3816(48)-SB3	7/11/2001	1.4 J	mg/kg			
			OU5-CTA-1D-3816(48)-SB4	7/11/2001	1.3 J	mg/kg			
			OU5-CTA-1D-3816(48)-SB5	7/11/2001	0.62 J	mg/kg			
			OU5-CTA-1D-3816(48)-SB6	7/11/2001	1.4 J	mg/kg			
CTA	*1D*	*3816 49th Street*						*Yes*	*Yes*
			OU5-CTA-1D-3816(49)-1	7/19/2001	5.4	mg/kg			
			OU5-CTA-1D-3816(49)-2	7/19/2001	4.4	mg/kg			
			OU5-CTA-1D-3816(49)-3	7/19/2001	19.5	mg/kg			
			OU5-CTA-1D-3816(49)-4	7/19/2001	24.3	mg/kg			
			OU5-CTA-1D-3816(49)-SB1	7/19/2001	3.7	mg/kg			
			OU5-CTA-1D-3816(49)-SB2	7/19/2001	2.1 J	mg/kg			
			OU5-CTA-1D-3816(49)-SB3	7/19/2001	1.4 J	mg/kg			
			OU5-CTA-1D-3816(49)-SB4	7/19/2001	3.2	mg/kg			
			OU5-CTA-1D-3816(49)-SB5	7/19/2001	2 J	mg/kg			
			OU5-CTA-1D-3816(49)-SB6	7/19/2001	2.8	mg/kg			
CSA	*10*	*3817 47th Street*						*No*	*No*
			OU5-CSA-10-3817(47)-1	7/13/2001	7.3	mg/kg			
			OU5-CSA-10-3817(47)-2	7/13/2001	2.5 J	mg/kg			
CSA	*10*	*3818 47th Street*						*No*	*No*
			OU5-CSA-10-3818(47)-1	7/13/2001	6.8	mg/kg			
			OU5-CSA-10-3818(47)-2	7/13/2001	5.2	mg/kg			
OU4	*OU4*	*3819 48th Street*						*No*	*No*
			OU4-3819-1(0-6)	2/8/2001	4.76	mg/kg			
			OU4-3819-1(12-18)	2/8/2001	2.62	mg/kg			
			OU4-3819-2(0-6)	2/8/2001	5.02	mg/kg			
			OU4-3819-2(12-18)	2/8/2001	2.38	mg/kg			
			OU4-3819-3(0-6)	2/8/2001	6.14	mg/kg			
			OU4-3819-3(12-18)	2/8/2001	2.46	mg/kg			
			OU4-3819-4(0-6)	2/8/2001	6.67	mg/kg			
			OU4-3819-4(12-18)	2/8/2001	2.89	mg/kg			
			OU4-3819-SB-1	2/7/2001	2.2	mg/kg			
			OU4-3819-SB-2	2/7/2001	1.71	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-3819-SB-3	2/7/2001	2.58	mg/kg			
			OU4-3819-SB-4	2/7/2001	1.53	mg/kg			
			OU4-3819-SB-5	2/7/2001	1.91	mg/kg			
			OU4-3819-SB-6	2/7/2001	1.87	mg/kg			
			OU4-3819-SB-DUP04	2/7/2001	1.51	mg/kg	OU4-3819-SB-2		
CTA	***1D***	***3819 49th Street***						***Yes***	***No***
			OU5-CTA-1D-3819(49)-1	6/25/2001	4.7	mg/kg			
			OU5-CTA-1D-3819(49)-2	6/25/2001	11.4	mg/kg			
			OU5-CTA-1D-3819(49)-3	6/25/2001	6.8	mg/kg			
			OU5-CTA-1D-3819(49)-4	6/25/2001	6	mg/kg			
			OU5-CTA-1D-3819(49)-SB-1	6/25/2001	2.4	mg/kg			
			OU5-CTA-1D-3819(49)-SB-2	6/25/2001	2.2 J	mg/kg			
			OU5-CTA-1D-3819(49)-SB-3	6/25/2001	3.9	mg/kg			
			OU5-CTA-1D-3819(49)-SB-4	6/25/2001	4	mg/kg			
			OU5-CTA-1D-3819(49)-SB-5	6/25/2001	5.2	mg/kg			
			OU5-CTA-1D-3819(49)-SB-6	6/25/2001	2.6	mg/kg			
			OU5-CTA-1D-3819(49)-SB-7	6/25/2001	3 J	mg/kg			
			OU5-CTA-1D-3819(49)-SB-8	6/25/2001	2.1 J	mg/kg			
			OU5-CTA-1D-3819(49)-SB-9	6/25/2001	1.3 J	mg/kg			
			OU5-CTA-1D-3819(49)-SB-DUP16	6/25/2001	1.1 J	mg/kg	OU5-CTA-1D-3819(49)-SB-9		
CTA	***1B***	***3820 52nd Street***						***No***	***No***
			OU5-CTA-1B-3820(52)-1	6/22/2001	3.6	mg/kg			
			OU5-CTA-1B-3820(52)-2	6/22/2001	3.7	mg/kg			
			OU5-CTA-1B-3820(52)-3	6/22/2001	2.6 J	mg/kg			
			OU5-CTA-1B-3820(52)-4	6/22/2001	4.2	mg/kg			
			OU5-CTA-1B-3820(52)-SB-1	6/22/2001	3	mg/kg			
			OU5-CTA-1B-3820(52)-SB-2	6/22/2001	2.7	mg/kg			
			OU5-CTA-1B-3820(52)-SB-3	6/22/2001	3.8	mg/kg			
			OU5-CTA-1B-3820(52)-SB-4	6/22/2001	2.3	mg/kg			
			OU5-CTA-1B-3820(52)-SB-5	6/22/2001	2 J	mg/kg			
			OU5-CTA-1B-3820(52)-SB-6	6/22/2001	1.3 J	mg/kg			
			OU5-CTA-1B-3820(52)-SB-7	6/22/2001	1.6 J	mg/kg			
			OU5-CTA-1B-3820(52)-SB-8	6/22/2001	0.93 JL	mg/kg			
CTA	***1C***	***3822 Fordham Road***						***Yes***	***Yes***
			OU5-CTA-1C-3822FR-1	8/21/2001	6.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-3822FR-2	8/21/2001	6.1		mg/kg			
			OU5-CTA-1C-3822FR-3	8/21/2001	16.7		mg/kg			
			OU5-CTA-1C-3822FR-4	8/21/2001	5.7		mg/kg			
			OU5-CTA-1C-3822FR-SB1	8/21/2001	2.6		mg/kg			
			OU5-CTA-1C-3822FR-SB2	8/21/2001	1.3	J	mg/kg			
			OU5-CTA-1C-3822FR-SB3	8/21/2001	0.54	U	mg/kg			
			OU5-CTA-1C-3822FR-SB4	8/21/2001	6		mg/kg			
			OU5-CTA-1C-3822FR-SB5	8/21/2001	0.55	U	mg/kg			
			OU5-CTA-1C-3822FR-SB6	8/21/2001	0.54	U	mg/kg			
CTA	*1D*	*3823 Fordham Road*							*Yes*	*No*
			OU5-CTA-1D-3823FR-1	6/7/2001	2.5		mg/kg			
			OU5-CTA-1D-3823FR-2	6/7/2001	2.3	J	mg/kg			
			OU5-CTA-1D-3823FR-3	6/7/2001	4.8		mg/kg			
			OU5-CTA-1D-3823FR-4	6/7/2001	2.7	J	mg/kg			
			OU5-CTA-1D-3823FR-SB1	6/7/2001	2.9		mg/kg			
			OU5-CTA-1D-3823FR-SB2	6/7/2001	1.5	J	mg/kg			
			OU5-CTA-1D-3823FR-SB3	6/7/2001	1.3	J	mg/kg			
			OU5-CTA-1D-3823FR-SB4	6/7/2001	2.8		mg/kg			
			OU5-CTA-1D-3823FR-SB5	6/7/2001	0.37	U	mg/kg			
			OU5-CTA-1D-3823FR-SB6	6/7/2001	0.81	J	mg/kg			
CSA	*8*	*3825 45th Street*							*No*	*No*
			OU5-CSA-8-3825(45)-1	11/15/2001	6.9		mg/kg			
			OU5-CSA-8-3825(45)-2	11/15/2001	3.8		mg/kg			
			OU5-CSA-8-3825(45)-DUP91	11/15/2001	3.5		mg/kg	OU5-CSA-8-3825(45)-2		
CTA	*1B*	*3825 52nd Street*							*No*	*No*
			OU5-CTA-1B-3825(52)-1	4/24/2002	3		mg/kg			
			OU5-CTA-1B-3825(52)-2	4/24/2002	4.2		mg/kg			
			OU5-CTA-1B-3825(52)-3	4/24/2002	4.9		mg/kg			
			OU5-CTA-1B-3825(52)-4	4/24/2002	8.5		mg/kg			
			OU5-CTA-1B-3825(52)-SB1	4/24/2002	2.1		mg/kg			
			OU5-CTA-1B-3825(52)-SB2	4/24/2002	1.4	J	mg/kg			
			OU5-CTA-1B-3825(52)-SB3	4/24/2002	3.5		mg/kg			
			OU5-CTA-1B-3825(52)-SB4	4/24/2002	4.6		mg/kg			
			OU5-CTA-1B-3825(52)-SB5	4/24/2002	3.6		mg/kg			
			OU5-CTA-1B-3825(52)-SB6	4/24/2002	1.9		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1B	3828 52nd Street							No	No
			OU5-CTA-1B-3828(52)-1	8/27/2001	6.2		mg/kg			
			OU5-CTA-1B-3828(52)-2	8/27/2001	3.6		mg/kg			
			OU5-CTA-1B-3828(52)-3	8/27/2001	3		mg/kg			
			OU5-CTA-1B-3828(52)-4	8/27/2001	2.8	J	mg/kg			
			OU5-CTA-1B-3828(52)-SB1	8/27/2001	3		mg/kg			
			OU5-CTA-1B-3828(52)-SB2	8/27/2001	3.4		mg/kg			
			OU5-CTA-1B-3828(52)-SB3	8/27/2001	1.5	J	mg/kg			
			OU5-CTA-1B-3828(52)-SB4	8/27/2001	1.1	J	mg/kg			
			OU5-CTA-1B-3828(52)-SB5	8/27/2001	1.6	J	mg/kg			
			OU5-CTA-1B-3828(52)-SB6	8/27/2001	2.4		mg/kg			
CTA	1B	3838 52nd Street							Yes	No
			OU5-CTA-1B-3838(52)-1	6/22/2001	2.4	JL	mg/kg			
			OU5-CTA-1B-3838(52)-2	6/22/2001	3	L	mg/kg			
			OU5-CTA-1B-3838(52)-3	6/22/2001	1.7	JL	mg/kg			
			OU5-CTA-1B-3838(52)-4	6/22/2001	2.6	L	mg/kg			
			OU5-CTA-1B-3838(52)-SB-1	6/22/2001	5.3		mg/kg			
			OU5-CTA-1B-3838(52)-SB-10	6/22/2001	1.1	J	mg/kg			
			OU5-CTA-1B-3838(52)-SB-2	6/22/2001	1.4	J	mg/kg			
			OU5-CTA-1B-3838(52)-SB-3	6/22/2001	2.4		mg/kg			
			OU5-CTA-1B-3838(52)-SB-4	6/22/2001	2.4		mg/kg			
			OU5-CTA-1B-3838(52)-SB-5	6/22/2001	0.83	J	mg/kg			
			OU5-CTA-1B-3838(52)-SB-6	6/22/2001	1.3	J	mg/kg			
			OU5-CTA-1B-3838(52)-SB-7	6/22/2001	1.6	J	mg/kg			
			OU5-CTA-1B-3838(52)-SB-8	6/22/2001	0.99	J	mg/kg			
			OU5-CTA-1B-3838(52)-SB-9	6/22/2001	1.4	J	mg/kg			
CSA	8	3850 Nebraska Avenue, Lot 11							No	No
			OU5-CSA-8-L11-1	8/23/2001	7.3		mg/kg			
			OU5-CSA-8-L11-2	8/23/2001	6.2		mg/kg			
CSA	8	3850 Nebraska Avenue, Lot 12							No	No
			OU5-CSA-8-L12-1	8/23/2001	6		mg/kg			
			OU5-CSA-8-L12-2	8/23/2001	6.4		mg/kg			
CSA	8	3850 Nebraska Avenue, Lot 13							No	No
			OU5-CSA-8-L13-1	8/23/2001	6		mg/kg			
			OU5-CSA-8-L13-2	8/23/2001	6		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	8	3850 Nebraska Avenue, Lot 14							No	No
			OU5-CSA-8-L14-1	8/23/2001	7.1		mg/kg			
			OU5-CSA-8-L14-2	8/23/2001	5.7		mg/kg			
CSA	10	3880 University Avenue							Yes	No
			OU5-CSA-10-3880UA-1	7/26/2001	5.9		mg/kg			
			OU5-CSA-10-3880UA-2	7/26/2001	4.3		mg/kg			
			OU5-CSA-10-3880UA-SB-1	7/26/2001	3.4		mg/kg			
			OU5-CSA-10-3880UA-SB-2	7/26/2001	3.6		mg/kg			
			OU5-CSA-10-3880UA-SB-3	7/26/2001	6.2		mg/kg			
			OU5-CSA-10-3880UA-SB-4	7/26/2001	3.1		mg/kg			
			OU5-CSA-10-3880UA-SB-5	7/26/2001	4.8		mg/kg			
			OU5-CSA-10-3880UA-SB-6	7/26/2001	1.9	J	mg/kg			
			OU5-CSA-10-3880UA-SB-7	7/26/2001	0.48	J	mg/kg			
			OU5-CSA-10-3880UA-SB-8	7/26/2001	1.5	J	mg/kg			
CSA	4	3900 48th Street							No	No
			OU5-CSA-4-3900(48)-1	6/29/2001	2.9		mg/kg			
			OU5-CSA-4-3900(48)-2	6/29/2001	3.4		mg/kg			
CTA	1D	3900 49th Street							Yes	No
			OU5-CTA-1D-3900(49)-1	6/25/2001	4.3		mg/kg			
			OU5-CTA-1D-3900(49)-2	6/25/2001	4.6		mg/kg			
			OU5-CTA-1D-3900(49)-3	6/25/2001	4.1		mg/kg			
			OU5-CTA-1D-3900(49)-4	6/25/2001	5.3		mg/kg			
			OU5-CTA-1D-3900(49)-SB1	6/25/2001	4.6		mg/kg			
			OU5-CTA-1D-3900(49)-SB2	6/25/2001	2.5		mg/kg			
			OU5-CTA-1D-3900(49)-SB3	6/25/2001	4.2		mg/kg			
			OU5-CTA-1D-3900(49)-SB4	6/25/2001	3.2		mg/kg			
			OU5-CTA-1D-3900(49)-SB5	6/25/2001	4		mg/kg			
			OU5-CTA-1D-3900(49)-SB6	6/25/2001	2.6		mg/kg			
			OU5-CTA-1D-3900(49)-SB7	6/25/2001	1.8	J	mg/kg			
			OU5-CTA-1D-3900(49)-SB8	6/25/2001	1.3	J	mg/kg			
			OU5-CTA-1D-3900(49)-SB9	6/25/2001	1.2	J	mg/kg			
CSA	7	3900 Nebraska Avenue, Lot 1							Yes	No
			OU5-CSA-7-L1-1	8/27/2001	2.8	L	mg/kg			
			OU5-CSA-7-L1-2	8/27/2001	2.3	JL	mg/kg			
			OU5-CSA-7-L1-SB-DUP60	8/27/2001	3	JL	mg/kg	OU5-CSA-7-L1-SB4		

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-7-L1-SB1	8/27/2001	1.4 JL	mg/kg			
			OU5-CSA-7-L1-SB2	8/27/2001	1.4 JL	mg/kg			
			OU5-CSA-7-L1-SB3	8/27/2001	1.2 JL	mg/kg			
			OU5-CSA-7-L1-SB4	8/27/2001	0.74 UL	mg/kg			
			OU5-CSA-7-L1-SB5	8/27/2001	0.71 UL	mg/kg			
			OU5-CSA-7-L1-SB6	8/27/2001	0.78 JL	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 13*						*No*	*No*
			OU5-CSA-7-L13-1	8/27/2001	4.1 L	mg/kg			
			OU5-CSA-7-L13-2	8/27/2001	4.5 L	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 14*						*No*	*No*
			OU5-CSA-7-L14-1	8/27/2001	3.7 L	mg/kg			
			OU5-CSA-7-L14-2	8/27/2001	4.5 L	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 16*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-7-L16-1	8/27/2001	5.4 L	mg/kg			
			OU5-CSA-7-L16-2	8/27/2001	16.4 UL	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 2*						*Yes*	*No*
			OU5-CSA-7-L2-1	8/27/2001	4.2 L	mg/kg			
			OU5-CSA-7-L2-2	8/27/2001	2.6 L	mg/kg			
			OU5-CSA-7-L2-SBA1	8/27/2001	1.5 JL	mg/kg			
			OU5-CSA-7-L2-SBA2	8/27/2001	4 L	mg/kg			
			OU5-CSA-7-L2-SBA3	8/27/2001	3.6 L	mg/kg			
			OU5-CSA-7-L2-SBA4	8/27/2001	2.9 JL	mg/kg			
			OU5-CSA-7-L2-SBA5	8/27/2001	2.7 L	mg/kg			
			OU5-CSA-7-L2-SBA6	8/27/2001	2.2 JL	mg/kg			
			OU5-CSA-7-L2-SBA7	8/27/2001	0.66 UL	mg/kg			
			OU5-CSA-7-L2-SBA8	8/27/2001	2.2 JL	mg/kg			
			OU5-CSA-7-L2-SBA9	8/27/2001	2.8 L	mg/kg			
			OU5-CSA-7-L2-SBB1	8/27/2001	1.6 JL	mg/kg			
			OU5-CSA-7-L2-SBB2	8/27/2001	1.7 JL	mg/kg			
			OU5-CSA-7-L2-SBB3	8/27/2001	1 JL	mg/kg			
			OU5-CSA-7-L2-SBB4	8/27/2001	0.73 JL	mg/kg			
			OU5-CSA-7-L2-SBB5	8/27/2001	0.67 UL	mg/kg			
			OU5-CSA-7-L2-SBB6	8/27/2001	0.84 JL	mg/kg			
			OU5-CSA-7-L2-SBC1	8/27/2001	1.3 JL	mg/kg			
			OU5-CSA-7-L2-SBC2	8/27/2001	2 JL	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-7-L2-SBC3	8/27/2001	0.76 JL	mg/kg			
			OU5-CSA-7-L2-SBC4	8/27/2001	1.4 JL	mg/kg			
			OU5-CSA-7-L2-SBC5	8/27/2001	1 JL	mg/kg			
			OU5-CSA-7-L2-SBC6	8/27/2001	2.1 JL	mg/kg			
			OU5-CSA-7-L2-SBC7	8/27/2001	2.7 L	mg/kg			
			OU5-CSA-7-L2-SBC8	8/27/2001	0.84 JL	mg/kg			
			OU5-CSA-7-L2-SBC9	8/27/2001	1.6 JL	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 20*						*No*	*No*
			OU5-CSA-7-L20-1	8/27/2001	4.2 L	mg/kg			
			OU5-CSA-7-L20-2	8/27/2001	6 L	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 21*						*No*	*No*
			OU5-CSA-7-L21-1	8/27/2001	3.7 L	mg/kg			
			OU5-CSA-7-L21-2	8/27/2001	5.1 L	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 22*						*No*	*No*
			OU5-CSA-7-L22-1	8/27/2001	4.7 L	mg/kg			
			OU5-CSA-7-L22-2	8/27/2001	6.6 L	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 24*						*No*	*No*
			OU5-CSA-7-L24-1	8/27/2001	5.9 L	mg/kg			
			OU5-CSA-7-L24-2	8/27/2001	6 L	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 26*						*No*	*No*
			OU5-CSA-7-L26-1	8/27/2001	5.3 L	mg/kg			
			OU5-CSA-7-L26-2	8/27/2001	6.4 L	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 27*						*No*	*No*
			OU5-CSA-7-L27-1	8/27/2001	6.2 L	mg/kg			
			OU5-CSA-7-L27-2	8/27/2001	5.3 L	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 7*						*Yes*	*No*
			OU5-CSA-7-L7-1	8/27/2001	3.1 L	mg/kg			
			OU5-CSA-7-L7-2	8/27/2001	5.4 L	mg/kg			
			OU5-CSA-7-L7-DUP51	8/27/2001	3.9 L	mg/kg	OU5-CSA-7-L7-2		
			OU5-CSA-7-L7-SB1	8/27/2001	3.8 L	mg/kg			
			OU5-CSA-7-L7-SB2	8/27/2001	2.3 JL	mg/kg			
			OU5-CSA-7-L7-SB3	8/27/2001	2.7 L	mg/kg			
			OU5-CSA-7-L7-SB4	8/27/2001	3.5 L	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-7-L7-SB5	8/27/2001	1.2 JL	mg/kg			
			OU5-CSA-7-L7-SB6	8/27/2001	0.62 UL	mg/kg			
			OU5-CSA-7-L7-SB7	8/27/2001	2 JL	mg/kg			
			OU5-CSA-7-L7-SB8	8/27/2001	1.6 JL	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 8*						*No*	*No*
			OU5-CSA-7-L8-1	8/27/2001	2.5 JL	mg/kg			
			OU5-CSA-7-L8-2	8/27/2001	3.8 L	mg/kg			
CSA	*7*	*3900 Nebraska Avenue, Lot 9*						*No*	*No*
			OU5-CSA-7-L9-1	8/27/2001	3.9 L	mg/kg			
			OU5-CSA-7-L9-2	8/27/2001	4.3 L	mg/kg			
CSA	*4*	*3900 University Avenue*						*Yes*	*No*
			OU5-CSA-4-3900UA-1	7/6/2001	3.6	mg/kg			
			OU5-CSA-4-3900UA-2	7/6/2001	3.7	mg/kg			
			OU5-CSA-4-3900UA-SB1	8/6/2001	3.3	mg/kg			
			OU5-CSA-4-3900UA-SB2	8/6/2001	3.7	mg/kg			
			OU5-CSA-4-3900UA-SB3	8/6/2001	4.5	mg/kg			
			OU5-CSA-4-3900UA-SB4	8/6/2001	1.6 J	mg/kg			
			OU5-CSA-4-3900UA-SB5	8/6/2001	1.3 J	mg/kg			
			OU5-CSA-4-3900UA-SB6	8/6/2001	1.6 J	mg/kg			
			OU5-CSA-4-3900UA-SB7	8/6/2001	0.94 J	mg/kg			
CSA	*8*	*3901 45th Street*						*Yes*	*No*
			OU5-CSA-8-3901(45)-1	8/8/2001	10.3	mg/kg			
			OU5-CSA-8-3901(45)-2	8/8/2001	7.5	mg/kg			
			OU5-CSA-8-3901(45)-SB1	8/8/2001	3.1	mg/kg			
			OU5-CSA-8-3901(45)-SB10	8/8/2001	3.7	mg/kg			
			OU5-CSA-8-3901(45)-SB2	8/8/2001	5.3	mg/kg			
			OU5-CSA-8-3901(45)-SB3	8/8/2001	2.3 J	mg/kg			
			OU5-CSA-8-3901(45)-SB4	8/8/2001	1.7 J	mg/kg			
			OU5-CSA-8-3901(45)-SB5	8/8/2001	5.3	mg/kg			
			OU5-CSA-8-3901(45)-SB6	8/8/2001	1.5 J	mg/kg			
			OU5-CSA-8-3901(45)-SB7	8/8/2001	1.5 J	mg/kg			
			OU5-CSA-8-3901(45)-SB8	8/8/2001	2 J	mg/kg			
			OU5-CSA-8-3901(45)-SB9	8/8/2001	5.1	mg/kg			
CSA	*4*	*3901 47th Street*						*No*	*No*
			OU5-CSA-4-3901(47)-1	7/13/2001	6.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-4-3901(47)-2	7/13/2001	5.4		mg/kg			
CTA	**1B**	**3901 52nd Street**							**No**	**No**
			OU5-CTA-1B-3901(52)-1	10/22/2001	2.8		mg/kg			
			OU5-CTA-1B-3901(52)-2	10/22/2001	7.9		mg/kg			
			OU5-CTA-1B-3901(52)-3	10/22/2001	4.6		mg/kg			
			OU5-CTA-1B-3901(52)-4	10/22/2001	6		mg/kg			
			OU5-CTA-1B-3901(52)-SB-DUP84	10/22/2001	1.8	J	mg/kg	OU5-CTA-1B-3901(52)-SB5		
			OU5-CTA-1B-3901(52)-SB1	10/22/2001	2.3	J	mg/kg			
			OU5-CTA-1B-3901(52)-SB2	10/22/2001	1.6	J	mg/kg			
			OU5-CTA-1B-3901(52)-SB3	10/22/2001	1.7	J	mg/kg			
			OU5-CTA-1B-3901(52)-SB4	10/22/2001	1.8	J	mg/kg			
			OU5-CTA-1B-3901(52)-SB5	10/22/2001	2.4		mg/kg			
			OU5-CTA-1B-3901(52)-SB6	10/22/2001	2.3		mg/kg			
CTA	**1D**	**3901 Fordham Road**							**Yes**	**No**
			OU5-CTA-1D-3901FR-1	12/3/2001	1.4	J	mg/kg			
			OU5-CTA-1D-3901FR-2	12/3/2001	1.4	J	mg/kg			
			OU5-CTA-1D-3901FR-3	12/3/2001	2.8		mg/kg			
			OU5-CTA-1D-3901FR-4	12/3/2001	3.7		mg/kg			
			OU5-CTA-1D-3901FR-SB1	12/3/2001	1	J	mg/kg			
			OU5-CTA-1D-3901FR-SB2	12/3/2001	1.7	J	mg/kg			
			OU5-CTA-1D-3901FR-SB3	12/3/2001	1.9	J	mg/kg			
			OU5-CTA-1D-3901FR-SB4	12/3/2001	2.4		mg/kg			
			OU5-CTA-1D-3901FR-SB5	12/3/2001	1.7	J	mg/kg			
			OU5-CTA-1D-3901FR-SB6	12/3/2001	0.61	J	mg/kg			
			OU5-CTA-1D-3901FR-SB7	12/3/2001	0.72	J	mg/kg			
			OU5-CTA-1D-3901FR-SB8	12/3/2001	0.81	J	mg/kg			
			OU5-CTA-1D-3901FR-SB9	12/3/2001	0.37	U	mg/kg			
CSA	**4**	**3905 47th Street**							**No**	**No**
			OU5-CSA-4-3905(47)-1	7/13/2001	3.8		mg/kg			
			OU5-CSA-4-3905(47)-2	7/13/2001	3	J	mg/kg			
			OU5-CSA-4-3905(47)-DUP20	7/13/2001	3.1		mg/kg	OU5-CSA-4-3905(47)-2		
CSA	**4**	**3906 47th Street**							**No**	**No**
			OU5-CSA-4-3906(47)-1	7/13/2001	3.8		mg/kg			
			OU5-CSA-4-3906(47)-2	7/13/2001	4.4		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	3908 48th Street						No	No
			OU5-CSA-4-3908(48)-1	7/6/2001	4.2	mg/kg			
			OU5-CSA-4-3908(48)-2	7/6/2001	4.1	mg/kg			
CTA	1D	3908 49th Street						No	No
			OU5-CTA-1D-3908(49)-1	7/16/2001	6 L	mg/kg			
			OU5-CTA-1D-3908(49)-2	7/16/2001	5.4 L	mg/kg			
			OU5-CTA-1D-3908(49)-3	7/16/2001	7.5 L	mg/kg			
			OU5-CTA-1D-3908(49)-4	7/16/2001	5.7 L	mg/kg			
			OU5-CTA-1D-3908(49)-DUP25	7/16/2001	4.2 L	mg/kg	OU5-CTA-1D-3908(49)-2		
			OU5-CTA-1D-3908(49)-SB-1	7/16/2001	14 L	mg/kg			
			OU5-CTA-1D-3908(49)-SB-2	7/16/2001	3.6 L	mg/kg			
			OU5-CTA-1D-3908(49)-SB-3	7/16/2001	3.1 L	mg/kg			
			OU5-CTA-1D-3908(49)-SB-4	7/16/2001	4.6 L	mg/kg			
			OU5-CTA-1D-3908(49)-SB-5	7/16/2001	2.3 L	mg/kg			
			OU5-CTA-1D-3908(49)-SB-6	7/16/2001	1.2 JL	mg/kg			
CSA	4	3909 48th Street						No	No
			OU5-CSA-4-3909(48)-1	7/13/2001	6.8	mg/kg			
			OU5-CSA-4-3909(48)-2	7/13/2001	4.5	mg/kg			
CSA	8	3910 44th Street						Yes	No
			OU5-CSA-8-3910(44)-1	12/3/2001	4.9	mg/kg			
			OU5-CSA-8-3910(44)-2	12/3/2001	6.3	mg/kg			
			OU5-CSA-8-3910(44)-SB1	12/3/2001	2.9	mg/kg			
			OU5-CSA-8-3910(44)-SB10	12/3/2001	8.7	mg/kg			
			OU5-CSA-8-3910(44)-SB2	12/3/2001	9.9	mg/kg			
			OU5-CSA-8-3910(44)-SB3	12/3/2001	5.5	mg/kg			
			OU5-CSA-8-3910(44)-SB4	12/3/2001	7.6	mg/kg			
			OU5-CSA-8-3910(44)-SB5	12/3/2001	3.6	mg/kg			
			OU5-CSA-8-3910(44)-SB6	12/3/2001	5.2	mg/kg			
			OU5-CSA-8-3910(44)-SB7	12/3/2001	2.4	mg/kg			
			OU5-CSA-8-3910(44)-SB8	12/3/2001	5.9	mg/kg			
			OU5-CSA-8-3910(44)-SB9	12/3/2001	12.1	mg/kg			
CSA	4	3910 47th Street						No	No
			OU5-CSA-4-3910(47)-1	6/18/2001	4.4	mg/kg			
			OU5-CSA-4-3910(47)-2	6/18/2001	4.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	3911 47th Street						No	No
			OU5-CSA-4-3911(47)-1	7/13/2001	2.7	mg/kg			
			OU5-CSA-4-3911(47)-2	7/13/2001	4.1	mg/kg			
CTA	1D	3913 49th Street						No	No
			OU5-CTA-1D-3913(49)-1	7/5/2001	3.5	mg/kg			
			OU5-CTA-1D-3913(49)-2	7/5/2001	3	mg/kg			
			OU5-CTA-1D-3913(49)-3	7/5/2001	5.5	mg/kg			
			OU5-CTA-1D-3913(49)-4	7/5/2001	5.5	mg/kg			
			OU5-CTA-1D-3913(49)-DUP15	7/5/2001	5.5	mg/kg	OU5-CTA-1D-3913(49)-4		
			OU5-CTA-1D-3913(49)-SB1	7/5/2001	6.1	mg/kg			
			OU5-CTA-1D-3913(49)-SB2	7/5/2001	2.8	mg/kg			
			OU5-CTA-1D-3913(49)-SB3	7/5/2001	3.9	mg/kg			
			OU5-CTA-1D-3913(49)-SB4	7/5/2001	3.2	mg/kg			
			OU5-CTA-1D-3913(49)-SB5	7/5/2001	1.2 J	mg/kg			
			OU5-CTA-1D-3913(49)-SB6	7/5/2001	1.1 J	mg/kg			
			OU5-CTA-1D-3913(49)-SB7	7/5/2001	1.2 J	mg/kg			
			OU5-CTA-1D-3913(49)-SB8	7/5/2001	0.51 J	mg/kg			
CTA	1D	3914 49th Street						No	No
			OU5-CTA-1D-3914(49)-1	6/14/2001	4.7	mg/kg			
			OU5-CTA-1D-3914(49)-2	6/14/2001	5	mg/kg			
			OU5-CTA-1D-3914(49)-3	6/14/2001	4.5	mg/kg			
			OU5-CTA-1D-3914(49)-4	6/14/2001	4	mg/kg			
			OU5-CTA-1D-3914(49)-DUP05	6/14/2001	5	mg/kg	OU5-CTA-1D-3914(49)-4		
			OU5-CTA-1D-3914(49)-SB1	6/14/2001	3.4	mg/kg			
			OU5-CTA-1D-3914(49)-SB2	6/14/2001	2.2	mg/kg			
			OU5-CTA-1D-3914(49)-SB3	6/14/2001	4.5	mg/kg			
			OU5-CTA-1D-3914(49)-SB4	6/14/2001	3	mg/kg			
			OU5-CTA-1D-3914(49)-SB5	6/14/2001	1.7 J	mg/kg			
			OU5-CTA-1D-3914(49)-SB6	6/14/2001	1.1 J	mg/kg			
			OU5-CTA-1D-3914(49)-SB7	6/14/2001	1.6 J	mg/kg			
			OU5-CTA-1D-3914(49)-SBDUP07	6/14/2001	2.6	mg/kg	OU5-CTA-1D-3914(49)-SB2		
CSA	4	3915 47th Street						No	No
			OU5-CSA-4-3915(47)-1	7/13/2001	3.6	mg/kg			
			OU5-CSA-4-3915(47)-2	7/13/2001	4.3	mg/kg			
			OU5-CSA-4-3915(47)-DUP22	7/13/2001	3.6	mg/kg	OU5-CSA-4-3915(47)-2		

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	3915 48th Street							Yes	No
			OU5-CSA-4-3915(48)-1	7/13/2001	3.7		mg/kg			
			OU5-CSA-4-3915(48)-2	7/13/2001	2.8		mg/kg			
			OU5-CSA-4-3915(48)-SB1	8/8/2001	3.3		mg/kg			
			OU5-CSA-4-3915(48)-SB10	8/8/2001	2.1	J	mg/kg			
			OU5-CSA-4-3915(48)-SB2	8/8/2001	2.6		mg/kg			
			OU5-CSA-4-3915(48)-SB3	8/8/2001	1.7	J	mg/kg			
			OU5-CSA-4-3915(48)-SB4	8/8/2001	16.9		mg/kg			
			OU5-CSA-4-3915(48)-SB5	8/8/2001	5.1		mg/kg			
			OU5-CSA-4-3915(48)-SB6	8/8/2001	5.3		mg/kg			
			OU5-CSA-4-3915(48)-SB7	8/8/2001	3.1		mg/kg			
			OU5-CSA-4-3915(48)-SB8	8/8/2001	2.3	J	mg/kg			
			OU5-CSA-4-3915(48)-SB9	8/8/2001	0.83	J	mg/kg			
CTA	1D	3915 49th Street							No	No
			OU5-CTA-1D-3915(49)-1	7/12/2001	9.1		mg/kg			
			OU5-CTA-1D-3915(49)-2	7/12/2001	4.4		mg/kg			
			OU5-CTA-1D-3915(49)-3	7/12/2001	4.5		mg/kg			
			OU5-CTA-1D-3915(49)-4	7/12/2001	3		mg/kg			
			OU5-CTA-1D-3915(49)-SB-DUP30	7/12/2001	3.1		mg/kg	OU5-CTA-1D-3915(49)-SB6		
			OU5-CTA-1D-3915(49)-SB1	7/12/2001	5.6		mg/kg			
			OU5-CTA-1D-3915(49)-SB2	7/12/2001	4.9		mg/kg			
			OU5-CTA-1D-3915(49)-SB3	7/12/2001	4.5		mg/kg			
			OU5-CTA-1D-3915(49)-SB4	7/12/2001	2.4		mg/kg			
			OU5-CTA-1D-3915(49)-SB5	7/12/2001	1.3	J	mg/kg			
			OU5-CTA-1D-3915(49)-SB6	7/12/2001	1.2	J	mg/kg			
			OU5-CTA-1D-3915(49)-SB7	7/12/2001	1.3	J	mg/kg			
			OU5-CTA-1D-3915(49)-SB8	7/12/2001	1.9	J	mg/kg			
CSA	8	3916 44th Street							No	No
			OU5-CSA-8-3916(44)-1	2/14/2002	7		mg/kg			
			OU5-CSA-8-3916(44)-2	2/14/2002	7		mg/kg			
CSA	4	3916 47th Street							No	No
			OU5-CSA-4-3916(47)-1	5/1/2002	5.6		mg/kg			
			OU5-CSA-4-3916(47)-2	5/1/2002	6.5		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	3916 48th Street						No	No
			OU5-CSA-4-3916(48)-1	6/29/2001	3	mg/kg			
			OU5-CSA-4-3916(48)-2	6/29/2001	2.9	mg/kg			
CSA	4	3920 47th Street						No	No
			OU5-CSA-4-3920(47)-1	7/13/2001	4.5	mg/kg			
			OU5-CSA-4-3920(47)-2	7/13/2001	5.2	mg/kg			
CTA	1D	3920 49th Street						No	No
			OU5-CTA-1D-3920(49)-1	3/27/2002	4.7	mg/kg			
			OU5-CTA-1D-3920(49)-2	3/27/2002	4.4	mg/kg			
			OU5-CTA-1D-3920(49)-3	3/27/2002	5.3	mg/kg			
			OU5-CTA-1D-3920(49)-4	3/27/2002	4.4	mg/kg			
			OU5-CTA-1D-3920(49)-DUP111	3/27/2002	4.2	mg/kg	OU5-CTA-1D-3920(49)-2		
			OU5-CTA-1D-3920(49)-SB1	3/27/2002	2.5	mg/kg			
			OU5-CTA-1D-3920(49)-SB2	3/27/2002	2.6	mg/kg			
			OU5-CTA-1D-3920(49)-SB3	3/27/2002	1.9	mg/kg			
			OU5-CTA-1D-3920(49)-SB4	3/27/2002	1.4 J	mg/kg			
			OU5-CTA-1D-3920(49)-SB5	3/27/2002	1.1 J	mg/kg			
			OU5-CTA-1D-3920(49)-SB6	3/27/2002	2	mg/kg			
CTA	1D	3921 49th Street						No	No
			OU5-CTA-1D-3921(49)-1	7/5/2001	3.4	mg/kg			
			OU5-CTA-1D-3921(49)-2	7/5/2001	4.6	mg/kg			
			OU5-CTA-1D-3921(49)-3	7/5/2001	4.8	mg/kg			
			OU5-CTA-1D-3921(49)-4	7/5/2001	5.4	mg/kg			
			OU5-CTA-1D-3921(49)-SB-1	7/5/2001	1.7 J	mg/kg			
			OU5-CTA-1D-3921(49)-SB-2	7/5/2001	4.2	mg/kg			
			OU5-CTA-1D-3921(49)-SB-3	7/5/2001	1.9 J	mg/kg			
			OU5-CTA-1D-3921(49)-SB-4	7/5/2001	0.92 J	mg/kg			
			OU5-CTA-1D-3921(49)-SB-5	7/5/2001	0.91 J	mg/kg			
			OU5-CTA-1D-3921(49)-SB-6	7/5/2001	0.42 U	mg/kg			
			OU5-CTA-1D-3921(49)-SB-8	7/5/2001	0.96 J	mg/kg			
			OU5-CTA-1D-3921(49)-SB-9	7/5/2001	1.1 J	mg/kg			
			OU5-CTA-1D-3921(49)-SB7	7/5/2001	5 J	mg/kg			
CSA	8	3922 44th Street						No	No
			OU5-CSA-8-3922(44)-1	11/20/2001	6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-8-3922(44)-2	11/20/2001	4.3		mg/kg			
CTA	1D	3933 Fordham Road							Yes	Yes
			OU5-CTA-1D-3933FR-1	7/5/2001	8.2		mg/kg			
			OU5-CTA-1D-3933FR-2	7/5/2001	9.5		mg/kg			
			OU5-CTA-1D-3933FR-3	7/5/2001	18		mg/kg			
			OU5-CTA-1D-3933FR-4	7/5/2001	23.3		mg/kg			
			OU5-CTA-1D-3933FR-SB-DUP23	7/5/2001	0.62	J	mg/kg	OU5-CTA-1D-3933FR-SB4		
			OU5-CTA-1D-3933FR-SB1	7/5/2001	40.7		mg/kg			
			OU5-CTA-1D-3933FR-SB2	7/5/2001	1.4	J	mg/kg			
			OU5-CTA-1D-3933FR-SB3	7/5/2001	1.2	J	mg/kg			
			OU5-CTA-1D-3933FR-SB4	7/5/2001	0.55	J	mg/kg			
			OU5-CTA-1D-3933FR-SB5	7/5/2001	0.56	J	mg/kg			
			OU5-CTA-1D-3933FR-SB6	7/5/2001	0.59	J	mg/kg			
			OU5-CTA-1D-3933FR-SB7	7/5/2001	0.44	J	mg/kg			
CTA	1D	3939 Fordham Road							No	No
			OU5-1D-CTA-3939FR-1	6/7/2001	5.4		mg/kg			
			OU5-1D-CTA-3939FR-2	6/7/2001	5.1		mg/kg			
			OU5-1D-CTA-3939FR-3	6/7/2001	3.9		mg/kg			
			OU5-1D-CTA-3939FR-4	6/7/2001	3.2		mg/kg			
			OU5-1D-CTA-3939FR-SB-1	6/7/2001	2.1	J	mg/kg			
			OU5-1D-CTA-3939FR-SB-2	6/7/2001	2.2	J	mg/kg			
			OU5-1D-CTA-3939FR-SB-3	6/7/2001	1.2	J	mg/kg			
			OU5-1D-CTA-3939FR-SB-4	6/7/2001	1.7	J	mg/kg			
			OU5-1D-CTA-3939FR-SB-5	6/7/2001	1.5	J	mg/kg			
			OU5-1D-CTA-3939FR-SB-6	6/7/2001	2.4		mg/kg			
			OU5-1D-CTA-3939FR-SB-7	6/7/2001	4.6		mg/kg			
			OU5-1D-CTA-3939FR-SB-8	6/7/2001	1.7	J	mg/kg			
			OU5-1D-CTA-3939FR-SB-9	6/7/2001	0.93	J	mg/kg			
			OU5-1D-CTA-3939FR-SB-DUP03	6/7/2001	1.6	J	mg/kg	OU5-1D-CTA-3939FR-SB-8		
CTA	1C	3940 Fordham Road							Yes	Yes
			OU5-CTA-1C-3940FR-1	7/24/2001	3.7		mg/kg			
			OU5-CTA-1C-3940FR-2	7/24/2001	3.6		mg/kg			
			OU5-CTA-1C-3940FR-3	7/24/2001	3.5		mg/kg			
			OU5-CTA-1C-3940FR-4	7/24/2001	16.4		mg/kg			
			OU5-CTA-1C-3940FR-SB-1	7/24/2001	2.1	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-3940FR-SB-10	7/24/2001	3		mg/kg			
			OU5-CTA-1C-3940FR-SB-2	7/24/2001	2.5		mg/kg			
			OU5-CTA-1C-3940FR-SB-3	7/24/2001	3.4		mg/kg			
			OU5-CTA-1C-3940FR-SB-4	7/24/2001	4.2		mg/kg			
			OU5-CTA-1C-3940FR-SB-5	7/24/2001	4.1		mg/kg			
			OU5-CTA-1C-3940FR-SB-6	7/24/2001	5.7		mg/kg			
			OU5-CTA-1C-3940FR-SB-7	7/24/2001	5.1		mg/kg			
			OU5-CTA-1C-3940FR-SB-8	7/24/2001	4.7		mg/kg			
			OU5-CTA-1C-3940FR-SB-9	7/24/2001	4.1		mg/kg			
			OU5-CTA-1C-3940FR-SB-DUP37	7/24/2001	3.3		mg/kg	OU5-CTA-1C-3940FR-SB-3		
CTA	*1B*	*3949 52nd Street*							*No*	*No*
			OU5-CTA-1B-3949(52)-1	7/16/2001	4.4		mg/kg			
			OU5-CTA-1B-3949(52)-2	7/16/2001	5.6		mg/kg			
			OU5-CTA-1B-3949(52)-3	7/16/2001	3		mg/kg			
			OU5-CTA-1B-3949(52)-4	7/16/2001	6.4		mg/kg			
			OU5-CTA-1B-3949(52)-SB-1	7/16/2001	2.1	J	mg/kg			
			OU5-CTA-1B-3949(52)-SB-2	7/16/2001	3.2		mg/kg			
			OU5-CTA-1B-3949(52)-SB-3	7/16/2001	1.5	J	mg/kg			
			OU5-CTA-1B-3949(52)-SB-4	7/16/2001	2.7		mg/kg			
			OU5-CTA-1B-3949(52)-SB-5	7/16/2001	1.1	J	mg/kg			
			OU5-CTA-1B-3949(52)-SB-6	7/16/2001	1.9	J	mg/kg			
			OU5-CTA-1B-3949(52)-SB-DUP30	7/16/2001	0.92	J	mg/kg	OU5-CTA-1B-3949(52)-SB-3		
CSA	*4*	*4000 47th Street*							*No*	*Yes + 1' arsenic boring*
			OU5-CSA-4-4000(47)-1	10/24/2001	24.4		mg/kg			
			OU5-CSA-4-4000(47)-2	10/24/2001	23.5		mg/kg			
CTA	*1B*	*4000 52nd Street*							*No*	*No*
			OU5-CTA-1B-4000(52)-1	7/16/2001	3.3		mg/kg			
			OU5-CTA-1B-4000(52)-2	7/16/2001	3.1		mg/kg			
			OU5-CTA-1B-4000(52)-3	7/16/2001	4.2		mg/kg			
			OU5-CTA-1B-4000(52)-4	7/16/2001	3.6		mg/kg			
			OU5-CTA-1B-4000(52)-SB-1	7/16/2001	3		mg/kg			
			OU5-CTA-1B-4000(52)-SB-2	7/16/2001	1	J	mg/kg			
			OU5-CTA-1B-4000(52)-SB-3	7/16/2001	3.9		mg/kg			
			OU5-CTA-1B-4000(52)-SB-4	7/16/2001	3.8		mg/kg			
			OU5-CTA-1B-4000(52)-SB-5	7/16/2001	0.38	U	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-4000(52)-SB-6	7/16/2001	0.48 J	mg/kg			
			OU5-CTA-1B-4000(52)-SB-DUP31	7/16/2001	0.55 J	mg/kg	OU5-CTA-1B-4000(52)-SB-5		
CTA	1C	4000 Fordham Road						No	No
			OU5-CTA-1C-4000FR-1	7/2/2001	3.1	mg/kg			
			OU5-CTA-1C-4000FR-2	7/2/2001	5.4	mg/kg			
			OU5-CTA-1C-4000FR-3	7/2/2001	2.2 J	mg/kg			
			OU5-CTA-1C-4000FR-4	7/2/2001	2.8	mg/kg			
			OU5-CTA-1C-4000FR-DUP14	7/2/2001	3	mg/kg	OU5-CTA-1C-4000FR-1		
			OU5-CTA-1C-4000FR-SB1	7/2/2001	2.6	mg/kg			
			OU5-CTA-1C-4000FR-SB2	7/2/2001	1.4 J	mg/kg			
			OU5-CTA-1C-4000FR-SB3	7/2/2001	2.3	mg/kg			
			OU5-CTA-1C-4000FR-SB4	7/2/2001	1.2 J	mg/kg			
			OU5-CTA-1C-4000FR-SB5	7/2/2001	1.3 J	mg/kg			
			OU5-CTA-1C-4000FR-SB6	7/2/2001	2.2 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 10						No	No
			OU5-CSA-7-L10-1	11/7/2001	6 J	mg/kg			
			OU5-CSA-7-L10-2	11/7/2001	3.2 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 11						No	No
			OU5-CSA-7-L11-1	11/7/2001	5.8 J	mg/kg			
			OU5-CSA-7-L11-2	11/7/2001	4.6 J	mg/kg			
			OU5-CSA-7-L11-DUP84	11/7/2001	5.9 J	mg/kg	OU5-CSA-7-L11-1		
CSA	7	4000 Nebraska Avenue, Lot 12						No	No
			OU5-CSA-7-L12-1	11/7/2001	5.7 J	mg/kg			
			OU5-CSA-7-L12-2	11/7/2001	4.8 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 15						No	No
			OU5-CSA-7-L15-1	11/7/2001	3.6 J	mg/kg			
			OU5-CSA-7-L15-2	11/7/2001	4.1 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 17						No	No
			OU5-CSA-7-L17-1	11/7/2001	4.6 J	mg/kg			
			OU5-CSA-7-L17-2	11/7/2001	4.4 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 18						No	No
			OU5-CSA-7-L18-1	11/7/2001	4.6 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-7-L18-2	11/7/2001	5.9 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 19						No	No
			OU5-CSA-7-L19-1	11/7/2001	5.3 J	mg/kg			
			OU5-CSA-7-L19-2	11/7/2001	3.8 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 23						No	No
			OU5-CSA-7-L23-1	11/7/2001	5.9 J	mg/kg			
			OU5-CSA-7-L23-2	11/7/2001	4.2 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 25						No	Yes + specialty boring
			OU5-CSA-7-L25-1	11/7/2001	89.2 J	mg/kg			
			OU5-CSA-7-L25-2	11/7/2001	4.3 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 3						No	No
			OU5-CSA-7-L3-1	11/7/2001	4.9 J	mg/kg			
			OU5-CSA-7-L3-2	11/7/2001	7.1 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 4						No	No
			OU5-CSA-7-L4-1	11/7/2001	3.1 J	mg/kg			
			OU5-CSA-7-L4-2	11/7/2001	6 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 5						No	No
			OU5-CSA-7-L5-1	11/7/2001	5.6 J	mg/kg			
			OU5-CSA-7-L5-2	11/7/2001	4.1 J	mg/kg			
CSA	7	4000 Nebraska Avenue, Lot 6						No	No
			OU5-CSA-7-L6-1	11/7/2001	6 J	mg/kg			
			OU5-CSA-7-L6-2	11/7/2001	5.9 J	mg/kg			
CSA	7	4000 Wisconsin Avenue, Lot 58						No	No
			OU5-CSA-7-L58-1	8/29/2002	4.3	mg/kg			
			OU5-CSA-7-L58-2	8/29/2002	4.3	mg/kg			
			OU5-CSA-7-L58-DUP116	8/29/2002	3.9	mg/kg	OU5-CSA-7-L58-1		
			OU5-CSA-7-L58-SB-DUP112	8/29/2002	2.8	mg/kg	OU5-CSA-7-L58-SB2		
			OU5-CSA-7-L58-SB1	8/29/2002	2.3	mg/kg			
			OU5-CSA-7-L58-SB2	8/29/2002	2.7	mg/kg			
			OU5-CSA-7-L58-SB3	8/29/2002	1.8	mg/kg			
			OU5-CSA-7-L58-SB4	8/29/2002	4.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	4001 47th Street							No	Yes + 1' arsenic boring
			OU5-CSA-4-4001(47)-1	11/14/2001	31.5		mg/kg			
			OU5-CSA-4-4001(47)-2	11/14/2001	30.4		mg/kg			
CSA	4	4004 47th Street - This property was grid sampled as 4000 47th St (same owner)							Yes	Yes
			OU5-CSA-4-4004(47)-1	1/8/2002	10.2		mg/kg			
			OU5-CSA-4-4004(47)-2	1/8/2002	14.3		mg/kg			
			OU5-CSA-4-4004(47)-SB1	1/8/2002	7		mg/kg			
			OU5-CSA-4-4004(47)-SB2	1/8/2002	1.1	J	mg/kg			
			OU5-CSA-4-4004(47)-SB3	1/8/2002	1	J	mg/kg			
			OU5-CSA-4-4004(47)-SB4	1/8/2002	1.6	J	mg/kg			
			OU5-CSA-4-4004(47)-SB5	1/8/2002	0.94	J	mg/kg			
			OU5-CSA-4-4004(47)-SB6	1/8/2002	1.2	J	mg/kg			
CSA	4	4004 48th Street							No	No
			OU5-CSA-4-4004(48)-1	7/13/2001	4.3		mg/kg			
			OU5-CSA-4-4004(48)-2	7/13/2001	2.5	J	mg/kg			
CTA	1D	4004 49th Street							No	Yes
			OU5-CTA-1D-4004(49)-1	9/6/2001	28.1		mg/kg			
			OU5-CTA-1D-4004(49)-2	9/6/2001	5.9		mg/kg			
			OU5-CTA-1D-4004(49)-3	9/6/2001	3.8		mg/kg			
			OU5-CTA-1D-4004(49)-4	9/6/2001	3.7		mg/kg			
			OU5-CTA-1D-4004(49)-DUP67	9/6/2001	1.2	J	mg/kg	OU5-CTA-1D-4004(49)-SB8		
			OU5-CTA-1D-4004(49)-SB1	9/6/2001	2.1	J	mg/kg			
			OU5-CTA-1D-4004(49)-SB2	9/6/2001	0.61	U	mg/kg			
			OU5-CTA-1D-4004(49)-SB3	9/6/2001	1.5	J	mg/kg			
			OU5-CTA-1D-4004(49)-SB4	9/6/2001	0.76	J	mg/kg			
			OU5-CTA-1D-4004(49)-SB5	9/6/2001	1.3	J	mg/kg			
			OU5-CTA-1D-4004(49)-SB6	9/6/2001	1.4	J	mg/kg			
			OU5-CTA-1D-4004(49)-SB7	9/6/2001	1.2	J	mg/kg			
			OU5-CTA-1D-4004(49)-SB8	9/6/2001	0.81	J	mg/kg			
			OU5-CTA-1D-4004(49)-SB9	9/6/2001	1	J	mg/kg			
CSA	4	4005 47th Street							No	Yes + 1' arsenic boring
			OU5-CSA-4-4005(47)-1	10/24/2001	28.7		mg/kg			
			OU5-CSA-4-4005(47)-2	10/24/2001	42		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1B	4005 52nd Street						No	Yes
			OU5-CTA-1B-4005(52)-1	6/11/2001	7.3	mg/kg			
			OU5-CTA-1B-4005(52)-2	6/11/2001	9.6	mg/kg			
			OU5-CTA-1B-4005(52)-3	6/11/2001	80.2	mg/kg			
			OU5-CTA-1B-4005(52)-4	6/11/2001	50.7	mg/kg			
			OU5-CTA-1B-4005(52)-SB-1	6/11/2001	3.6	mg/kg			
			OU5-CTA-1B-4005(52)-SB-2	6/11/2001	2.2 J	mg/kg			
			OU5-CTA-1B-4005(52)-SB-3	6/11/2001	1.9 J	mg/kg			
			OU5-CTA-1B-4005(52)-SB-4	6/11/2001	3.3	mg/kg			
			OU5-CTA-1B-4005(52)-SB-5	6/11/2001	4.6	mg/kg			
			OU5-CTA-1B-4005(52)-SB-6	6/11/2001	3.8	mg/kg			
			OU5-CTA-1B-4005(52)-SB-DUP04	6/11/2001	1.9 J	mg/kg	OU5-CTA-1B-4005(52)-SB-3		
CSA	4	4007 49th Street						No	Yes + specialty boring
			OU5-CSA-4-4007(49)-1	6/29/2001	81.2	mg/kg			
			OU5-CSA-4-4007(49)-2	6/29/2001	18.6	mg/kg			
CSA	4	4008 47th Street						No	Yes + 1' arsenic boring
			OU5-CSA-4-4008(47)-1	10/24/2001	18.6	mg/kg			
			OU5-CSA-4-4008(47)-2	10/24/2001	21.4	mg/kg			
CSA	4	4009 47th Street						No	Yes + 1' arsenic boring
			OU5-CSA-4-4009(47)-1	10/24/2001	20.9	mg/kg			
			OU5-CSA-4-4009(47)-2	10/24/2001	26.6	mg/kg			
CSA	4	4009 48th Street						No	No
			OU5-CSA-4-4009(48)-1	7/13/2001	2.9	mg/kg			
			OU5-CSA-4-4009(48)-2	7/13/2001	2.8 J	mg/kg			
CSA	4	4010 48th Street						No	No
			OU5-CSA-4-4010(48)-1	6/12/2001	3.3	mg/kg			
			OU5-CSA-4-4010(48)-2	6/12/2001	3.5	mg/kg			
CTA	1B	4010 51st Street						No	No
			OU5-CTA-1B-4010(51)-1	7/19/2001	4.3	mg/kg			
			OU5-CTA-1B-4010(51)-2	7/19/2001	5	mg/kg			
			OU5-CTA-1B-4010(51)-3	7/19/2001	3.9	mg/kg			
			OU5-CTA-1B-4010(51)-4	7/19/2001	3.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-4010(51)-SB-1	7/19/2001	2.6	mg/kg			
			OU5-CTA-1B-4010(51)-SB-10	7/19/2001	4.6	mg/kg			
			OU5-CTA-1B-4010(51)-SB-2	7/19/2001	2.8	mg/kg			
			OU5-CTA-1B-4010(51)-SB-3	7/19/2001	4.1	mg/kg			
			OU5-CTA-1B-4010(51)-SB-4	7/19/2001	3.7	mg/kg			
			OU5-CTA-1B-4010(51)-SB-5	7/19/2001	3.7	mg/kg			
			OU5-CTA-1B-4010(51)-SB-6	7/19/2001	5.1	mg/kg			
			OU5-CTA-1B-4010(51)-SB-7	7/19/2001	4.2	mg/kg			
			OU5-CTA-1B-4010(51)-SB-8	7/19/2001	3.5	mg/kg			
			OU5-CTA-1B-4010(51)-SB-9	7/19/2001	4.7	mg/kg			
CSA	*7*	*4010 Van Ness Street*						*Yes*	*No*
			OU5-CSA-7-4010VNS-1	7/26/2001	5.6	mg/kg			
			OU5-CSA-7-4010VNS-2	7/26/2001	5.1	mg/kg			
			OU5-CSA-7-4010VNS-DUP39	7/26/2001	10	mg/kg	OU5-CSA-7-4010VNS-SB-3		
			OU5-CSA-7-4010VNS-SB-1	7/26/2001	4.7	mg/kg			
			OU5-CSA-7-4010VNS-SB-2	7/26/2001	3.4	mg/kg			
			OU5-CSA-7-4010VNS-SB-3	7/26/2001	8.3	mg/kg			
			OU5-CSA-7-4010VNS-SB-4	7/26/2001	13.2	mg/kg			
			OU5-CSA-7-4010VNS-SB-5	7/26/2001	3.5	mg/kg			
			OU5-CSA-7-4010VNS-SB-6	7/26/2001	5.9	mg/kg			
			OU5-CSA-7-4010VNS-SB-7	7/26/2001	7.2	mg/kg			
			OU5-CSA-7-4010VNS-SB-8	7/26/2001	7.7	mg/kg			
			OU5-CSA-7-4010VNS-SB-9	7/26/2001	6.2	mg/kg			
CSA	*4*	*4012 47th Street*						*No*	*Yes + specialty boring*
			OU5-CSA-4-4012(47)-1	10/24/2001	26.4	mg/kg			
			OU5-CSA-4-4012(47)-2	10/24/2001	22.7	mg/kg			
			OU5-CSA-4-4012(47)-DUP78	10/24/2001	45	mg/kg	OU5-CSA-4-4012(47)-1		
CTA	*1D*	*4014 49th Street*						*No*	*No*
			OU5-CTA-1D-4014(49)-1	6/6/2001	4.2	mg/kg			
			OU5-CTA-1D-4014(49)-2	6/6/2001	4.2	mg/kg			
			OU5-CTA-1D-4014(49)-3	6/6/2001	2.5 J	mg/kg			
			OU5-CTA-1D-4014(49)-4	6/6/2001	2.2 J	mg/kg			
			OU5-CTA-1D-4014(49)-SB-1	6/6/2001	2.1 J	mg/kg			
			OU5-CTA-1D-4014(49)-SB-2	6/6/2001	0.49 J	mg/kg			
			OU5-CTA-1D-4014(49)-SB-3	6/6/2001	0.88 J	mg/kg			
			OU5-CTA-1D-4014(49)-SB-4	6/6/2001	0.83 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4014(49)-SB-5	6/6/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4014(49)-SB-6	6/6/2001	0.84 J	mg/kg			
			OU5-CTA-1D-4014(49)-SB-7	6/6/2001	0.43 U	mg/kg			
			OU5-CTA-1D-4014(49)-SB-DUP02	6/6/2001	0.85 J	mg/kg	OU5-CTA-1D-4014(49)-SB-6		
CSA	***4***	***4015 49th Street***						***No***	***No***
			OU5-CSA-4-4015(49)-1	7/6/2001	3.7	mg/kg			
			OU5-CSA-4-4015(49)-2	7/6/2001	4.5	mg/kg			
CTA	***1C***	***4015 51st Street***						***No***	***No***
			OU5-CTA-1C-4015(51)-1	6/6/2001	3.5	mg/kg			
			OU5-CTA-1C-4015(51)-2	6/6/2001	2.5 J	mg/kg			
			OU5-CTA-1C-4015(51)-3	6/6/2001	4.1	mg/kg			
			OU5-CTA-1C-4015(51)-4	6/6/2001	5.6	mg/kg			
			OU5-CTA-1C-4015(51)-SB-1	6/6/2001	2.5	mg/kg			
			OU5-CTA-1C-4015(51)-SB-2	6/6/2001	0.49 J	mg/kg			
			OU5-CTA-1C-4015(51)-SB-3	6/6/2001	2 J	mg/kg			
			OU5-CTA-1C-4015(51)-SB-4	6/6/2001	0.66 J	mg/kg			
			OU5-CTA-1C-4015(51)-SB-5	6/6/2001	1 J	mg/kg			
			OU5-CTA-1C-4015(51)-SB-6	6/6/2001	0.42 U	mg/kg			
			OU5-CTA-1C-4015(51)-SB-7	6/6/2001	0.43 U	mg/kg			
			OU5-CTA-1C-4015(51)-SB-8	6/6/2001	0.45 U	mg/kg			
			OU5-CTA-1C-4015(51)-SB-9	6/6/2001	0.43 U	mg/kg			
CTA	***1B***	***4015 52nd Street***						***No***	***Yes***
			OU5-CTA-1B-4015(52)-1	6/8/2001	5.2	mg/kg			
			OU5-CTA-1B-4015(52)-2	6/8/2001	7.1	mg/kg			
			OU5-CTA-1B-4015(52)-3	6/8/2001	27.1	mg/kg			
			OU5-CTA-1B-4015(52)-4	6/8/2001	3.8	mg/kg			
			OU5-CTA-1B-4015(52)-SB-1	6/8/2001	2.2 J	mg/kg			
			OU5-CTA-1B-4015(52)-SB-2	6/8/2001	1.1 J	mg/kg			
			OU5-CTA-1B-4015(52)-SB-3	6/8/2001	2.6	mg/kg			
			OU5-CTA-1B-4015(52)-SB-4	6/8/2001	2.3 J	mg/kg			
			OU5-CTA-1B-4015(52)-SB-5	6/8/2001	3	mg/kg			
			OU5-CTA-1B-4015(52)-SB-6	6/8/2001	2.8	mg/kg			
CSA	***4***	***4016 47th Street***						***No***	***Yes + 1' arsenic boring***
			OU5-CSA-4-4016(47)-1	10/24/2001	32.3	mg/kg			
			OU5-CSA-4-4016(47)-2	10/24/2001	30.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	4016 48th Street						No	No
			OU5-CSA-4-4016(48)-1	10/24/2001	5.5	mg/kg			
			OU5-CSA-4-4016(48)-2	10/24/2001	3.1	mg/kg			
CSA	4	4017 48th Street						No	No
			OU5-CSA-4-4017(48)-1	9/19/2001	5 J	mg/kg			
			OU5-CSA-4-4017(48)-2	9/19/2001	3.5 J	mg/kg			
CTA	1D	4020 49th Street						No	No
			OU5-CTA-1D-4020(49)-1	6/6/2001	3.8 JK	mg/kg			
			OU5-CTA-1D-4020(49)-2	6/6/2001	3.9 JK	mg/kg			
			OU5-CTA-1D-4020(49)-3	6/6/2001	3.2 JK	mg/kg			
			OU5-CTA-1D-4020(49)-4	6/6/2001	4.6 JK	mg/kg			
			OU5-CTA-1D-4020(49)-DUP01	6/6/2001	5.2 JK	mg/kg	OU5-CTA-1D-4020(49)-4		
			OU5-CTA-1D-4020(49)-SB-1	6/6/2001	1.4 JK	mg/kg			
			OU5-CTA-1D-4020(49)-SB-2	6/6/2001	1.8 JK	mg/kg			
			OU5-CTA-1D-4020(49)-SB-3	6/6/2001	1.4 JK	mg/kg			
			OU5-CTA-1D-4020(49)-SB-4	6/6/2001	2.3 JK	mg/kg			
			OU5-CTA-1D-4020(49)-SB-5	6/6/2001	0.42 U	mg/kg			
			OU5-CTA-1D-4020(49)-SB-6	6/6/2001	0.86 U	mg/kg			
CTA	1B	4020 51st Street						No	No
			OU5-CTA-1B-4020(51)-1	6/18/2001	5.1	mg/kg			
			OU5-CTA-1B-4020(51)-2	6/18/2001	5.4	mg/kg			
			OU5-CTA-1B-4020(51)-3	6/18/2001	4.9	mg/kg			
			OU5-CTA-1B-4020(51)-4	6/18/2001	6.2	mg/kg			
			OU5-CTA-1B-4020(51)-DUP07	6/18/2001	5.7	mg/kg	OU5-CTA-1B-4020(51)-3		
			OU5-CTA-1B-4020(51)-SB-1	6/18/2001	4.4	mg/kg			
			OU5-CTA-1B-4020(51)-SB-2	6/18/2001	0.77	mg/kg			
			OU5-CTA-1B-4020(51)-SB-3	6/18/2001	0.65	mg/kg			
			OU5-CTA-1B-4020(51)-SB-4	6/18/2001	0.59	mg/kg			
			OU5-CTA-1B-4020(51)-SB-5	6/18/2001	1.4	mg/kg			
			OU5-CTA-1B-4020(51)-SB-6	6/18/2001	2.4	mg/kg			
CTA	1C	4020 Fordham Road						Yes	No
			OU5-CTA-1C-4020FR-1	7/31/2001	3.9	mg/kg			
			OU5-CTA-1C-4020FR-2	7/31/2001	3.2	mg/kg			
			OU5-CTA-1C-4020FR-3	7/31/2001	4.7	mg/kg			
			OU5-CTA-1C-4020FR-4	7/31/2001	5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-4020FR-SB-1	7/31/2001	1.2 J	mg/kg			
			OU5-CTA-1C-4020FR-SB-2	7/31/2001	0.57 U	mg/kg			
			OU5-CTA-1C-4020FR-SB-3	7/31/2001	2.1 J	mg/kg			
			OU5-CTA-1C-4020FR-SB-4	7/31/2001	2 J	mg/kg			
			OU5-CTA-1C-4020FR-SB-5	7/31/2001	0.75 J	mg/kg			
			OU5-CTA-1C-4020FR-SB-6	7/31/2001	0.56 U	mg/kg			
			OU5-CTA-1C-4020FR-SB-DUP41	7/31/2001	0.62 J	mg/kg	OU5-CTA-1C-4020FR-SB-5		
CSA	***4***	***4021 48th Street***						***No***	***No***
			OU5-CSA-4-4021(48)-1	7/13/2001	3	mg/kg			
			OU5-CSA-4-4021(48)-2	7/13/2001	4.2	mg/kg			
CTA	***1D***	***4021 Fordham Road***						***Yes***	***No***
			OU5-CTA-1D-4021FR-1	7/30/2001	3.3	mg/kg			
			OU5-CTA-1D-4021FR-2	7/30/2001	3.9	mg/kg			
			OU5-CTA-1D-4021FR-3	7/30/2001	3.5	mg/kg			
			OU5-CTA-1D-4021FR-4	7/30/2001	3.5	mg/kg			
			OU5-CTA-1D-4021FR-DUP36	7/30/2001	3.8	mg/kg	OU5-CTA-1D-4021FR-4		
			OU5-CTA-1D-4021FR-SB-1	7/30/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4021FR-SB-2	7/30/2001	5.7	mg/kg			
			OU5-CTA-1D-4021FR-SB-3	7/30/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4021FR-SB-4	7/30/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4021FR-SB-5	7/30/2001	0.54 J	mg/kg			
			OU5-CTA-1D-4021FR-SB-6	7/30/2001	0.37 U	mg/kg			
CTA	***1B***	***4030 51st Street***						***No***	***No***
			OU5-CTA-1B-4030(51)-1	6/6/2001	3.6	mg/kg			
			OU5-CTA-1B-4030(51)-2	6/6/2001	4.6	mg/kg			
			OU5-CTA-1B-4030(51)-3	6/6/2001	5.1	mg/kg			
			OU5-CTA-1B-4030(51)-4	6/6/2001	5	mg/kg			
			OU5-CTA-1B-4030(51)-SB-1	6/6/2001	2.1 J	mg/kg			
			OU5-CTA-1B-4030(51)-SB-2	6/6/2001	2.6	mg/kg			
			OU5-CTA-1B-4030(51)-SB-3	6/6/2001	2.4 J	mg/kg			
			OU5-CTA-1B-4030(51)-SB-4	6/6/2001	2.3 J	mg/kg			
			OU5-CTA-1B-4030(51)-SB-5	6/6/2001	1.6 J	mg/kg			
CTA	***1B***	***4040 51st Street***						***No***	***No***
			OU5-CTA-1B-4040(51)-1	6/25/2001	4.1	mg/kg			
			OU5-CTA-1B-4040(51)-2	6/25/2001	5.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-4040(51)-3	6/25/2001	7.7	mg/kg			
			OU5-CTA-1B-4040(51)-4	6/25/2001	6.4	mg/kg			
			OU5-CTA-1B-4040(51)-SB1	6/25/2001	2.6	mg/kg			
			OU5-CTA-1B-4040(51)-SB2	6/25/2001	1.7 J	mg/kg			
			OU5-CTA-1B-4040(51)-SB3	6/25/2001	3.1	mg/kg			
			OU5-CTA-1B-4040(51)-SB4	6/25/2001	2.4	mg/kg			
			OU5-CTA-1B-4040(51)-SB5	6/25/2001	2.4 J	mg/kg			
			OU5-CTA-1B-4040(51)-SB6	6/25/2001	3.6	mg/kg			
CTA	*1B*	*4040 52nd Street*						*Yes*	*No*
			OU5-CTA-1B-4040(52)-1	10/23/2001	3.7	mg/kg			
			OU5-CTA-1B-4040(52)-2	10/23/2001	3.8	mg/kg			
			OU5-CTA-1B-4040(52)-3	10/23/2001	5.5	mg/kg			
			OU5-CTA-1B-4040(52)-4	10/23/2001	4.8	mg/kg			
			OU5-CTA-1B-4040(52)-SB-DUP86	10/23/2001	0.47 J	mg/kg	OU5-CTA-1B-4040(52)-SB5		
			OU5-CTA-1B-4040(52)-SB1	10/23/2001	2.2 J	mg/kg			
			OU5-CTA-1B-4040(52)-SB2	10/23/2001	1.7 J	mg/kg			
			OU5-CTA-1B-4040(52)-SB3	10/23/2001	0.37 U	mg/kg			
			OU5-CTA-1B-4040(52)-SB4	10/23/2001	2 J	mg/kg			
			OU5-CTA-1B-4040(52)-SB5	10/23/2001	0.8 J	mg/kg			
			OU5-CTA-1B-4040(52)-SB6	10/23/2001	0.38 U	mg/kg			
CTA	*1B*	*4050 52nd Street*						*Yes*	*No*
			OU5-CTA-1B-4050(52)-1	7/19/2001	5.1	mg/kg			
			OU5-CTA-1B-4050(52)-2	7/19/2001	4.2	mg/kg			
			OU5-CTA-1B-4050(52)-3	7/19/2001	4.3	mg/kg			
			OU5-CTA-1B-4050(52)-4	7/19/2001	3.4 J	mg/kg			
			OU5-CTA-1B-4050(52)-SB-1	7/19/2001	3.4	mg/kg			
			OU5-CTA-1B-4050(52)-SB-2	7/19/2001	2.3	mg/kg			
			OU5-CTA-1B-4050(52)-SB-3	7/19/2001	2.1	mg/kg			
			OU5-CTA-1B-4050(52)-SB-4	7/19/2001	2.1	mg/kg			
			OU5-CTA-1B-4050(52)-SB-5	7/19/2001	1.9 J	mg/kg			
CTA	*1B*	*4054 52nd Terrace*						*Yes*	*No*
			OU5-CTA-1B-4054(52T)-1	8/2/2001	2.5 J	mg/kg			
			OU5-CTA-1B-4054(52T)-2	8/2/2001	4.7	mg/kg			
			OU5-CTA-1B-4054(52T)-3	8/2/2001	4.1	mg/kg			
			OU5-CTA-1B-4054(52T)-4	8/2/2001	7.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-4054(52T)-SB-1	8/2/2001	1.1 J	mg/kg			
			OU5-CTA-1B-4054(52T)-SB-2	8/2/2001	1.6 J	mg/kg			
			OU5-CTA-1B-4054(52T)-SB-3	8/2/2001	1.8 J	mg/kg			
			OU5-CTA-1B-4054(52T)-SB-4	8/2/2001	1.3 J	mg/kg			
			OU5-CTA-1B-4054(52T)-SB-5	8/2/2001	0.87 J	mg/kg			
			OU5-CTA-1B-4054(52T)-SB-6	8/2/2001	0.62 J	mg/kg			
			OU5-CTA-1B-4054(52T)-SB-DUP45	8/2/2001	3.1	mg/kg	OU5-CTA-1B-4054(52T)-SB-3		
CTA	*1B*	*4055 52nd Terrace*						*Yes*	*No*
			OU5-CTA-1B-4055(52T)-1	6/7/2001	6.6	mg/kg			
			OU5-CTA-1B-4055(52T)-2	6/7/2001	3.4	mg/kg			
			OU5-CTA-1B-4055(52T)-3	6/7/2001	6	mg/kg			
			OU5-CTA-1B-4055(52T)-4	6/7/2001	5.5	mg/kg			
			OU5-CTA-1B-4055(52T)-SB DUP02	6/7/2001	1.4 J	mg/kg	OU5-CTA-1B-4055(52T)-SB3		
			OU5-CTA-1B-4055(52T)-SB1	6/7/2001	2.5	mg/kg			
			OU5-CTA-1B-4055(52T)-SB2	6/7/2001	3.5	mg/kg			
			OU5-CTA-1B-4055(52T)-SB3	6/7/2001	1.3 J	mg/kg			
			OU5-CTA-1B-4055(52T)-SB4	6/7/2001	1 J	mg/kg			
			OU5-CTA-1B-4055(52T)-SB5	6/7/2001	0.89 J	mg/kg			
			OU5-CTA-1B-4055(52T)-SB6	6/7/2001	0.54 J	mg/kg			
			OU5-CTA-1B-4055(52T)-SB7	6/7/2001	0.7 J	mg/kg			
CTA	*1B*	*4060 52nd Terrace*						*Yes*	*No*
			OU5-CTA-1B-4060(52T)-1	8/2/2001	3 J	mg/kg			
			OU5-CTA-1B-4060(52T)-2	8/2/2001	2.6	mg/kg			
			OU5-CTA-1B-4060(52T)-3	8/2/2001	3.3	mg/kg			
			OU5-CTA-1B-4060(52T)-4	8/2/2001	6.1	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-1	8/2/2001	1.1 J	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-10	8/2/2001	0.51 J	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-2	8/2/2001	1.6 J	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-3	8/2/2001	2.2	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-4	8/2/2001	2.1 J	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-5	8/2/2001	2.1 J	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-6	8/2/2001	2.7	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-7	8/2/2001	3.1	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-8	8/2/2001	2.2	mg/kg			
			OU5-CTA-1B-4060(52T)-SB-9	8/2/2001	0.67 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-4060(52T)-SB-DUP44	8/2/2001	1.1	J	mg/kg	OU5-CTA-1B-4060(52T)-SB-3		
CTA	1B	4070 52nd Street							Yes	Yes
			OU5-CTA-1B-4070(52)-1	10/23/2001	14.4		mg/kg			
			OU5-CTA-1B-4070(52)-2	10/23/2001	6.2		mg/kg			
			OU5-CTA-1B-4070(52)-3	10/23/2001	12.3		mg/kg			
			OU5-CTA-1B-4070(52)-4	10/23/2001	7.4		mg/kg			
			OU5-CTA-1B-4070(52)-DUP77	10/23/2001	9.9		mg/kg	OU5-CTA-1B-4070(52)-3		
			OU5-CTA-1B-4070(52)-SB1	10/23/2001	2.2		mg/kg			
			OU5-CTA-1B-4070(52)-SB2	10/23/2001	3.4		mg/kg			
			OU5-CTA-1B-4070(52)-SB3	10/23/2001	2.9		mg/kg			
			OU5-CTA-1B-4070(52)-SB4	10/23/2001	1.3	J	mg/kg			
			OU5-CTA-1B-4070(52)-SB5	10/23/2001	2.4		mg/kg			
			OU5-CTA-1B-4070(52)-SB6	10/23/2001	1.3	J	mg/kg			
			OU5-CTA-1B-4070(52)-SB7	10/23/2001	1	J	mg/kg			
CTA	1D	4100 49th Street							No	No
			OU5-CTA-1D-4100(49)-1	8/28/2001	4.7		mg/kg			
			OU5-CTA-1D-4100(49)-2	8/28/2001	5.4		mg/kg			
			OU5-CTA-1D-4100(49)-3	8/28/2001	3.6		mg/kg			
			OU5-CTA-1D-4100(49)-4	8/28/2001	3.8		mg/kg			
			OU5-CTA-1D-4100(49)-DUP52	8/28/2001	5.1		mg/kg	OU5-CTA-1D-4100(49)-2		
			OU5-CTA-1D-4100(49)-SB1	8/28/2001	2.8		mg/kg			
			OU5-CTA-1D-4100(49)-SB2	8/28/2001	1.6	J	mg/kg			
			OU5-CTA-1D-4100(49)-SB3	8/28/2001	1.4	J	mg/kg			
			OU5-CTA-1D-4100(49)-SB4	8/28/2001	3.1		mg/kg			
			OU5-CTA-1D-4100(49)-SB5	8/28/2001	2.9		mg/kg			
			OU5-CTA-1D-4100(49)-SB6	8/28/2001	3.9		mg/kg			
			OU5-CTA-1D-4100(49)-SB7	8/28/2001	1.9	J	mg/kg			
			OU5-CTA-1D-4100(49)-SB8	8/28/2001	0.82	J	mg/kg			
CTA	1B	4100 52nd Street							No	No
			OU5-CTA-1B-4100(52)-1	6/6/2001	3.6		mg/kg			
			OU5-CTA-1B-4100(52)-2	6/6/2001	9.8		mg/kg			
			OU5-CTA-1B-4100(52)-3	6/6/2001	3.7		mg/kg			
			OU5-CTA-1B-4100(52)-4	6/6/2001	3.4		mg/kg			
			OU5-CTA-1B-4100(52)-SB-1	6/6/2001	1.9	J	mg/kg			
			OU5-CTA-1B-4100(52)-SB-2	6/6/2001	2	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-4100(52)-SB-3	6/6/2001	1.2 J	mg/kg			
			OU5-CTA-1B-4100(52)-SB-4	6/6/2001	0.44 J	mg/kg			
			OU5-CTA-1B-4100(52)-SB-5	6/6/2001	0.88 J	mg/kg			
			OU5-CTA-1B-4100(52)-SB-6	6/6/2001	2 J	mg/kg			
			OU5-CTA-1B-4100(52)-SB-7	6/6/2001	0.98 J	mg/kg			
			OU5-CTA-1B-4100(52)-SB-8	6/6/2001	0.39 U	mg/kg			
			OU5-CTA-1B-4100(52)-SB-DUP01	6/6/2001	0.39 U	mg/kg	OU5-CTA-1B-4100(52)-SB-8		
CSA	*7*	*4100 Nebraska Avenue*						*No*	*No*
			OU5-CSA-7-4100NA-1	8/3/2001	5.1	mg/kg			
			OU5-CSA-7-4100NA-2	8/3/2001	6.6	mg/kg			
CTA	*1D*	*4101 Fordham Road*						*Yes*	*No*
			OU5-CTA-1D-4101FR-1	6/13/2001	3.4	mg/kg			
			OU5-CTA-1D-4101FR-2	6/13/2001	4.3	mg/kg			
			OU5-CTA-1D-4101FR-3	6/13/2001	3.9	mg/kg			
			OU5-CTA-1D-4101FR-4	6/13/2001	3.9	mg/kg			
			OU5-CTA-1D-4101FR-SB-1	6/13/2001	4.8	mg/kg			
			OU5-CTA-1D-4101FR-SB-2	6/13/2001	3.6	mg/kg			
			OU5-CTA-1D-4101FR-SB-3	6/13/2001	0.81 J	mg/kg			
			OU5-CTA-1D-4101FR-SB-4	6/13/2001	0.72 J	mg/kg			
			OU5-CTA-1D-4101FR-SB-5	6/13/2001	0.58 U	mg/kg			
			OU5-CTA-1D-4101FR-SB-6	6/13/2001	0.92 J	mg/kg			
			OU5-CTA-1D-4101FR-SB-DUP07	6/13/2001	1.5 J	mg/kg	OU5-CTA-1D-4101FR-SB-6		
CSA	*5*	*4102 46th Street*						*No*	*No*
			OU5-CSA-5-4102(46)-1	7/13/2001	3.2	mg/kg			
			OU5-CSA-5-4102(46)-2	7/13/2001	4	mg/kg			
CSA	*5*	*4104 46th Street*						*No*	*No*
			OU5-CSA-5-4104(46)-1	7/13/2001	2.8	mg/kg			
			OU5-CSA-5-4104(46)-2	7/13/2001	3.3	mg/kg			
CSA	*5*	*4105 46th Street*						*No*	*No*
			OU5-CSA-5-4105(46)-1	3/21/2002	1.7 J	mg/kg			
			OU5-CSA-5-4105(46)-2	3/21/2002	4.2	mg/kg			
			OU5-CSA-5-4105(46)-DUP108	3/21/2002	4.2	mg/kg	OU5-CSA-4-4837TS-2		

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	3	4105 49th Street							Yes	No
			OU5-CSA-3-4105(49)-1	7/24/2001	9.1		mg/kg			
			OU5-CSA-3-4105(49)-2	7/24/2001	6.1		mg/kg			
			OU5-CSA-3-4105(49)-SB-1	7/24/2001	4.9		mg/kg			
			OU5-CSA-3-4105(49)-SB-10	7/24/2001	2.5		mg/kg			
			OU5-CSA-3-4105(49)-SB-2	7/24/2001	2.6		mg/kg			
			OU5-CSA-3-4105(49)-SB-3	7/24/2001	1.9	J	mg/kg			
			OU5-CSA-3-4105(49)-SB-4	7/24/2001	1.2	J	mg/kg			
			OU5-CSA-3-4105(49)-SB-5	7/24/2001	1.4	J	mg/kg			
			OU5-CSA-3-4105(49)-SB-6	7/24/2001	5.3		mg/kg			
			OU5-CSA-3-4105(49)-SB-7	7/24/2001	3.8		mg/kg			
			OU5-CSA-3-4105(49)-SB-8	7/24/2001	3		mg/kg			
			OU5-CSA-3-4105(49)-SB-9	7/24/2001	2.5		mg/kg			
CSA	7	4106 42nd Street							No	No
			OU5-CSA-7-4106(42)-1	9/19/2001	5.4	J	mg/kg			
			OU5-CSA-7-4106(42)-2	9/19/2001	7.4	J	mg/kg			
CSA	5	4106 46th Street							No	No
			OU5-CSA-5-4106(46)-1	2/14/2002	5.7		mg/kg			
			OU5-CSA-5-4106(46)-2	2/14/2002	3.1		mg/kg			
CTA	1D	4107 Fordham Road							Yes	No
			OU5-CTA-1D-4107FR-1	7/11/2001	6.1		mg/kg			
			OU5-CTA-1D-4107FR-2	7/11/2001	7.3		mg/kg			
			OU5-CTA-1D-4107FR-3	7/11/2001	3.8		mg/kg			
			OU5-CTA-1D-4107FR-4	7/11/2001	4.3		mg/kg			
			OU5-CTA-1D-4107FR-SB-1	7/11/2001	14.8		mg/kg			
			OU5-CTA-1D-4107FR-SB-2	7/11/2001	3.8		mg/kg			
			OU5-CTA-1D-4107FR-SB-3	7/11/2001	1.8	J	mg/kg			
			OU5-CTA-1D-4107FR-SB-4	7/11/2001	1.4	J	mg/kg			
			OU5-CTA-1D-4107FR-SB-5	7/11/2001	0.59	U	mg/kg			
			OU5-CTA-1D-4107FR-SB-6	7/11/2001	0.73	J	mg/kg			
			OU5-CTA-1D-4107FR-SB-DUP27	7/11/2001	0.59	U	mg/kg	OU5-CTA-1D-4107FR-SB-5		
CSA	3	4108 48th Street							No	No
			OU5-CSA-3-4108(48)-1	10/4/2001	4.3		mg/kg			
			OU5-CSA-3-4108(48)-2	10/4/2001	4.1		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	3	4109 49th Street						No	No
			OU5-CSA-3-4109(49)-1	7/13/2001	3.8	mg/kg			
			OU5-CSA-3-4109(49)-2	7/13/2001	4.6	mg/kg			
CTA	1D	4110 49th Street						No	No
			OU5-CTA-1D-4110(49)-1	3/20/2002	4.2	mg/kg			
			OU5-CTA-1D-4110(49)-2	3/20/2002	6.4	mg/kg			
			OU5-CTA-1D-4110(49)-3	3/20/2002	4.4	mg/kg			
			OU5-CTA-1D-4110(49)-4	3/20/2002	4.3	mg/kg			
			OU5-CTA-1D-4110(49)-DUP106	3/20/2002	4.7	mg/kg	OU5-CTA-1D-4110(49)-1		
			OU5-CTA-1D-4110(49)-SB1	3/20/2002	4.6	mg/kg			
			OU5-CTA-1D-4110(49)-SB2	3/20/2002	3	mg/kg			
			OU5-CTA-1D-4110(49)-SB3	3/20/2002	2.9	mg/kg			
			OU5-CTA-1D-4110(49)-SB4	3/20/2002	0.83 J	mg/kg			
			OU5-CTA-1D-4110(49)-SB5	3/20/2002	1.5 J	mg/kg			
			OU5-CTA-1D-4110(49)-SB6	3/20/2002	1.7 J	mg/kg			
CSA	3	4113 49th Street						No	No
			OU5-CSA-3-4113(49)-1	7/6/2001	5.9	mg/kg			
			OU5-CSA-3-4113(49)-2	7/6/2001	5	mg/kg			
CSA	5	4115 45th Street						No	Yes + specialty boring
			OU5-CSA-5-4115(45)-1	11/14/2001	75.4	mg/kg			
			OU5-CSA-5-4115(45)-2	11/14/2001	202	mg/kg			
CSA	5	4115 46th Street						No	No
			OU5-CSA-5-4115(46)-1	4/25/2002	3.4	mg/kg			
			OU5-CSA-5-4115(46)-2	4/25/2002	2.8	mg/kg			
CSA	3	4117 48th Street						No	No
			OU5-CSA-3-4117(48)-1	7/13/2001	2.2 J	mg/kg			
			OU5-CSA-3-4117(48)-2	7/13/2001	3.9	mg/kg			
CTA	1D	4118 49th Street						No	Yes
			OU5-CTA-1D-4118(49)-1	8/28/2001	18.8	mg/kg			
			OU5-CTA-1D-4118(49)-2	8/28/2001	9.3	mg/kg			
			OU5-CTA-1D-4118(49)-3	8/28/2001	5.9	mg/kg			
			OU5-CTA-1D-4118(49)-4	8/28/2001	10.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4118(49)-SB-DUP62	8/28/2001	2.3	mg/kg	OU5-CTA-1D-4118(49)-SB5		
			OU5-CTA-1D-4118(49)-SB1	8/28/2001	4	mg/kg			
			OU5-CTA-1D-4118(49)-SB2	8/28/2001	3.6	mg/kg			
			OU5-CTA-1D-4118(49)-SB3	8/28/2001	1.8 J	mg/kg			
			OU5-CTA-1D-4118(49)-SB4	8/28/2001	1.4 J	mg/kg			
			OU5-CTA-1D-4118(49)-SB5	8/28/2001	2 J	mg/kg			
			OU5-CTA-1D-4118(49)-SB6	8/28/2001	0.56 U	mg/kg			
CSA	*5*	*4119 45th Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-5-4119(45)-1	8/23/2001	38.9	mg/kg			
			OU5-CSA-5-4119(45)-2	8/23/2001	18.5	mg/kg			
CSA	*7*	*4120 42nd Street*						*No*	*No*
			OU5-CSA-7-4120(42)-1	11/8/2001	9.4	mg/kg			
			OU5-CSA-7-4120(42)-2	11/8/2001	4	mg/kg			
CSA	*3*	*4120 48th Street*						*No*	*No*
			OU5-CSA-3-4120(48)-1	8/3/2001	2.8	mg/kg			
			OU5-CSA-3-4120(48)-2	8/3/2001	3.5	mg/kg			
			OU5-CSA-3-4120(48)-DUP36	8/3/2001	3.2	mg/kg	OU5-CSA-3-4120(48)-2		
CSA	*7*	*4120 Van Ness Street, Lot 29*						*No*	*No*
			OU5-CSA-7-L29-1	8/15/2001	7.5	mg/kg			
			OU5-CSA-7-L29-2	8/15/2001	5.8	mg/kg			
CSA	*7*	*4120 Van Ness Street, Lot 30*						*No*	*No*
			OU5-CSA-7-L30-1	8/15/2001	6.9	mg/kg			
			OU5-CSA-7-L30-2	8/15/2001	7	mg/kg			
CSA	*7*	*4120 Van Ness Street, Lot 31*						*No*	*No*
			OU5-CSA-7-L31-1	8/15/2001	10.5	mg/kg			
			OU5-CSA-7-L31-2	8/15/2001	10.2	mg/kg			
CSA	*7*	*4120 Van Ness Street, Lot 39*						*No*	*No*
			OU5-CSA-7-L39-1	8/15/2001	5.6	mg/kg			
			OU5-CSA-7-L39-2	8/15/2001	7.5	mg/kg			
CSA	*7*	*4120 Van Ness Street, Lot 40*						*No*	*No*
			OU5-CSA-7-L40-1	8/15/2001	4.4	mg/kg			
			OU5-CSA-7-L40-2	8/15/2001	4.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	7	4120 Van Ness Street, Lot 41						Yes	No
			OU5-CSA-7-L41-1	8/15/2001	4.7	mg/kg			
			OU5-CSA-7-L41-2	8/15/2001	4.9	mg/kg			
			OU5-CSA-7-L41-SB1	8/15/2001	5.4	mg/kg			
			OU5-CSA-7-L41-SB10	8/15/2001	7	mg/kg			
			OU5-CSA-7-L41-SB2	8/15/2001	4.2	mg/kg			
			OU5-CSA-7-L41-SB3	8/15/2001	5.7	mg/kg			
			OU5-CSA-7-L41-SB4	8/15/2001	6.3	mg/kg			
			OU5-CSA-7-L41-SB5	8/15/2001	4.7	mg/kg			
			OU5-CSA-7-L41-SB6	8/15/2001	4.9	mg/kg			
			OU5-CSA-7-L41-SB7	8/15/2001	2.8	mg/kg			
			OU5-CSA-7-L41-SB8	8/15/2001	10.2	mg/kg			
			OU5-CSA-7-L41-SB9	8/15/2001	8	mg/kg			
CSA	7	4120 Van Ness Street, Lot 50						No	No
			OU5-CSA-7-L50-1	8/15/2001	7.5	mg/kg			
			OU5-CSA-7-L50-2	8/15/2001	5.8	mg/kg			
CSA	7	4120 Van Ness Street, Lot 51						No	No
			OU5-CSA-7-L51-1	8/15/2001	4.6	mg/kg			
			OU5-CSA-7-L51-2	8/15/2001	5.1	mg/kg			
CSA	7	4120 Van Ness Street, Lot 52						No	No
			OU5-CSA-7-L52-1	8/15/2001	6.1	mg/kg			
			OU5-CSA-7-L52-2	8/15/2001	6.1	mg/kg			
CSA	3	4121 48th Street						No	No
			OU5-CSA-3-4121(48)-1	7/27/2001	3.6	mg/kg			
			OU5-CSA-3-4121(48)-2	7/27/2001	4.2	mg/kg			
CSA	5	4123 45th Street						No	No
			OU5-CSA-5-4123(45)-1	11/16/2001	6.9	mg/kg			
			OU5-CSA-5-4123(45)-2	11/16/2001	3.5	mg/kg			
CSA	5	4125 46th Street						No	No
			OU5-CSA-5-4125(46)-1	6/11/2002	4.4	mg/kg			
			OU5-CSA-5-4125(46)-2	6/11/2002	4.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1C	4125 52nd Street						No	No
			OU5-CTA-1C-4125(52)-1	7/9/2001	3.5	mg/kg			
			OU5-CTA-1C-4125(52)-2	7/9/2001	4.4	mg/kg			
			OU5-CTA-1C-4125(52)-3	7/9/2001	3.2	mg/kg			
			OU5-CTA-1C-4125(52)-4	7/9/2001	4.7	mg/kg			
			OU5-CTA-1C-4125(52)-SB1	7/9/2001	3.3	mg/kg			
			OU5-CTA-1C-4125(52)-SB2	7/9/2001	3.5	mg/kg			
			OU5-CTA-1C-4125(52)-SB3	7/9/2001	1.8 J	mg/kg			
			OU5-CTA-1C-4125(52)-SB4	7/9/2001	2.5	mg/kg			
			OU5-CTA-1C-4125(52)-SB5	7/9/2001	3	mg/kg			
			OU5-CTA-1C-4125(52)-SB6	7/9/2001	1.7 J	mg/kg			
			OU5-CTA-1C-4125(52)-SB7	7/9/2001	1.3 J	mg/kg			
			OU5-CTA-1C-4125(52)-SB8	7/9/2001	0.6 J	mg/kg			
			OU5-CTA-1C-4125(52)-SB9	7/9/2001	1.1 J	mg/kg			
CSA	5	4127 45th Street						No	No
			OU5-CSA-5-4127(45)-1	8/23/2001	3.9	mg/kg			
			OU5-CSA-5-4127(45)-2	8/23/2001	5.1	mg/kg			
CSA	5	4131 45th Street						No	No
			OU5-CSA-5-4131(45)-1	9/19/2001	3.7 J	mg/kg			
			OU5-CSA-5-4131(45)-2	9/19/2001	4.5 J	mg/kg			
CSA	5	4150 46th Street						No	No
			OU5-CSA-5-4150(46)-1	7/13/2001	8.4	mg/kg			
			OU5-CSA-5-4150(46)-2	7/13/2001	6.3	mg/kg			
CSA	6	4200 43rd Street						No	Yes + 1' arsenic boring
			OU5-CSA-6-4200(43)-1	7/13/2001	8 L	mg/kg			
			OU5-CSA-6-4200(43)-2	7/13/2001	13.9 L	mg/kg			
CSA	3	4200 48th Place						No	No
			OU5-CSA-3-4200(48P)-1	12/5/2001	2 J	mg/kg			
			OU5-CSA-3-4200(48P)-2	12/5/2001	1.8 J	mg/kg			
CTA	1A	4200 49th Street						No	No
			OU5-CTA-1A-4200(49)-1	6/19/2001	3.7	mg/kg			
			OU5-CTA-1A-4200(49)-2	6/19/2001	4.5	mg/kg			
			OU5-CTA-1A-4200(49)-3	6/19/2001	4.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4200(49)-4	6/19/2001	3.9	mg/kg			
			OU5-CTA-1A-4200(49)-SB-1	6/19/2001	2.8	mg/kg			
			OU5-CTA-1A-4200(49)-SB-2	6/19/2001	1.3 J	mg/kg			
			OU5-CTA-1A-4200(49)-SB-3	6/19/2001	0.58 U	mg/kg			
			OU5-CTA-1A-4200(49)-SB-4	6/19/2001	0.59 U	mg/kg			
			OU5-CTA-1A-4200(49)-SB-5	6/19/2001	0.61 U	mg/kg			
			OU5-CTA-1A-4200(49)-SB-6	6/19/2001	0.6 U	mg/kg			
CTA	***1A***	***4200 Fordham Road***						***Yes***	***No***
			OU5-CTA-1A-4200FR-1	6/7/2001	11.8	mg/kg			
			OU5-CTA-1A-4200FR-2	6/7/2001	7	mg/kg			
			OU5-CTA-1A-4200FR-3	6/7/2001	6.7	mg/kg			
			OU5-CTA-1A-4200FR-4	6/7/2001	5.5	mg/kg			
			OU5-CTA-1A-4200FR-SB-1	6/7/2001	3.8	mg/kg			
			OU5-CTA-1A-4200FR-SB-2	6/7/2001	4.2	mg/kg			
			OU5-CTA-1A-4200FR-SB-3	6/7/2001	2.6	mg/kg			
			OU5-CTA-1A-4200FR-SB-4	6/7/2001	4	mg/kg			
			OU5-CTA-1A-4200FR-SB-5	6/7/2001	1.3 J	mg/kg			
			OU5-CTA-1A-4200FR-SB-6	6/7/2001	0.62 J	mg/kg			
CSA	***6***	***4201 43rd Street***						***No***	***No***
			OU5-CSA-6-4201(43)-1	3/21/2002	4.4	mg/kg			
			OU5-CSA-6-4201(43)-2	3/21/2002	5.1	mg/kg			
CSA	***6***	***4201 44th Street***						***No***	***No***
			OU5-CSA-6-4201(44)-1	8/24/2001	3.1 J	mg/kg			
			OU5-CSA-6-4201(44)-2	8/24/2001	4.8	mg/kg			
CSA	***3***	***4201 48th Place***						***No***	***No***
			OU5-CSA-3-4201(48P)-1	8/24/2001	3	mg/kg			
			OU5-CSA-3-4201(48P)-2	8/24/2001	3.1	mg/kg			
CTA	***1A***	***4201 Fordham Road***						***Yes***	***Yes***
			OU5-CTA-1A-4201FR-1	6/25/2001	21.6	mg/kg			
			OU5-CTA-1A-4201FR-2	6/25/2001	6.8	mg/kg			
			OU5-CTA-1A-4201FR-3	6/25/2001	7.2	mg/kg			
			OU5-CTA-1A-4201FR-4	6/25/2001	6.5	mg/kg			
			OU5-CTA-1A-4201FR-SB1	6/25/2001	7.5	mg/kg			
			OU5-CTA-1A-4201FR-SB2	6/25/2001	5.5	mg/kg			
			OU5-CTA-1A-4201FR-SB3	6/25/2001	3.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4201FR-SB4	6/25/2001	2.5	mg/kg			
			OU5-CTA-1A-4201FR-SB5	6/25/2001	0.71 J	mg/kg			
			OU5-CTA-1A-4201FR-SB6	6/25/2001	0.69 J	mg/kg			
CSA	*6*	*4201 Warren Street*						*No*	*No*
			OU5-CSA-6-4201WS-1	7/13/2001	6.1	mg/kg			
			OU5-CSA-6-4201WS-2	7/13/2001	6.3	mg/kg			
CSA	*6*	*4201 Yuma Street*						*No*	*No*
			OU5-CSA-6-4201YS-1	11/19/2001	8.2	mg/kg			
			OU5-CSA-6-4201YS-2	11/19/2001	7.4	mg/kg			
CSA	*3*	*4202 48th Place*						*No*	*No*
			OU5-CSA-3-4202(48P)-1	8/31/2001	8.8	mg/kg			
			OU5-CSA-3-4202(48P)-2	8/31/2001	3.6	mg/kg			
CSA	*6*	*4203 Yuma Street*						*No*	*No*
			OU5-CSA-6-4203YS-1	9/21/2001	4.5	mg/kg			
			OU5-CSA-6-4203YS-2	9/21/2001	7.4	mg/kg			
CSA	*3*	*4204 48th Place*						*No*	*No*
			OU5-CSA-3-4204(48P)-1	7/20/2001	10.8	mg/kg			
			OU5-CSA-3-4204(48P)-2	7/20/2001	4.8	mg/kg			
CSA	*6*	*4204 Yuma Street*						*No*	*No*
			OU5-CSA-6-4204YS-1	9/21/2001	5.5	mg/kg			
			OU5-CSA-6-4204YS-2	9/21/2001	11	mg/kg			
CSA	*3*	*4205 48th Place*						*No*	*No*
			OU5-CSA-3-4205(48P)-1	8/24/2001	2.5 J	mg/kg			
			OU5-CSA-3-4205(48P)-2	8/24/2001	4.1	mg/kg			
CSA	*3*	*4205 49th Street*						*No*	*No*
			OU5-CSA-3-4205(49)-1	7/13/2001	8.6	mg/kg			
			OU5-CSA-3-4205(49)-2	7/13/2001	3.4	mg/kg			
CSA	*6*	*4205 Van Ness Street*						*No*	*No*
			OU5-CSA-6-4205VNS-1	4/25/2002	9.2	mg/kg			
			OU5-CSA-6-4205VNS-2	4/25/2002	5.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	6	4205 Warren Street						No	No
			OU5-CSA-6-4205WS-1	7/13/2001	5.5	mg/kg			
			OU5-CSA-6-4205WS-2	7/13/2001	4.5	mg/kg			
CSA	3	4206 48th Place						No	No
			OU5-CSA-3-4206(48P)-1	9/19/2001	5.7 J	mg/kg			
			OU5-CSA-3-4206(48P)-2	9/19/2001	2.3 J	mg/kg			
			OU5-CSA-3-4206(48P)-DUP62	9/19/2001	2.4 J	mg/kg	OU5-CSA-3-4206(48P)-2		
CSA	5	4207 45th Street						No	No
			OU5-CSA-5-4207(45)-1	7/24/2001	4.3	mg/kg			
			OU5-CSA-5-4207(45)-2	7/24/2001	3.4	mg/kg			
CSA	3	4207 48th Place						No	No
			OU5-CSA-3-4207(48P)-1	7/13/2001	1.8 J	mg/kg			
			OU5-CSA-3-4207(48P)-2	7/13/2001	3.3	mg/kg			
CSA	3	4208 48th Place						No	No
			OU5-CSA-3-4208(48P)-1	7/13/2001	3.4	mg/kg			
			OU5-CSA-3-4208(48P)-2	7/13/2001	2.1 J	mg/kg			
CTA	1A	4208 50th Street						Yes	No
			OU5-CTA-1A-4208(50)-1	6/21/2001	4.3	mg/kg			
			OU5-CTA-1A-4208(50)-2	6/21/2001	3.5	mg/kg			
			OU5-CTA-1A-4208(50)-3	6/21/2001	4	mg/kg			
			OU5-CTA-1A-4208(50)-4	6/21/2001	3.7	mg/kg			
			OU5-CTA-1A-4208(50)-DUP10	6/21/2001	4.3	mg/kg	OU5-CTA-1A-4208(50)-2		
			OU5-CTA-1A-4208(50)-SB-1	6/21/2001	1.9 J	mg/kg			
			OU5-CTA-1A-4208(50)-SB-2	6/21/2001	2.7	mg/kg			
			OU5-CTA-1A-4208(50)-SB-3	6/21/2001	4.8	mg/kg			
			OU5-CTA-1A-4208(50)-SB-4	6/21/2001	3.3	mg/kg			
			OU5-CTA-1A-4208(50)-SB-5	6/21/2001	4.3	mg/kg			
			OU5-CTA-1A-4208(50)-SB-6	6/21/2001	4.5	mg/kg			
			OU5-CTA-1A-4208(50)-SB-7	6/21/2001	3.1	mg/kg			
			OU5-CTA-1A-4208(50)-SB-8	6/21/2001	0.9 J	mg/kg			
			OU5-CTA-1A-4208(50)-SB-9	6/21/2001	0.61 J	mg/kg			
CSA	6	4208 Yuma Street						No	No
			OU5-CSA-6-4208YS-1	1/10/2002	5.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-6-4208YS-2	1/10/2002	10.7	mg/kg			
CSA	3	4209 48th Place						No	No
			OU5-CSA-3-4209(48P)-1	8/24/2001	2.3 J	mg/kg			
			OU5-CSA-3-4209(48P)-2	8/24/2001	2.7 J	mg/kg			
CTA	1A	4209 50th Street						Yes	No
			OU5-CTA-1A-4209(50)-1	7/9/2001	5.4	mg/kg			
			OU5-CTA-1A-4209(50)-2	7/9/2001	4	mg/kg			
			OU5-CTA-1A-4209(50)-3	7/9/2001	4.4	mg/kg			
			OU5-CTA-1A-4209(50)-4	7/9/2001	3.4	mg/kg			
			OU5-CTA-1A-4209(50)-SB-1	7/9/2001	1.5 J	mg/kg			
			OU5-CTA-1A-4209(50)-SB-2	7/9/2001	0.59 U	mg/kg			
			OU5-CTA-1A-4209(50)-SB-3	7/9/2001	2.4	mg/kg			
			OU5-CTA-1A-4209(50)-SB-4	7/9/2001	2.3 J	mg/kg			
			OU5-CTA-1A-4209(50)-SB-5	7/9/2001	0.58 U	mg/kg			
			OU5-CTA-1A-4209(50)-SB-6	7/9/2001	1 J	mg/kg			
CSA	6	4209 Warren Street						No	No
			OU5-CSA-6-4209WS-1	3/21/2002	4.7	mg/kg			
			OU5-CSA-6-4209WS-2	3/21/2002	4.4	mg/kg			
CSA	6	4210 43rd Street						No	No
			OU5-CSA-6-4210(43)-1	3/21/2002	4.4	mg/kg			
			OU5-CSA-6-4210(43)-2	3/21/2002	5.2	mg/kg			
CSA	3	4210 48th Place						No	No
			OU5-CSA-3-4210(48P)-1	9/19/2001	3.5 J	mg/kg			
			OU5-CSA-3-4210(48P)-2	9/19/2001	7.2 J	mg/kg			
CTA	1A	4210 Fordham Road						Yes	No
			OU5-CTA-1A-4210FR-1	6/13/2001	4.1	mg/kg			
			OU5-CTA-1A-4210FR-2	6/13/2001	3.5	mg/kg			
			OU5-CTA-1A-4210FR-3	6/13/2001	3.6	mg/kg			
			OU5-CTA-1A-4210FR-4	6/13/2001	3.6	mg/kg			
			OU5-CTA-1A-4210FR-SB-1	6/13/2001	2.7	mg/kg			
			OU5-CTA-1A-4210FR-SB-2	6/13/2001	5.1	mg/kg			
			OU5-CTA-1A-4210FR-SB-3	6/13/2001	3.6	mg/kg			
			OU5-CTA-1A-4210FR-SB-4	6/13/2001	2 J	mg/kg			
			OU5-CTA-1A-4210FR-SB-5	6/13/2001	3.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4210FR-SB-6	6/13/2001	4.7	mg/kg			
CSA	*6*	*4211 43rd Street*						*No*	*No*
			OU5-CSA-6-4211(43)-1	7/20/2001	6.7	mg/kg			
			OU5-CSA-6-4211(43)-2	7/20/2001	10.1	mg/kg			
CSA	*3*	*4211 48th Place*						*No*	*No*
			OU5-CSA-3-4211(48P)-1	11/14/2001	2.2 J	mg/kg			
			OU5-CSA-3-4211(48P)-2	11/14/2001	2.5	mg/kg			
CSA	*3*	*4211 49th Street*						*No*	*No*
			OU5-CSA-3-4211(49)-1	8/23/2001	5.7	mg/kg			
			OU5-CSA-3-4211(49)-2	8/23/2001	5.7	mg/kg			
CSA	*3*	*4212 48th Place*						*No*	*No*
			OU5-CSA-3-4212(48P)-1	7/27/2001	3.4	mg/kg			
			OU5-CSA-3-4212(48P)-2	7/27/2001	5.7	mg/kg			
CTA	*1A*	*4212 49th Street*						*No*	*No*
			OU5-CTA-1A-4212(49)-1	8/21/2001	3.1	mg/kg			
			OU5-CTA-1A-4212(49)-2	8/21/2001	3.6	mg/kg			
			OU5-CTA-1A-4212(49)-3	8/21/2001	4	mg/kg			
			OU5-CTA-1A-4212(49)-4	8/21/2001	5.6	mg/kg			
			OU5-CTA-1A-4212(49)-SB-DUP59	8/21/2001	1.3 J	mg/kg	OU5-CTA-1A-4212(49)-SB6		
			OU5-CTA-1A-4212(49)-SB1	8/21/2001	2.8	mg/kg			
			OU5-CTA-1A-4212(49)-SB2	8/21/2001	1.8 J	mg/kg			
			OU5-CTA-1A-4212(49)-SB3	8/21/2001	1.6 J	mg/kg			
			OU5-CTA-1A-4212(49)-SB4	8/21/2001	0.98 J	mg/kg			
			OU5-CTA-1A-4212(49)-SB5	8/21/2001	0.55 U	mg/kg			
			OU5-CTA-1A-4212(49)-SB6	8/21/2001	0.54 U	mg/kg			
CSA	*6*	*4212 Yuma Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-6-4212YS-1	9/21/2001	5	mg/kg			
			OU5-CSA-6-4212YS-2	9/21/2001	14	mg/kg			
CTA	*1A*	*4214 50th Street*						*Yes*	*No*
			OU5-CTA-1A-4214(50)-1	6/14/2001	4.8	mg/kg			
			OU5-CTA-1A-4214(50)-2	6/14/2001	3.5	mg/kg			
			OU5-CTA-1A-4214(50)-3	6/14/2001	4.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4214(50)-4	6/14/2001	2.9	mg/kg			
			OU5-CTA-1A-4214(50)-SB-1	6/14/2001	4.5	mg/kg			
			OU5-CTA-1A-4214(50)-SB-2	6/14/2001	2.7	mg/kg			
			OU5-CTA-1A-4214(50)-SB-3	6/14/2001	1.3 J	mg/kg			
			OU5-CTA-1A-4214(50)-SB-4	6/14/2001	3.4	mg/kg			
			OU5-CTA-1A-4214(50)-SB-5	6/14/2001	2.7	mg/kg			
			OU5-CTA-1A-4214(50)-SB-6	6/14/2001	2.8	mg/kg			
CSA	*7*	*4214 Van Ness Street*						*No*	*No*
			OU5-CSA-7-4214VNS-1	11/8/2001	5.2	mg/kg			
			OU5-CSA-7-4214VNS-2	11/8/2001	5.2	mg/kg			
CSA	*3*	*4215 49th Street*						*No*	*No*
			OU5-CSA-3-4215(49)-1	7/2/2001	2.6	mg/kg			
			OU5-CSA-3-4215(49)-2	7/2/2001	3.3	mg/kg			
CSA	*6*	*4215 Yuma Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-6-4215YS-1	9/21/2001	8	mg/kg			
			OU5-CSA-6-4215YS-2	9/21/2001	30	mg/kg			
CSA	*7*	*4216 Van Ness Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-7-4216VNS-1	10/12/2001	16.8	mg/kg			
			OU5-CSA-7-4216VNS-2	10/12/2001	7.4	mg/kg			
CSA	*6*	*4217 Van Ness Street*						*No*	*No*
			OU5-CSA-6-4217VNS-1	7/13/2001	6.7	mg/kg			
			OU5-CSA-6-4217VNS-2	7/13/2001	4.8	mg/kg			
CSA	*3*	*4219 49th Street*						*No*	*No*
			OU5-CSA-3-4219(49)-1	8/24/2001	3.9	mg/kg			
			OU5-CSA-3-4219(49)-2	8/24/2001	3.5	mg/kg			
CTA	*1A*	*4219 50th Street*						*Yes*	*Yes*
			OU5-CTA-1A-4219(50)-1	7/9/2001	3.2	mg/kg			
			OU5-CTA-1A-4219(50)-2	7/9/2001	4.4	mg/kg			
			OU5-CTA-1A-4219(50)-3	7/9/2001	40.9	mg/kg			
			OU5-CTA-1A-4219(50)-4	7/9/2001	105	mg/kg			
			OU5-CTA-1A-4219(50)-SB-1	7/9/2001	2.9	mg/kg			
			OU5-CTA-1A-4219(50)-SB-2	7/9/2001	3.1	mg/kg			
			OU5-CTA-1A-4219(50)-SB-3	7/9/2001	2.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4219(50)-SB-4	7/9/2001	1.4 J	mg/kg			
			OU5-CTA-1A-4219(50)-SB-5	7/9/2001	0.86 J	mg/kg			
			OU5-CTA-1A-4219(50)-SB-6	7/9/2001	0.94 J	mg/kg			
CSA	*6*	*4219 Yuma Street*						*No*	*No*
			OU5-CSA-6-4219YS-1	8/24/2001	6.9	mg/kg			
			OU5-CSA-6-4219YS-2	8/24/2001	8.1	mg/kg			
CSA	*6*	*4220 43rd Street*						*No*	*No*
			OU5-CSA-6-4220(43)-1	8/23/2001	4.7	mg/kg			
			OU5-CSA-6-4220(43)-2	8/23/2001	7.5	mg/kg			
			OU5-CSA-6-4220(43)-DUP50	8/23/2001	8.2	mg/kg	OU5-CSA-6-4220(43)-2		
CTA	*1A*	*4220 50th Street*						*Yes*	*No*
			OU5-CTA-1A-4220(50)-1	12/3/2001	2.3 J	mg/kg			
			OU5-CTA-1A-4220(50)-2	12/3/2001	2.1 J	mg/kg			
			OU5-CTA-1A-4220(50)-3	12/3/2001	2.4	mg/kg			
			OU5-CTA-1A-4220(50)-4	12/3/2001	3 J	mg/kg			
			OU5-CTA-1A-4220(50)-SB1	12/3/2001	3.1	mg/kg			
			OU5-CTA-1A-4220(50)-SB10	12/3/2001	0.4 U	mg/kg			
			OU5-CTA-1A-4220(50)-SB2	12/3/2001	0.47 U	mg/kg			
			OU5-CTA-1A-4220(50)-SB3	12/3/2001	1.4 J	mg/kg			
			OU5-CTA-1A-4220(50)-SB4	12/3/2001	2.7	mg/kg			
			OU5-CTA-1A-4220(50)-SB5	12/3/2001	2.4	mg/kg			
			OU5-CTA-1A-4220(50)-SB6	12/3/2001	1.4 J	mg/kg			
			OU5-CTA-1A-4220(50)-SB7	12/3/2001	1.8 J	mg/kg			
			OU5-CTA-1A-4220(50)-SB8	12/3/2001	0.79 J	mg/kg			
			OU5-CTA-1A-4220(50)-SB9	12/3/2001	0.48 J	mg/kg			
CSA	*6*	*4220 Alton Place*						*No*	*No*
			OU5-CSA-6-4220AP-1	7/25/2001	7.4	mg/kg			
			OU5-CSA-6-4220AP-2	7/25/2001	9	mg/kg			
CTA	*1A*	*4220 Fordham Road*						*Yes*	*No*
			OU5-CTA-1A-4220FR-1	6/22/2001	3.4	mg/kg			
			OU5-CTA-1A-4220FR-2	6/22/2001	4.6	mg/kg			
			OU5-CTA-1A-4220FR-3	6/22/2001	4.1	mg/kg			
			OU5-CTA-1A-4220FR-4	6/22/2001	4	mg/kg			
			OU5-CTA-1A-4220FR-SB-1	6/22/2001	1.4 J	mg/kg			
			OU5-CTA-1A-4220FR-SB-2	6/22/2001	1.1 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4220FR-SB-3	6/22/2001	6.2	mg/kg			
			OU5-CTA-1A-4220FR-SB-4	6/22/2001	2.4	mg/kg			
			OU5-CTA-1A-4220FR-SB-5	6/22/2001	1.1 J	mg/kg			
			OU5-CTA-1A-4220FR-SB-6	6/22/2001	0.64 J	mg/kg			
CSA	*7*	*4220 Van Ness Street*						*No*	*No*
			OU5-CSA-7-4220VNS-1	8/23/2001	11.9	mg/kg			
			OU5-CSA-7-4220VNS-2	8/23/2001	9.5	mg/kg			
CSA	*6*	*4221 43rd Street*						*Yes*	*Yes*
			OU5-CSA-6-4221(43)-1	7/2/2002	14.2	mg/kg			
			OU5-CSA-6-4221(43)-2	7/2/2002	7.7	mg/kg			
			OU5-CSA-6-4221(43)-SB1	7/2/2002	5.4	mg/kg			
			OU5-CSA-6-4221(43)-SB2	7/2/2002	6.1	mg/kg			
			OU5-CSA-6-4221(43)-SB3	7/2/2002	8.4	mg/kg			
			OU5-CSA-6-4221(43)-SB4	7/2/2002	4.3	mg/kg			
			OU5-CSA-6-4221(43)-SB5	7/2/2002	3.7	mg/kg			
			OU5-CSA-6-4221(43)-SB6	7/2/2002	3.2	mg/kg			
CSA	*5*	*4221 45th Street*						*No*	*No*
			OU5-CSA-5-4221(45)-1	7/13/2001	5.4	mg/kg			
			OU5-CSA-5-4221(45)-2	7/13/2001	5.2	mg/kg			
CTA	*1A*	*4221 Fordham Road*						*No*	*No*
			OU5-CTA-1A-4221FR-1	7/24/2001	3.6	mg/kg			
			OU5-CTA-1A-4221FR-2	7/24/2001	4.6	mg/kg			
			OU5-CTA-1A-4221FR-3	7/24/2001	5.6	mg/kg			
			OU5-CTA-1A-4221FR-4	7/24/2001	3.6	mg/kg			
			OU5-CTA-1A-4221FR-DUP32	7/24/2001	3.3	mg/kg	OU5-CTA-1A-4221FR-1		
			OU5-CTA-1A-4221FR-SB-1	7/24/2001	5	mg/kg			
			OU5-CTA-1A-4221FR-SB-2	7/24/2001	4.5	mg/kg			
			OU5-CTA-1A-4221FR-SB-3	7/24/2001	3.7	mg/kg			
			OU5-CTA-1A-4221FR-SB-4	7/24/2001	1.7 J	mg/kg			
			OU5-CTA-1A-4221FR-SB-5	7/24/2001	1.6 J	mg/kg			
			OU5-CTA-1A-4221FR-SB-6	7/24/2001	1.9 J	mg/kg			
CSA	*6*	*4221 Van Ness Street*						*No*	*No*
			OU5-CSA-6-4221VNS-1	7/20/2001	5.9	mg/kg			
			OU5-CSA-6-4221VNS-2	7/20/2001	6.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	6	4222 42nd Street						No	No
			OU5-CSA-6-4222(42)-1	3/22/2002	7	mg/kg			
			OU5-CSA-6-4222(42)-2	3/22/2002	8.8	mg/kg			
CSA	6	4223 Yuma Street						No	No
			OU5-CSA-6-4223YS-1	11/8/2001	7.1	mg/kg			
			OU5-CSA-6-4223YS-2	11/8/2001	9.1	mg/kg			
CSA	6	4224 Alton Place						No	No
			OU5-CSA-6-4224(AP)-1	7/24/2001	6.2	mg/kg			
			OU5-CSA-6-4224(AP)-2	7/24/2001	5.1	mg/kg			
CSA	7	4224 Van Ness Street						No	No
			OU5-CSA-7-4224VNS-1	3/21/2002	7.2	mg/kg			
CSA	6	4225 43rd Street						Yes	No
			OU5-CSA-6-4225(43)-1	9/6/2001	5.1	mg/kg			
			OU5-CSA-6-4225(43)-2	9/6/2001	6.9	mg/kg			
			OU5-CSA-6-4225(43)-SB1	9/6/2001	5.3	mg/kg			
			OU5-CSA-6-4225(43)-SB10	9/6/2001	1.8 J	mg/kg			
			OU5-CSA-6-4225(43)-SB2	9/6/2001	5.1	mg/kg			
			OU5-CSA-6-4225(43)-SB3	9/6/2001	5.6	mg/kg			
			OU5-CSA-6-4225(43)-SB4	9/6/2001	4.3	mg/kg			
			OU5-CSA-6-4225(43)-SB5	9/6/2001	3.5	mg/kg			
			OU5-CSA-6-4225(43)-SB6	9/6/2001	1.9 J	mg/kg			
			OU5-CSA-6-4225(43)-SB7	9/6/2001	1.3 J	mg/kg			
			OU5-CSA-6-4225(43)-SB8	9/6/2001	1.2 J	mg/kg			
			OU5-CSA-6-4225(43)-SB9	9/6/2001	1.9 J	mg/kg			
			OU5-CSA-6-4225(43)-SBDUP66	9/6/2001	1.8 J	mg/kg	OU5-CSA-6-4225(43)-SB7		
CSA	5	4225 45th Street						No	No
			OU5-CSA-5-4225(45)-1	3/21/2002	3.3	mg/kg			
			OU5-CSA-5-4225(45)-2	3/21/2002	3.5	mg/kg			
CSA	3	4225 49th Street						No	No
			OU5-CSA-3-4225(49)-1	8/3/2001	2 J	mg/kg			
			OU5-CSA-3-4225(49)-2	8/3/2001	4.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1A	4225 50th Street							Yes	No
			OU5-CTA-1A-4225(50)-1	7/9/2001	5.5		mg/kg			
			OU5-CTA-1A-4225(50)-2	7/9/2001	8.8		mg/kg			
			OU5-CTA-1A-4225(50)-3	7/9/2001	8.3		mg/kg			
			OU5-CTA-1A-4225(50)-4	7/9/2001	7.2		mg/kg			
			OU5-CTA-1A-4225(50)-SB-1	7/9/2001	5.2		mg/kg			
			OU5-CTA-1A-4225(50)-SB-2	7/9/2001	2.2	J	mg/kg			
			OU5-CTA-1A-4225(50)-SB-3	7/9/2001	1.2	J	mg/kg			
			OU5-CTA-1A-4225(50)-SB-4	7/9/2001	0.69	J	mg/kg			
			OU5-CTA-1A-4225(50)-SB-DUP25	7/9/2001	0.85	J	mg/kg	OU5-CTA-1A-4225(50)-SB-4		
CTA	1A	4226 50th Street							Yes	Yes
			OU5-CTA-1A-4226(50)-1	6/25/2001	14.2		mg/kg			
			OU5-CTA-1A-4226(50)-2	6/25/2001	3.9		mg/kg			
			OU5-CTA-1A-4226(50)-3	6/25/2001	3.5		mg/kg			
			OU5-CTA-1A-4226(50)-4	6/25/2001	3.7		mg/kg			
			OU5-CTA-1A-4226(50)-DUP12	6/25/2001	4		mg/kg	OU5-CTA-1A-4226(50)-2		
			OU5-CTA-1A-4226(50)-SB-1	6/25/2001	2.8		mg/kg			
			OU5-CTA-1A-4226(50)-SB-2	6/25/2001	2.9		mg/kg			
			OU5-CTA-1A-4226(50)-SB-3	6/25/2001	2.2	J	mg/kg			
			OU5-CTA-1A-4226(50)-SB-4	6/25/2001	2.3	J	mg/kg			
			OU5-CTA-1A-4226(50)-SB-5	6/25/2001	1.6	J	mg/kg			
			OU5-CTA-1A-4226(50)-SB-6	6/25/2001	2.8		mg/kg			
CTA	1A	4227 Fordham Road							No	Yes
			OU5-CTA-1A-4227FR-1	6/7/2001	29		mg/kg			
			OU5-CTA-1A-4227FR-2	6/7/2001	4.9		mg/kg			
			OU5-CTA-1A-4227FR-3	6/7/2001	2.9		mg/kg			
			OU5-CTA-1A-4227FR-4	6/7/2001	4.5		mg/kg			
			OU5-CTA-1A-4227FR-SB-1	6/7/2001	3		mg/kg			
			OU5-CTA-1A-4227FR-SB-2	6/7/2001	2.4		mg/kg			
			OU5-CTA-1A-4227FR-SB-3	6/7/2001	3		mg/kg			
			OU5-CTA-1A-4227FR-SB-4	6/7/2001	2.4		mg/kg			
			OU5-CTA-1A-4227FR-SB-5	6/7/2001	5.4		mg/kg			
			OU5-CTA-1A-4227FR-SB-6	6/7/2001	3		mg/kg			
CSA	6	4227 Yuma Street							No	No
			OU5-CSA-6-4227YS-1	12/5/2001	4.4		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-6-4227YS-2	12/5/2001	5.2	mg/kg			
CSA	6	4228 Alton Place						No	No
			OU5-CSA-6-4228AP-1	8/3/2001	4.8	mg/kg			
			OU5-CSA-6-4228AP-2	8/3/2001	4.2	mg/kg			
			OU5-CSA-6-4228AP-DUP35	8/3/2001	5.4	mg/kg	OU5-CSA-6-4228AP-1		
CTA	1A	4230 Fordham Road						Yes	Yes
			OU5-CTA-1A-4230FR-1	6/25/2001	7.3	mg/kg			
			OU5-CTA-1A-4230FR-2	6/25/2001	5.3	mg/kg			
			OU5-CTA-1A-4230FR-3	6/25/2001	43.9	mg/kg			
			OU5-CTA-1A-4230FR-4	6/25/2001	9	mg/kg			
			OU5-CTA-1A-4230FR-DUP11	6/25/2001	6.1	mg/kg	OU5-CTA-1A-4230FR-1		
			OU5-CTA-1A-4230FR-SB1	6/25/2001	3.8	mg/kg			
			OU5-CTA-1A-4230FR-SB2	6/25/2001	2.7	mg/kg			
			OU5-CTA-1A-4230FR-SB3	6/25/2001	2.1 J	mg/kg			
			OU5-CTA-1A-4230FR-SB4	6/25/2001	3.9	mg/kg			
			OU5-CTA-1A-4230FR-SB5	6/25/2001	1.3 J	mg/kg			
			OU5-CTA-1A-4230FR-SBDUP16	6/25/2001	3.3	mg/kg	OU5-CTA-1A-4230FR-SB5		
CSA	6	4232 43rd Street						No	No
			OU5-CSA-6-4232(43)-1	8/24/2001	5.8	mg/kg			
			OU5-CSA-6-4232(43)-2	8/24/2001	6.7	mg/kg			
CTA	1A	4232 50th Street						Yes	No
			OU5-CTA-1A-4232(50)-1	7/5/2001	1.9 J	mg/kg			
			OU5-CTA-1A-4232(50)-2	7/5/2001	2.5 J	mg/kg			
			OU5-CTA-1A-4232(50)-3	7/5/2001	2.4 J	mg/kg			
			OU5-CTA-1A-4232(50)-4	7/5/2001	3.1	mg/kg			
			OU5-CTA-1A-4232(50)-SB-1	7/5/2001	1.9 J	mg/kg			
			OU5-CTA-1A-4232(50)-SB-2	7/5/2001	5	mg/kg			
			OU5-CTA-1A-4232(50)-SB-3	7/5/2001	4.6	mg/kg			
			OU5-CTA-1A-4232(50)-SB-4	7/5/2001	3.8	mg/kg			
			OU5-CTA-1A-4232(50)-SB-5	7/5/2001	2.6	mg/kg			
			OU5-CTA-1A-4232(50)-SB-6	7/5/2001	2.6	mg/kg			
			OU5-CTA-1A-4232(50)-SB-7	7/5/2001	3.7	mg/kg			
			OU5-CTA-1A-4232(50)-SB-8	7/5/2001	0.36 U	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	6	4232 Alton Place						No	No
			OU5-CSA-6-4232AP-1	8/3/2001	5.5	mg/kg			
			OU5-CSA-6-4232AP-2	8/3/2001	6.6	mg/kg			
CSA	6	4234 42nd Street						No	No
			OU5-CSA-6-4234(42)-1	3/28/2002	6.3	mg/kg			
			OU5-CSA-6-4234(42)-2	3/28/2002	5.3	mg/kg			
CTA	1A	4235 Fordham Road						No	No
			OU5-CTA-1A-4235FR-1	8/1/2001	4.2	mg/kg			
			OU5-CTA-1A-4235FR-2	8/1/2001	7.5	mg/kg			
			OU5-CTA-1A-4235FR-3	8/1/2001	3.6	mg/kg			
			OU5-CTA-1A-4235FR-4	8/1/2001	4	mg/kg			
			OU5-CTA-1A-4235FR-SB-1	8/1/2001	5.2	mg/kg			
			OU5-CTA-1A-4235FR-SB-2	8/1/2001	3.8	mg/kg			
			OU5-CTA-1A-4235FR-SB-3	8/1/2001	3.1	mg/kg			
			OU5-CTA-1A-4235FR-SB-4	8/1/2001	2 J	mg/kg			
			OU5-CTA-1A-4235FR-SB-5	8/1/2001	1.5 J	mg/kg			
			OU5-CTA-1A-4235FR-SB-6	8/1/2001	0.76 J	mg/kg			
CSA	6	4236 Alton Place						No	No
			OU5-CSA-6-4236AP-1	7/20/2001	5.3	mg/kg			
			OU5-CSA-6-4236AP-2	7/20/2001	5.8	mg/kg			
			OU5-CSA-6-4236AP-DUP29	7/20/2001	5.6	mg/kg	OU5-CSA-6-4236AP-2		
CSA	6	4238 43rd Street						No	No
			OU5-CSA-6-4238(43)-1	9/19/2001	7.7 J	mg/kg			
			OU5-CSA-6-4238(43)-2	9/19/2001	4.8 J	mg/kg			
CTA	1A	4238 50th Street						Yes	No
			OU5-CTA-1A-4238(50)-1	8/21/2001	3.2	mg/kg			
			OU5-CTA-1A-4238(50)-2	8/21/2001	5.4	mg/kg			
			OU5-CTA-1A-4238(50)-3	8/21/2001	4.5	mg/kg			
			OU5-CTA-1A-4238(50)-4	8/21/2001	7.1	mg/kg			
			OU5-CTA-1A-4238(50)-DUP48	8/21/2001	3.2	mg/kg	OU5-CTA-1A-4238(50)-3		
			OU5-CTA-1A-4238(50)-SB1	8/21/2001	3.6	mg/kg			
			OU5-CTA-1A-4238(50)-SB2	8/21/2001	4	mg/kg			
			OU5-CTA-1A-4238(50)-SB3	8/21/2001	1.5 J	mg/kg			
			OU5-CTA-1A-4238(50)-SB4	8/21/2001	2.1 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4238(50)-SB5	8/21/2001	5.3		mg/kg			
			OU5-CTA-1A-4238(50)-SB6	8/21/2001	3		mg/kg			
CSA	*6*	*4240 Alton Place*							*No*	*No*
			OU5-CSA-6-4240AP-1	3/21/2002	5.7		mg/kg			
			OU5-CSA-6-4240AP-2	3/21/2002	4.6		mg/kg			
CTA	*1A*	*4240 Fordham Road*							*Yes*	*No*
			OU5-CTA-1A-4240FR-1	10/23/2001	3.8		mg/kg			
			OU5-CTA-1A-4240FR-2	10/23/2001	3.1		mg/kg			
			OU5-CTA-1A-4240FR-3	10/23/2001	3.7		mg/kg			
			OU5-CTA-1A-4240FR-4	10/23/2001	3.6		mg/kg			
			OU5-CTA-1A-4240FR-SB1	10/23/2001	1	J	mg/kg			
			OU5-CTA-1A-4240FR-SB2	10/23/2001	0.56	J	mg/kg			
			OU5-CTA-1A-4240FR-SB3	10/23/2001	0.51	J	mg/kg			
CTA	*1A*	*4244 50th Street*							*Yes*	*No*
			OU5-CTA-1A-4244(50)-1	3/27/2002	2.1		mg/kg			
			OU5-CTA-1A-4244(50)-2	3/27/2002	3.9		mg/kg			
			OU5-CTA-1A-4244(50)-3	3/27/2002	2.8		mg/kg			
			OU5-CTA-1A-4244(50)-4	3/27/2002	3.7		mg/kg			
			OU5-CTA-1A-4244(50)-SB1	3/27/2002	3.3		mg/kg			
			OU5-CTA-1A-4244(50)-SB2	3/27/2002	2.3		mg/kg			
			OU5-CTA-1A-4244(50)-SB3	3/27/2002	2.2		mg/kg			
			OU5-CTA-1A-4244(50)-SB4	3/27/2002	1.5	J	mg/kg			
CTA	*1A*	*4246 50th Street*							*Yes*	*No*
			OU5-CTA-1A-4246(50)-1	6/15/2001	7.1		mg/kg			
			OU5-CTA-1A-4246(50)-2	6/15/2001	2.8		mg/kg			
			OU5-CTA-1A-4246(50)-3	6/15/2001	2.2	J	mg/kg			
			OU5-CTA-1A-4246(50)-4	6/15/2001	2.4		mg/kg			
			OU5-CTA-1A-4246(50)-SB1	6/15/2001	1.5	J	mg/kg			
			OU5-CTA-1A-4246(50)-SB2	6/15/2001	1.5	J	mg/kg			
			OU5-CTA-1A-4246(50)-SB3	6/15/2001	2.4		mg/kg			
			OU5-CTA-1A-4246(50)-SB4	6/15/2001	1.2	J	mg/kg			
			OU5-CTA-1A-4246(50)-SB5	6/15/2001	2.1	J	mg/kg			
			OU5-CTA-1A-4246(50)-SB6	6/15/2001	0.82	J	mg/kg			
			OU5-CTA-1A-4246(50)-SB7	6/15/2001	0.96	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	6	4246 Warren Street							No	No
			OU5-CSA-6-4246WS-1	11/16/2001	8.2		mg/kg			
			OU5-CSA-6-4246WS-2	11/16/2001	6.7		mg/kg			
CTA	1A	4248 50th Street							No	Yes
			OU5-CTA-1A-4248(50)FR-1	6/25/2001	16.1		mg/kg			
			OU5-CTA-1A-4248(50)FR-2	6/25/2001	5.9		mg/kg			
			OU5-CTA-1A-4248(50)FR-3	6/25/2001	2.7		mg/kg			
			OU5-CTA-1A-4248(50)FR-4	6/25/2001	2.3	J	mg/kg			
			OU5-CTA-1A-4248(50)FR-DUP12	6/25/2001	2.4		mg/kg	OU5-CTA-1A-4248(50)FR-3		
			OU5-CTA-1A-4248(50)FR-SB1	6/25/2001	2.6		mg/kg			
			OU5-CTA-1A-4248(50)FR-SB2	6/25/2001	3		mg/kg			
			OU5-CTA-1A-4248(50)FR-SB3	6/25/2001	3.2		mg/kg			
			OU5-CTA-1A-4248(50)FR-SB4	6/25/2001	1.1	J	mg/kg			
			OU5-CTA-1A-4248(50)FR-SB5	6/25/2001	1.9	J	mg/kg			
			OU5-CTA-1A-4248(50)FR-SB6	6/25/2001	1.2	J	mg/kg			
			OU5-CTA-1A-4248(50)FR-SBDUP17	6/25/2001	2.9		mg/kg	OU5-CTA-1A-4248(50)FR-SB2		
CTA	1A	4250 Fordham Road							No	No
			OU5-CTA-1A-4250FR-1	7/31/2001	2.5		mg/kg			
			OU5-CTA-1A-4250FR-2	7/31/2001	3.1		mg/kg			
			OU5-CTA-1A-4250FR-3	7/31/2001	3		mg/kg			
			OU5-CTA-1A-4250FR-4	7/31/2001	2.9		mg/kg			
			OU5-CTA-1A-4250FR-SB-1	7/31/2001	1.8	J	mg/kg			
			OU5-CTA-1A-4250FR-SB-2	7/31/2001	4.3		mg/kg			
			OU5-CTA-1A-4250FR-SB-3	7/31/2001	3		mg/kg			
			OU5-CTA-1A-4250FR-SB-4	7/31/2001	3		mg/kg			
			OU5-CTA-1A-4250FR-SB-5	7/31/2001	3.8		mg/kg			
			OU5-CTA-1A-4250FR-SB-6	7/31/2001	2.6		mg/kg			
CSA	3	4251 Fordham Road							No	No
			OU5-CSA-3-4251FR-1	7/6/2001	2.6	J	mg/kg			
			OU5-CSA-3-4251FR-2	7/6/2001	2	J	mg/kg			
CSA	3	4253 Fordham Road							No	No
			OU5-CSA-3-4253FR-1	9/21/2001	4		mg/kg			
			OU5-CSA-3-4253FR-2	9/21/2001	7.6		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	3	4255 Fordham Road						Yes	No
			OU5-CSA-3-4255FR-1	9/6/2001	3.1	mg/kg			
			OU5-CSA-3-4255FR-2	9/6/2001	4.7	mg/kg			
			OU5-CSA-3-4255FR-SB-DUP68	9/6/2001	2.6	mg/kg	OU5-CSA-3-4255FR-SB3		
			OU5-CSA-3-4255FR-SB1	9/6/2001	1.4 J	mg/kg			
			OU5-CSA-3-4255FR-SB2	9/6/2001	0.6 U	mg/kg			
			OU5-CSA-3-4255FR-SB3	9/6/2001	4.5	mg/kg			
			OU5-CSA-3-4255FR-SB4	9/6/2001	1.3 J	mg/kg			
			OU5-CSA-3-4255FR-SB5	9/6/2001	0.81 J	mg/kg			
			OU5-CSA-3-4255FR-SB6	9/6/2001	1.4 J	mg/kg			
CSA	6	4256 Warren Street						Yes	Yes
			OU5-CSA-6-4256WS-1	7/30/2001	24.8	mg/kg			
			OU5-CSA-6-4256WS-2	7/30/2001	80	mg/kg			
			OU5-CSA-6-4256WS-DUP37	7/30/2001	10.3	mg/kg	OU5-CSA-6-4256WS-1		
			OU5-CSA-6-4256WS-SB-1	7/30/2001	2.9	mg/kg			
			OU5-CSA-6-4256WS-SB-2	7/30/2001	2.1 J	mg/kg			
			OU5-CSA-6-4256WS-SB-3	7/30/2001	1.4 J	mg/kg			
			OU5-CSA-6-4256WS-SB-4	7/30/2001	0.65 J	mg/kg			
			OU5-CSA-6-4256WS-SB-5	7/30/2001	1.6 J	mg/kg			
			OU5-CSA-6-4256WS-SB-6	7/30/2001	2.1 J	mg/kg			
CSA	3	4257 Fordham Road						No	No
			OU5-CSA-3-4257FR-1	8/23/2001	3	mg/kg			
			OU5-CSA-3-4257FR-2	8/23/2001	2.6 J	mg/kg			
CSA	6	4300 42nd Street						Yes	No
			OU5-CSA-6-4300(42)-1	6/5/2001	3.6	mg/kg			
			OU5-CSA-6-4300(42)-2	6/5/2001	4.7	mg/kg			
			OU5-CSA-6-4300(42)-SB-1	7/30/2001	2.9	mg/kg			
			OU5-CSA-6-4300(42)-SB-10	7/30/2001	6.3	mg/kg			
			OU5-CSA-6-4300(42)-SB-2	7/30/2001	3.6	mg/kg			
			OU5-CSA-6-4300(42)-SB-3	7/30/2001	10.2	mg/kg			
			OU5-CSA-6-4300(42)-SB-4	7/30/2001	3.6	mg/kg			
			OU5-CSA-6-4300(42)-SB-5	7/30/2001	4.4	mg/kg			
			OU5-CSA-6-4300(42)-SB-6	7/30/2001	5	mg/kg			
			OU5-CSA-6-4300(42)-SB-7	7/30/2001	5.4	mg/kg			
			OU5-CSA-6-4300(42)-SB-8	7/30/2001	7.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-6-4300(42)-SB-9	7/30/2001	6.5	mg/kg			
			OU5-CSA-6-4300(42)-SB-DUP40	7/30/2001	5.8	mg/kg	OU5-CSA-6-4300(42)-SB-4		
CSA	*6*	*4300 44th Street*						*No*	*No*
			OU5-CSA-6-4300(44)-1	8/23/2001	5.7 J	mg/kg			
			OU5-CSA-6-4300(44)-2	8/23/2001	5	mg/kg			
CSA	*7*	*4300 Van Ness Street*						*Yes*	*No*
			OU5-CSA-7-4300VNS-1	8/24/2001	9.9	mg/kg			
			OU5-CSA-7-4300VNS-2	8/24/2001	4.9	mg/kg			
			OU5-CSA-7-4300VNS-DUP49	8/24/2001	6.1	mg/kg	OU5-CSA-7-4300VNS-2		
			OU5-CSA-7-4300VNS-SB1	10/9/2001	4	mg/kg			
			OU5-CSA-7-4300VNS-SB2	10/9/2001	4.5	mg/kg			
			OU5-CSA-7-4300VNS-SB3	10/9/2001	3.7	mg/kg			
			OU5-CSA-7-4300VNS-SB4	10/9/2001	4.6	mg/kg			
			OU5-CSA-7-4300VNS-SB5	10/9/2001	6.7	mg/kg			
			OU5-CSA-7-4300VNS-SB6	10/9/2001	5.7	mg/kg			
			OU5-CSA-7-4300VNS-SB7	10/9/2001	2.8	mg/kg			
			OU5-CSA-7-4300VNS-SB8	10/9/2001	4.7	mg/kg			
CSA	*6*	*4300 Warren Street*						*No*	*No*
			OU5-CSA-6-4300WS-1	8/24/2001	7.4	mg/kg			
			OU5-CSA-6-4300WS-2	8/24/2001	7.8	mg/kg			
CSA	*6*	*4301 43rd Street*						*No*	*No*
			OU5-CSA-6-4301(43)-1	12/5/2001	5.7	mg/kg			
			OU5-CSA-6-4301(43)-2	12/5/2001	5.9	mg/kg			
CSA	*6*	*4301 45th Street*						*No*	*No*
			OU5-CSA-6-4301(45)-1	7/13/2001	5	mg/kg			
			OU5-CSA-6-4301(45)-2	7/13/2001	7.8	mg/kg			
CTA	*1A*	*4301 50th Street, Lot 1*						*No*	*No*
			OU5-CTA-1A-L1-1	8/27/2002	2.6	mg/kg			
			OU5-CTA-1A-L1-2	8/27/2002	2.6	mg/kg			
			OU5-CTA-1A-L1-3	8/27/2002	3.3	mg/kg			
			OU5-CTA-1A-L1-4	8/27/2002	3.4	mg/kg			
			OU5-CTA-1A-L1-SBA1	8/27/2002	1.6	mg/kg			
			OU5-CTA-1A-L1-SBA2	8/27/2002	2.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-L1-SBA3	8/27/2002	1.4	mg/kg			
			OU5-CTA-1A-L1-SBA4	8/27/2002	1.1 J	mg/kg			
			OU5-CTA-1A-L1-SBA5	8/27/2002	2.2	mg/kg			
			OU5-CTA-1A-L1-SBA6	8/27/2002	2.7	mg/kg			
			OU5-CTA-1A-L1-SBB-DUP110	8/28/2002	0.55 J	mg/kg	OU5-CTA-1A-L1-SBB3		
			OU5-CTA-1A-L1-SBB1	8/28/2002	1 J	mg/kg			
			OU5-CTA-1A-L1-SBB2	8/28/2002	3.1	mg/kg			
			OU5-CTA-1A-L1-SBB3	8/28/2002	0.73 J	mg/kg			
CTA	*1A*	*4301 50th Street, Lot 2*						*No*	*No*
			OU5-CTA-1A-L2-1	8/27/2002	3	mg/kg			
			OU5-CTA-1A-L2-2	8/27/2002	2.7	mg/kg			
			OU5-CTA-1A-L2-3	8/27/2002	2.5	mg/kg			
			OU5-CTA-1A-L2-4	8/27/2002	2	mg/kg			
			OU5-CTA-1A-L2-SB1	8/27/2002	3.1	mg/kg			
			OU5-CTA-1A-L2-SB2	8/27/2002	1.8	mg/kg			
			OU5-CTA-1A-L2-SB3	8/27/2002	3.9	mg/kg			
			OU5-CTA-1A-L2-SB4	8/27/2002	3.3	mg/kg			
CSA	*6*	*4301 Verplanck Place*						*No*	*No*
			OU5-CSA-6-4301VP-1	11/9/2001	8.3	mg/kg			
			OU5-CSA-6-4301VP-2	11/9/2001	5	mg/kg			
CSA	*6*	*4301 Warren Street*						*Yes*	*Yes*
			OU5-CSA-6-4301WS-1	3/26/2002	16.6	mg/kg			
			OU5-CSA-6-4301WS-2	3/26/2002	3.6	mg/kg			
			OU5-CSA-6-4301WS-SB1	3/26/2002	6.5	mg/kg			
			OU5-CSA-6-4301WS-SB2	3/26/2002	5.3	mg/kg			
			OU5-CSA-6-4301WS-SB3	3/26/2002	4.4	mg/kg			
			OU5-CSA-6-4301WS-SB4	3/26/2002	3	mg/kg			
			OU5-CSA-6-4301WS-SB5	3/26/2002	7.5	mg/kg			
			OU5-CSA-6-4301WS-SB6	3/26/2002	7.9	mg/kg			
			OU5-CSA-6-4301WS-SB7	3/26/2002	4.4	mg/kg			
			OU5-CSA-6-4301WS-SB8	3/26/2002	5.7	mg/kg			
CSA	*7*	*4304 Van Ness Street*						*Yes*	*No*
			OU5-CSA-7-4304VNS-1	8/23/2001	8.7	mg/kg			
			OU5-CSA-7-4304VNS-2	8/23/2001	7	mg/kg			
			OU5-CSA-7-4304VNS-SB-DUP83	10/9/2001	3.3	mg/kg	OU5-CSA-7-4304VNS-SB1		

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-7-4304VNS-SB1	10/9/2001	4.8	mg/kg			
			OU5-CSA-7-4304VNS-SB2	10/9/2001	1.1 J	mg/kg			
			OU5-CSA-7-4304VNS-SB3	10/9/2001	1.5 J	mg/kg			
			OU5-CSA-7-4304VNS-SB4	10/9/2001	2 J	mg/kg			
			OU5-CSA-7-4304VNS-SB5	10/9/2001	0.95 J	mg/kg			
			OU5-CSA-7-4304VNS-SB6	10/9/2001	1.2 J	mg/kg			
			OU5-CSA-7-4304VNS-SB7	10/9/2001	0.72 J	mg/kg			
CSA	*6*	*4304 Yuma Street*						*No*	*No*
			OU5-CSA-6-4304YS-1	9/21/2001	5.5	mg/kg			
			OU5-CSA-6-4304YS-2	9/21/2001	9.9	mg/kg			
CSA	*6*	*4305 Van Ness Street*						*No*	*No*
			OU5-CSA-6-4305VNS-1	7/20/2001	4.9	mg/kg			
			OU5-CSA-6-4305VNS-2	7/20/2001	7.7	mg/kg			
CSA	*6*	*4305 Warren Street*						*Yes*	*No*
			OU5-CSA-6-4305WS-1	8/7/2001	6.3	mg/kg			
			OU5-CSA-6-4305WS-2	8/7/2001	6.2	mg/kg			
			OU5-CSA-6-4305WS-SB1	8/7/2001	3.2	mg/kg			
			OU5-CSA-6-4305WS-SB10	8/7/2001	5.2	mg/kg			
			OU5-CSA-6-4305WS-SB2	8/7/2001	1.5 J	mg/kg			
			OU5-CSA-6-4305WS-SB3	8/7/2001	2.3 J	mg/kg			
			OU5-CSA-6-4305WS-SB4	8/7/2001	0.89 J	mg/kg			
			OU5-CSA-6-4305WS-SB5	8/7/2001	4.1	mg/kg			
			OU5-CSA-6-4305WS-SB6	8/7/2001	2.9	mg/kg			
			OU5-CSA-6-4305WS-SB7	8/7/2001	6.6	mg/kg			
			OU5-CSA-6-4305WS-SB8	8/7/2001	3.7	mg/kg			
			OU5-CSA-6-4305WS-SB9	8/7/2001	4.7	mg/kg			
CSA	*2*	*4308 50th Street*						*Yes*	*No*
			OU5-CSA-2-4308(50)-1	3/27/2002	2.8	mg/kg			
			OU5-CSA-2-4308(50)-2	3/27/2002	1.8 J	mg/kg			
			OU5-CSA-2-4308(50)-SB-DUP107	3/27/2002	1.3 J	mg/kg	OU5-CSA-2-4308(50)-SB5		
			OU5-CSA-2-4308(50)-SB1	3/27/2002	1.2 J	mg/kg			
			OU5-CSA-2-4308(50)-SB2	3/27/2002	1.9	mg/kg			
			OU5-CSA-2-4308(50)-SB3	3/27/2002	2	mg/kg			
			OU5-CSA-2-4308(50)-SB4	3/27/2002	2.3	mg/kg			
			OU5-CSA-2-4308(50)-SB5	3/27/2002	2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	7	4308 Van Ness Street						No	No
			OU5-CSA-7-4308VNS-1	3/22/2002	6.3	mg/kg			
			OU5-CSA-7-4308VNS-2	3/22/2002	4.8	mg/kg			
CSA	6	4309 Van Ness Street						No	No
			OU5-CSA-6-4309VNS-1	3/21/2002	4.6	mg/kg			
			OU5-CSA-6-4309VNS-2	3/21/2002	3.7	mg/kg			
CSA	6	4310 44th Street						Yes	No
			OU5-CSA-6-4310(44)-1	5/1/2002	4	mg/kg			
			OU5-CSA-6-4310(44)-2	5/1/2002	4	mg/kg			
			OU5-CSA-6-4310(44)-SB-DUP109	5/1/2002	4.2	mg/kg	OU5-CSA-6-4310(44)-SB5		
			OU5-CSA-6-4310(44)-SB1	5/1/2002	2.6	mg/kg			
			OU5-CSA-6-4310(44)-SB2	5/1/2002	2.4	mg/kg			
			OU5-CSA-6-4310(44)-SB3	5/1/2002	4.3	mg/kg			
			OU5-CSA-6-4310(44)-SB4	5/1/2002	4.1	mg/kg			
			OU5-CSA-6-4310(44)-SB5	5/1/2002	2.5	mg/kg			
			OU5-CSA-6-4310(44)-SB6	5/1/2002	3.5	mg/kg			
CSA	6	4311 Warren Street						No	No
			OU5-CSA-6-4311WS-1	3/21/2002	4	mg/kg			
			OU5-CSA-6-4311WS-2	3/21/2002	6.5	mg/kg			
CSA	6	4311 Windom Place						No	No
			OU5-CSA-6-4311WinP-1	7/20/2001	5.2	mg/kg			
			OU5-CSA-6-4311WinP-2	7/20/2001	5.9	mg/kg			
CSA	6	4312 43rd Street						No	No
			OU5-CSA-6-4312(43)-1	3/21/2002	4.4	mg/kg			
			OU5-CSA-6-4312(43)-2	3/21/2002	3.5	mg/kg			
CSA	7	4312 Van Ness Street						No	No
			OU5-CSA-7-4312VNS-1	11/8/2001	4.6	mg/kg			
			OU5-CSA-7-4312VNS-2	11/8/2001	2.7	mg/kg			
CSA	6	4312 Warren Street						No	No
			OU5-CSA-6-4312WS-1	7/20/2001	5.9	mg/kg			
			OU5-CSA-6-4312WS-2	7/20/2001	3.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	6	4315 43rd Street						No	No
			OU5-CSA-6-4315(43)-1	8/24/2001	5.7	mg/kg			
			OU5-CSA-6-4315(43)-2	8/24/2001	6.1	mg/kg			
CSA	3	4315 50th Street, Lot 4						Yes	No
			OU5-CSA-3-L4-1	8/28/2002	4	mg/kg			
			OU5-CSA-3-L4-2	8/28/2002	4	mg/kg			
			OU5-CSA-3-L4-DUP115	8/28/2002	3.9	mg/kg	OU5-CSA-3-L4-1		
			OU5-CSA-3-L4-SBA1	8/28/2002	2.9	mg/kg			
			OU5-CSA-3-L4-SBA2	8/28/2002	4.7	mg/kg			
			OU5-CSA-3-L4-SBA3	8/28/2002	2.5	mg/kg			
			OU5-CSA-3-L4-SBA4	8/28/2002	2.4	mg/kg			
			OU5-CSA-3-L4-SBA5	8/28/2002	2.2	mg/kg			
			OU5-CSA-3-L4-SBB1	8/28/2002	1.8	mg/kg			
			OU5-CSA-3-L4-SBB2	8/28/2002	2.6	mg/kg			
			OU5-CSA-3-L4-SBB3	8/28/2002	2.1	mg/kg			
			OU5-CSA-3-L4-SBB4	8/28/2002	1.7	mg/kg			
			OU5-CSA-3-L4-SBB5	8/28/2002	3.3	mg/kg			
			OU5-CSA-3-L4-SBB6	8/28/2002	1.9	mg/kg			
			OU5-CSA-3-L4-SBC-DUP111	8/28/2002	1.9	mg/kg	OU5-CSA-3-L4-SBC2		
			OU5-CSA-3-L4-SBC1	8/28/2002	0.47 J	mg/kg			
			OU5-CSA-3-L4-SBC2	8/28/2002	2.2	mg/kg			
			OU5-CSA-3-L4-SBC3	8/28/2002	2.6	mg/kg			
			OU5-CSA-3-L4-SBC4	8/28/2002	3.5	mg/kg			
			OU5-CSA-3-L4-SBC5	8/28/2002	4	mg/kg			
			OU5-CSA-3-L4-SBC6	8/28/2002	4.5	mg/kg			
			OU5-CSA-3-L4-SBC7	8/28/2002	2	mg/kg			
			OU5-CSA-3-L4-SBC8	8/28/2002	2	mg/kg			
CSA	6	4315 Van Ness Street						No	No
			OU5-CSA-6-4315VNS-1	7/20/2001	4	mg/kg			
			OU5-CSA-6-4315VNS-2	7/20/2001	6.9	mg/kg			
CSA	7	4316 Van Ness Street						No	No
			OU5-CSA-7-4316VNS-1	7/20/2001	5.5	mg/kg			
			OU5-CSA-7-4316VNS-2	7/20/2001	6	mg/kg			
CSA	6	4316 Windom Place						No	Yes + 1' arsenic boring
			OU5-CSA-6-4316WinP-1	6/11/2002	20.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-6-4316WinP-2	6/11/2002	3.6	mg/kg			
CSA	6	4317 Warren Street						No	Yes + specialty boring
			OU5-CSA-6-4317WS-1	11/14/2001	33.8	mg/kg			
			OU5-CSA-6-4317WS-2	11/14/2001	52.8	mg/kg			
CSA	6	4317 Windom Place						No	No
			OU5-CSA-6-4317WinP-1	7/20/2001	6.6	mg/kg			
			OU5-CSA-6-4317WinP-2	7/20/2001	5.5	mg/kg			
CSA	6	4318 Warren Street						No	Yes + 1' arsenic boring
			OU5-CSA-6-4318WS-1	8/24/2001	35.8	mg/kg			
			OU5-CSA-6-4318WS-2	8/24/2001	22.7	mg/kg			
CSA	6	4319 Van Ness Street						No	No
			OU5-CSA-6-4319VNS-1	10/12/2001	4.9	mg/kg			
			OU5-CSA-6-4319VNS-2	10/12/2001	5.9	mg/kg			
CSA	7	4320 Van Ness Street						No	No
			OU5-CSA-7-4320VNS-1	11/9/2001	8.7	mg/kg			
			OU5-CSA-7-4320VNS-2	11/9/2001	5.4	mg/kg			
CSA	6	4321 43rd Street						No	No
			OU5-CSA-6-4321(43)-1	7/20/2001	4.2	mg/kg			
			OU5-CSA-6-4321(43)-2	7/20/2001	5.2	mg/kg			
CSA	6	4321 Van Ness Street						No	No
			OU5-CSA-6-4321VNS-1	11/9/2001	3.7	mg/kg			
			OU5-CSA-6-4321VNS-2	11/9/2001	4.7	mg/kg			
CSA	6	4321 Verplanck Place						Yes	No
			OU5-CSA-6-4321VP-1	10/1/2001	7.9	mg/kg			
			OU5-CSA-6-4321VP-2	10/1/2001	3.7	mg/kg			
			OU5-CSA-6-4321VP-SB1	10/1/2001	2.8	mg/kg			
			OU5-CSA-6-4321VP-SB2	10/1/2001	3.8 J	mg/kg			
			OU5-CSA-6-4321VP-SB3	10/1/2001	4.4	mg/kg			
			OU5-CSA-6-4321VP-SB4	10/1/2001	1.7 J	mg/kg			
			OU5-CSA-6-4321VP-SB5	10/1/2001	1.5 J	mg/kg			
			OU5-CSA-6-4321VP-SB6	10/1/2001	1.3 J	mg/kg			
			OU5-CSA-6-4321VP-SB7	10/1/2001	0.75 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-6-4321VP-SB8	10/1/2001	1.5 J	mg/kg			
CSA	6	4322 42nd Street						No	No
			OU5-CSA-6-4322(42)-1	8/3/2001	6.1	mg/kg			
			OU5-CSA-6-4322(42)-2	8/3/2001	4.7	mg/kg			
CSA	6	4322 Windom Place						No	No
			OU5-CSA-6-4322WinP-1	11/14/2001	7.7	mg/kg			
			OU5-CSA-6-4322WinP-2	11/14/2001	5.5	mg/kg			
CSA	6	4323 Warren Street						No	Yes + 1' arsenic boring
			OU5-CSA-6-4323WS-1	7/27/2001	15.5	mg/kg			
			OU5-CSA-6-4323WS-2	7/27/2001	24.5	mg/kg			
CSA	6	4323 Windom Place						No	Yes + 1' arsenic boring
			OU5-CSA-6-4323WinP-1	8/24/2001	6.8	mg/kg			
			OU5-CSA-6-4323WinP-2	8/24/2001	16.4	mg/kg			
CSA	6	4324 43rd Street						No	No
			OU5-CSA-6-4324(43)-1	7/20/2001	4.6	mg/kg			
			OU5-CSA-6-4324(43)-2	7/20/2001	5.2	mg/kg			
CSA	7	4324 Van Ness Street						No	No
			OU5-CSA-7-4324VNS-1	1/10/2002	3.7	mg/kg			
			OU5-CSA-7-4324VNS-2	1/10/2002	4.4	mg/kg			
CSA	6	4324 Verplanck Place						No	No
			OU5-CSA-6-4324VP-1	11/14/2001	5.1	mg/kg			
			OU5-CSA-6-4324VP-2	11/14/2001	10.8	mg/kg			
CSA	6	4324 Warren Street						No	No
			OU5-CSA-6-4324WS-1	8/24/2001	3.7	mg/kg			
			OU5-CSA-6-4324WS-2	8/24/2001	9.3	mg/kg			
CSA	6	4325 Van Ness Street						No	No
			OU5-CSA-6-4325VNS-(1)	2/14/2002	4.6	mg/kg			
			OU5-CSA-6-4325VNS-(2)	2/14/2002	6.4	mg/kg			
CSA	6	4325 Verplanck Place						No	No
			OU5-CSA-6-4325VP-1	4/25/2002	6.6	mg/kg			
			OU5-CSA-6-4325VP-2	4/25/2002	5.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	6	4326 42nd Street						No	No
			OU5-CSA-6-4326(42)-1	8/24/2001	6.2	mg/kg			
			OU5-CSA-6-4326(42)-2	8/24/2001	5.6	mg/kg			
CSA	6	4327 43rd Street						No	No
			OU5-CSA-6-4327(43)-1	10/24/2001	6.1	mg/kg			
			OU5-CSA-6-4327(43)-2	10/24/2001	4.8	mg/kg			
CSA	7	4328 Van Ness Street						No	No
			OU5-CSA-7-4328VNS-1	8/24/2001	4.9	mg/kg			
			OU5-CSA-7-4328VNS-2	8/24/2001	5.6	mg/kg			
CSA	6	4328 Verplanck Place						No	No
			OU5-CSA-6-4328VP-1	8/24/2001	6.3	mg/kg			
			OU5-CSA-6-4328VP-2	8/24/2001	8.2	mg/kg			
			OU5-CSA-6-4328VP-DUP50	8/24/2001	9.6	mg/kg	OU5-CSA-6-4328VP-2		
CSA	6	4328 Windom Place						No	Yes + 1' arsenic boring
			OU5-CSA-6-4328WinP-1	8/24/2001	17.7	mg/kg			
			OU5-CSA-6-4328WinP-2	8/24/2001	11.6	mg/kg			
CSA	6	4329 Van Ness Street						No	No
			OU5-CSA-6-4329VNS-1	8/27/2002	6.3	mg/kg			
			OU5-CSA-6-4329VNS-2	8/27/2002	8.9	mg/kg			
CSA	6	4329 Verplanck Place						No	Yes + 1' arsenic boring
			OU5-CSA-6-4329VP-1	7/20/2001	9.3	mg/kg			
			OU5-CSA-6-4329VP-2	7/20/2001	23.8	mg/kg			
			OU5-CSA-6-4329VP-DUP30-1	7/20/2001	24.7	mg/kg	OU5-CSA-6-4329VP-2		
CSA	6	4329 Windom Place						No	No
			OU5-CSA-6-4329WinP-1	3/22/2002	4.1 K	mg/kg			
			OU5-CSA-6-4329WinP-2	3/22/2002	4.1 K	mg/kg			
CSA	6	4330 42nd Street						No	Yes + specialty boring
			OU5-CSA-6-4330(42)-1	8/17/2001	56.3	mg/kg			
			OU5-CSA-6-4330(42)-2	8/17/2001	68.2	mg/kg			
			OU5-CSA-6-4330(42)-DUP46	8/17/2001	57.5	mg/kg	OU5-CSA-6-4330(42)-2		

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	6	4330 43rd Street							No	No
			OU5-CSA-6-4330(43)-1	8/24/2001	5.4		mg/kg			
			OU5-CSA-6-4330(43)-2	8/24/2001	5.6		mg/kg			
			OU5-CSA-6-4330(43)-DUP51	8/24/2001	5.5		mg/kg	OU5-CSA-6-4330(43)-2		
CSA	2	4330 50th Street							No	No
			OU5-CSA-2-4330(50)-1	3/28/2002	2.1		mg/kg			
			OU5-CSA-2-4330(50)-2	3/28/2002	2.6		mg/kg			
CSA	6	4330 Warren Street							No	No
			OU5-CSA-6-4330WS-1	6/11/2002	10.9		mg/kg			
			OU5-CSA-6-4330WS-2	6/11/2002	8.4		mg/kg			
CSA	6	4331 43rd Street							No	Yes + 1' arsenic boring
			OU5-CSA-6-4331(43)-1	7/20/2001	14.5		mg/kg			
			OU5-CSA-6-4331(43)-2	7/20/2001	6.3		mg/kg			
CSA	6	4332 Verplanck Place							Yes	No
			OU5-CSA-6-4332VP-1	10/2/2001	3		mg/kg			
			OU5-CSA-6-4332VP-2	10/2/2001	5.7		mg/kg			
			OU5-CSA-6-4332VP-DUP66	10/2/2001	2.6		mg/kg	OU5-CSA-6-4332VP-1		
			OU5-CSA-6-4332VP-SB1	10/2/2001	2	J	mg/kg			
			OU5-CSA-6-4332VP-SB2	10/2/2001	3.1		mg/kg			
			OU5-CSA-6-4332VP-SB3	10/2/2001	10.9		mg/kg			
			OU5-CSA-6-4332VP-SB4	10/2/2001	1.2	J	mg/kg			
			OU5-CSA-6-4332VP-SB5	10/2/2001	0.94	J	mg/kg			
			OU5-CSA-6-4332VP-SB6	10/2/2001	2.3		mg/kg			
CSA	6	4333 Van Ness Street							Yes	Yes
			OU5-CSA-6-4333VNS-1	7/30/2001	12.5	J	mg/kg			
			OU5-CSA-6-4333VNS-2	7/30/2001	56.5	J	mg/kg			
			OU5-CSA-6-4333VNS-SB-1	7/30/2001	9.7	J	mg/kg			
			OU5-CSA-6-4333VNS-SB-2	7/30/2001	3.2	J	mg/kg			
			OU5-CSA-6-4333VNS-SB-3	7/30/2001	1.8	J	mg/kg			
			OU5-CSA-6-4333VNS-SB-4	7/30/2001	0.73	J	mg/kg			
			OU5-CSA-6-4333VNS-SB-5	7/30/2001	0.99	J	mg/kg			
			OU5-CSA-6-4333VNS-SB-6	7/30/2001	0.85	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	6	4333 Verplanck Place						No	No
			OU5-CSA-6-4333VP-1	11/14/2001	3.5	mg/kg			
			OU5-CSA-6-4333VP-2	11/14/2001	7.4	mg/kg			
			OU5-CSA-6-4333VP-DUP89	11/14/2001	6.4	mg/kg	OU5-CSA-6-4333VP-2		
CSA	6	4334 Windom Place						No	No
			OU5-CSA-6-4334WinP-1	11/14/2001	5.3	mg/kg			
			OU5-CSA-6-4334WinP-2	11/14/2001	4.3	mg/kg			
			OU5-CSA-6-4334WinP-DUP90	11/14/2001	5.1	mg/kg	OU5-CSA-6-4334WinP-2		
CSA	6	4335 Van Ness Street						No	No
			OU5-CSA-6-4335VNS-1	4/25/2002	6.2	mg/kg			
			OU5-CSA-6-4335VNS-2	4/25/2002	5.6	mg/kg			
CSA	6	4335 Warren Street						No	No
			OU5-CSA-6-4335WS-1	8/24/2001	6.9	mg/kg			
			OU5-CSA-6-4335WS-2	8/24/2001	6.1	mg/kg			
CSA	6	4336 Verplanck Place						No	No
			OU5-CSA-6-4336VP-1	8/24/2001	4.1	mg/kg			
			OU5-CSA-6-4336VP-2	8/24/2001	5.6	mg/kg			
CSA	6	4336 Warren Street						No	No
			OU5-CSA-6-4336WS-1	7/20/2001	12.3	mg/kg			
			OU5-CSA-6-4336WS-2	7/20/2001	5.1	mg/kg			
CSA	6	4337 Verplanck Place						No	Yes + 1' arsenic boring
			OU5-CSA-6-4337VP-1	7/25/2001	9.1	mg/kg			
			OU5-CSA-6-4337VP-2	7/25/2001	14.6	mg/kg			
CSA	6	4340 Verplanck Place						Yes	No
			OU5-CSA-6-4340VP-1	7/30/2001	3.3	mg/kg			
			OU5-CSA-6-4340VP-2	7/30/2001	4.3	mg/kg			
			OU5-CSA-6-4340VP-SB-1	7/30/2001	1.8 J	mg/kg			
			OU5-CSA-6-4340VP-SB-2	7/30/2001	1.7 J	mg/kg			
			OU5-CSA-6-4340VP-SB-3	7/30/2001	1.9 J	mg/kg			
			OU5-CSA-6-4340VP-SB-4	7/30/2001	2.6	mg/kg			
			OU5-CSA-6-4340VP-SB-5	7/30/2001	1.6 J	mg/kg			
			OU5-CSA-6-4340VP-SB-6	7/30/2001	1.6 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-6-4340VP-SB-7	7/30/2001	1 J	mg/kg			
			OU5-CSA-6-4340VP-SB-8	7/30/2001	1.1 J	mg/kg			
			OU5-CSA-6-4340VP-SB-9	7/30/2001	0.96 J	mg/kg			
CSA	6	4340 Windom Place						Yes	No
			OU5-CSA-6-4340WinP-1	8/1/2001	4.7	mg/kg			
			OU5-CSA-6-4340WinP-2	8/1/2001	3.7	mg/kg			
			OU5-CSA-6-4340WinP-SB1	8/1/2001	1.4 J	mg/kg			
			OU5-CSA-6-4340WinP-SB2	8/1/2001	4	mg/kg			
			OU5-CSA-6-4340WinP-SB3	8/1/2001	3.2	mg/kg			
			OU5-CSA-6-4340WinP-SB4	8/1/2001	3.4	mg/kg			
			OU5-CSA-6-4340WinP-SB5	8/1/2001	3.2	mg/kg			
			OU5-CSA-6-4340WinP-SB6	8/1/2001	3	mg/kg			
			OU5-CSA-6-4340WinP-SB7	8/1/2001	1.7 J	mg/kg			
			OU5-CSA-6-4340WinP-SB8	8/1/2001	0.65 J	mg/kg			
			OU5-CSA-6-4340WinP-SB9	8/1/2001	0.86 J	mg/kg			
CSA	6	4341 Verplanck Place						No	No
			OU5-CSA-6-4341VP-1	8/24/2001	8.7	mg/kg			
			OU5-CSA-6-4341VP-2	8/24/2001	4.3	mg/kg			
CSA	6	4341 Warren Street						No	Yes + 1' arsenic boring
			OU5-CSA-6-4341WS-1	8/24/2001	13.2	mg/kg			
			OU5-CSA-6-4341WS-2	8/24/2001	4.3	mg/kg			
CSA	6	4344 Verplanck Place						Yes	No
			OU5-CSA-6-4344VP-1	7/30/2001	3.6	mg/kg			
			OU5-CSA-6-4344VP-2	7/30/2001	4	mg/kg			
			OU5-CSA-6-4344VP-SB-1	7/30/2001	1.4 J	mg/kg			
			OU5-CSA-6-4344VP-SB-2	7/30/2001	1.1 J	mg/kg			
			OU5-CSA-6-4344VP-SB-3	7/30/2001	1.4 J	mg/kg			
			OU5-CSA-6-4344VP-SB-4	7/30/2001	3.9	mg/kg			
			OU5-CSA-6-4344VP-SB-5	7/30/2001	2.8	mg/kg			
			OU5-CSA-6-4344VP-SB-6	7/30/2001	1.1 J	mg/kg			
			OU5-CSA-6-4344VP-SB-7	7/30/2001	0.88 J	mg/kg			
			OU5-CSA-6-4344VP-SB-8	7/30/2001	1.1 J	mg/kg			
			OU5-CSA-6-4344VP-SB-9	7/30/2001	0.78 J	mg/kg			
CSA	6	4345 Verplanck Place						No	No
			OU5-CSA-6-4345VP-1	7/24/2001	3.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-6-4345VP-2	7/24/2001	5.7	mg/kg			
CSA	6	4347 Warren Street						No	Yes + 1' arsenic boring
			OU5-CSA-6-4347WS-1	11/9/2001	11.8	mg/kg			
			OU5-CSA-6-4347WS-2	11/9/2001	13.2	mg/kg			
CSA	6	4348 Verplanck Place						No	No
			OU5-CSA-6-4348VP-1	11/14/2001	6.5	mg/kg			
			OU5-CSA-6-4348VP-2	11/14/2001	2.9 J	mg/kg			
CSA	6	4348 Warren Street						No	No
			OU5-CSA-6-4348WS-1	7/27/2001	7.8	mg/kg			
			OU5-CSA-6-4348WS-2	7/27/2001	8	mg/kg			
CSA	6	4349 Verplanck Place						No	Yes + 1' arsenic boring
			OU5-CSA-6-4349VP-1	8/23/2001	9.5	mg/kg			
			OU5-CSA-6-4349VP-2	8/23/2001	17	mg/kg			
CSA	2	4350 50th Street						Yes	No
			OU5-CSA-2-4350(50)-1	3/19/2002	2.6	mg/kg			
			OU5-CSA-2-4350(50)-2	3/19/2002	3.6	mg/kg			
			OU5-CSA-2-4350(50)-SB1	3/19/2002	1.8	mg/kg			
			OU5-CSA-2-4350(50)-SB2	3/19/2002	1.6	mg/kg			
			OU5-CSA-2-4350(50)-SB3	3/19/2002	1.7	mg/kg			
			OU5-CSA-2-4350(50)-SB4	3/19/2002	2.9	mg/kg			
			OU5-CSA-2-4350(50)-SB5	3/19/2002	2.6	mg/kg			
			OU5-CSA-2-4350(50)-SB6	3/19/2002	2.7	mg/kg			
CSA	6	4352 Verplanck Place						No	No
			OU5-CSA-6-4352VP-1	1/10/2002	4.5	mg/kg			
			OU5-CSA-6-4352VP-2	1/10/2002	3.2	mg/kg			
CSA	6	4352 Windom Place						No	No
			OU5-CSA-6-4352WinP-1	11/19/2001	4.3	mg/kg			
			OU5-CSA-6-4352WinP-2	11/19/2001	4	mg/kg			
CSA	6	4353 Verplanck Place						Yes	No
			OU5-CSA-6-4353VP-1	10/2/2001	3.7 J	mg/kg			
			OU5-CSA-6-4353VP-2	10/2/2001	3.4	mg/kg			
			OU5-CSA-6-4353VP-SB-DUP80	10/2/2001	0.56 J	mg/kg	OU5-CSA-6-4353VP-SB10		

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-6-4353VP-SB1	10/2/2001	3.2	mg/kg			
			OU5-CSA-6-4353VP-SB10	10/2/2001	0.69 J	mg/kg			
			OU5-CSA-6-4353VP-SB2	10/2/2001	1.5 J	mg/kg			
			OU5-CSA-6-4353VP-SB3	10/2/2001	1.2 J	mg/kg			
			OU5-CSA-6-4353VP-SB4	10/2/2001	0.67 J	mg/kg			
			OU5-CSA-6-4353VP-SB5	10/2/2001	0.65 J	mg/kg			
			OU5-CSA-6-4353VP-SB6	10/2/2001	0.84 J	mg/kg			
			OU5-CSA-6-4353VP-SB7	10/2/2001	0.74 J	mg/kg			
			OU5-CSA-6-4353VP-SB8	10/2/2001	0.41 U	mg/kg			
			OU5-CSA-6-4353VP-SB9	10/2/2001	0.5 U	mg/kg			
CSA	*6*	*4353 Warren Street*						*No*	*No*
			OU5-CSA-6-4353WS-1	7/25/2001	8.3	mg/kg			
			OU5-CSA-6-4353WS-2	7/25/2001	5.5	mg/kg			
CSA	*6*	*4354 Warren Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-6-4354WS-1	11/14/2001	23.5	mg/kg			
			OU5-CSA-6-4354WS-2	11/14/2001	8	mg/kg			
CSA	*6*	*4358 Windom Place*						*No*	*No*
			OU5-CSA-6-4358WinP-1	7/24/2001	4.1	mg/kg			
			OU5-CSA-6-4358WinP-2	7/24/2001	5	mg/kg			
CSA	*7*	*4360 Van Ness Street*						*No*	*No*
			OU5-CSA-7-4360VNS-1	8/7/2001	4.5	mg/kg			
			OU5-CSA-7-4360VNS-2	8/7/2001	9.7	mg/kg			
CSA	*2*	*4400 50th Street*						*No*	*No*
			OU5-CSA-2-4400(50)-1	7/6/2001	2.3 J	mg/kg			
			OU5-CSA-2-4400(50)-2	7/6/2001	1.9 J	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 1*						*Yes*	*No*
			OU4-AU01-1	11/13/2000	5.57	mg/kg			
			OU4-AU01-2	11/13/2000	2.7	mg/kg			
			OU4-AU01-3	11/13/2000	2.59	mg/kg			
			OU4-AU01-4	11/13/2000	4.32	mg/kg			
			OU4-AU01-SB-1	11/13/2000	4.41	mg/kg			
			OU4-AU01-SB-2	11/13/2000	4.34	mg/kg			
			OU4-AU01-SB-3	11/13/2000	3.09	mg/kg			
			OU4-AU01-SB-4	11/13/2000	2.29	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU01-SB-5	11/13/2000	2.5	mg/kg			
			OU4-AU01-SB-6	11/13/2000	1.72	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 10*						*Yes*	*Yes*
			OU4-AU10-1	11/15/2000	4.76	mg/kg			
			OU4-AU10-2	11/15/2000	16.6	mg/kg			
			OU4-AU10-3	11/15/2000	21.1	mg/kg			
			OU4-AU10-4	11/15/2000	8.4	mg/kg			
			OU4-AU10-DUP-02	11/15/2000		mg/kg			
			OU4-AU10-DUP01	3/14/2001	5.43 J	mg/kg			
			OU4-AU10-DUP02	3/14/2001	14.8	mg/kg			
			OU4-AU10-DUP03	3/14/2001	15.4	mg/kg			
			OU4-AU10-DUP04	3/14/2001	3.12	mg/kg			
			OU4-AU10-SB1	11/14/2000	4.76	mg/kg			
			OU4-AU10-SB10	11/14/2000	0.54 J	mg/kg			
			OU4-AU10-SB11	11/14/2000	0.98	mg/kg			
			OU4-AU10-SB12	11/14/2000	0.87	mg/kg			
			OU4-AU10-SB2	11/14/2000	2.06	mg/kg			
			OU4-AU10-SB3	11/14/2000	1.87	mg/kg			
			OU4-AU10-SB4	11/14/2000	2.3	mg/kg			
			OU4-AU10-SB5	11/14/2000	3.27	mg/kg			
			OU4-AU10-SB6	11/14/2000	2.92	mg/kg			
			OU4-AU10-SB7	11/14/2000	4.09	mg/kg			
			OU4-AU10-SB8	11/14/2000	3.66	mg/kg			
			OU4-AU10-SB9	11/14/2000	2.29	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 11*						*No*	*No*
			OU5-CSA-9-L11-1	8/17/2001	2.6	mg/kg			
			OU5-CSA-9-L11-2	8/17/2001	4.4	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 11*						*Yes*	*Yes*
			OU4-AU11-1	11/16/2000	5.45	mg/kg			
			OU4-AU11-2	11/16/2000	3.8	mg/kg			
			OU4-AU11-3	11/16/2000	31.5	mg/kg			
			OU4-AU11-4	11/16/2000	30.3	mg/kg			
			OU4-AU11-DUP10	11/22/2000	2.28	mg/kg			
			OU4-AU11-SB-1	11/22/2000	29.2	mg/kg			
			OU4-AU11-SB-10	11/22/2000	4.77	mg/kg			
			OU4-AU11-SB-2	11/22/2000	2.03	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU11-SB-3	11/22/2000	1.58		mg/kg			
			OU4-AU11-SB-4	11/22/2000	3.64		mg/kg			
			OU4-AU11-SB-5	11/22/2000	3.76		mg/kg			
			OU4-AU11-SB-6	11/22/2000	4.06		mg/kg			
			OU4-AU11-SB-7	11/22/2000	2.29		mg/kg			
			OU4-AU11-SB-8	11/22/2000	2.67		mg/kg			
			OU4-AU11-SB-9	11/22/2000	2.58		mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 12*							*Yes*	*Yes*
			OU4-AU12-1	11/22/2000	31.3		mg/kg			
			OU4-AU12-2	11/22/2000	7.17		mg/kg			
			OU4-AU12-3	11/22/2000	7.46		mg/kg			
			OU4-AU12-4	11/22/2000	46.7		mg/kg			
			OU4-AU12-CDC	11/27/2000	31.3		mg/kg			
			OU4-AU12-DUP01	1/4/2001	84.1	D	mg/kg			
			OU4-AU12-DUP02	1/4/2001	1.2	D	mg/kg			
			OU4-AU12-SB-DUP04	11/22/2000	43		mg/kg			
			OU4-AU12-SB1	11/22/2000	124		mg/kg			
			OU4-AU12-SB10	11/22/2000	2.94		mg/kg			
			OU4-AU12-SB2	11/22/2000	71.4		mg/kg			
			OU4-AU12-SB3	11/22/2000	46.4		mg/kg			
			OU4-AU12-SB4	11/22/2000	3.96		mg/kg			
			OU4-AU12-SB5	11/22/2000	5.27		mg/kg			
			OU4-AU12-SB6	11/22/2000	3.19		mg/kg			
			OU4-AU12-SB7	11/22/2000	2.49		mg/kg			
			OU4-AU12-SB8	11/22/2000	6.53		mg/kg			
			OU4-AU12-SB9	11/22/2000	2.27		mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 13*							*Yes*	*Yes*
			OU4-AU13-1	11/15/2000	7.21		mg/kg			
			OU4-AU13-2	11/15/2000	19.2		mg/kg			
			OU4-AU13-3	11/15/2000	18.9		mg/kg			
			OU4-AU13-4	11/15/2000	7.74		mg/kg			
			OU4-AU13-DUP03	11/15/2000	16.9		mg/kg			
			OU4-AU13-SB-1	11/15/2000	19.1		mg/kg			
			OU4-AU13-SB-2	11/15/2000	1.52		mg/kg			
			OU4-AU13-SB-3	11/15/2000	2.62		mg/kg			
			OU4-AU13-SB-4	11/15/2000	1.93		mg/kg			
			OU4-AU13-SB-5	11/15/2000	2.87		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU13-SB-6	11/15/2000	2.56	mg/kg			
OU4	OU4	4400 Massachusetts Avenue, Lot 14						Yes	Yes
			OU4-AU14-1	11/16/2000	15.4	mg/kg			
			OU4-AU14-2	11/16/2000	8.5	mg/kg			
			OU4-AU14-3	11/16/2000	5.04	mg/kg			
			OU4-AU14-4	11/16/2000	12.6	mg/kg			
			OU4-AU14-SB-1	11/16/2000	3.52	mg/kg			
			OU4-AU14-SB-2	11/16/2000	2.57	mg/kg			
			OU4-AU14-SB-3	11/16/2000	5	mg/kg			
			OU4-AU14-SB-4	11/16/2000	3.16	mg/kg			
			OU4-AU14-SB-5	11/16/2000	2.83	mg/kg			
			OU4-AU14-SB-6	11/16/2000	1.82	mg/kg			
OU4	OU4	4400 Massachusetts Avenue, Lot 15						Yes	Yes
			OU4-AU15-1	11/16/2000	7.76	mg/kg			
			OU4-AU15-2	11/16/2000	22.9	mg/kg			
			OU4-AU15-3	11/16/2000	9.58	mg/kg			
			OU4-AU15-4	11/16/2000	19.4	mg/kg			
			OU4-AU15-SB-1	11/16/2000	2.85	mg/kg			
			OU4-AU15-SB-2	11/16/2000	3.82	mg/kg			
			OU4-AU15-SB-3	11/16/2000	3.14	mg/kg			
			OU4-AU15-SB-4	11/16/2000	2.61	mg/kg			
			OU4-AU15-SB-5	11/16/2000	2.51	mg/kg			
			OU4-AU15-SB-6	11/16/2000	2.69	mg/kg			
			OU4-AU15-SB-DUP05	11/16/2000	2.88	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 16						Yes	No
			OU5-CSA-9-L16-1	8/15/2001	2.4 J	mg/kg			
			OU5-CSA-9-L16-2	8/15/2001	3.8	mg/kg			
			OU5-CSA-9-L16-DUP44	8/15/2001	2.5	mg/kg	OU5-CSA-9-L16-1		
			OU5-CSA-9-L16-SB1	8/15/2001	7.5	mg/kg			
			OU5-CSA-9-L16-SB10	8/15/2001	0.45 J	mg/kg			
			OU5-CSA-9-L16-SB2	8/15/2001	9.2	mg/kg			
			OU5-CSA-9-L16-SB3	8/15/2001	8.7	mg/kg			
			OU5-CSA-9-L16-SB4	8/15/2001	18.6	mg/kg			
			OU5-CSA-9-L16-SB5	8/15/2001	10.2 J	mg/kg			
			OU5-CSA-9-L16-SB6	8/15/2001	0.39 U	mg/kg			
			OU5-CSA-9-L16-SB7	8/15/2001	0.95 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-9-L16-SB8	8/15/2001	1 J	mg/kg			
			OU5-CSA-9-L16-SB9	8/15/2001	0.46 U	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 16*						*Yes*	*No*
			OU4-AU16-1	11/16/2000	10.1	mg/kg			
			OU4-AU16-2	11/16/2000	6.64	mg/kg			
			OU4-AU16-3	11/16/2000	7.12	mg/kg			
			OU4-AU16-4	11/16/2000	9.84	mg/kg			
			OU4-AU16-SB-1	11/16/2000	2.41	mg/kg			
			OU4-AU16-SB-2	11/16/2000	4.15	mg/kg			
			OU4-AU16-SB-3	11/16/2000	2.64	mg/kg			
			OU4-AU16-SB-4	11/16/2000	6.59	mg/kg			
			OU4-AU16-SB-5	11/16/2000	2.46	mg/kg			
			OU4-AU16-SB-6	11/16/2000	60.6	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 17*						*No*	*No*
			OU5-CSA-9-L17-1	8/17/2001	5.3	mg/kg			
			OU5-CSA-9-L17-2	8/17/2001	4.1	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 17*						*Yes*	*No*
			OU4-AU17-1	11/17/2000	6.09	mg/kg			
			OU4-AU17-2	11/17/2000	5.32	mg/kg			
			OU4-AU17-3	11/17/2000	4.91	mg/kg			
			OU4-AU17-4	11/17/2000	5.5	mg/kg			
			OU4-AU17-SB-1	11/16/2000	2.8	mg/kg			
			OU4-AU17-SB-10	11/16/2000	4.79	mg/kg			
			OU4-AU17-SB-2	11/16/2000	2.78	mg/kg			
			OU4-AU17-SB-3	11/16/2000	5.33	mg/kg			
			OU4-AU17-SB-4	11/16/2000	7.43	mg/kg			
			OU4-AU17-SB-5	11/16/2000	8.49	mg/kg			
			OU4-AU17-SB-6	11/16/2000	5.04	mg/kg			
			OU4-AU17-SB-7	11/16/2000	3.99	mg/kg			
			OU4-AU17-SB-8	11/16/2000	14.5	mg/kg			
			OU4-AU17-SB-9	11/16/2000	6.52	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 18*						*No*	*No*
			OU5-CSA-9-L18-1	8/16/2001	1.9 J	mg/kg			
			OU5-CSA-9-L18-2	8/16/2001	2.1 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
OU4	OU4	4400 Massachusetts Avenue, Lot 18							Yes	No
			OU4-AU18-1	11/17/2000	7.63		mg/kg			
			OU4-AU18-2	11/17/2000	3.5		mg/kg			
			OU4-AU18-3	11/17/2000	7.96		mg/kg			
			OU4-AU18-4	11/17/2000	7.51		mg/kg			
			OU4-AU18-DUP04	11/17/2000	10.8		mg/kg			
			OU4-AU18-SB-1	11/17/2000	9.71		mg/kg			
			OU4-AU18-SB-10	11/17/2000	1.91		mg/kg			
			OU4-AU18-SB-2	11/17/2000	3.33		mg/kg			
			OU4-AU18-SB-3	11/17/2000	5.16		mg/kg			
			OU4-AU18-SB-4	11/17/2000	4.81		mg/kg			
			OU4-AU18-SB-5	11/17/2000	5.66		mg/kg			
			OU4-AU18-SB-6	11/17/2000	2.71		mg/kg			
			OU4-AU18-SB-7	11/17/2000	2.57		mg/kg			
			OU4-AU18-SB-8	11/17/2000	2.18		mg/kg			
			OU4-AU18-SB-9	11/17/2000	3.22		mg/kg			
OU4	OU4	4400 Massachusetts Avenue, Lot 19							Yes	No
			OU4-AU19-1	11/17/2000	6.41		mg/kg			
			OU4-AU19-2	11/17/2000	5.28		mg/kg			
			OU4-AU19-3	11/17/2000	5.28		mg/kg			
			OU4-AU19-4	11/17/2000	5.36		mg/kg			
			OU4-AU19-SB-1	11/17/2000	6.43		mg/kg			
			OU4-AU19-SB-2	11/17/2000	5.16		mg/kg			
			OU4-AU19-SB-3	11/17/2000	32.5		mg/kg			
			OU4-AU19-SB-4	11/17/2000	2.72		mg/kg			
			OU4-AU19-SB-5	11/17/2000	3.85		mg/kg			
			OU4-AU19-SB-6	11/17/2000	7.16		mg/kg			
			OU4-AU19-SB-7	11/17/2000	11.2		mg/kg			
			OU4-AU19-SB-8	11/17/2000	12.2		mg/kg			
			OU4-AU19-SB-A	3/12/2001	3.14	J	mg/kg			
			OU4-AU19-SB-B	3/12/2001	4.14	J	mg/kg			
			OU4-AU19-SB-C	3/12/2001	5.29	J	mg/kg			
			OU4-AU19-SB-DUP06	11/17/2000	36		mg/kg			
OU4	OU4	4400 Massachusetts Avenue, Lot 2							Yes	No
			OU4-AU02-1	11/13/2000	1.28	U	mg/kg			
			OU4-AU02-2	11/13/2000	1.67		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU02-3	11/13/2000	2.23	mg/kg			
			OU4-AU02-4	11/13/2000	1.64	mg/kg			
			OU4-AU02-SB-1	11/13/2000	13.2	mg/kg			
			OU4-AU02-SB-2	11/13/2000	2.92	mg/kg			
			OU4-AU02-SB-3	11/13/2000	3.88	mg/kg			
			OU4-AU02-SB-4	11/13/2000	2.14	mg/kg			
			OU4-AU02-SB-5	11/13/2000	3.18	mg/kg			
			OU4-AU02-SB-6	11/13/2000	4.17	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 20*						*Yes*	*No*
			OU4-AU20-1	11/20/2000	4.91	mg/kg			
			OU4-AU20-2	11/20/2000	3.24	mg/kg			
			OU4-AU20-3	11/20/2000	4.95	mg/kg			
			OU4-AU20-4	11/20/2000	4.8	mg/kg			
			OU4-AU20-SB-9	11/20/2000	8.52	mg/kg			
			OU4-AU20-SB1	11/20/2000	7.04	mg/kg			
			OU4-AU20-SB10	11/20/2000	1.41	mg/kg			
			OU4-AU20-SB2	11/20/2000	8.49	mg/kg			
			OU4-AU20-SB3	11/20/2000	4.9	mg/kg			
			OU4-AU20-SB4	11/20/2000	8	mg/kg			
			OU4-AU20-SB5	11/20/2000	5.84	mg/kg			
			OU4-AU20-SB6	11/20/2000	9.97	mg/kg			
			OU4-AU20-SB7	11/20/2000	5.11	mg/kg			
			OU4-AU20-SB8	11/20/2000	1.07	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 21*						*Yes*	*No*
			OU4-AU21-1	11/20/2000	6.3	mg/kg			
			OU4-AU21-2	11/20/2000	9.62	mg/kg			
			OU4-AU21-3	11/20/2000	5.3	mg/kg			
			OU4-AU21-4	11/20/2000	6.52	mg/kg			
			OU4-AU21-SB-1	11/20/2000	13.8	mg/kg			
			OU4-AU21-SB-10	11/20/2000	5.78	mg/kg			
			OU4-AU21-SB-2	11/20/2000	7.41	mg/kg			
			OU4-AU21-SB-3	11/20/2000	16.8	mg/kg			
			OU4-AU21-SB-4	11/20/2000	3.66	mg/kg			
			OU4-AU21-SB-5	11/20/2000	6.75	mg/kg			
			OU4-AU21-SB-6	11/20/2000	9.58	mg/kg			
			OU4-AU21-SB-7	11/20/2000	6.18	mg/kg			
			OU4-AU21-SB-8	11/20/2000	3.83	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU21-SB-9	11/20/2000	5.32		mg/kg			
			OU4-AU21-SB-A	3/12/2001	14.1	J	mg/kg			
			OU4-AU21-SB-B	3/12/2001	12.9	J	mg/kg			
			OU4-AU21-SB-C	3/12/2001	11.5	J	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 22*							*Yes*	*No*
			OU5-CSA-9-L22-1	8/15/2001	2.6	J	mg/kg			
			OU5-CSA-9-L22-2	8/15/2001	4.9		mg/kg			
			OU5-CSA-9-L22-SB-DUP56	8/15/2001	2	J	mg/kg	OU5-CSA-9-L22-SB4		
			OU5-CSA-9-L22-SB1	8/15/2001	2.9		mg/kg			
			OU5-CSA-9-L22-SB2	8/15/2001	3.6		mg/kg			
			OU5-CSA-9-L22-SB3	8/15/2001	2.7		mg/kg			
			OU5-CSA-9-L22-SB4	8/15/2001	2.5		mg/kg			
			OU5-CSA-9-L22-SB5	8/15/2001	2.2	J	mg/kg			
			OU5-CSA-9-L22-SB6	8/15/2001	6.6		mg/kg			
			OU5-CSA-9-L22-SB7	8/15/2001	4		mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 22*							*Yes*	*No*
			OU4-AU22-1	11/20/2000	6.4		mg/kg			
			OU4-AU22-2	11/20/2000	6.04		mg/kg			
			OU4-AU22-3	11/20/2000	7.08		mg/kg			
			OU4-AU22-4	11/20/2000	6.67		mg/kg			
			OU4-AU22-DUP07	11/20/2000	2.42		mg/kg			
			OU4-AU22-SB-1	11/20/2000	3.81		mg/kg			
			OU4-AU22-SB-2	11/20/2000	9.82		mg/kg			
			OU4-AU22-SB-3	11/20/2000	11.2		mg/kg			
			OU4-AU22-SB-4	11/20/2000	14		mg/kg			
			OU4-AU22-SB-5	11/20/2000	3.78		mg/kg			
			OU4-AU22-SB-6	11/20/2000	4.26		mg/kg			
			OU4-AU22-SB-A	3/12/2001	14.3	J	mg/kg			
			OU4-AU22-SB-B	3/12/2001	8.05	J	mg/kg			
			OU4-AU22-SB-C	3/12/2001	7.93	J	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 23*							*Yes*	*No*
			OU5-CSA-9-L23-1	8/15/2001	3.2		mg/kg			
			OU5-CSA-9-L23-2	8/15/2001	4.9		mg/kg			
			OU5-CSA-9-L23-SB-DUP55	8/15/2001	8.2		mg/kg	OU5-CSA-9-L23-SB4		
			OU5-CSA-9-L23-SB1	8/15/2001	2.9		mg/kg			
			OU5-CSA-9-L23-SB2	8/15/2001	3.5		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-9-L23-SB3	8/15/2001	2.1 J	mg/kg			
			OU5-CSA-9-L23-SB4	8/15/2001	10	mg/kg			
			OU5-CSA-9-L23-SB5	8/15/2001	3.9	mg/kg			
			OU5-CSA-9-L23-SB6	8/15/2001	3.3	mg/kg			
			OU5-CSA-9-L23-SB7	8/15/2001	4.4	mg/kg			
			OU5-CSA-9-L23-SB8	8/15/2001	7.2	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 23*						*Yes*	*No*
			OU4-AU23-1	11/21/2000	6.55	mg/kg			
			OU4-AU23-2	11/21/2000	7.1	mg/kg			
			OU4-AU23-3	11/21/2000	6.48	mg/kg			
			OU4-AU23-4	11/21/2000	6.5	mg/kg			
			OU4-AU23-SB-1	11/20/2000	22.1	mg/kg			
			OU4-AU23-SB-2	11/20/2000	29.7	mg/kg			
			OU4-AU23-SB-3	11/20/2000	15.9	mg/kg			
			OU4-AU23-SB-4	11/20/2000	4.63	mg/kg			
			OU4-AU23-SB-5	11/20/2000	6.06	mg/kg			
			OU4-AU23-SB-6	11/20/2000	5.08	mg/kg			
			OU4-AU23-SB-A-(0-1)	3/12/2001	12.7	mg/kg			
			OU4-AU23-SB-A-(1-2)	3/12/2001	9.24	mg/kg			
			OU4-AU23-SB-A-(2-3)	3/12/2001	8.09	mg/kg			
			OU4-AU23-SB-B-(0-1)	3/12/2001	15	mg/kg			
			OU4-AU23-SB-B-(1-2)	3/12/2001	10.2	mg/kg			
			OU4-AU23-SB-B-(2-3)	3/12/2001	14.7	mg/kg			
			OU4-AU23-SB-C-(0-1)	3/12/2001	16.9	mg/kg			
			OU4-AU23-SB-C-(1-2)	3/12/2001	11.8	mg/kg			
			OU4-AU23-SB-C-(2-3)	3/12/2001	11.3	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 24*						*No*	*No*
			OU5-CSA-9-L24-1	8/17/2001	5	mg/kg			
			OU5-CSA-9-L24-2	8/17/2001	4.7	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 24*						*Yes*	*No*
			OU4-AU24-1	11/21/2000	5.44	mg/kg			
			OU4-AU24-2	11/21/2000	9.11	mg/kg			
			OU4-AU24-3	11/21/2000	6.72	mg/kg			
			OU4-AU24-4	11/21/2000	6.08	mg/kg			
			OU4-AU24-SB1	11/21/2000	9.21	mg/kg			
			OU4-AU24-SB2	11/21/2000	14.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU24-SB3	11/21/2000	25.1		mg/kg			
			OU4-AU24-SB4	11/21/2000	9.13		mg/kg			
			OU4-AU24-SB5	11/21/2000	4.95		mg/kg			
			OU4-AU24-SB6	11/21/2000	7.26		mg/kg			
			OU4-AU24-SB7	11/21/2000	9.12		mg/kg			
			OU4-AU24-SB8	11/21/2000	19.1		mg/kg			
			OU4-AU24-SBA	3/12/2001	6.28	J	mg/kg			
			OU4-AU24-SBB	3/12/2001	33.1	J	mg/kg			
			OU4-AU24-SBC	3/12/2001	16.4	J	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 25*							*Yes*	*No*
			OU5-CSA-9-L25-1	8/16/2001	3.8		mg/kg			
			OU5-CSA-9-L25-2	8/16/2001	3		mg/kg			
			OU5-CSA-9-L25-SB-1	8/16/2001	3		mg/kg			
			OU5-CSA-9-L25-SB-2	8/16/2001	0.88	J	mg/kg			
			OU5-CSA-9-L25-SB-3	8/16/2001	0.68	U	mg/kg			
			OU5-CSA-9-L25-SB-4	8/16/2001	2.8		mg/kg			
			OU5-CSA-9-L25-SB-5	8/16/2001	1.9	J	mg/kg			
			OU5-CSA-9-L25-SB-6	8/16/2001	1.1	J	mg/kg			
			OU5-CSA-9-L25-SB-DUP56	8/16/2001	1.6	J	mg/kg	OU5-CSA-9-L25-SB-4		
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 25*							*Yes*	*No*
			OU4-AU25-1	11/21/2000	6.57		mg/kg			
			OU4-AU25-2	11/21/2000	7.58		mg/kg			
			OU4-AU25-3	11/21/2000	4.82		mg/kg			
			OU4-AU25-4	11/21/2000	7.33		mg/kg			
			OU4-AU25-SB-DUP02	3/13/2001	16.2		mg/kg	OU4-AU25-SBC		
			OU4-AU25-SB-DUP08	11/21/2000	15.4		mg/kg			
			OU4-AU25-SB1	11/21/2000	4.85		mg/kg			
			OU4-AU25-SB10	11/21/2000	8.13		mg/kg			
			OU4-AU25-SB2	11/21/2000	12.5		mg/kg			
			OU4-AU25-SB3	11/21/2000	9.49		mg/kg			
			OU4-AU25-SB4	11/21/2000	18		mg/kg			
			OU4-AU25-SB5	11/21/2000	14.5		mg/kg			
			OU4-AU25-SB6	11/21/2000	14.3		mg/kg			
			OU4-AU25-SB7	11/21/2000	11.4		mg/kg			
			OU4-AU25-SB8	11/21/2000	10.5		mg/kg			
			OU4-AU25-SB9	11/21/2000	4.71		mg/kg			
			OU4-AU25-SBA	3/13/2001	9.06		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU25-SBB	3/13/2001	11.9	mg/kg			
			OU4-AU25-SBC	3/13/2001	14.1	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 26*						*No*	*No*
			OU5-CSA-9-L26-1	8/16/2001	2.8	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 26*						*Yes*	*No*
			OU4-AU26-1	11/21/2000	6.82	mg/kg			
			OU4-AU26-2	11/21/2000	7.77	mg/kg			
			OU4-AU26-3	11/21/2000	7.32	mg/kg			
			OU4-AU26-4	11/21/2000	5.32	mg/kg			
			OU4-AU26-DUP05	11/21/2000	5.4	mg/kg			
			OU4-AU26-SB-1	11/21/2000	7.33	mg/kg			
			OU4-AU26-SB-10	11/21/2000	11.9	mg/kg			
			OU4-AU26-SB-2	11/21/2000	14.3	mg/kg			
			OU4-AU26-SB-3	11/21/2000	10.7	mg/kg			
			OU4-AU26-SB-4	11/21/2000	5	mg/kg			
			OU4-AU26-SB-5	11/21/2000	5.31	mg/kg			
			OU4-AU26-SB-6	11/21/2000	3.72	mg/kg			
			OU4-AU26-SB-7	11/21/2000	9.57	mg/kg			
			OU4-AU26-SB-8	11/21/2000	5.51	mg/kg			
			OU4-AU26-SB-9	11/21/2000	1.2	mg/kg			
			OU4-AU26-SB-A	3/13/2001	9.45	mg/kg			
			OU4-AU26-SB-B	3/13/2001	12.8	mg/kg			
			OU4-AU26-SB-C	3/13/2001	7.36	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 27*						*No*	*No*
			OU5-CSA-9-L27-1	8/16/2001	4.2	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 27*						*Yes*	*No*
			OU4-AU27-1	11/22/2000	7.39	mg/kg			
			OU4-AU27-2	11/22/2000	7.8	mg/kg			
			OU4-AU27-3	11/22/2000	5.63	mg/kg			
			OU4-AU27-4	11/22/2000	5.06	mg/kg			
			OU4-AU27-SB-1	11/17/2000	7.06	mg/kg			
			OU4-AU27-SB-10	11/17/2000	10.7	mg/kg			
			OU4-AU27-SB-2	11/17/2000	8.31	mg/kg			
			OU4-AU27-SB-3	11/17/2000	7.2	mg/kg			
			OU4-AU27-SB-4	11/17/2000	9.08	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU27-SB-5	11/17/2000	12.8	mg/kg			
			OU4-AU27-SB-6	11/17/2000	10.6	mg/kg			
			OU4-AU27-SB-7	11/17/2000	11.7	mg/kg			
			OU4-AU27-SB-8	11/17/2000	14.1	mg/kg			
			OU4-AU27-SB-9	11/17/2000	14.9	mg/kg			
			OU4-AU27-SB-A	3/13/2001	12.5	mg/kg			
			OU4-AU27-SB-B	3/13/2001	8.46	mg/kg			
			OU4-AU27-SB-C	3/13/2001	6.81	mg/kg			
			OU4-AU27-SB-DUP01	3/13/2001	8.79	mg/kg	OU4-AU27-SB-B		
CSA	*9*	*4400 Massachusetts Avenue, Lot 28*						*No*	*No*
			OU5-CSA-9-L28-1	8/16/2001	5	mg/kg			
			OU5-CSA-9-L28-2	8/16/2001	1.4 J	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 28*						*Yes*	*No*
			OU4-AU28-1	11/22/2000	3.96	mg/kg			
			OU4-AU28-2	11/22/2000	4.57	mg/kg			
			OU4-AU28-3	11/22/2000	5.93	mg/kg			
			OU4-AU28-4	11/22/2000	7.37	mg/kg			
			OU4-AU28-SB-9	11/21/2000	9.35	mg/kg			
			OU4-AU28-SB-DUP09	11/21/2000	6.26	mg/kg			
			OU4-AU28-SB1	11/21/2000	4.46	mg/kg			
			OU4-AU28-SB10	11/21/2000	3.72	mg/kg			
			OU4-AU28-SB2	11/21/2000	2.08	mg/kg			
			OU4-AU28-SB3	11/21/2000	4.57	mg/kg			
			OU4-AU28-SB4	11/21/2000	7.44	mg/kg			
			OU4-AU28-SB5	11/21/2000	8.04	mg/kg			
			OU4-AU28-SB6	11/21/2000	9.58	mg/kg			
			OU4-AU28-SB7	11/21/2000	6.51	mg/kg			
			OU4-AU28-SB8	11/21/2000	14.3	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 29*						*No*	*No*
			OU5-CSA-9-L29-2	8/16/2001	0.63 U	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 29*						*Yes*	*No*
			OU4-AU29-1	2/27/2001	4.58	mg/kg			
			OU4-AU29-2	2/27/2001	3.58	mg/kg			
			OU4-AU29-3	2/27/2001	4.06	mg/kg			
			OU4-AU29-4	2/27/2001	3.91	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU29-SB-1	2/27/2001	6.28	mg/kg			
			OU4-AU29-SB-10	2/27/2001	2.86	mg/kg			
			OU4-AU29-SB-2	2/27/2001	4.03	mg/kg			
			OU4-AU29-SB-3	2/27/2001	8.36	mg/kg			
			OU4-AU29-SB-4	2/27/2001	6.31	mg/kg			
			OU4-AU29-SB-5	2/27/2001	10.6	mg/kg			
			OU4-AU29-SB-6	2/27/2001	7.65	mg/kg			
			OU4-AU29-SB-7	2/27/2001	5.15	mg/kg			
			OU4-AU29-SB-8	2/27/2001	1.99	mg/kg			
			OU4-AU29-SB-9	2/27/2001	3.69	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 3*						*Yes*	*No*
			OU4-AU03-1	11/13/2000	3.1	mg/kg			
			OU4-AU03-2	11/13/2000	1.53	mg/kg			
			OU4-AU03-3	11/13/2000	3.08	mg/kg			
			OU4-AU03-4	11/13/2000	3.48	mg/kg			
			OU4-AU03-SB-1	11/13/2000	6.05	mg/kg			
			OU4-AU03-SB-2	11/13/2000	2.46	mg/kg			
			OU4-AU03-SB-3	11/13/2000	3.24	mg/kg			
			OU4-AU03-SB-4	11/13/2000	3.54	mg/kg			
			OU4-AU03-SB-5	11/13/2000	2.7	mg/kg			
			OU4-AU03-SB-6	11/13/2000	2.1	mg/kg			
			OU4-AU03-SB-DUP01	11/13/2000	4.02	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 30*						*Yes*	*No*
			OU4-AU30-1	2/27/2001	4.26	mg/kg			
			OU4-AU30-2	2/27/2001	7.95	mg/kg			
			OU4-AU30-3	2/27/2001	5.59	mg/kg			
			OU4-AU30-4	2/27/2001	5.08	mg/kg			
			OU4-AU30-SB-1	2/27/2001	3.15	mg/kg			
			OU4-AU30-SB-2	2/27/2001	4.51	mg/kg			
			OU4-AU30-SB-3	2/27/2001	3.09	mg/kg			
			OU4-AU30-SB-4	2/27/2001	3.23	mg/kg			
			OU4-AU30-SB-5	2/27/2001	3.6	mg/kg			
			OU4-AU30-SB-6	2/27/2001	2.81	mg/kg			
			OU4-AU30-SB-7	2/27/2001	4.64	mg/kg			
			OU4-AU30-SB-8	2/27/2001	3.66	mg/kg			
			OU4-AU30-SB-9	2/27/2001	2.56	mg/kg			
			OU4-AU30-SB-DUP02	2/27/2001	4.23	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	9	4400 Massachusetts Avenue, Lot 31						No	No
			OU5-CSA-9-L31-1	8/20/2001	3.6	mg/kg			
			OU5-CSA-9-L31-2	8/20/2001	3.6	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 33						No	Yes + 1' arsenic boring
			OU5-CSA-9-L33-1	8/17/2001	18.5	mg/kg			
			OU5-CSA-9-L33-2	8/17/2001	4.5	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 34						No	Yes + 1' arsenic boring
			OU5-CSA-9-L34-1	8/17/2001	4.4	mg/kg			
			OU5-CSA-9-L34-2	8/17/2001	13.8	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 35						No	No
			OU5-CSA-9-L35-1	8/17/2001	5.6	mg/kg			
			OU5-CSA-9-L35-2	8/17/2001	4.5	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 36						No	No
			OU5-CSA-9-L36-1	8/17/2001	3.9	mg/kg			
			OU5-CSA-9-L36-2	8/17/2001	5.9	mg/kg			
			OU5-CSA-9-L36-DUP43	8/17/2001	5.7	mg/kg	OU5-CSA-9-L36-2		
CSA	9	4400 Massachusetts Avenue, Lot 37						No	No
			OU5-CSA-9-L37-1	1/10/2002	3.4	mg/kg			
			OU5-CSA-9-L37-2	1/10/2002	4.9	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 38						No	No
			OU5-CSA-9-L38-1	8/17/2001	4.4	mg/kg			
			OU5-CSA-9-L38-2	8/17/2001	4.3	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 39						No	No
			OU5-CSA-9-L39-1	8/17/2001	5.4	mg/kg			
			OU5-CSA-9-L39-2	8/17/2001	5	mg/kg			
OU4	OU4	4400 Massachusetts Avenue, Lot 4						Yes	No
			OU4-AU04-1	11/14/2000	4.03	mg/kg			
			OU4-AU04-2	11/14/2000	5.34	mg/kg			
			OU4-AU04-3	11/14/2000	4.55	mg/kg			
			OU4-AU04-4	11/14/2000	4.54	mg/kg			
			OU4-AU04-SB1	11/13/2000	1.08	mg/kg			
			OU4-AU04-SB2	11/13/2000	1.13	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU04-SB3	11/13/2000	1.17		mg/kg			
			OU4-AU04-SB4	11/13/2000	1.11		mg/kg			
			OU4-AU04-SB5	11/13/2000	1.13		mg/kg			
			OU4-AU04-SB6	11/13/2000	3.4		mg/kg			
			OU4-AU04-SB7	11/13/2000	1.06		mg/kg			
			OU4-AU04-SB8	11/13/2000	1.08		mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 40*							*Yes*	*No*
			OU5-CSA-9-L40-1	8/16/2001	3.5		mg/kg			
			OU5-CSA-9-L40-2	8/16/2001	1.6	J	mg/kg			
			OU5-CSA-9-L40-DUP42	8/16/2001	2.2	J	mg/kg	OU5-CSA-9-L40-2		
			OU5-CSA-9-L40-SBA-1	8/16/2001	3		mg/kg			
			OU5-CSA-9-L40-SBA-2	8/16/2001	3.9		mg/kg			
			OU5-CSA-9-L40-SBA-3	8/16/2001	1.1	J	mg/kg			
			OU5-CSA-9-L40-SBA-4	8/16/2001	1.4	J	mg/kg			
			OU5-CSA-9-L40-SBA-5	8/16/2001	2	J	mg/kg			
			OU5-CSA-9-L40-SBA-6	8/16/2001	1.8	J	mg/kg			
			OU5-CSA-9-L40-SBA-DUP54	8/16/2001	3.5		mg/kg	OU5-CSA-9-L40-SBA-3		
			OU5-CSA-9-L40-SBB-1	8/16/2001	2.9		mg/kg			
			OU5-CSA-9-L40-SBB-2	8/16/2001	1	J	mg/kg			
			OU5-CSA-9-L40-SBB-3	8/16/2001	0.56	U	mg/kg			
			OU5-CSA-9-L40-SBB-4	8/16/2001	0.76	J	mg/kg			
			OU5-CSA-9-L40-SBB-5	8/16/2001	1.1	J	mg/kg			
			OU5-CSA-9-L40-SBB-6	8/16/2001	0.92	J	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 41*							*Yes*	*No*
			OU5-CSA-9-L41-1	8/16/2001	2	J	mg/kg			
			OU5-CSA-9-L41-2	8/16/2001	1.5	J	mg/kg			
			OU5-CSA-9-L41-SBA-1	8/16/2001	5.2		mg/kg			
			OU5-CSA-9-L41-SBA-2	8/16/2001	2		mg/kg			
			OU5-CSA-9-L41-SBA-3	8/16/2001	0.36	U	mg/kg			
			OU5-CSA-9-L41-SBA-4	8/16/2001	0.31	U	mg/kg			
			OU5-CSA-9-L41-SBA-5	8/16/2001	0.38	U	mg/kg			
			OU5-CSA-9-L41-SBA-6	8/16/2001	0.4	J	mg/kg			
			OU5-CSA-9-L41-SBA-DUP55	8/16/2001	0.37	U	mg/kg	OU5-CSA-9-L41-SBA-5		
			OU5-CSA-9-L41-SBB-1	8/16/2001	4.2		mg/kg			
			OU5-CSA-9-L41-SBB-2	8/16/2001	2.2	J	mg/kg			
			OU5-CSA-9-L41-SBB-3	8/16/2001	1.2	J	mg/kg			
			OU5-CSA-9-L41-SBB-4	8/16/2001	2.3		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-9-L41-SBB-5	8/16/2001	0.42 U	mg/kg			
			OU5-CSA-9-L41-SBB-6	8/16/2001	0.39 U	mg/kg			
			OU5-CSA-9-L41-SBC-1	8/16/2001	6.4	mg/kg			
			OU5-CSA-9-L41-SBC-2	8/16/2001	1.6 J	mg/kg			
			OU5-CSA-9-L41-SBC-3	8/16/2001	0.55 J	mg/kg			
			OU5-CSA-9-L41-SBC-4	8/16/2001	1.4 J	mg/kg			
			OU5-CSA-9-L41-SBC-5	8/16/2001	1.6 J	mg/kg			
			OU5-CSA-9-L41-SBC-6	8/16/2001	0.53 J	mg/kg			
			OU5-CSA-9-L41-SBD-1	8/16/2001	17.5	mg/kg			
			OU5-CSA-9-L41-SBD-2	8/16/2001	0.86 J	mg/kg			
			OU5-CSA-9-L41-SBD-3	8/16/2001	1.2 J	mg/kg			
			OU5-CSA-9-L41-SBD-4	8/16/2001	0.4 U	mg/kg			
			OU5-CSA-9-L41-SBD-5	8/16/2001	0.38 U	mg/kg			
			OU5-CSA-9-L41-SBD-6	8/16/2001	0.65 J	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 42*						*Yes*	*No*
			OU5-CSA-9-L42-1	8/16/2001	1.2 J	mg/kg			
			OU5-CSA-9-L42-2	8/16/2001	0.94 J	mg/kg			
			OU5-CSA-9-L42-SB1	8/16/2001	3.1	mg/kg			
			OU5-CSA-9-L42-SB2	8/16/2001	6.1	mg/kg			
			OU5-CSA-9-L42-SB3	8/16/2001	1.4 J	mg/kg			
			OU5-CSA-9-L42-SB4	8/16/2001	4.8	mg/kg			
			OU5-CSA-9-L42-SB5	8/16/2001	11.1	mg/kg			
			OU5-CSA-9-L42-SB6	8/16/2001	1.1 J	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 44*						*Yes*	*No*
			OU5-CSA-9-L44-1	1/8/2002	5.6 L	mg/kg			
			OU5-CSA-9-L44-2	1/8/2002	7.7 L	mg/kg			
			OU5-CSA-9-L44-DUP100	1/8/2002	7.7 L	mg/kg	OU5-CSA-9-L44-2		
			OU5-CSA-9-L44-SB1	1/8/2002	9.3 L	mg/kg			
			OU5-CSA-9-L44-SB2	1/8/2002	7.6 L	mg/kg			
			OU5-CSA-9-L44-SB3	1/8/2002	20.6 L	mg/kg			
			OU5-CSA-9-L44-SB4	1/8/2002	11.5 L	mg/kg			
			OU5-CSA-9-L44-SB5	1/8/2002	0.91 JL	mg/kg			
			OU5-CSA-9-L44-SB6	1/8/2002	1.1 JL	mg/kg			
			OU5-CSA-9-L44-SB7	1/8/2002	0.43 JL	mg/kg			
CSA	*9*	*4400 Massachusetts Avenue, Lot 45*						*No*	*No*
			OU5-CSA-9-L45-1	1/10/2002	5.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-9-L45-2	1/10/2002	6.5	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 46						No	No
			OU5-CSA-9-L46-1	8/17/2001	5.6	mg/kg			
			OU5-CSA-9-L46-2	8/17/2001	6.2	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 47						Yes	No
			OU5-CSA-9-L47-1	8/15/2001	3.1	mg/kg			
			OU5-CSA-9-L47-2	8/15/2001	4.7	mg/kg			
			OU5-CSA-9-L47-SB1	8/15/2001	5.1	mg/kg			
			OU5-CSA-9-L47-SB2	8/15/2001	7.7	mg/kg			
			OU5-CSA-9-L47-SB3	8/15/2001	18.2	mg/kg			
			OU5-CSA-9-L47-SB4	8/15/2001	5.7	mg/kg			
			OU5-CSA-9-L47-SB5	8/15/2001	14.2	mg/kg			
			OU5-CSA-9-L47-SB6	8/15/2001	9.5	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 48						No	No
			OU5-CSA-9-L48-1	8/20/2001	5.2	mg/kg			
			OU5-CSA-9-L48-2	8/20/2001	5	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 49						No	No
			OU5-CSA-9-L49-1	8/20/2001	6.6	mg/kg			
			OU5-CSA-9-L49-2	8/20/2001	5.1	mg/kg			
OU4	OU4	4400 Massachusetts Avenue, Lot 5						Yes	No
			OU4-AU05-1	11/14/2000	4.96	mg/kg			
			OU4-AU05-2	11/14/2000	6.92	mg/kg			
			OU4-AU05-3	11/14/2000	3.96	mg/kg			
			OU4-AU05-4	11/14/2000	7.96	mg/kg			
			OU4-AU05-DUP01	11/14/2000	5.36	mg/kg			
			OU4-AU05-SB-8	11/14/2000	3.6	mg/kg			
			OU4-AU05-SB-9	11/14/2000	4.5	mg/kg			
			OU4-AU05-SB1	11/14/2000	3.88	mg/kg			
			OU4-AU05-SB10	11/14/2000	4.95	mg/kg			
			OU4-AU05-SB2	11/14/2000	2.64	mg/kg			
			OU4-AU05-SB3	11/14/2000	2.74	mg/kg			
			OU4-AU05-SB4	11/14/2000	4.75	mg/kg			
			OU4-AU05-SB5	11/14/2000	9.58	mg/kg			
			OU4-AU05-SB6	11/14/2000	5.12	mg/kg			
			OU4-AU05-SB7	11/14/2000	8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	9	4400 Massachusetts Avenue, Lot 50						No	No
			OU5-CSA-9-L50-1	8/17/2001	5.3	mg/kg			
			OU5-CSA-9-L50-2	8/17/2001	1.4 J	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 51						No	No
			OU5-CSA-9-L51-1	8/20/2001	6.1	mg/kg			
			OU5-CSA-9-L51-2	8/20/2001	7	mg/kg			
CSA	9	4400 Massachusetts Avenue, Lot 52						No	No
			OU5-CSA-9-L52-1	8/20/2001	6.6	mg/kg			
			OU5-CSA-9-L52-2	8/20/2001	3.8	mg/kg			
OU4	OU4	4400 Massachusetts Avenue, Lot 6						Yes	No
			OU4-AU06-1	11/14/2000	2.9	mg/kg			
			OU4-AU06-2	11/14/2000	1.87	mg/kg			
			OU4-AU06-3	11/14/2000	5.43	mg/kg			
			OU4-AU06-4	11/14/2000	5.35	mg/kg			
			OU4-AU06-SB-DUP02	11/14/2000	3.37	mg/kg			
			OU4-AU06-SB1	11/14/2000	4.83	mg/kg			
			OU4-AU06-SB2	11/14/2000	3.86	mg/kg			
			OU4-AU06-SB3	11/14/2000	2.66	mg/kg			
			OU4-AU06-SB4	11/14/2000	1.78	mg/kg			
			OU4-AU06-SB5	11/14/2000	3.62	mg/kg			
			OU4-AU06-SB6	11/14/2000	4.6	mg/kg			
OU4	OU4	4400 Massachusetts Avenue, Lot 7						Yes	No
			OU4-AU07-1	11/15/2000	1.73	mg/kg			
			OU4-AU07-2	11/14/2000	1.29 U	mg/kg			
			OU4-AU07-3	11/15/2000	4.68	mg/kg			
			OU4-AU07-4	11/15/2000	4.68	mg/kg			
			OU4-AU07-SB-1	11/15/2000	4.17	mg/kg			
			OU4-AU07-SB-2	11/15/2000	1.57	mg/kg			
			OU4-AU07-SB-3	11/15/2000	2.01	mg/kg			
OU4	OU4	4400 Massachusetts Avenue, Lot 8						Yes	Yes
			OU4-AU08-1	11/15/2000	4.31	mg/kg			
			OU4-AU08-2	11/15/2000	13.4	mg/kg			
			OU4-AU08-3	11/15/2000	18.5	mg/kg			
			OU4-AU08-4	11/15/2000	6.17	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-AU08-DUP-02	11/15/2000	15.5	mg/kg			
			OU4-AU08-DUP02	3/13/2001	5.46 J	mg/kg			
			OU4-AU08-DUP03	3/13/2001	8.23 J	mg/kg			
			OU4-AU08-DUP04	3/13/2001	34.2 J	mg/kg			
			OU4-AU08-DUP05	3/12/2001	5.11	mg/kg			
			OU4-AU08-DUP06	3/13/2001	11.2 J	mg/kg			
			OU4-AU08-SB1	11/15/2000	3.97	mg/kg			
			OU4-AU08-SB2	11/15/2000	1.46	mg/kg			
			OU4-AU08-SB3	11/15/2000	2.37	mg/kg			
			OU4-AU08-SB4	11/15/2000	1.16	mg/kg			
			OU4-AU08-SB5	11/15/2000	1.59	mg/kg			
			OU4-AU08-SB6	11/15/2000	0.89 J	mg/kg			
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 9*						*Yes*	*No*
			OU4-AU09-1	11/15/2000	4.59	mg/kg			
			OU4-AU09-2	11/15/2000	3.75	mg/kg			
			OU4-AU09-3	11/15/2000	4.1	mg/kg			
			OU4-AU09-4	11/15/2000	3.87	mg/kg			
			OU4-AU09-SB-1	11/15/2000	9.75	mg/kg			
			OU4-AU09-SB-2	11/15/2000	2.79	mg/kg			
			OU4-AU09-SB-3	11/15/2000	1.92	mg/kg			
			OU4-AU09-SB-4	11/15/2000	2.44	mg/kg			
			OU4-AU09-SB-5	11/15/2000	3.96	mg/kg			
			OU4-AU09-SB-6	11/15/2000	2.62	mg/kg			
			OU4-AU09-SB-DUP03	11/15/2000	1.42	mg/kg			
CSA	*8*	*4400 Springdale Street*						*No*	*No*
			OU5-CSA-8-4400SS-1	8/24/2001	8	mg/kg			
			OU5-CSA-8-4400SS-2	8/24/2001	5.3	mg/kg			
CSA	*5*	*4400 Van Ness Street*						*No*	*No*
			OU5-CSA-5-4400VNS-1	8/24/2001	3.9	mg/kg			
			OU5-CSA-5-4400VNS-2	8/24/2001	3.3	mg/kg			
CSA	*6*	*4401 43rd Street*						*No*	*No*
			OU5-CSA-6-4401(43)-1	4/25/2002	5.1	mg/kg			
			OU5-CSA-6-4401(43)-2	4/25/2002	5.4	mg/kg			
			OU5-CSA-6-4401(43)-DUP114	4/25/2002	5.5	mg/kg	OU5-CSA-6-4401(43)-2		

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	8	4401 Sedgwick Street						No	No
			OU5-CSA-8-4401SegS-1	8/24/2001	6	mg/kg			
			OU5-CSA-8-4401SegS-2	8/24/2001	8.2	mg/kg			
CSA	8	4404 Springdale Street						No	No
			OU5-CSA-8-4404SS-1	9/21/2001	6	mg/kg			
			OU5-CSA-8-4404SS-2	9/21/2001	5.7	mg/kg			
CSA	6	4404 Windom Place						No	No
			OU5-CSA-6-4404WinP-1	3/22/2002	4.9	mg/kg			
			OU5-CSA-6-4404WinP-2	3/22/2002	4.6	mg/kg			
CSA	8	4405 Sedgwick Street						No	No
			OU5-CSA-8-4405SegS-1	8/24/2001	6.8	mg/kg			
			OU5-CSA-8-4405SegS-2	8/24/2001	7.9	mg/kg			
CSA	6	4405 Warren Street						No	No
			OU5-CSA-6-4405WS-1	8/31/2001	5.2	mg/kg			
			OU5-CSA-6-4405WS-2	8/31/2001	3.6	mg/kg			
CSA	8	4408 Springdale Street						No	No
			OU5-CSA-8-4408SS-1	3/22/2002	6.1	mg/kg			
			OU5-CSA-8-4408SS-2	3/22/2002	5.6	mg/kg			
			OU5-CSA-8-4408SS-DUP109	3/22/2002	4.9	mg/kg	OU5-CSA-8-4408SS-2		
CSA	6	4408 Windom Place						No	No
			OU5-CSA-6-4408WinP-1	11/14/2001	4.8	mg/kg			
			OU5-CSA-6-4408WinP-2	11/14/2001	5.1	mg/kg			
CSA	8	4409 Sedgwick Street						No	No
			OU5-CSA-8-4409SegS-1	8/31/2001	8	mg/kg			
			OU5-CSA-8-4409SegS-2	8/31/2001	8.8	mg/kg			
CSA	6	4409 Warren Street						Yes	No
			OU5-CSA-6-4409WS-1	8/7/2001	3.1	mg/kg			
			OU5-CSA-6-4409WS-2	8/7/2001	4.3	mg/kg			
			OU5-CSA-6-4409WS-SB1	8/7/2001	2 J	mg/kg			
			OU5-CSA-6-4409WS-SB10	8/7/2001	1.1 J	mg/kg			
			OU5-CSA-6-4409WS-SB2	8/7/2001	1.9 J	mg/kg			
			OU5-CSA-6-4409WS-SB3	8/7/2001	2 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-6-4409WS-SB4	8/7/2001	6	mg/kg			
			OU5-CSA-6-4409WS-SB5	8/7/2001	1.3 J	mg/kg			
			OU5-CSA-6-4409WS-SB6	8/7/2001	1.5 J	mg/kg			
			OU5-CSA-6-4409WS-SB7	8/7/2001	2.4 J	mg/kg			
			OU5-CSA-6-4409WS-SB8	8/7/2001	2.7 J	mg/kg			
			OU5-CSA-6-4409WS-SB9	8/7/2001	2.4 J	mg/kg			
CSA	*6*	*4410 42nd Street*						*Yes*	*No*
			OU5-CSA-6-4410(42)-1	8/7/2001	5.9	mg/kg			
			OU5-CSA-6-4410(42)-2	8/7/2001	9.2	mg/kg			
			OU5-CSA-6-4410(42)-DUP40	8/7/2001	6.1	mg/kg	OU5-CSA-6-4410(42)-2		
			OU5-CSA-6-4410(42)-SB-DUP49	8/7/2001	2.6	mg/kg	OU5-CSA-6-4410(42)-SB4		
			OU5-CSA-6-4410(42)-SB1	8/7/2001	6	mg/kg			
			OU5-CSA-6-4410(42)-SB10	8/7/2001	13	mg/kg			
			OU5-CSA-6-4410(42)-SB2	8/7/2001	9.2	mg/kg			
			OU5-CSA-6-4410(42)-SB3	8/7/2001	5.6	mg/kg			
			OU5-CSA-6-4410(42)-SB4	8/7/2001	5.9	mg/kg			
			OU5-CSA-6-4410(42)-SB5	8/7/2001	5.2	mg/kg			
			OU5-CSA-6-4410(42)-SB6	8/7/2001	2.7	mg/kg			
			OU5-CSA-6-4410(42)-SB7	8/7/2001	6.8	mg/kg			
			OU5-CSA-6-4410(42)-SB8	8/7/2001	2.2	mg/kg			
			OU5-CSA-6-4410(42)-SB9	8/7/2001	3.7	mg/kg			
CSA	*5*	*4410 Van Ness Street*						*No*	*No*
			OU5-CSA-5-4410VNS-1	8/31/2001	4.2	mg/kg			
			OU5-CSA-5-4410VNS-2	8/31/2001	2.9	mg/kg			
CSA	*8*	*4412 Sedgwick Street*						*No*	*No*
			OU5-CSA-8-4412SegS-1	12/5/2001	7	mg/kg			
			OU5-CSA-8-4412SegS-2	12/5/2001	6.7	mg/kg			
CSA	*8*	*4412 Springdale Street*						*No*	*No*
			OU5-CSA-8-4412SS-1	10/26/2001	4.1	mg/kg			
			OU5-CSA-8-4412SS-2	10/26/2001	4.8	mg/kg			
			OU5-CSA-8-4412SS-DUP82	10/26/2001	5	mg/kg	OU5-CSA-8-4412SS-2		
CSA	*6*	*4412 Windom Place*						*No*	*No*
			OU5-CSA-6-4412WinP-1	8/31/2001	3.4	mg/kg			
			OU5-CSA-6-4412WinP-2	8/31/2001	4.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	6	4413 Warren Street							No	No
			OU5-CSA-6-4413WS-1	8/31/2001	3.1		mg/kg			
			OU5-CSA-6-4413WS-2	8/31/2001	6		mg/kg			
CSA	6	4414 42nd Street							No	No
			OU5-CSA-6-4414(42)-1	6/11/2002	9.4		mg/kg			
			OU5-CSA-6-4414(42)-2	6/11/2002	8.5		mg/kg			
CSA	8	4415 Springdale Street							No	No
			OU5-CSA-8-4415SS-1	11/8/2001	6		mg/kg			
			OU5-CSA-8-4415SS-2	11/8/2001	2.8	J	mg/kg			
CSA	2	4416 50th Street							No	No
			OU5-CSA-2-4416(50)-1	1/10/2002	3.4		mg/kg			
			OU5-CSA-2-4416(50)-2	1/10/2002	2.4		mg/kg			
CSA	6	4416 Windom Place							No	No
			OU5-CSA-6-4416WinP-1	11/19/2001	2.7		mg/kg			
			OU5-CSA-6-4416WinP-2	11/19/2001	5.5		mg/kg			
CSA	6	4417 Warren Street							No	No
			OU5-CSA-6-4417WS-1	8/17/2001	5.6		mg/kg			
			OU5-CSA-6-4417WS-2	8/17/2001	9.5		mg/kg			
CSA	6	4418 42nd Street							No	No
			OU5-CSA-6-4418(42)-1	3/21/2002	6.3		mg/kg			
			OU5-CSA-6-4418(42)-2	3/21/2002	5.6		mg/kg			
			OU5-CSA-6-4418(42)-DUP107	3/21/2002	6.4		mg/kg	OU5-CSA-6-4418(42)-1		
CSA	8	4418 Springdale Street							No	No
			OU5-CSA-8-4418SS-1	12/5/2001	5.4		mg/kg			
			OU5-CSA-8-4418SS-2	12/5/2001	4.9		mg/kg			
CSA	8	4419 Springdale Street							No	No
			OU5-CSA-8-4419SS-1	11/9/2001	5.7		mg/kg			
			OU5-CSA-8-4419SS-2	11/9/2001	6.9		mg/kg			
CSA	8	4420 Sedgwick Street							No	No
			OU5-CSA-8-4420SegS-1	7/24/2001	5.8		mg/kg			
			OU5-CSA-8-4420SegS-2	7/24/2001	6		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	5	4420 Van Ness Street						No	No
			OU5-CSA-5-4420VNS-1	8/31/2001	5.9	mg/kg			
			OU5-CSA-5-4420VNS-2	8/31/2001	3.4	mg/kg			
CSA	6	4420 Windom Place						Yes	No
			OU5-CSA-6-4420WinP-1	8/31/2001	6.8	mg/kg			
			OU5-CSA-6-4420WinP-2	8/31/2001	5.4	mg/kg			
			OU5-CSA-6-4420WinP-SB-DUP82	10/9/2001	2.2	mg/kg	OU5-CSA-6-4420WinP-SB2		
			OU5-CSA-6-4420WinP-SB1	10/9/2001	2.7	mg/kg			
			OU5-CSA-6-4420WinP-SB2	10/9/2001	0.91 J	mg/kg			
			OU5-CSA-6-4420WinP-SB3	10/9/2001	1.3 J	mg/kg			
			OU5-CSA-6-4420WinP-SB4	10/9/2001	1.4 J	mg/kg			
			OU5-CSA-6-4420WinP-SB5	10/9/2001	2.1 J	mg/kg			
			OU5-CSA-6-4420WinP-SB6	10/9/2001	1.3 J	mg/kg			
CSA	6	4421 Warren Street						No	No
			OU5-CSA-6-4421WS-1	8/31/2001	8.4	mg/kg			
			OU5-CSA-6-4421WS-2	8/31/2001	8	mg/kg			
CSA	6	4422 42nd Street						Yes	No
			OU5-CSA-6-4422(42)-1	8/15/2001	5	mg/kg			
			OU5-CSA-6-4422(42)-2	8/15/2001	5.5	mg/kg			
			OU5-CSA-6-4422(42)-SB1	8/15/2001	6.9	mg/kg			
			OU5-CSA-6-4422(42)-SB10	8/15/2001	1.3 J	mg/kg			
			OU5-CSA-6-4422(42)-SB2	8/15/2001	5.2	mg/kg			
			OU5-CSA-6-4422(42)-SB3	8/15/2001	6.6	mg/kg			
			OU5-CSA-6-4422(42)-SB4	8/15/2001	8.8	mg/kg			
			OU5-CSA-6-4422(42)-SB5	8/15/2001	4.1	mg/kg			
			OU5-CSA-6-4422(42)-SB6	8/15/2001	2.8 J	mg/kg			
			OU5-CSA-6-4422(42)-SB7	8/15/2001	2.4	mg/kg			
			OU5-CSA-6-4422(42)-SB8	8/15/2001	2.1 J	mg/kg			
			OU5-CSA-6-4422(42)-SB9	8/15/2001	2 J	mg/kg			
CSA	8	4422 Springdale Street						No	No
			OU5-CSA-8-4422SS-1	8/3/2001	4.9	mg/kg			
			OU5-CSA-8-4422SS-2	8/3/2001	5.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	8	4423 Springdale Street							No	No
			OU5-CSA-8-4423SS-1	11/9/2001	5.8		mg/kg			
			OU5-CSA-8-4423SS-2	11/9/2001	4.7		mg/kg			
CSA	8	4424 Sedgwick Street							No	No
			OU5-CSA-8-4424SegS-1	7/25/2001	6.8		mg/kg			
			OU5-CSA-8-4424SegS-2	7/25/2001	6.1		mg/kg			
CSA	6	4424 Windom Place							No	No
			OU5-CSA-6-4424WinP-1	11/15/2001	4		mg/kg			
			OU5-CSA-6-4424WinP-2	11/15/2001	7.6		mg/kg			
CSA	5	4425 Upton Street							Yes	No
			OU5-CSA-5-4425US-1	11/12/2001	4.9		mg/kg			
			OU5-CSA-5-4425US-2	11/12/2001	3.7		mg/kg			
			OU5-CSA-5-4425US-DUP87	11/12/2001	4		mg/kg	OU5-CSA-5-4425US-2		
			OU5-CSA-5-4425US-SB1	11/12/2001	4.2	J	mg/kg			
			OU5-CSA-5-4425US-SB2	11/12/2001	5.9		mg/kg			
			OU5-CSA-5-4425US-SB3	11/12/2001	0.54	U	mg/kg			
			OU5-CSA-5-4425US-SB4	11/12/2001	5.9		mg/kg			
			OU5-CSA-5-4425US-SB5	11/12/2001	1.8	J	mg/kg			
			OU5-CSA-5-4425US-SB6	11/12/2001	0.76	J	mg/kg			
			OU5-CSA-5-4425US-SB7	11/12/2001	2.4		mg/kg			
CSA	6	4425 Warren Street							No	No
			OU5-CSA-6-4425WS-1	11/14/2001	7.6		mg/kg			
			OU5-CSA-6-4425WS-2	11/14/2001	5.6		mg/kg			
CSA	6	4426 42nd Street							No	No
			OU5-CSA-6-4426(42)-1	3/21/2002	5		mg/kg			
			OU5-CSA-6-4426(42)-2	3/21/2002	4.8		mg/kg			
CSA	8	4426 Springdale Street							No	No
			OU5-CSA-8-4426SS-1	3/22/2002	4.9		mg/kg			
			OU5-CSA-8-4426SS-2	3/22/2002	4.9		mg/kg			
CSA	6	4426 Windom Place							No	No
			OU5-CSA-6-4426WinP-1	8/17/2001	4.9		mg/kg			
			OU5-CSA-6-4426WinP-2	8/17/2001	5.4		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	8	4427 Springdale Street						No	Yes + specialty boring
			OU5-CSA-8-4427SS-1	11/8/2001	7.4	mg/kg			
			OU5-CSA-8-4427SS-2	11/8/2001	72	mg/kg			
CSA	8	4428 Sedgwick Street						No	Yes + 1' arsenic boring
			OU5-CSA-8-4428SegS-1	8/17/2001	22	mg/kg			
			OU5-CSA-8-4428SegS-2	8/17/2001	24.3	mg/kg			
CSA	6	4428 Windom Place						No	No
			OU5-CSA-6-4428WinP-1	11/19/2001	4.7	mg/kg			
			OU5-CSA-6-4428WinP-2	11/19/2001	4.6	mg/kg			
CSA	6	4429 Warren Street						No	No
			OU5-CSA-6-4429WS-1	11/14/2001	6.7	mg/kg			
			OU5-CSA-6-4429WS-2	11/14/2001	4.3	mg/kg			
CSA	6	4430 42nd Street						No	No
			OU5-CSA-6-4430(42)-1	10/24/2001	5.6	mg/kg			
			OU5-CSA-6-4430(42)-2	10/24/2001	5.5	mg/kg			
OU4	OU4	4430 Newark Street, Lot 3						No	No
			OU4-4430NS-3-1	4/16/2001	4.4	mg/kg			
			OU4-4430NS-3-2	4/16/2001	4.9	mg/kg			
			OU4-4430NS-3-3	4/16/2001	3.5	mg/kg			
			OU4-4430NS-3-4	4/16/2001	4.5	mg/kg			
			OU4-4430NS-3-SB-1	4/16/2001	6.2	mg/kg			
			OU4-4430NS-3-SB-2	4/16/2001	5.5	mg/kg			
			OU4-4430NS-3-SB-3	4/16/2001	4.5	mg/kg			
			OU4-4430NS-3-SB-4	4/16/2001	2.6	mg/kg			
			OU4-4430NS-3-SB-5	4/16/2001	3.1	mg/kg			
			OU4-4430NS-3-SB-6	4/16/2001	2.3	mg/kg			
			OU4-4430NS-3-SB-7	4/16/2001	8.2	mg/kg			
			OU4-4430NS-3-SB-8	4/16/2001	12.2	mg/kg			
			OU4-4430NS-3-SB-9	4/16/2001	11.6	mg/kg			
OU4	OU4	4430 Newark Street, Lot 4						No	No
			OU4-4430NS-4-1	4/16/2001	3.6	mg/kg			
			OU4-4430NS-4-2	4/16/2001	3.9	mg/kg			
			OU4-4430NS-4-3	4/16/2001	4.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4430NS-4-4	4/16/2001	3.5	mg/kg			
			OU4-4430NS-4-SB-1	4/16/2001	4.8 K	mg/kg			
			OU4-4430NS-4-SB-10	4/16/2001	4.8 K	mg/kg			
			OU4-4430NS-4-SB-2	4/16/2001	5.5 K	mg/kg			
			OU4-4430NS-4-SB-3	4/16/2001	12.2 K	mg/kg			
			OU4-4430NS-4-SB-4	4/16/2001	10.2 K	mg/kg			
			OU4-4430NS-4-SB-5	4/16/2001	12.4 K	mg/kg			
			OU4-4430NS-4-SB-6	4/16/2001	9.8 K	mg/kg			
			OU4-4430NS-4-SB-7	4/16/2001	5.5 K	mg/kg			
			OU4-4430NS-4-SB-8	4/16/2001	7.9 K	mg/kg			
			OU4-4430NS-4-SB-9	4/16/2001	7 K	mg/kg			
			OU4-4430NS-4-SB-DUP01	4/16/2001	6.6 K	mg/kg	OU4-4430NS-4-SB-9		
CSA	*8*	*4430 Springdale Street*						*No*	*No*
			OU5-CSA-8-4430SS-1	3/22/2002	9.4	mg/kg			
			OU5-CSA-8-4430SS-2	3/22/2002	5.1	mg/kg			
CSA	*8*	*4430 Tindall Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-8-4430TinS-1	11/8/2001	13.6	mg/kg			
			OU5-CSA-8-4430TinS-2	11/8/2001	9.6	mg/kg			
CSA	*5*	*4430 Van Ness Street*						*No*	*No*
			OU5-CSA-5-4430VNS-1	3/28/2002	4.5	mg/kg			
			OU5-CSA-5-4430VNS-2	3/28/2002	3.1	mg/kg			
CSA	*8*	*4431 Springdale Street*						*No*	*No*
			OU5-CSA-8-4431SS-1	8/31/2001	9.3	mg/kg			
			OU5-CSA-8-4431SS-2	8/31/2001	11.2	mg/kg			
CSA	*8*	*4432 Sedgwick Street*						*No*	*No*
			OU5-CSA-8-4432SegS-1	12/5/2001	6.5	mg/kg			
			OU5-CSA-8-4432SegS-2	12/5/2001	7.6	mg/kg			
CSA	*6*	*4432 Windom Place*						*No*	*No*
			OU5-CSA-6-4432WinP-1	2/14/2002	5.1	mg/kg			
			OU5-CSA-6-4432WinP-2	2/14/2002	7.8	mg/kg			
CSA	*6*	*4433 Warren Street*						*No*	*No*
			OU5-CSA-6-4433WS-1	2/14/2002	4.3	mg/kg			
			OU5-CSA-6-4433WS-2	2/14/2002	4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	8	4434 Springdale Street						Yes	No
			OU5-CSA-8-4434SS-1	12/4/2001	2.8	mg/kg			
			OU5-CSA-8-4434SS-2	12/4/2001	2.3 J	mg/kg			
			OU5-CSA-8-4434SS-DUP96	12/4/2001	2.5 J	mg/kg	OU5-CSA-8-4434SS-2		
			OU5-CSA-8-4434SS-SB-DUP94	12/4/2001	0.8 J	mg/kg	OU5-CSA-8-4434SS-SB2		
			OU5-CSA-8-4434SS-SB1	12/4/2001	1.8 J	mg/kg			
			OU5-CSA-8-4434SS-SB2	12/4/2001	0.75 J	mg/kg			
			OU5-CSA-8-4434SS-SB3	12/4/2001	0.77 J	mg/kg			
			OU5-CSA-8-4434SS-SB4	12/4/2001	2.2 J	mg/kg			
			OU5-CSA-8-4434SS-SB5	12/4/2001	0.36 U	mg/kg			
CSA	8	4434 Tindall Street						No	Yes + 1' arsenic boring
			OU5-CSA-8-4434TinS-1	7/25/2001	30.9	mg/kg			
			OU5-CSA-8-4434TinS-2	7/25/2001	15.4	mg/kg			
CSA	8	4435 Springdale Street						No	No
			OU5-CSA-8-4435SS-1	7/25/2001	8.4	mg/kg			
			OU5-CSA-8-4435SS-2	7/25/2001	3.7	mg/kg			
CSA	8	4436 Sedgwick Street						No	No
			OU5-CSA-8-4436SegS-1	8/31/2001	5.5	mg/kg			
			OU5-CSA-8-4436SegS-2	8/31/2001	5.4	mg/kg			
CSA	8	4437 Sedgwick Street						No	No
			OU5-CSA-8-4437SegS-1	10/4/2001	5	mg/kg			
			OU5-CSA-8-4437SegS-2	10/4/2001	6.1	mg/kg			
CSA	6	4437 Warren Street						No	Yes + 1' arsenic boring
			OU5-CSA-6-4437WS-1	11/16/2001	13.5	mg/kg			
			OU5-CSA-6-4437WS-2	11/16/2001	3.6	mg/kg			
CSA	8	4438 Springdale Street						No	No
			OU5-CSA-8-4438SS-1	9/21/2001	4.4	mg/kg			
			OU5-CSA-8-4438SS-2	9/21/2001	3.6	mg/kg			
			OU5-CSA-8-4438SS-DUP64	9/21/2001	4	mg/kg	OU5-CSA-8-4438SS-1		
CSA	8	4438 Tindall Street						No	Yes + specialty boring
			OU5-CSA-8-4438TinS-1	7/24/2001	89.9	mg/kg			
			OU5-CSA-8-4438TinS-2	7/24/2001	80.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	8	4439 Springdale Street						No	No
			OU5-CSA-8-4439SS-1	8/31/2001	6	mg/kg			
			OU5-CSA-8-4439SS-2	8/31/2001	4.9	mg/kg			
CSA	8	4440 Sedgwick Street						No	No
			OU5-CSA-8-4440SegS-1	8/3/2001	5.1	mg/kg			
			OU5-CSA-8-4440SegS-2	8/3/2001	4.8	mg/kg			
CSA	8	4440 Springdale Street						No	No
			OU5-CSA-8-4440SS-1	9/21/2001	4.1	mg/kg			
			OU5-CSA-8-4440SS-2	9/21/2001	2.8	mg/kg			
CSA	5	4440 Van Ness Street						No	No
			OU5-CSA-5-4440VNS-1	8/31/2001	5.7	mg/kg			
			OU5-CSA-5-4440VNS-2	8/31/2001	2.4 J	mg/kg			
CSA	6	4440 Windom Place						No	No
			OU5-CSA-6-4440WinP-1	7/25/2001	4.5	mg/kg			
			OU5-CSA-6-4440WinP-2	7/25/2001	4.7	mg/kg			
CSA	8	4441 Sedgwick Street						No	No
			OU5-CSA-8-4441SegS-1	11/16/2001	12.1	mg/kg			
			OU5-CSA-8-4441SegS-2	11/16/2001	5	mg/kg			
CSA	5	4441 Verplanck Place						No	No
			OU5-CSA-5-4441VP1	3/13/2003	3.9	mg/kg			
			OU5-CSA-5-4441VP2	3/13/2003	4.7	mg/kg			
CSA	6	4441 Warren Street						No	No
			OU5-CSA-6-4441WS-1	3/21/2002	4.6	mg/kg			
			OU5-CSA-6-4441WS-2	3/21/2002	4.9	mg/kg			
CSA	8	4442 Tindall Street						No	Yes + specialty boring
			OU5-CSA-8-4442TinS-1	8/31/2001	93.6	mg/kg			
			OU5-CSA-8-4442TinS-2	8/31/2001	65.2	mg/kg			
CSA	8	4443 Springdale Street						Yes	No
			OU5-CSA-8-4443SS-1	10/1/2001	8.9	mg/kg			
			OU5-CSA-8-4443SS-2	10/1/2001	8.3	mg/kg			
			OU5-CSA-8-4443SS-SB1	10/1/2001	4.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-8-4443SS-SB2	10/1/2001	2.9		mg/kg			
			OU5-CSA-8-4443SS-SB3	10/1/2001	4.8		mg/kg			
			OU5-CSA-8-4443SS-SB4	10/1/2001	3.1		mg/kg			
			OU5-CSA-8-4443SS-SB5	10/1/2001	3.8	J	mg/kg			
			OU5-CSA-8-4443SS-SB6	10/1/2001	2.3	J	mg/kg			
			OU5-CSA-8-4443SS-SB7	10/1/2001	1.5	J	mg/kg			
			OU5-CSA-8-4443SS-SB8	10/1/2001	0.88	J	mg/kg			
			OU5-CSA-8-4443SS-SB9	10/1/2001	1	J	mg/kg			
CSA	*8*	*4444 Sedgwick Street*							*No*	*No*
			OU5-CSA-8-4444SegS-1	11/19/2001	6.9		mg/kg			
			OU5-CSA-8-4444SegS-2	11/19/2001	6		mg/kg			
			OU5-CSA-8-4444SegS-DUP94	11/19/2001	5.1		mg/kg	OU5-CSA-8-4444SegS-1		
CSA	*8*	*4444 Springdale Street*							*No*	*Yes + 1' arsenic boring*
			OU5-CSA-8-4444SS-1	7/13/2001	5.9		mg/kg			
			OU5-CSA-8-4444SS-2	7/13/2001	13.7		mg/kg			
CSA	*6*	*4444 Windom Place*							*No*	*No*
			OU5-CSA-6-4444WinP-1	7/25/2001	6.1		mg/kg			
			OU5-CSA-6-4444WinP-2	7/25/2001	4.4		mg/kg			
CSA	*8*	*4445 Sedgwick Street*							*No*	*Yes + 1' arsenic boring*
			OU5-CSA-8-4445SegS-1	8/17/2001	16.3		mg/kg			
			OU5-CSA-8-4445SegS-2	8/17/2001	9.8		mg/kg			
CSA	*6*	*4445 Warren Street*							*No*	*No*
			OU5-CSA-6-4445WS-1	7/24/2001	10.4		mg/kg			
			OU5-CSA-6-4445WS-2	7/24/2001	4.2		mg/kg			
CSA	*8*	*4446 Tindall Street*							*No*	*Yes + specialty boring*
			OU5-CSA-8-4446TinS-1	7/24/2001	158		mg/kg			
			OU5-CSA-8-4446TinS-2	7/24/2001	123		mg/kg			
CSA	*8*	*4447 Springdale Street*							*No*	*Yes + 1' arsenic boring*
			OU5-CSA-8-4447SS-1	10/12/2001	15.4		mg/kg			
			OU5-CSA-8-4447SS-2	10/12/2001	10		mg/kg			
CSA	*8*	*4448 Sedgwick Street*							*No*	*No*
			OU5-CSA-8-4448SegS-1	12/5/2001	4		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-8-4448SegS-2	12/5/2001	5.2	mg/kg			
CSA	8	4448 Springdale Street						Yes	No
			OU5-CSA-8-4448SS-1	8/31/2001	6.1	mg/kg			
			OU5-CSA-8-4448SS-2	8/31/2001	6	mg/kg			
			OU5-CSA-8-4448SS-SB1	10/9/2001	3.7	mg/kg			
			OU5-CSA-8-4448SS-SB2	10/9/2001	5.4	mg/kg			
			OU5-CSA-8-4448SS-SB3	10/9/2001	4.6	mg/kg			
			OU5-CSA-8-4448SS-SB4	10/9/2001	4.2	mg/kg			
			OU5-CSA-8-4448SS-SB5	10/9/2001	3.5	mg/kg			
			OU5-CSA-8-4448SS-SB6	10/9/2001	3.5	mg/kg			
			OU5-CSA-8-4448SS-SB7	10/9/2001	2.5	mg/kg			
CSA	8	4449 Sedgwick Street						No	No
			OU5-CSA-8-4449SegS-1	11/15/2001	5.2	mg/kg			
			OU5-CSA-8-4449SegS-2	11/15/2001	5.6	mg/kg			
CSA	6	4449 Warren Street						No	No
			OU5-CSA-6-4449WS-1	7/27/2001	4.4	mg/kg			
			OU5-CSA-6-4449WS-2	7/27/2001	4.6	mg/kg			
CSA	8	4450 Tindall Street						No	No
			OU5-CSA-8-4450TinS-1	7/27/2001	0.79 J	mg/kg			
			OU5-CSA-8-4450TinS-2	7/27/2001	9.2	mg/kg			
CSA	5	4450 Van Ness Street						No	No
			OU5-CSA-5-4450VNS-1	6/11/2002	3.4	mg/kg			
			OU5-CSA-5-4450VNS-2	6/11/2002	4	mg/kg			
CSA	5	4450 Verplanck Place						No	No
			OU5-CSA-5-4450VP-1	7/13/2001	4.4	mg/kg			
			OU5-CSA-5-4450VP-2	7/13/2001	6.8	mg/kg			
CSA	8	4451 Springdale Street						No	No
			OU5-CSA-8-4451SS-1	8/31/2001	5.2	mg/kg			
			OU5-CSA-8-4451SS-2	8/31/2001	4.2	mg/kg			
			OU5-CSA-8-4451SS-DUP54	8/31/2001	4.9	mg/kg	OU5-CSA-8-4451SS-1		
CSA	8	4452 Sedgwick Street						No	No
			OU5-CSA-8-4452SegS-1	8/3/2001	5.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-8-4452SegS-2	8/3/2001	5.3		mg/kg			
CSA	8	4452 Springdale Street							No	No
			OU5-CSA-8-4452SS-1	10/26/2001	3		mg/kg			
			OU5-CSA-8-4452SS-2	10/26/2001	5.3		mg/kg			
CSA	8	4453 Sedgwick Street							Yes	No
			OU5-CSA-8-4453SegS-1	7/30/2001	7.5		mg/kg			
			OU5-CSA-8-4453SegS-2	7/30/2001	5.3		mg/kg			
			OU5-CSA-8-4453SegS-SB-1	7/30/2001	4.2		mg/kg			
			OU5-CSA-8-4453SegS-SB-2	7/30/2001	2.5		mg/kg			
			OU5-CSA-8-4453SegS-SB-3	7/30/2001	2.5		mg/kg			
			OU5-CSA-8-4453SegS-SB-4	7/30/2001	2.5		mg/kg			
			OU5-CSA-8-4453SegS-SB-5	7/30/2001	1.8	J	mg/kg			
			OU5-CSA-8-4453SegS-SB-6	7/30/2001	1.8	J	mg/kg			
			OU5-CSA-8-4453SegS-SB-7	7/30/2001	1.6	J	mg/kg			
			OU5-CSA-8-4453SegS-SB-8	7/30/2001	1.8	J	mg/kg			
			OU5-CSA-8-4453SegS-SB-9	7/30/2001	2	J	mg/kg			
			OU5-CSA-8-4453SegS-SB-DUP41	7/30/2001	1.6	J	mg/kg	OU5-CSA-8-4453SegS-SB-8		
CSA	6	4453 Warren Street							No	No
			OU5-CSA-6-4453WS-1	8/10/2001	9.6		mg/kg			
			OU5-CSA-6-4453WS-2	8/10/2001	5.2		mg/kg			
CSA	8	4454 Tindall Street							No	No
			OU5-CSA-8-4454TinS-1	11/8/2001	5.5		mg/kg			
			OU5-CSA-8-4454TinS-2	11/8/2001	4.6		mg/kg			
			OU5-CSA-8-4454TinS-DUP86	11/8/2001	5.2		mg/kg	OU5-CSA-8-4454TinS-2		
CSA	8	4455 Springdale Street							No	No
			OU5-CSA-8-4455SS-1	7/25/2001	7.8		mg/kg			
			OU5-CSA-8-4455SS-2	7/25/2001	4.6		mg/kg			
CSA	8	4456 Sedgwick Street							No	No
			OU5-CSA-8-4456SegS-1	7/6/2001	4.5		mg/kg			
			OU5-CSA-8-4456SegS-2	7/6/2001	6.6		mg/kg			
CSA	8	4456 Springdale Street							No	Yes + specialty boring
			OU5-CSA-8-4456SS-1	10/26/2001	172		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-8-4456SS-2	10/26/2001	106	mg/kg			
CSA	8	4457 Sedgwick Street						No	Yes + 1' arsenic boring
			OU5-CSA-8-4457SegS-1	8/17/2001	13.3	mg/kg			
			OU5-CSA-8-4457SegS-2	8/17/2001	4.8	mg/kg			
CSA	8	4458 Tindall Street						No	Yes + 1' arsenic boring
			OU5-CSA-8-4458TinS-1	11/9/2001	15.7	mg/kg			
			OU5-CSA-8-4458TinS-2	11/9/2001	10.7	mg/kg			
CSA	8	4460 Sedgwick Street						No	No
			OU5-CSA-8-4460SegS-1	11/19/2001	9.3	mg/kg			
			OU5-CSA-8-4460SegS-2	11/19/2001	3.8	mg/kg			
			OU5-CSA-8-4460SegS-DUP93	11/19/2001	2.6	mg/kg	OU5-CSA-8-4460SegS-2		
CSA	8	4460 Springdale Street						No	Yes + 1' arsenic boring
			OU5-CSA-8-4460SS-1	12/5/2001	15.7 K	mg/kg			
			OU5-CSA-8-4460SS-2	12/5/2001	18 K	mg/kg			
			OU5-CSA-8-4460SS-DUP98	12/5/2001	15.3 K	mg/kg	OU5-CSA-8-4460SS-2		
CSA	8	4461 Sedgwick Street						No	No
			OU5-CSA-8-4461SegS-1	10/4/2001	7.2	mg/kg			
			OU5-CSA-8-4461SegS-2	10/4/2001	5.6	mg/kg			
CSA	8	4462 Tindall Street						No	Yes + 1' arsenic boring
			OU5-CSA-8-4462TinS-1	7/24/2001	29.4	mg/kg			
			OU5-CSA-8-4462TinS-2	7/24/2001	12.7	mg/kg			
CSA	8	4464 Sedgwick Street						No	No
			OU5-CSA-8-4464SegS-1	8/31/2001	9.4	mg/kg			
			OU5-CSA-8-4464SegS-2	8/31/2001	5.6	mg/kg			
CSA	8	4465 Sedgwick Street						No	No
			OU5-CSA-8-4465SegS-1	8/17/2001	8.2	mg/kg			
			OU5-CSA-8-4465SegS-2	8/17/2001	5.8	mg/kg			
CSA	8	4466 Tindall Street						No	No
			OU5-CSA-8-4466TinS-1	11/16/2001	3.6	mg/kg			
			OU5-CSA-8-4499TinS-2	11/16/2001	6.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	8	4468 Sedgwick Street						No	No
			OU5-CSA-8-4468SegS-1	12/5/2001	2.9	mg/kg			
			OU5-CSA-8-4468SegS-2	12/5/2001	2.8	mg/kg			
CSA	8	4469 Sedgwick Street						No	No
			OU5-CSA-8-4469SegS-1	8/10/2001	5.4	mg/kg			
			OU5-CSA-8-4469SegS-2	8/10/2001	4.6	mg/kg			
CSA	8	4473 Sedgwick Street						No	No
			OU5-CSA-8-4473SegS-1	3/28/2002	4.2	mg/kg			
			OU5-CSA-8-4473SegS-2	3/28/2002	4.3	mg/kg			
CSA	8	4477 Sedgwick Street						No	Yes + 1' arsenic boring
			OU5-CSA-8-4477SegS-1	11/20/2001	13.7	mg/kg			
			OU5-CSA-8-4477SegS-2	11/20/2001	3.2	mg/kg			
CSA	8	4478 Upton Street						No	No
			OU5-CSA-8-4478US-1	9/19/2001	4.6 J	mg/kg			
			OU5-CSA-8-4478US-2	9/19/2001	1.8 J	mg/kg			
CSA	8	4484 Upton Street						No	No
			OU5-CSA-8-4484US-1	10/4/2001	4.7	mg/kg			
			OU5-CSA-8-4484US-2	10/4/2001	4.7	mg/kg			
CSA	8	4485 Sedgwick Street						No	No
			OU5-CSA-8-4485SegS-1	8/31/2001	12.6	mg/kg			
			OU5-CSA-8-4485SegS-2	8/31/2001	11.3	mg/kg			
CSA	8	4490 Upton Street						No	No
			OU5-CSA-8-4490US-1	12/5/2001	4.4	mg/kg			
			OU5-CSA-8-4490US-2	12/5/2001	2.3 J	mg/kg			
CSA	9	4500 Massachusetts Avenue, Lot 1						No	No
			OU5-CSA-9-L1-1	8/30/2001	4.7	mg/kg			
			OU5-CSA-9-L1-2	8/30/2001	5.8	mg/kg			
			OU5-CSA-9-L1-DUP55	8/30/2001	5.3	mg/kg	OU5-CSA-9-L1-1		
CSA	9	4500 Massachusetts Avenue, Lot 10						No	No
			OU5-CSA-9-L10-1	8/30/2001	4.9	mg/kg			
			OU5-CSA-9-L10-2	8/30/2001	3.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	9	4500 Massachusetts Avenue, Lot 12						No	No
			OU5-CSA-9-L12-1	8/30/2001	1.6 J	mg/kg			
			OU5-CSA-9-L12-2	8/30/2001	7	mg/kg			
CSA	9	4500 Massachusetts Avenue, Lot 13						No	No
			OU5-CSA-9-L13-1	8/30/2001	2.1 J	mg/kg			
			OU5-CSA-9-L13-2	8/30/2001	2.3 J	mg/kg			
CSA	9	4500 Massachusetts Avenue, Lot 15						Yes	No
			OU5-CSA-9-L15-1	8/30/2001	2.8	mg/kg			
			OU5-CSA-9-L15-2	8/30/2001	2.4	mg/kg			
			OU5-CSA-9-L15-SBA-DUP64	8/30/2001	2.6	mg/kg	OU5-CSA-9-L15-SBA6		
			OU5-CSA-9-L15-SBA1	8/30/2001	6.3	mg/kg			
			OU5-CSA-9-L15-SBA2	8/30/2001	2 J	mg/kg			
			OU5-CSA-9-L15-SBA3	8/30/2001	0.44 U	mg/kg			
			OU5-CSA-9-L15-SBA4	8/30/2001	2 J	mg/kg			
			OU5-CSA-9-L15-SBA5	8/30/2001	0.93 J	mg/kg			
			OU5-CSA-9-L15-SBA6	8/30/2001	12.4	mg/kg			
			OU5-CSA-9-L15-SBB1	8/30/2001	1.9 J	mg/kg			
			OU5-CSA-9-L15-SBB2	8/30/2001	0.37 U	mg/kg			
			OU5-CSA-9-L15-SBB3	8/30/2001	0.38 U	mg/kg			
			OU5-CSA-9-L15-SBB4	8/30/2001	0.39 U	mg/kg			
			OU5-CSA-9-L15-SBB5	8/30/2001	0.39 U	mg/kg			
			OU5-CSA-9-L15-SBB6	8/30/2001	0.41 U	mg/kg			
CSA	9	4500 Massachusetts Avenue, Lot 19						No	No
			OU5-CSA-9-L19-1	8/30/2001	1.5 J	mg/kg			
			OU5-CSA-9-L19-2	8/30/2001	1.8 J	mg/kg			
CSA	9	4500 Massachusetts Avenue, Lot 2						No	No
			OU5-CSA-9-L2-1	8/30/2001	5.1	mg/kg			
			OU5-CSA-9-L2-2	8/30/2001	4.5	mg/kg			
CSA	9	4500 Massachusetts Avenue, Lot 20						Yes	No
			OU5-CSA-9-L20-1	8/30/2001	1.6 J	mg/kg			
			OU5-CSA-9-L20-2	8/30/2001	1.7 J	mg/kg			
			OU5-CSA-9-L20-SB1	8/30/2001	1.5 J	mg/kg			
			OU5-CSA-9-L20-SB2	8/30/2001	1.6 J	mg/kg			
			OU5-CSA-9-L20-SB3	8/30/2001	1.3 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-9-L20-SB4	8/30/2001	0.39 U	mg/kg			
			OU5-CSA-9-L20-SB5	8/30/2001	0.39 U	mg/kg			
			OU5-CSA-9-L20-SB6	8/30/2001	0.38 U	mg/kg			
CSA	*9*	*4500 Massachusetts Avenue, Lot 3*						*No*	*No*
			OU5-CSA-9-L3-1	8/30/2001	6.1	mg/kg			
			OU5-CSA-9-L3-2	8/30/2001	4.7	mg/kg			
CSA	*9*	*4500 Massachusetts Avenue, Lot 4*						*No*	*No*
			OU5-CSA-9-L4-1	8/30/2001	3.7	mg/kg			
			OU5-CSA-9-L4-2	8/30/2001	4.3	mg/kg			
CSA	*9*	*4500 Massachusetts Avenue, Lot 5*						*No*	*No*
			OU5-CSA-9-L5-1	8/30/2001	4.4	mg/kg			
			OU5-CSA-9-L5-2	8/30/2001	8.9	mg/kg			
CSA	*9*	*4500 Massachusetts Avenue, Lot 6*						*No*	*No*
			OU5-CSA-9-L6-1	8/30/2001	7.5	mg/kg			
			OU5-CSA-9-L6-2	8/30/2001	6.1	mg/kg			
CSA	*9*	*4500 Massachusetts Avenue, Lot 7*						*No*	*No*
			OU5-CSA-9-L7-1	8/30/2001	3.1	mg/kg			
			OU5-CSA-9-L7-2	8/30/2001	2.9	mg/kg			
CSA	*9*	*4500 Massachusetts Avenue, Lot 8*						*No*	*No*
			OU5-CSA-9-L8-1	8/30/2001	3	mg/kg			
			OU5-CSA-9-L8-2	8/30/2001	3.5	mg/kg			
CSA	*9*	*4500 Massachusetts Avenue, Lot 9*						*No*	*No*
			OU5-CSA-9-L9-1	8/30/2001	4	mg/kg			
			OU5-CSA-9-L9-2	8/30/2001	4	mg/kg			
OU4	*OU4*	*4501 Macomb Street*						*No*	*No*
			OU4-4501-1	4/19/2001	6.3	mg/kg			
			OU4-4501-2	4/19/2001	8.6	mg/kg			
			OU4-4501-3	4/19/2001	4.9	mg/kg			
			OU4-4501-4	4/19/2001	7	mg/kg			
			OU4-4501-DUP01	4/19/2001	7.8	mg/kg	OU4-4501-4		
			OU4-4501-SB-1	4/19/2001	12	mg/kg			
			OU4-4501-SB-2	4/19/2001	4.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4501-SB-3	4/19/2001	8.7	mg/kg			
			OU4-4501-SB-4	4/19/2001	13.3	mg/kg			
			OU4-4501-SB-5	4/19/2001	14.2	mg/kg			
			OU4-4501-SB-6	4/19/2001	4	mg/kg			
			OU4-4501-SB-7	4/19/2001	6	mg/kg			
			OU4-4501-SB-8	4/19/2001	7.2	mg/kg			
			OU4-4501-SB-9	4/19/2001	6	mg/kg			
OU4	*OU4*	*4505 Macomb Street*						*No*	*No*
			OU4-4505MS-1	12/4/2001	12.5 L	mg/kg			
			OU4-4505MS-2	12/4/2001	4.2 L	mg/kg			
			OU4-4505MS-3	12/4/2001	8.6 L	mg/kg			
			OU4-4505MS-4	12/4/2001	3.6 L	mg/kg			
			OU4-4505MS-DUP01	12/4/2001	4 L	mg/kg	OU4-4505MS-4		
			OU4-4505MS-SB-DUP01	12/4/2001	4.9 L	mg/kg	OU4-4505MS-SB4		
			OU4-4505MS-SB1	12/4/2001	1.4 JL	mg/kg			
			OU4-4505MS-SB2	12/4/2001	3.9 L	mg/kg			
			OU4-4505MS-SB3	12/4/2001	4.5 L	mg/kg			
			OU4-4505MS-SB4	12/4/2001	4.8 L	mg/kg			
			OU4-4505MS-SB5	12/4/2001	11.1 L	mg/kg			
			OU4-4505MS-SB6	12/4/2001	10.4 L	mg/kg			
CSA	*5*	*4508 Van Ness Street*						*No*	*No*
			OU5-CSA-5-4508VNS-1	3/22/2002	3.8 K	mg/kg			
			OU5-CSA-5-4508VNS-2	3/22/2002	3.3 K	mg/kg			
CSA	*5*	*4512 Van Ness Street*						*No*	*No*
			OU5-CSA-5-4512VNS-1	7/25/2001	4.5	mg/kg			
			OU5-CSA-5-4512VNS-2	7/25/2001	3	mg/kg			
CSA	*5*	*4516 Van Ness Street*						*No*	*No*
			OU5-CSA-5-4516VNS-1	8/17/2001	2.8	mg/kg			
			OU5-CSA-5-4516VNS-2	8/17/2001	5.2	mg/kg			
CSA	*5*	*4520 Van Ness Street*						*No*	*No*
			OU5-CSA-5-4520VNS-1	6/11/2002	2.3	mg/kg			
			OU5-CSA-5-4520VNS-2	6/11/2002	4.3	mg/kg			
CSA	*5*	*4524 Van Ness Street*						*No*	*No*
			OU5-CSA-5-4524VNS-1	3/22/2002	4.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-5-4524VNS-2	3/22/2002	4.3	mg/kg			
OU4	OU4	4525 Macomb Street						No	No
			OU4-4525(MS)-1	7/11/2001	2.5	mg/kg			
			OU4-4525(MS)-2	7/11/2001	3.3	mg/kg			
			OU4-4525(MS)-3	7/11/2001	5.9	mg/kg			
			OU4-4525(MS)-4	7/11/2001	5	mg/kg			
			OU4-4525(MS)-SB1	7/11/2001	3.4	mg/kg			
			OU4-4525(MS)-SB10	7/11/2001	2.7	mg/kg			
			OU4-4525(MS)-SB2	7/11/2001	6.3	mg/kg			
			OU4-4525(MS)-SB3	7/11/2001	9.7	mg/kg			
			OU4-4525(MS)-SB4	7/11/2001	7.8	mg/kg			
			OU4-4525(MS)-SB5	7/11/2001	10.6	mg/kg			
			OU4-4525(MS)-SB6	7/11/2001	11.1	mg/kg			
			OU4-4525(MS)-SB7	7/11/2001	14.8	mg/kg			
			OU4-4525(MS)-SB8	7/11/2001	5.5	mg/kg			
			OU4-4525(MS)-SB9	7/11/2001	10	mg/kg			
OU4	OU4	4527 Macomb Street						No	No
			OU4-4527MS-1	7/1/2002	7.7	mg/kg			
			OU4-4527MS-2	7/1/2002	7	mg/kg			
			OU4-4527MS-3	7/1/2002	7.5	mg/kg			
			OU4-4527MS-4	7/1/2002	5.4	mg/kg			
			OU4-4527MS-SB1	7/1/2002	5.2	mg/kg			
			OU4-4527MS-SB2	7/1/2002	4.7	mg/kg			
			OU4-4527MS-SB3	7/1/2002	4.2	mg/kg			
CSA	5	4528 Van Ness Street						No	No
			OU5-CSA-5-4528VNS-1	11/9/2001	5.9	mg/kg			
			OU5-CSA-5-4528VNS-2	11/9/2001	3.5	mg/kg			
CSA	5	4532 Van Ness Street						No	No
			OU5-CSA-5-4532VNS-1	7/24/2001	6.8	mg/kg			
			OU5-CSA-5-4532VNS-2	7/24/2001	5.4	mg/kg			
CSA	5	4534 Van Ness Street						No	No
			OU5-CSA-5-4534VNS-1	7/25/2001	8.5	mg/kg			
			OU5-CSA-5-4534VNS-2	7/25/2001	4.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	4600 Massachusetts Avenue						No	No
			OU5-CSA-4-4600MA-1	8/3/2001	3.8	mg/kg			
			OU5-CSA-4-4600MA-2	8/3/2001	4.3	mg/kg			
CSA	5	4600 Van Ness Street						No	No
			OU5-CSA-5-4600VNS-1	7/25/2001	7.1	mg/kg			
			OU5-CSA-5-4600VNS-2	7/25/2001	5.5	mg/kg			
CSA	5	4601 Massachusetts Avenue						No	No
			OU5-CSA-5-4601MA-1	8/3/2001	3.9	mg/kg			
			OU5-CSA-5-4601MA-2	8/3/2001	5.8	mg/kg			
CSA	10	4601 Rodman Street						No	No
			OU5-CSA-10-4601RS-1	7/25/2001	4.3	mg/kg			
			OU5-CSA-10-4601RS-2	7/25/2001	5.4	mg/kg			
			OU5-CSA-10-4601RS-DUP30	7/25/2001	4.6	mg/kg	OU5-CSA-10-4601RS-2		
CSA	4	4601 Tilden Street						No	No
			OU5-CSA-4-4601TS-1	8/3/2001	4.5	mg/kg			
			OU5-CSA-4-4601TS-2	8/3/2001	3.4	mg/kg			
CSA	5	4602 Van Ness Street						No	No
			OU5-CSA-5-4602VNS-1	7/24/2001	5.1	mg/kg			
			OU5-CSA-5-4602VNS-2	7/24/2001	4.1	mg/kg			
			OU5-CSA-5-4602VNS-DUP27	7/24/2001	4.5	mg/kg	OU5-CSA-5-4602VNS-2		
OU4	OU4	4604 Rockwood Parkway						No	No
			OU4-4604RP-1	2/9/2001	8.41	mg/kg			
			OU4-4604RP-2	2/9/2001	2.78	mg/kg			
			OU4-4604RP-3	2/9/2001	2.73	mg/kg			
			OU4-4604RP-4	2/9/2001	3.31	mg/kg			
			OU4-4604RP-DUP02	2/9/2001	10.2	mg/kg	OU4-4604RP-1		
			OU4-4604RP-SB-1	9/26/2000	11.2 DJ	mg/kg			
			OU4-4604RP-SB-2	9/26/2000	9.61 DJ	mg/kg			
			OU4-4604RP-SB-3	9/26/2000	18.3 DJ	mg/kg			
			OU4-4604RP-SB-4	9/26/2000	13.3 DJ	mg/kg			
			OU4-4604RP-SB-5	9/26/2000	7.02 DJ	mg/kg			
			OU4-4604RP-SB-6	9/26/2000	5.55 DJ	mg/kg			
			OU4-4604RP-SB-DUP11	9/26/2000	10.4 DJ	mg/kg	OU4-4604RP-SB-2		

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	5	4605 Massachusetts Avenue							No	No
			OU5-CSA-5-4605MA-1	10/25/2001	6.9		mg/kg			
			OU5-CSA-5-4605MA-2	10/25/2001	5.6		mg/kg			
CSA	4	4608 Massachusetts Avenue							No	No
			OU5-CSA-4-4608MA-1	7/24/2001	5.1		mg/kg			
			OU5-CSA-4-4608MA-2	7/24/2001	3.2		mg/kg			
			OU5-CSA-4-4608MA-DUP28	7/24/2001	6.1		mg/kg	OU5-CSA-4-4608MA-1		
OU4	OU4	4608 Rockwood Parkway							No	No
			OU4-4608RP-1	2/6/2001	3.28	J	mg/kg			
			OU4-4608RP-2	2/6/2001	3.39	J	mg/kg			
			OU4-4608RP-3	2/6/2001	4.2	J	mg/kg			
			OU4-4608RP-4	2/6/2001	9.05	J	mg/kg			
			OU4-4608RP-SB-1	9/27/2000	4.71	DJ	mg/kg			
			OU4-4608RP-SB-2	9/27/2000	6.3	DJ	mg/kg			
			OU4-4608RP-SB-3	9/27/2000	9.46	DJ	mg/kg			
			OU4-4608RP-SB-4	9/27/2000	4.65	DJ	mg/kg			
			OU4-4608RP-SB-5	9/27/2000	2.8	DJ	mg/kg			
			OU4-4608RP-SB-6	9/27/2000	14.3	DJ	mg/kg			
			OU4-4608RP-SB-7	9/27/2000	5.75	DJ	mg/kg			
			OU4-4608RP-SB-DUP12	9/27/2000	7.43	DJ	mg/kg	OU4-4608RP-SB-2		
CSA	10	4610 Rodman Street							No	No
			OU5-CSA-10-4610RS-1	8/10/2001	3.7		mg/kg			
			OU5-CSA-10-4610RS-2	8/10/2001	3.4	J	mg/kg			
			OU5-CSA-10-4610RS-DUP39	8/10/2001	3.3		mg/kg	OU5-CSA-10-4610RS-2		
CSA	10	4612 Sedgwick Street							No	No
			OU5-CSA-10-4612SegS-1	7/25/2001	8.3		mg/kg			
			OU5-CSA-10-4612SegS-2	7/25/2001	4.2		mg/kg			
CSA	10	4614 Rodman Street							No	No
			OU5-CSA-10-4614RS-1	10/4/2001	3.5		mg/kg			
			OU5-CSA-10-4614RS-2	10/4/2001	4		mg/kg			
			OU5-CSA-10-4614RS-DUP69	10/4/2001	3.3		mg/kg	OU5-CSA-10-4614RS-1		
CSA	10	4615 Rodman Street							No	Yes + specialty boring
			OU5-CSA-10-4615RS-1	8/24/2001	20.2		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-10-4615RS-2	8/24/2001	74.5		mg/kg			
CSA	4	4615 Sedgwick Street							Yes	No
			OU5-CSA-4-4615SegS-1	11/12/2001	3.5		mg/kg			
			OU5-CSA-4-4615SegS-2	11/12/2001	3.1		mg/kg			
			OU5-CSA-4-4615SegS-SB-DUP93	11/12/2001	0.88	J	mg/kg	OU5-CSA-4-4615SegS-SB5		
			OU5-CSA-4-4615SegS-SB1	11/12/2001	2.2	J	mg/kg			
			OU5-CSA-4-4615SegS-SB2	11/12/2001	2.5	J	mg/kg			
			OU5-CSA-4-4615SegS-SB3	11/12/2001	3.6		mg/kg			
			OU5-CSA-4-4615SegS-SB4	11/12/2001	1.3	J	mg/kg			
			OU5-CSA-4-4615SegS-SB5	11/12/2001	0.75	J	mg/kg			
			OU5-CSA-4-4615SegS-SB6	11/12/2001	0.56	U	mg/kg			
CSA	4	4616 Massachusetts Avenue							No	No
			OU5-CSA-4-4616MA-1	7/25/2001	5		mg/kg			
			OU5-CSA-4-4616MA-2	7/25/2001	6.1		mg/kg			
CSA	5	4616 Van Ness Street							No	No
			OU5-CSA-5-4616VNS-1	7/25/2001	10.8		mg/kg			
			OU5-CSA-5-4616VNS-2	7/25/2001	4.2		mg/kg			
CSA	4	4619 Sedgwick Street							No	No
			OU5-CSA-4-4619SegS-1	7/25/2001	4.5		mg/kg			
			OU5-CSA-4-4619SegS-2	7/25/2001	3.8		mg/kg			
CSA	10	4620 Sedgwick Street							No	No
			OU5-CSA-10-4620SegS-1	3/21/2002	10.2		mg/kg			
			OU5-CSA-10-4620SegS-2	3/21/2002	3.9		mg/kg			
CSA	4	4620 Tilden Street							No	No
			OU5-CSA-4-4620TS-1	11/15/2001	3.3		mg/kg			
			OU5-CSA-4-4620TS-2	11/15/2001	3.2		mg/kg			
CSA	5	4620 Van Ness Street							No	No
			OU5-CSA-5-4620VNS-1	12/5/2001	4.7		mg/kg			
			OU5-CSA-5-4620VNS-2	12/5/2001	2.9		mg/kg			
OU4	OU4	4621 Rockwood Parkway							No	Yes
			OU4-4621RP-1	9/19/2000	10.3	DJ	mg/kg			
			OU4-4621RP-2	9/19/2000	15.6	DJ	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4621RP-3	9/19/2000	6.98 DJ	mg/kg			
			OU4-4621RP-4	9/19/2000	6.49 DJ	mg/kg			
			OU4-4621RP-DUP01	2/12/2001	5.09	mg/kg			
			OU4-4621RP-DUP02	2/12/2001	6.06	mg/kg			
			OU4-4621RP-SB-1	9/19/2000	6.07 DJ	mg/kg			
			OU4-4621RP-SB-2	9/19/2000	6.59 DJ	mg/kg			
			OU4-4621RP-SB-3	9/19/2000	4.09 DJ	mg/kg			
			OU4-4621RP-SB-4	9/19/2000	4.94 DJ	mg/kg			
			OU4-4621RP-SB-5	9/19/2000	5.43 DJ	mg/kg			
			OU4-4621RP-SB-6	9/19/2000	6.64 DJ	mg/kg			
CSA	*10*	*4624 Sedgwick Street*						*No*	*No*
			OU5-CSA-10-4624SegS-1	10/4/2001	3.3	mg/kg			
			OU5-CSA-10-4624SegS-2	10/4/2001	3.1	mg/kg			
CSA	*4*	*4624 Tilden Street*						*No*	*No*
			OU5-CSA-4-4624TS-1	11/8/2001	2.4	mg/kg			
			OU5-CSA-4-4624TS-2	11/8/2001	2.1 J	mg/kg			
CSA	*5*	*4624 Van Ness Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-5-4624VNS-1	11/9/2001	6.9	mg/kg			
			OU5-CSA-5-4624VNS-2	11/9/2001	14.3	mg/kg			
OU4	*OU4*	*4625 Rockwood Parkway*						*No*	*Yes*
			OU4-4625RP-1	9/6/2000	6.57 DJ	mg/kg			
			OU4-4625RP-2	9/6/2000	5.8 DJ	mg/kg			
			OU4-4625RP-3	9/6/2000	101 DJ	mg/kg			
			OU4-4625RP-4	9/6/2000	49.3 DJ	mg/kg			
			OU4-4625RP-SB-1	9/6/2000	5.8 DJ	mg/kg			
			OU4-4625RP-SB-2	9/6/2000	7.72 DJ	mg/kg			
			OU4-4625RP-SB-3	9/6/2000	12.8 DJ	mg/kg			
			OU4-4625RP-SB-4	9/6/2000	3.07 DJ	mg/kg			
			OU4-4625RP-SB-5	9/6/2000	7.09 DJ	mg/kg			
			OU4-4625RP-SB-6	9/6/2000	2.18 DJ	mg/kg			
CSA	*4*	*4625 Sedgwick Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-4-4625SegS-1a	7/25/2001	16.6	mg/kg			
			OU5-CSA-4-4625SegS-2	7/25/2001	4.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	4625 Tilden Street						No	No
			OU5-CSA-4-4625TS-1	10/12/2001	3	mg/kg			
			OU5-CSA-4-4625TS-2	10/12/2001	3.7	mg/kg			
CSA	10	4628 Sedgwick Street						No	No
			OU5-CSA-10-4628SegS-1	7/27/2001	2.5	mg/kg			
			OU5-CSA-10-4628SegS-2	7/27/2001	3	mg/kg			
CSA	4	4628 Tilden Street						No	No
			OU5-CSA-4-4628TS-1	7/25/2001	4.8	mg/kg			
			OU5-CSA-4-4628TS-2	7/25/2001	3.2	mg/kg			
OU4	OU4	4629 Rockwood Parkway						No	Yes + 1' arsenic boring
			OU4-4629RP-1	8/25/2000	8.78 L	mg/kg			
			OU4-4629RP-2	8/25/2000	8.55 L	mg/kg			
			OU4-4629RP-3	8/25/2000	8 L	mg/kg			
			OU4-4629RP-4	8/25/2000	5.71 L	mg/kg			
			OU4-4629RP-SB-1	8/25/2000	6.22 L	mg/kg			
			OU4-4629RP-SB-2	8/25/2000	2.87 L	mg/kg			
			OU4-4629RP-SB-3	8/25/2000	3.62 L	mg/kg			
			OU4-4629RP-SB-4	8/25/2000	4.97 L	mg/kg			
			OU4-4629RP-SB-5	8/25/2000	4.99 L	mg/kg			
			OU4-4629RP-SB-6	8/25/2000	3.92 L	mg/kg			
CSA	4	4629 Tilden Street						No	No
			OU5-CSA-4-4629TS-1	10/3/2001	5.5	mg/kg			
			OU5-CSA-4-4629TS-2	10/3/2001	8.1	mg/kg			
CSA	5	4631 Massachusetts Avenue						No	No
			OU5-CSA-5-4631MA-1	9/20/2001	5.8	mg/kg			
			OU5-CSA-5-4631MA-2	9/20/2001	5.5	mg/kg			
CSA	4	4632 Tilden Street						No	No
			OU5-CSA-4-4632TS-1	5/21/2003	5.8	mg/kg			
			OU5-CSA-4-4632TS-2	5/21/2003	4	mg/kg			
OU4	OU4	4633 Rockwood Parkway						No	Yes
			OU4-4633RP-1	9/22/2000	7.7 DJ	mg/kg			
			OU4-4633RP-2	9/22/2000	7.52 DJ	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4633RP-3	9/22/2000	9.31 DJ	mg/kg			
			OU4-4633RP-4	9/22/2000	7.04 DJ	mg/kg			
			OU4-4633RP-DUP06	9/22/2000	7.88 DJ	mg/kg	OU4-4633RP-1		
			OU4-4633RP-SB-1	9/22/2000	56.6 DJ	mg/kg			
			OU4-4633RP-SB-2	9/22/2000	3.3 DJ	mg/kg			
			OU4-4633RP-SB-3	9/22/2000	1.55 DJ	mg/kg			
			OU4-4633RP-SB-4	9/22/2000	1.11 UJ	mg/kg			
			OU4-4633RP-SB-5	9/22/2000	1.18 UJ	mg/kg			
			OU4-4633RP-SB-6	9/22/2000	1.41 DJ	mg/kg			
			OU4-4633RP-SB-7	9/22/2000	1.56 DJ	mg/kg			
			OU4-4633RP-SB-8	9/22/2000	2.07 DJ	mg/kg			
CSA	*5*	*4635 Massachusetts Avenue*						*No*	*No*
			OU5-CSA-5-4635MA-1	2/14/2002	3.7	mg/kg			
			OU5-CSA-5-4635MA-2	2/14/2002	4.5	mg/kg			
CSA	*4*	*4636 Tilden Street*						*No*	*No*
			OU5-CSA-4-4636TS-1	10/26/2001	2.6	mg/kg			
			OU5-CSA-4-4636TS-2	10/26/2001	3.4	mg/kg			
OU4	*OU4*	*4637 Rockwood Parkway*						*No*	*Yes*
			OU4-4637RP-1	9/5/2000	15 D	mg/kg			
			OU4-4637RP-2	9/5/2000	7.71 D	mg/kg			
			OU4-4637RP-3	9/5/2000	6.72 D	mg/kg			
			OU4-4637RP-4	9/5/2000	7.4 D	mg/kg			
			OU4-4637RP-DUP01	2/14/2001	16.4	mg/kg			
			OU4-4637RP-SB-1	9/5/2000	5.04 D	mg/kg			
			OU4-4637RP-SB-2	9/5/2000	6.87 D	mg/kg			
			OU4-4637RP-SB-3	9/5/2000	10 D	mg/kg			
			OU4-4637RP-SB-4	9/5/2000	6.59 D	mg/kg			
			OU4-4637RP-SB-5	9/5/2000	6.32 D	mg/kg			
			OU4-4637RP-SB-6	9/5/2000	5.93 D	mg/kg			
			OU4-4637RP-SB-7	9/5/2000	1.09 D	mg/kg			
			OU4-4637RP-SB-8	9/5/2000	1.2 D	mg/kg			
			OU4-4637RP-SB-9	9/5/2000	1.16 U	mg/kg			
			OU4-4637RP-SBDUP06	9/5/2000	1.06 U	mg/kg			
CSA	*4*	*4640 Tilden Street*						*No*	*No*
			OU5-CSA-4-4640TS-1	11/8/2001	4.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-4-4640TS-2	11/8/2001	2.3	J	mg/kg			
OU4	OU4	4641 Rockwood Parkway							No	Yes
			OU4-4641RP-1	9/6/2000	34.6	DJ	mg/kg			
			OU4-4641RP-2	9/6/2000	12	DJ	mg/kg			
			OU4-4641RP-3	9/6/2000	6.95	DJ	mg/kg			
			OU4-4641RP-4	9/6/2000	6.48	D	mg/kg			
			OU4-4641RP-SB-1	9/6/2000	7.66	D	mg/kg			
			OU4-4641RP-SB-2	9/6/2000	4.36	D	mg/kg			
			OU4-4641RP-SB-3	9/6/2000	3.55	D	mg/kg			
			OU4-4641RP-SB-4	9/6/2000	3.89	D	mg/kg			
			OU4-4641RP-SB-5	9/6/2000	3.58	D	mg/kg			
			OU4-4641RP-SB-6	9/6/2000	3.55	D	mg/kg			
			OU4-4641RP-SBDUP07	9/6/2000	3.81	D	mg/kg			
CSA	5	4643 Massachusetts Avenue							No	No
			OU5-CSA-5-4643MA-1	8/7/2002	3.3	\2	mg/kg			
			OU5-CSA-5-4643MA-2	8/7/2002	4.5	\2	mg/kg			
CSA	4	4644 Tilden Street							No	No
			OU5-CSA-4-4644TS-1	5/31/2001	4.7		mg/kg			
			OU5-CSA-4-4644TS-2	5/31/2001	3.5		mg/kg			
			OU5-CSA-4-4644TS-DUP01	5/31/2001	3.3		mg/kg	OU5-CSA-4-4644TS-2		
CSA	5	4647 Massachusetts Avenue							No	Yes + 1' arsenic boring
			OU5-CSA-5-4647MA-1	7/25/2001	12.1		mg/kg			
			OU5-CSA-5-4647MA-2	7/25/2001	17.1		mg/kg			
CSA	5	4651 Massachusetts Avenue							No	Yes + specialty boring
			OU5-CSA-5-4651MA-1	7/25/2001	18.3		mg/kg			
			OU5-CSA-5-4651MA-2	7/25/2001	88.8		mg/kg			
CSA	4	4652 Upton Street							No	No
			OU5-CSA-4-4652US-1	11/15/2001	2.1	J	mg/kg			
			OU5-CSA-4-4652US-2	11/15/2001	3.7		mg/kg			
CSA	4	4654 Upton Street							No	No
			OU5-CSA-4-4654US-1	7/27/2001	2.7		mg/kg			
			OU5-CSA-4-4654US-2	7/27/2001	2.8		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	5	4655 Massachusetts Avenue						No	Yes + 1' arsenic boring
			OU5-CSA-5-4655MA-1	8/6/2001	25.6	mg/kg			
			OU5-CSA-5-4655MA-2	8/6/2001	5.4	mg/kg			
CSA	4	4658 Upton Street						No	No
			OU5-CSA-4-4658US-1	11/9/2001	2.8 J	mg/kg			
			OU5-CSA-4-4658US-2	11/9/2001	4.5	mg/kg			
CSA	5	4659 Massachusetts Avenue						No	No
			OU5-CSA-5-4659MA-1	8/17/2001	3.7	mg/kg			
			OU5-CSA-5-4659MA-2	8/17/2001	3.4	mg/kg			
CSA	3	4700 Massachusetts Avenue						Yes	No
			OU5-CSA-3-4700MA-1	9/20/2001	5.1	mg/kg			
			OU5-CSA-3-4700MA-2	9/20/2001	6.4	mg/kg			
			OU5-CSA-3-4700MA-SB1	10/8/2001	4	mg/kg			
			OU5-CSA-3-4700MA-SB2	10/8/2001	3.1	mg/kg			
			OU5-CSA-3-4700MA-SB3	10/8/2001	1.6 J	mg/kg			
			OU5-CSA-3-4700MA-SB4	10/8/2001	3.4	mg/kg			
			OU5-CSA-3-4700MA-SB5	10/8/2001	1.7 J	mg/kg			
			OU5-CSA-3-4700MA-SB6	10/8/2001	1.4 J	mg/kg			
			OU5-CSA-3-4700MA-SB7	10/8/2001	3.9	mg/kg			
			OU5-CSA-3-4700MA-SB8	10/8/2001	1.1 J	mg/kg			
			OU5-CSA-3-4700MA-SB9	10/8/2001	0.81 U	mg/kg			
OU4	OU4	4700 Quebec Street						No	No
			OU4-4700QS-1	9/5/2000	2.87 D	mg/kg			
			OU4-4700QS-2	9/5/2000	2.94 D	mg/kg			
			OU4-4700QS-3	9/5/2000	3.2 D	mg/kg			
			OU4-4700QS-4	9/5/2000	3.74 D	mg/kg			
			OU4-4700QS-SB-1	9/5/2000	3.49 D	mg/kg			
			OU4-4700QS-SB-2	9/5/2000	6.27 D	mg/kg			
			OU4-4700QS-SB-3	9/5/2000	1.58 D	mg/kg			
			OU4-4700QS-SB-4	9/5/2000	1.15 D	mg/kg			
			OU4-4700QS-SB-5	9/5/2000	1.11 D	mg/kg			
			OU4-4700QS-SB-6	9/5/2000	1.03 D	mg/kg			
			OU4-4700QS-SBDUP05	9/5/2000	7.77 D	mg/kg	OU4-4700QS-SB-2		

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	10	4700 Rodman Street							No	No
			OU5-CSA-10-4700RS-1	7/25/2001	5.9		mg/kg			
			OU5-CSA-10-4700RS-2	7/25/2001	3		mg/kg			
CSA	10	4700 Sedgwick Street							No	No
			OU5-CSA-10-4700SegS-1	3/28/2002	9		mg/kg			
			OU5-CSA-10-4700SegS-2	3/28/2002	3.7		mg/kg			
CSA	4	4700 Tilden Street							No	No
			OU5-CSA-4-4700TS-1	10/23/2002	4.9	\2	mg/kg			
			OU5-CSA-4-4700TS-2	10/23/2002	6	\2	mg/kg			
CSA	4	4700 Upton Street							No	No
			OU5-CSA-4-4700US-1	4/25/2002	6.8		mg/kg			
			OU5-CSA-4-4700US-2	4/25/2002	4.3		mg/kg			
CSA	10	4701 Rodman Street							Yes	No
			OU5-CSA-10-4701RS-1	7/27/2001	2.9		mg/kg			
			OU5-CSA-10-4701RS-2	7/27/2001	3		mg/kg			
			OU5-CSA-10-4701RS-SB-DUP48	8/6/2001	4.7		mg/kg	OU5-CSA-10-4701RS-SB5		
			OU5-CSA-10-4701RS-SB1	8/6/2001	3.1		mg/kg			
			OU5-CSA-10-4701RS-SB2	8/6/2001	1.8	J	mg/kg			
			OU5-CSA-10-4701RS-SB3	8/6/2001	2.3		mg/kg			
			OU5-CSA-10-4701RS-SB4	8/6/2001	3.6		mg/kg			
			OU5-CSA-10-4701RS-SB5	8/6/2001	4.5		mg/kg			
			OU5-CSA-10-4701RS-SB6	8/6/2001	3.1		mg/kg			
			OU5-CSA-10-4701RS-SB7	8/6/2001	2.9		mg/kg			
			OU5-CSA-10-4701RS-SB8	8/6/2001	2.6		mg/kg			
CSA	4	4701 Sedgwick Street							No	No
			OU5-CSA-4-4701SegS-1	7/25/2001	4.2		mg/kg			
			OU5-CSA-4-4701SegS-2	7/25/2001	5		mg/kg			
CSA	3	4701 Upton Street							Yes	No
			OU5-CSA-3-4701US-1	10/1/2001	2.6		mg/kg			
			OU5-CSA-3-4701US-2	10/1/2001	3		mg/kg			
			OU5-CSA-3-4701US-SB1	10/1/2001	2.5		mg/kg			
			OU5-CSA-3-4701US-SB10	10/1/2001	1.6	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-3-4701US-SB2	10/1/2001	2.3	mg/kg			
			OU5-CSA-3-4701US-SB3	10/1/2001	0.53 J	mg/kg			
			OU5-CSA-3-4701US-SB4	10/1/2001	1.3 J	mg/kg			
			OU5-CSA-3-4701US-SB5	10/1/2001	1.6 J	mg/kg			
			OU5-CSA-3-4701US-SB6	10/1/2001	2.7	mg/kg			
			OU5-CSA-3-4701US-SB7	10/1/2001	2.9	mg/kg			
			OU5-CSA-3-4701US-SB8	10/1/2001	2.1 J	mg/kg			
			OU5-CSA-3-4701US-SB9	10/1/2001	2 J	mg/kg			
OU4	*OU4*	*4701 Woodway Lane*						*No*	*No*
			OU4-4701WL-1	8/30/2000	2.54 D	mg/kg			
			OU4-4701WL-2	8/30/2000	2.99 D	mg/kg			
			OU4-4701WL-3	8/30/2000	3.21 D	mg/kg			
			OU4-4701WL-4	8/30/2000	3.63 D	mg/kg			
			OU4-4701WL-SB-1	8/30/2000	2.57 D	mg/kg			
			OU4-4701WL-SB-2	8/30/2000	3.3 D	mg/kg			
			OU4-4701WL-SB-3	8/30/2000	3.38 D	mg/kg			
			OU4-4701WL-SB-4	8/30/2000	2.86 D	mg/kg			
			OU4-4701WL-SB-5	8/30/2000	2.24 D	mg/kg			
			OU4-4701WL-SB-6	8/30/2000	2.26 D	mg/kg			
			OU4-4701WL-SB-7	8/30/2000	1.56 D	mg/kg			
			OU4-4701WL-SB-8	8/30/2000	1.08 U	mg/kg			
OU4	*OU4*	*4703 Woodway Lane*						*No*	*No*
			OU4-4703 WL-SB-6	8/30/2000	2.12 D	mg/kg			
			OU4-4703WL-1	8/30/2000	4.14 D	mg/kg			
			OU4-4703WL-2	8/30/2000	5.87 D	mg/kg			
			OU4-4703WL-3	8/30/2000	7.29 D	mg/kg			
			OU4-4703WL-4	8/30/2000	5.6 D	mg/kg			
			OU4-4703WL-DUP-02	8/30/2000	2.49 D	mg/kg			
			OU4-4703WL-SB-1	8/30/2000	3.46 D	mg/kg			
			OU4-4703WL-SB-2	8/30/2000	3.01 D	mg/kg			
			OU4-4703WL-SB-3	8/30/2000	3.18 D	mg/kg			
			OU4-4703WL-SB-4	8/30/2000	3.18 D	mg/kg			
			OU4-4703WL-SB-5	8/30/2000	1.62 D	mg/kg			
			OU4-4703WL-SB-6	8/30/2000	2.12 D	mg/kg			
OU4	*OU4*	*4705 Quebec Street*						*No*	*No*
			OU4-4705QS-1	2/6/2001	3.4 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4705QS-2	2/6/2001	4.9	J	mg/kg			
			OU4-4705QS-3	2/6/2001	4.36	J	mg/kg			
			OU4-4705QS-4	2/6/2001	3.86	J	mg/kg			
			OU4-4705QS-SB-1	2/6/2001	3.12	J	mg/kg			
			OU4-4705QS-SB-2	2/6/2001	4.02	J	mg/kg			
			OU4-4705QS-SB-3	2/6/2001	1.85	J	mg/kg			
			OU4-4705QS-SB-4	2/6/2001	1.01	J	mg/kg			
			OU4-4705QS-SB-5	2/6/2001	0.834	J	mg/kg			
			OU4-4705QS-SB-6	2/6/2001	2.14	J	mg/kg			
			OU4-4705QS-SB-DUP02	2/6/2001	1.9	J	mg/kg	OU4-4705QS-SB-3		
CSA	*3*	*4705 Upton Street*							*Yes*	*No*
			OU5-CSA-3-4705US-1	10/1/2001	9		mg/kg			
			OU5-CSA-3-4705US-2	10/1/2001	4.2		mg/kg			
			OU5-CSA-3-4705US-SB-DUP78	10/1/2001	1.7	J	mg/kg	OU5-CSA-3-4705US-SB3		
			OU5-CSA-3-4705US-SB1	10/1/2001	6		mg/kg			
			OU5-CSA-3-4705US-SB10	10/1/2001	1.8	J	mg/kg			
			OU5-CSA-3-4705US-SB2	10/1/2001	6.7		mg/kg			
			OU5-CSA-3-4705US-SB3	10/1/2001	1.9	J	mg/kg			
			OU5-CSA-3-4705US-SB4	10/1/2001	3.8		mg/kg			
			OU5-CSA-3-4705US-SB5	10/1/2001	2.1	J	mg/kg			
			OU5-CSA-3-4705US-SB6	10/1/2001	1.6	J	mg/kg			
			OU5-CSA-3-4705US-SB7	10/1/2001	2	J	mg/kg			
			OU5-CSA-3-4705US-SB8	10/1/2001	1.9	J	mg/kg			
			OU5-CSA-3-4705US-SB9	10/1/2001	0.56	J	mg/kg			
OU4	*OU4*	*4707 Woodway Lane*							*No*	*No*
			OU4-4707WL-1	9/26/2000	10.3	DJ	mg/kg			
			OU4-4707WL-2	9/26/2000	4.35	DJ	mg/kg			
			OU4-4707WL-3	9/26/2000	5.75	DJ	mg/kg			
			OU4-4707WL-4	9/26/2000	3.68	DJ	mg/kg			
			OU4-4707WL-SB-1	9/26/2000	2.8	DJ	mg/kg			
			OU4-4707WL-SB-2	9/26/2000	1.97	DJ	mg/kg			
			OU4-4707WL-SB-3	9/26/2000	0.96	DJ	mg/kg			
			OU4-4707WL-SB-4	9/26/2000	5.15	DJ	mg/kg			
			OU4-4707WL-SB-5	9/26/2000	2.01	DJ	mg/kg			
			OU4-4707WL-SB-6	9/26/2000	2.12	DJ	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	10	4708 Sedgwick Street							No	Yes + 1' arsenic boring
			OU5-CSA-10-4708SegS-1	7/27/2001	21.3		mg/kg			
			OU5-CSA-10-4708SegS-2	7/27/2001	8		mg/kg			
OU4	OU4	4710 Quebec Street							No	Yes
			OU4-4710QS-1	9/7/2000	30	D	mg/kg			
			OU4-4710QS-2	9/7/2000	8.05	D	mg/kg			
			OU4-4710QS-3	9/7/2000	31.4	D	mg/kg			
			OU4-4710QS-4	9/7/2000	51.5	D	mg/kg			
			OU4-4710QS-SB-1	9/7/2000	6.04	D	mg/kg			
			OU4-4710QS-SB-2	9/7/2000	0.88	JD	mg/kg			
			OU4-4710QS-SB-3	9/7/2000	1	JD	mg/kg			
			OU4-4710QS-SB-4	9/7/2000	1.26	DJ	mg/kg			
			OU4-4710QS-SB-5	9/7/2000	0.49	U	mg/kg			
			OU4-4710QS-SB-6	9/7/2000	0.46	U	mg/kg			
CSA	4	4710 Tilden Street							No	No
			OU5-CSA-4-4710TS-1	7/27/2001	4.4		mg/kg			
			OU5-CSA-4-4710TS-2	7/27/2001	3.5		mg/kg			
CSA	4	4710 Upton Street							No	No
			OU5-CSA-4-4710US-1	7/27/2001	5		mg/kg			
			OU5-CSA-4-4710US-2	7/27/2001	6.6		mg/kg			
OU4	OU4	4710 Woodway Lane							No	Yes
			OU4-4710WL-1	9/19/2000	9.67	DJ	mg/kg			
			OU4-4710WL-2	9/19/2000	8.93	DJ	mg/kg			
			OU4-4710WL-3	9/19/2000	7.46	DJ	mg/kg			
			OU4-4710WL-4	9/19/2000	40.8	DJ	mg/kg			
			OU4-4710WL-4-SBA(1)	2/7/2001	2.92	J	mg/kg			
			OU4-4710WL-4-SBB(1)	2/7/2001	2.83	J	mg/kg			
			OU4-4710WL-DUP-07	2/12/2001	4.16		mg/kg			
			OU4-4710WL-DUP-09	2/12/2001	21.7		mg/kg			
			OU4-4710WL-SBA1	9/19/2000	4.7	DJ	mg/kg			
			OU4-4710WL-SBA2	9/19/2000	4.07	DJ	mg/kg			
			OU4-4710WL-SBA3	9/19/2000	4.4	DJ	mg/kg			
			OU4-4710WL-SBA4	9/19/2000	4.43	DJ	mg/kg			
			OU4-4710WL-SBA5	9/19/2000	2.79	DJ	mg/kg			
			OU4-4710WL-SBA6	9/19/2000	2.36	DJ	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4710WL-SBADUP10	9/19/2000	3.85 DJ	mg/kg			
			OU4-4710WL-SBB1	9/19/2000	5.1 DJ	mg/kg			
			OU4-4710WL-SBB2	9/19/2000	4.82 DJ	mg/kg			
			OU4-4710WL-SBB3	9/19/2000	3.47 DJ	mg/kg			
			OU4-4710WL-SBB4	9/19/2000	3.07 DJ	mg/kg			
			OU4-4710WL-SBB5	9/19/2000	3.69 DJ	mg/kg			
			OU4-4710WL-SBB6	9/19/2000	3.28 DJ	mg/kg			
OU4	*OU4*	*4711 Quebec Street*						*No*	*No*
			OU4-4711QS-1	10/3/2001	3.2	mg/kg			
			OU4-4711QS-2	10/3/2001	5.2	mg/kg			
CSA	*10*	*4711 Rodman Street*						*No*	*No*
			OU5-CSA-10-4711RS-1	8/3/2001	6.1	mg/kg			
			OU5-CSA-10-4711RS-2	8/3/2001	3.4	mg/kg			
CSA	*4*	*4711 Tilden Street*						*No*	*No*
			OU5-CSA-4-4711TS-1	10/12/2001	3.5	mg/kg			
			OU5-CSA-4-4711TS-2	10/12/2001	5.4	mg/kg			
CSA	*10*	*4714 Sedgwick Street*						*No*	*No*
			OU5-CSA-10-4714SegS-1	7/25/2001	5.3	mg/kg			
			OU5-CSA-10-4714SegS-2	7/25/2001	4.9	mg/kg			
CSA	*4*	*4714 Upton Street*						*No*	*No*
			OU5-CSA-4-4714US-1	8/17/2001	3.6	mg/kg			
			OU5-CSA-4-4714US-2	8/17/2001	4.3	mg/kg			
CSA	*4*	*4715 Sedgwick Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-4-4715SegS-1	7/27/2001	9.4	mg/kg			
			OU5-CSA-4-4715SegS-2	7/27/2001	10.5	mg/kg			
			OU5-CSA-4-4715SegSR-1	8/31/2001	8.7	mg/kg			
			OU5-CSA-4-4715SegSR-2	8/31/2001	13.9	mg/kg			
			OU5-CSA-4-4715SegSR-DUP57	8/31/2001	9.2	mg/kg	OU5-CSA-4-4715SegSR-1		
CSA	*3*	*4715 Upton Street*						*No*	*No*
			OU5-CSA-3-4715US-1	7/25/2001	5.2	mg/kg			
			OU5-CSA-3-4715US-2	7/25/2001	3.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	3	4716 Massachusetts Avenue						No	No
			OU5-CSA-3-4716MA-1	10/25/2001	4.5	mg/kg			
			OU5-CSA-3-4716MA-2	10/25/2001	6.2	mg/kg			
OU4	OU4	4717 Quebec Street						No	No
			OU4-4717QS-1	2/5/2001	1.11	mg/kg			
			OU4-4717QS-2	2/5/2001	3.57	mg/kg			
			OU4-4717QS-3	2/5/2001	3.32	mg/kg			
			OU4-4717QS-4	2/5/2001	2.52	mg/kg			
			OU4-4717QS-DUP01	2/5/2001	2.89	mg/kg			
			OU4-4717QS-SB-1	2/6/2001	3.95	mg/kg			
			OU4-4717QS-SB-2	2/6/2001	2.32	mg/kg			
			OU4-4717QS-SB-3	2/6/2001	4.06	mg/kg			
			OU4-4717QS-SB-4	2/6/2001	1.49	mg/kg			
			OU4-4717QS-SB-5	2/6/2001	1.83	mg/kg			
			OU4-4717QS-SB-6	2/6/2001	0.741	mg/kg			
			OU4-4717QS-SB-7	2/6/2001	0.629	mg/kg			
			OU4-4717QS-SB-DUP01	2/6/2001	0.624	mg/kg	OU4-4717QS -SB-7		
CSA	4	4718 Upton Street						No	No
			OU5-CSA-4-4718US-1	10/12/2001	3.6	mg/kg			
			OU5-CSA-4-4718US-2	10/12/2001	5.7	mg/kg			
CSA	4	4719 Sedgwick Street						No	No
			OU5-CSA-4-4719SegS-1	8/10/2001	7.5	mg/kg			
			OU5-CSA-4-4719SegS-2	8/10/2001	3.9	mg/kg			
CSA	3	4720 Massachusetts Avenue						No	No
			OU5-CSA-3-4720MA-1	3/22/2002	8.6	mg/kg			
			OU5-CSA-3-4720MA-2	3/22/2002	5	mg/kg			
OU4	OU4	4720 Quebec Street						No	No
			OU4-4720QS-1	9/1/2000	5.37 DJ	mg/kg			
			OU4-4720QS-2	9/1/2000	5.54 DJ	mg/kg			
			OU4-4720QS-3	9/1/2000	4.1 DJ	mg/kg			
			OU4-4720QS-4	9/1/2000	5.38 DJ	mg/kg			
			OU4-4720QS-SB-1	9/1/2000	4.64 DJ	mg/kg			
			OU4-4720QS-SB-2	9/1/2000	2.07 DJ	mg/kg			
			OU4-4720QS-SB-3	9/1/2000	1.93 DJ	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4720QS-SB-4	9/1/2000	3.55 DJ	mg/kg			
			OU4-4720QS-SB-5	9/1/2000	0.82 JD	mg/kg			
			OU4-4720QS-SB-6	9/1/2000	1.18 DJ	mg/kg			
CSA	*10*	*4720 Sedgwick Street*						*No*	*No*
			OU5-CSA-10-4720SegS-1	7/13/2001	3.8	mg/kg			
			OU5-CSA-10-4720SegS-2	7/13/2001	4.3	mg/kg			
			OU5-CSA-10-4720SegS-DUP23	7/13/2001	4.4	mg/kg	OU5-CSA-10-4720SegS-2		
OU4	*OU4*	*4720 Woodway Lane*						*No*	*No*
			OU4-4720WL-1	10/6/2000	6.82 DJ	mg/kg			
			OU4-4720WL-2	10/6/2000	5.53 DJ	mg/kg			
			OU4-4720WL-3	10/6/2000	6.8 DJ	mg/kg			
			OU4-4720WL-4	10/6/2000	5.49 DJ	mg/kg			
			OU4-4720WL-SB-1	10/6/2000	5.22 DJ	mg/kg			
			OU4-4720WL-SB-2	10/6/2000	5.77 DJ	mg/kg			
			OU4-4720WL-SB-3	10/6/2000	4.37 DJ	mg/kg			
			OU4-4720WL-SB-4	10/6/2000	2.23 DJ	mg/kg			
			OU4-4720WL-SB-5	10/6/2000	3.8 DJ	mg/kg			
			OU4-4720WL-SB-6	10/6/2000	2.73 DJ	mg/kg			
			OU4-4720WL-SB-7	10/6/2000	5.62 DJ	mg/kg			
			OU4-4720WL-SB-8	10/6/2000	2.04 DJ	mg/kg			
			OU4-4720WL-SB-9	10/6/2000	3.99 DJ	mg/kg			
CSA	*10*	*4721 Rodman Street*						*No*	*No*
			OU5-CSA-10-4721RS-1	10/4/2001	2.9	mg/kg			
			OU5-CSA-10-4721RS-2	10/4/2001	2.8	mg/kg			
CSA	*4*	*4721 Sedgwick Street*						*No*	*No*
			OU5-CSA-4-4721SegS-1	9/20/2001	4.5	mg/kg			
			OU5-CSA-4-4721SegS-2	9/20/2001	5.7	mg/kg			
CSA	*4*	*4721 Tilden Street*						*No*	*No*
			OU5-CSA-4-4721TS-1	7/27/2001	5.3	mg/kg			
			OU5-CSA-4-4721TS-2	7/27/2001	5.1	mg/kg			
CSA	*10*	*4722 Rodman Street*						*Yes*	*No*
			OU5-CSA-10-4722RS-1	8/6/2001	4.2	mg/kg			
			OU5-CSA-10-4722RS-2	8/6/2001	6.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-10-4722RS-SBA1	8/6/2001	3.4	mg/kg			
			OU5-CSA-10-4722RS-SBA2	8/6/2001	1.4 J	mg/kg			
			OU5-CSA-10-4722RS-SBA3	8/6/2001	2 J	mg/kg			
			OU5-CSA-10-4722RS-SBA4	8/6/2001	1.7 J	mg/kg			
			OU5-CSA-10-4722RS-SBA5	8/6/2001	3.5	mg/kg			
			OU5-CSA-10-4722RS-SBA6	8/6/2001	2.4	mg/kg			
			OU5-CSA-10-4722RS-SBB1	8/6/2001	2.4	mg/kg			
			OU5-CSA-10-4722RS-SBB2	8/6/2001	1.4 J	mg/kg			
			OU5-CSA-10-4722RS-SBB3	8/6/2001	1.6 J	mg/kg			
			OU5-CSA-10-4722RS-SBB4	8/6/2001	1.5 J	mg/kg			
			OU5-CSA-10-4722RS-SBB5	8/6/2001	0.55 U	mg/kg			
			OU5-CSA-10-4722RS-SBB6	8/6/2001	0.91 J	mg/kg			
CSA	*4*	*4722 Upton Street*						*No*	*No*
			OU5-CSA-4-4722US-1	7/20/2001	3.3	mg/kg			
			OU5-CSA-4-4722US-2	7/20/2001	3.8	mg/kg			
CSA	*3*	*4723 Upton Street*						*No*	*No*
			OU5-CSA-3-4723US-1	10/12/2001	4.6	mg/kg			
			OU5-CSA-3-4723US-2	10/12/2001	4.1	mg/kg			
CSA	*3*	*4724 Massachusetts Avenue*						*No*	*No*
			OU5-CSA-3-4724MA-1	9/20/2001	3.6	mg/kg			
			OU5-CSA-3-4724MA-2	9/20/2001	3	mg/kg			
CSA	*3*	*4724 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4724VNS-1	8/3/2001	7	mg/kg			
			OU5-CSA-3-4724VNS-2	8/3/2001	4.6	mg/kg			
CSA	*10*	*4725 Quebec Street*						*No*	*No*
			OU5-CSA-10-4725QS-1	8/10/2001	3.7 K	mg/kg			
			OU5-CSA-10-4725QS-2	8/10/2001	3.4 K	mg/kg			
CSA	*10*	*4725 Rodman Street*						*No*	*No*
			OU5-CSA-10-4725RS-1	10/4/2001	3.2	mg/kg			
			OU5-CSA-10-4725RS-2	10/4/2001	4.3	mg/kg			
CSA	*4*	*4725 Sedgwick Street*						*No*	*No*
			OU5-CSA-4-4725SegS-1	10/12/2001	2.8	mg/kg			
			OU5-CSA-4-4725SegS-2	10/12/2001	4.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	3	4726 Massachusetts Avenue						No	No
			OU5-CSA-3-4726MA-1	4/25/2002	5.9	mg/kg			
			OU5-CSA-3-4726MA-2	4/25/2002	2.4	mg/kg			
CSA	10	4726 Sedgwick Street						No	No
			OU5-CSA-10-4726SegS-1	4/25/2002	3.6	mg/kg			
			OU5-CSA-10-4726SegS-2	4/25/2002	3	mg/kg			
OU4	OU4	4727 Woodway Lane						No	No
			OU4-4727WL-1	8/30/2000	5.4 D	mg/kg			
			OU4-4727WL-2	8/30/2000	6.37 D	mg/kg			
			OU4-4727WL-3	8/30/2000	4.19 D	mg/kg			
			OU4-4727WL-4	8/30/2000	3.77 D	mg/kg			
			OU4-4727WL-SB-1	8/30/2000	3.77 D	mg/kg			
			OU4-4727WL-SB-2	8/30/2000	2.33 D	mg/kg			
			OU4-4727WL-SB-3	8/30/2000	4.01 D	mg/kg			
			OU4-4727WL-SB-4	8/30/2000	2.26 D	mg/kg			
			OU4-4727WL-SB-5	8/30/2000	2.59 D	mg/kg			
			OU4-4727WL-SB-6	8/30/2000	2.1 D	mg/kg			
			OU4-4727WL-SB-7	8/30/2000	3.12 D	mg/kg			
			OU4-4727WL-SB-8	8/30/2000	1.27 D	mg/kg			
CSA	3	4728 Massachusetts Avenue						No	No
			OU5-CSA-3-4728MA-1	10/25/2001	1.6 J	mg/kg			
			OU5-CSA-3-4728MA-2	10/25/2001	2.1 J	mg/kg			
CSA	4	4728 Tilden Street						No	No
			OU5-CSA-4-4728TS-1	8/10/2001	4.2	mg/kg			
			OU5-CSA-4-4728TS-2	8/10/2001	4.1	mg/kg			
CSA	4	4728 Upton Street						Yes	No
			OU5-CSA-4-4728US-1	8/15/2001	3.4	mg/kg			
			OU5-CSA-4-4728US-2	8/15/2001	3.5	mg/kg			
			OU5-CSA-4-4728US-SB1	8/15/2001	2.1 J	mg/kg			
			OU5-CSA-4-4728US-SB2	8/15/2001	1.3 J	mg/kg			
			OU5-CSA-4-4728US-SB3	8/15/2001	2.4	mg/kg			
			OU5-CSA-4-4728US-SB4	8/15/2001	6	mg/kg			
			OU5-CSA-4-4728US-SB5	8/15/2001	1.6 J	mg/kg			
			OU5-CSA-4-4728US-SB6	8/15/2001	2.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-4-4728US-SB7	8/15/2001	1.8 J	mg/kg			
			OU5-CSA-4-4728US-SB8	8/15/2001	2.1 J	mg/kg			
			OU5-CSA-4-4728US-SB9	8/15/2001	2.5 J	mg/kg			
CSA	*3*	*4728 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4728VNS-1	11/16/2001	3.7	mg/kg			
			OU5-CSA-3-4728VNS-2	11/16/2001	4	mg/kg			
OU4	*OU4*	*4730 Quebec Street*						*No*	*No*
			OU4-4730QS-1	2/1/2001	4.23	mg/kg			
			OU4-4730QS-2	2/1/2001	3.34	mg/kg			
			OU4-4730QS-3	2/1/2001	4.45	mg/kg			
			OU4-4730QS-4	2/1/2001	4.95	mg/kg			
			OU4-4730QS-SB-1	2/1/2001	4.61	mg/kg			
			OU4-4730QS-SB-2	2/1/2001	3.33	mg/kg			
			OU4-4730QS-SB-3	2/1/2001	1.61	mg/kg			
			OU4-4730QS-SB-4	2/1/2001	0.854	mg/kg			
			OU4-4730QS-SB-5	2/1/2001	0.958	mg/kg			
			OU4-4730QS-SB-6	2/1/2001	1.59	mg/kg			
CSA	*3*	*4732 Massachusetts Avenue*						*No*	*No*
			OU5-CSA-3-4732MA-1	9/20/2001	3.2	mg/kg			
			OU5-CSA-3-4732MA-2	9/20/2001	3.7	mg/kg			
CSA	*10*	*4732 Sedgwick Street*						*Yes*	*No*
			OU5-CSA-10-4732SegS-1	9/18/2001	6.1	mg/kg			
			OU5-CSA-10-4732SegS-2	9/18/2001	5.3	mg/kg			
			OU5-CSA-10-4732SegS-SB-DUP75	9/18/2001	4.5	mg/kg	OU5-CSA-10-4732SegS-SB3		
			OU5-CSA-10-4732SegS-SB1	9/18/2001	3.3	mg/kg			
			OU5-CSA-10-4732SegS-SB2	9/18/2001	3.3	mg/kg			
			OU5-CSA-10-4732SegS-SB3	9/18/2001	4.4	mg/kg			
			OU5-CSA-10-4732SegS-SB4	9/18/2001	2 J	mg/kg			
			OU5-CSA-10-4732SegS-SB5	9/18/2001	2.3	mg/kg			
			OU5-CSA-10-4732SegS-SB6	9/18/2001	0.58 U	mg/kg			
			OU5-CSA-10-4732SegS-SB7	9/18/2001	0.71 J	mg/kg			
CSA	*3*	*4732 Van Ness Street*						*Yes*	*No*
			OU5-CSA-3-4732VNS-1	7/26/2001	4	mg/kg			
			OU5-CSA-3-4732VNS-2	7/26/2001	7.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-3-4732VNS-SB-1	7/26/2001	2.2 J	mg/kg			
			OU5-CSA-3-4732VNS-SB-2	7/26/2001	3.3	mg/kg			
			OU5-CSA-3-4732VNS-SB-3	7/26/2001	5.3	mg/kg			
			OU5-CSA-3-4732VNS-SB-4	7/26/2001	4.2	mg/kg			
			OU5-CSA-3-4732VNS-SB-5	7/26/2001	4.7	mg/kg			
			OU5-CSA-3-4732VNS-SB-6	7/26/2001	3.5	mg/kg			
			OU5-CSA-3-4732VNS-SB-7	7/26/2001	2.2 J	mg/kg			
OU4	***OU4***	***4733 Woodway Lane***						***No***	***No***
			OU4-4733 WL-1	8/30/2000	3.67 D	mg/kg			
			OU4-4733 WL-2	8/30/2000	8.7 D	mg/kg			
			OU4-4733 WL-3	8/30/2000	5.59 D	mg/kg			
			OU4-4733 WL-4	8/30/2000	5.01 D	mg/kg			
			OU4-4733 WL-SB-1	8/30/2000	3.96 D	mg/kg			
			OU4-4733 WL-SB-2	8/30/2000	3.56 D	mg/kg			
			OU4-4733 WL-SB-3	8/30/2000	2.17 D	mg/kg			
			OU4-4733 WL-SB-4	8/30/2000	2.45 D	mg/kg			
			OU4-4733 WL-SB-5	8/30/2000	2.73 D	mg/kg			
			OU4-4733 WL-SB-6	8/30/2000	1.66 D	mg/kg			
CSA	***3***	***4734 Massachusetts Avenue***						***No***	***No***
			OU5-CSA-3-4734MA-1	6/1/2001	1.6 J	mg/kg			
			OU5-CSA-3-4734MA-2	6/1/2001	3.6	mg/kg			
CSA	***10***	***4735 Rodman Street***						***No***	***No***
			OU5-CSA-10-4735RS-1	8/31/2001	4.8	mg/kg			
			OU5-CSA-10-4735RS-2	8/31/2001	4.2	mg/kg			
			OU5-CSA-10-4735RS-DUP56	8/31/2001	4.9	mg/kg	OU5-CSA-10-4735RS-2		
CSA	***4***	***4735 Tilden Street***						***No***	***No***
			OU5-CSA-4-4735TS-1	7/24/2001	4.9	mg/kg			
			OU5-CSA-4-4735TS-2	7/24/2001	3	mg/kg			
OU4	***OU4***	***4735 Woodway Lane***						***No***	***No***
			OU4-4735WL-1	1/7/2002	6.8	mg/kg			
			OU4-4735WL-2	1/7/2002	3.8	mg/kg			
			OU4-4735WL-3	1/7/2002	4	mg/kg			
			OU4-4735WL-4	1/7/2002	4.7	mg/kg			
			OU4-4735WL-SB-DUP04	1/7/2002	2.4	mg/kg	OU4-4735WL-SB2		
			OU4-4735WL-SB1	1/7/2002	3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4735WL-SB2	1/7/2002	1.9	mg/kg			
			OU4-4735WL-SB3	1/7/2002	3.7	mg/kg			
			OU4-4735WL-SB4	1/7/2002	3.9	mg/kg			
			OU4-4735WL-SB5	1/7/2002	2.4	mg/kg			
			OU4-4735WL-SB6	1/7/2002	2.9	mg/kg			
CSA	*3*	*4736 Massachusetts Avenue*						*No*	*No*
			OU5-CSA-3-4736MA-1	8/10/2001	3.1	mg/kg			
			OU5-CSA-3-4736MA-2	8/10/2001	4.9	mg/kg			
CSA	*3*	*4738 Massachusetts Avenue*						*No*	*No*
			OU5-CSA-3-4738MA-1	9/20/2001	2.4 J	mg/kg			
			OU5-CSA-3-4738MA-2	9/20/2001	3.8	mg/kg			
CSA	*4*	*4738 Tilden Street*						*No*	*No*
			OU5-CSA-4-4738TS-1	3/22/2002	3.4 K	mg/kg			
			OU5-CSA-4-4738TS-2	3/22/2002	3.9 K	mg/kg			
CSA	*4*	*4739 Tilden Street*						*No*	*No*
			OU5-CSA-4-4739TS-1	11/8/2001	6.5	mg/kg			
			OU5-CSA-4-4739TS-2	11/8/2001	7.2	mg/kg			
OU4	*OU4*	*4740 Quebec Street*						*No*	*No*
			OU4-4740QS-1	8/31/2000	4.99 DJ	mg/kg			
			OU4-4740QS-2	8/31/2000	4.28 DJ	mg/kg			
			OU4-4740QS-3	8/31/2000	5.88 DJ	mg/kg			
			OU4-4740QS-4	8/31/2000	5.7 DJ	mg/kg			
			OU4-4740QS-SB-1	8/31/2000	5.17 DJ	mg/kg			
			OU4-4740QS-SB-2	8/31/2000	3.93 DJ	mg/kg			
			OU4-4740QS-SB-3	8/31/2000	1.3 DJ	mg/kg			
			OU4-4740QS-SB-4	8/31/2000	3.12 DJ	mg/kg			
			OU4-4740QS-SB-5	8/31/2000	2.79 DJ	mg/kg			
			OU4-4740QS-SB-6	8/31/2000	2.57 DJ	mg/kg			
CSA	*3*	*4747 Upton Street*						*No*	*No*
			OU5-CSA-3-4747US-1	7/27/2001	6.2	mg/kg			
			OU5-CSA-3-4747US-2	7/27/2001	6.6	mg/kg			
OU4	*OU4*	*4767 Indian Lane*						*No*	*No*
			OU4-4767IL-1	7/1/2002	4.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4767IL-2	7/1/2002	4.9	mg/kg			
			OU4-4767IL-3	7/1/2002	4.8	mg/kg			
			OU4-4767IL-4	7/1/2002	8	mg/kg			
			OU4-4767IL-SB-DUP06	7/1/2002	3.4	mg/kg	OU4-4767IL-SB4		
			OU4-4767IL-SB1	7/1/2002	5.1	mg/kg			
			OU4-4767IL-SB2	7/1/2002	11.6	mg/kg			
			OU4-4767IL-SB3	7/1/2002	3.2	mg/kg			
			OU4-4767IL-SB4	7/1/2002	3.3	mg/kg			
			OU4-4767IL-SB5	7/1/2002	4.4	mg/kg			
			OU4-4767IL-SB6	7/1/2002	2.5	mg/kg			
CSA	*10*	*4800 Quebec Street*						*Yes*	*No*
			OU5-CSA-10-4800QS-1	5/31/2001	1.8 J	mg/kg			
			OU5-CSA-10-4800QS-2	5/31/2001	2.9	mg/kg			
			OU5-CSA-10-4800QS-SB-1	7/26/2001	4	mg/kg			
			OU5-CSA-10-4800QS-SB-2	7/26/2001	3.1	mg/kg			
			OU5-CSA-10-4800QS-SB-3	7/26/2001	2.1	mg/kg			
			OU5-CSA-10-4800QS-SB-4	7/26/2001	0.91 J	mg/kg			
			OU5-CSA-10-4800QS-SB-5	7/26/2001	3	mg/kg			
			OU5-CSA-10-4800QS-SB-6	7/26/2001	0.59 J	mg/kg			
CTA	*1D*	*4800 Sedgwick Street*						*No*	*No*
			OU5-CTA-1D-4800SegS-1	7/24/2001	6.5	mg/kg			
			OU5-CTA-1D-4800SegS-2	7/24/2001	3.8	mg/kg			
			OU5-CTA-1D-4800SegS-3	7/24/2001	3.8	mg/kg			
			OU5-CTA-1D-4800SegS-4	7/24/2001	4.3	mg/kg			
			OU5-CTA-1D-4800SegS-SB-1	7/24/2001	2.9	mg/kg			
			OU5-CTA-1D-4800SegS-SB-2	7/24/2001	3.3	mg/kg			
			OU5-CTA-1D-4800SegS-SB-3	7/24/2001	4	mg/kg			
			OU5-CTA-1D-4800SegS-SB-4	7/24/2001	2.3 J	mg/kg			
			OU5-CTA-1D-4800SegS-SB-5	7/24/2001	2 J	mg/kg			
			OU5-CTA-1D-4800SegS-SB-6	7/24/2001	1.4 J	mg/kg			
CSA	*4*	*4800 Tilden Street*						*No*	*No*
			OU5-CSA-4-4800TS-1	10/12/2001	4.9	mg/kg			
			OU5-CSA-4-4800TS-2	10/12/2001	6.1	mg/kg			
CSA	*4*	*4800 Upton Street*						*No*	*No*
			OU5-CSA-4-4800US-1	7/27/2001	4.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-4-4800US-2	7/27/2001	3.6	mg/kg			
CSA	*3*	*4800 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4800VNS-1	11/9/2001	10.7	mg/kg			
			OU5-CSA-3-4800VNS-2	11/9/2001	2.9	mg/kg			
OU4	*OU4*	*4800 Woodway Lane*						*No*	*No*
			OU4-4800WL-1	1/7/2002	10.2	mg/kg			
			OU4-4800WL-2	1/7/2002	10.6	mg/kg			
			OU4-4800WL-3	1/7/2002	7.2	mg/kg			
			OU4-4800WL-4	1/7/2002	11.5	mg/kg			
			OU4-4800WL-SB-DUP03	1/7/2002	3.1	mg/kg	OU4-4800WL-SBA5		
			OU4-4800WL-SBA1	1/7/2002	2.9	mg/kg			
			OU4-4800WL-SBA2	1/7/2002	4.2	mg/kg			
			OU4-4800WL-SBA3	1/7/2002	1.7	mg/kg			
			OU4-4800WL-SBA4	1/7/2002	3.6	mg/kg			
			OU4-4800WL-SBA5	1/7/2002	3	mg/kg			
			OU4-4800WL-SBA6	1/7/2002	2.3	mg/kg			
			OU4-4800WL-SBB1	1/7/2002	3	mg/kg			
			OU4-4800WL-SBB2	1/7/2002	2.4	mg/kg			
			OU4-4800WL-SBB3	1/7/2002	3.4 J	mg/kg			
			OU4-4800WL-SBB4	1/7/2002	4.2	mg/kg			
			OU4-4800WL-SBB5	1/7/2002	2.2	mg/kg			
			OU4-4800WL-SBB6	1/7/2002	2.7	mg/kg			
OU4	*OU4*	*4801 Indian Lane*						*No*	*No*
			OU4-4801IL-1	9/22/2000	8.42 DJ	mg/kg			
			OU4-4801IL-2	9/22/2000	6.55 DJ	mg/kg			
			OU4-4801IL-3	9/22/2000	9.95 DJ	mg/kg			
			OU4-4801IL-4	9/22/2000	10.3 DJ	mg/kg			
			OU4-4801IL-SB-1	9/22/2000	4.54 DJ	mg/kg			
			OU4-4801IL-SB-10	9/22/2000	1.14 DJ	mg/kg			
			OU4-4801IL-SB-2	9/22/2000	5.14 DJ	mg/kg			
			OU4-4801IL-SB-3	9/22/2000	3.3 DJ	mg/kg			
			OU4-4801IL-SB-4	9/22/2000	3.14 DJ	mg/kg			
			OU4-4801IL-SB-5	9/22/2000	2.73 DJ	mg/kg			
			OU4-4801IL-SB-6	9/22/2000	4.27 DJ	mg/kg			
			OU4-4801IL-SB-7	9/22/2000	8.47 DJ	mg/kg			
			OU4-4801IL-SB-8	9/22/2000	1.84 DJ	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4801IL-SB-9	9/22/2000	3.7 DJ	mg/kg			
CSA	12	4801 Loughboro Road						No	No
			OU5-CSA-12-4801LR-1	7/25/2001	6.2	mg/kg			
			OU5-CSA-12-4801LR-2	7/25/2001	4.2	mg/kg			
CSA	10	4801 Quebec Street						Yes	Yes
			OU5-CSA-10-4801QS-1	8/29/2001	5.9	mg/kg			
			OU5-CSA-10-4801QS-2	8/29/2001	36.9	mg/kg			
			OU5-CSA-10-4801QS-SBA1	8/29/2001	4.3	mg/kg			
			OU5-CSA-10-4801QS-SBA10	8/29/2001	0.72 J	mg/kg			
			OU5-CSA-10-4801QS-SBA2	8/29/2001	3.6	mg/kg			
			OU5-CSA-10-4801QS-SBA3	8/29/2001	3.4	mg/kg			
			OU5-CSA-10-4801QS-SBA4	8/29/2001	3.1	mg/kg			
			OU5-CSA-10-4801QS-SBA5	8/29/2001	2.6	mg/kg			
			OU5-CSA-10-4801QS-SBA6	8/29/2001	3	mg/kg			
			OU5-CSA-10-4801QS-SBA7	8/29/2001	2.6 J	mg/kg			
			OU5-CSA-10-4801QS-SBA8	8/29/2001	2.1 J	mg/kg			
			OU5-CSA-10-4801QS-SBA9	8/29/2001	0.65 J	mg/kg			
			OU5-CSA-10-4801QS-SBB1	8/29/2001	3.6	mg/kg			
			OU5-CSA-10-4801QS-SBB10	8/29/2001	0.86 J	mg/kg			
			OU5-CSA-10-4801QS-SBB2	8/29/2001	3.4	mg/kg			
			OU5-CSA-10-4801QS-SBB3	8/29/2001	3.3	mg/kg			
			OU5-CSA-10-4801QS-SBB4	8/29/2001	3.1	mg/kg			
			OU5-CSA-10-4801QS-SBB5	8/29/2001	2.7	mg/kg			
			OU5-CSA-10-4801QS-SBB6	8/29/2001	1.8 J	mg/kg			
			OU5-CSA-10-4801QS-SBB7	8/29/2001	3.1	mg/kg			
			OU5-CSA-10-4801QS-SBB8	8/29/2001	2.2 J	mg/kg			
			OU5-CSA-10-4801QS-SBB9	8/29/2001	3.9	mg/kg			
CTA	1D	4801 Rodman Street						No	No
			OU5-CTA-1D-4801RS-1	7/16/2001	4.6	mg/kg			
			OU5-CTA-1D-4801RS-2	7/16/2001	4.2	mg/kg			
			OU5-CTA-1D-4801RS-3	7/16/2001	4.1	mg/kg			
			OU5-CTA-1D-4801RS-4	7/16/2001	3.9	mg/kg			
			OU5-CTA-1D-4801RS-SB1	7/16/2001	3.9	mg/kg			
			OU5-CTA-1D-4801RS-SB2	7/16/2001	5.7	mg/kg			
			OU5-CTA-1D-4801RS-SB3	7/16/2001	5.2	mg/kg			
			OU5-CTA-1D-4801RS-SB4	7/16/2001	8.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4801RS-SB5	7/16/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4801RS-SB6	7/16/2001	1.1 J	mg/kg			
CSA	*4*	*4801 Tilden Street*						*Yes*	*No*
			OU5-CSA-4-4801TS-1	8/10/2001	5.5	mg/kg			
			OU5-CSA-4-4801TS-2	8/10/2001	4.2	mg/kg			
			OU5-CSA-4-4801TS-SB1	10/8/2001	1.2 J	mg/kg			
			OU5-CSA-4-4801TS-SB2	10/8/2001	3.9	mg/kg			
			OU5-CSA-4-4801TS-SB3	10/8/2001	3.2	mg/kg			
			OU5-CSA-4-4801TS-SB4	10/8/2001	2 J	mg/kg			
			OU5-CSA-4-4801TS-SB5	10/8/2001	2.5	mg/kg			
			OU5-CSA-4-4801TS-SB6	10/8/2001	1.1 J	mg/kg			
			OU5-CSA-4-4801TS-SB7	10/8/2001	1.1 J	mg/kg			
			OU5-CSA-4-4801TS-SB8	10/8/2001	0.78 J	mg/kg			
CSA	*3*	*4801 Upton Street*						*No*	*No*
			OU5-CSA-3-4801US-1	10/12/2001	4	mg/kg			
			OU5-CSA-3-4801US-2	10/12/2001	4.8	mg/kg			
CSA	*3*	*4801 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4801VNS-1	11/19/2001	2.2 J	mg/kg			
			OU5-CSA-3-4801VNS-2	11/19/2001	3.9	mg/kg			
CSA	*3*	*4803 Van Ness Street*						*Yes*	*No*
			OU5-CSA-3-4803VNS-1	8/6/2001	2.3	mg/kg			
			OU5-CSA-3-4803VNS-2	8/6/2001	2.9	mg/kg			
			OU5-CSA-3-4803VNS-SB1	8/6/2001	1.6 J	mg/kg			
			OU5-CSA-3-4803VNS-SB2	8/6/2001	3	mg/kg			
			OU5-CSA-3-4803VNS-SB3	8/6/2001	2.1 J	mg/kg			
			OU5-CSA-3-4803VNS-SB4	8/6/2001	1.3 J	mg/kg			
			OU5-CSA-3-4803VNS-SB5	8/6/2001	1.5 J	mg/kg			
			OU5-CSA-3-4803VNS-SB6	8/6/2001	0.76 J	mg/kg			
CTA	*1D*	*4805 Sedgwick Street*						*No*	*No*
			OU5-CTA-1D-4805SegS-1	7/11/2001	5.2	mg/kg			
			OU5-CTA-1D-4805SegS-2	7/11/2001	4.2	mg/kg			
			OU5-CTA-1D-4805SegS-3	7/11/2001	3.3	mg/kg			
			OU5-CTA-1D-4805SegS-4	7/11/2001	3.5	mg/kg			
			OU5-CTA-1D-4805SegS-SB-DUP29	7/11/2001	0.69 J	mg/kg	OU5-CTA-1D-4805SegS-SB4		

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4805SegS-SB1	7/11/2001	3.2	mg/kg			
			OU5-CTA-1D-4805SegS-SB2	7/11/2001	3.1 J	mg/kg			
			OU5-CTA-1D-4805SegS-SB3	7/11/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4805SegS-SB4	7/11/2001	0.65 J	mg/kg			
			OU5-CTA-1D-4805SegS-SB5	7/11/2001	0.83 J	mg/kg			
			OU5-CTA-1D-4805SegS-SB6	7/11/2001	0.72 J	mg/kg			
CSA	*3*	*4805 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4805VNS-1	7/27/2001	2.8	mg/kg			
			OU5-CSA-3-4805VNS-2	7/27/2001	2.8	mg/kg			
CSA	*10*	*4807 Quebec Street*						*No*	*No*
			OU5-CSA-10-4807QS-1	8/10/2001	3.2	mg/kg			
			OU5-CSA-10-4807QS-2	8/10/2001	4.4	mg/kg			
CSA	*3*	*4807 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4807VNS-1	10/4/2001	1.7 J	mg/kg			
			OU5-CSA-3-4807VNS-2	10/4/2001	3.1 J	mg/kg			
OU4	*OU4*	*4808 Rockwood Parkway*						*No*	*No*
			OU4-4808RP-1	9/12/2000	6.21 B	mg/kg			
			OU4-4808RP-2	9/12/2000	5.38 B	mg/kg			
			OU4-4808RP-3	9/12/2000	5.47 B	mg/kg			
			OU4-4808RP-4	9/12/2000	4.11 B	mg/kg			
			OU4-4808RP-SB-1	9/12/2000	3.79 B	mg/kg			
			OU4-4808RP-SB-2	9/12/2000	4.87 B	mg/kg			
			OU4-4808RP-SB-3	9/12/2000	4.88 B	mg/kg			
			OU4-4808RP-SB-4	9/12/2000	3.71 B	mg/kg			
			OU4-4808RP-SB-5	9/12/2000	4.65 B	mg/kg			
			OU4-4808RP-SB-6	9/12/2000	8.64 B	mg/kg			
			OU4-4808RP-SB-7	9/12/2000	6.8 DJ	mg/kg			
			OU4-4808RP-SBDUP09	9/12/2000	5.23 DJ	mg/kg			
CSA	*3*	*4809 Upton Street*						*Yes*	*No*
			OU5-CSA-3-4809US-1	8/22/2001	4.3	mg/kg			
			OU5-CSA-3-4809US-2	8/22/2001	3.5	mg/kg			
			OU5-CSA-3-4809US-DUP46	8/22/2001	5.2	mg/kg	OU5-CSA-3-4809US-2		
			OU5-CSA-3-4809US-SB-DUP59	8/22/2001	0.94 J	mg/kg	OU5-CSA-3-4809US-SB5		
			OU5-CSA-3-4809US-SB1	8/22/2001	2.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-3-4809US-SB2	8/22/2001	2.8	mg/kg			
			OU5-CSA-3-4809US-SB3	8/22/2001	1.4 J	mg/kg			
			OU5-CSA-3-4809US-SB4	8/22/2001	1.2 J	mg/kg			
			OU5-CSA-3-4809US-SB5	8/22/2001	1.1 J	mg/kg			
			OU5-CSA-3-4809US-SB6	8/22/2001	1.1 J	mg/kg			
CSA	*3*	*4809 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4809VNS-1	8/17/2001	2.2 J	mg/kg			
			OU5-CSA-3-4809VNS-2	8/17/2001	3.7	mg/kg			
OU4	*OU4*	*4809 Woodway Lane*						*No*	*No*
			OU4-4809WL-1	9/12/2000	4.08 DJ	mg/kg			
			OU4-4809WL-2	9/12/2000	4.94 DJ	mg/kg			
			OU4-4809WL-3	9/12/2000	5.73 DJ	mg/kg			
			OU4-4809WL-4	9/12/2000	5.75 DJ	mg/kg			
			OU4-4809WL-SB-1	9/12/2000	3.63 DJ	mg/kg			
			OU4-4809WL-SB-2	9/12/2000	3.76 DJ	mg/kg			
			OU4-4809WL-SB-3	9/12/2000	4.02 DJ	mg/kg			
			OU4-4809WL-SB-4	9/12/2000	3.56 DJ	mg/kg			
			OU4-4809WL-SB-5	9/12/2000	2.26 DJ	mg/kg			
			OU4-4809WL-SB-6	9/12/2000	1.24 DJ	mg/kg			
OU4	*OU4*	*4810 Glenbrook Road*						*No*	*Yes*
			OU4-4810GR-1	1/7/2002	5	mg/kg			
			OU4-4810GR-2	1/7/2002	6.2	mg/kg			
			OU4-4810GR-3	1/7/2002	16	mg/kg			
			OU4-4810GR-4	1/7/2002	23	mg/kg			
			OU4-4810GR-DUP02	1/7/2002	22.2	mg/kg	OU4-4810GR-4		
			OU4-4810GR-SB1	1/7/2002	3.1	mg/kg			
			OU4-4810GR-SB2	1/7/2002	2	mg/kg			
			OU4-4810GR-SB3	1/7/2002	2.6	mg/kg			
			OU4-4810GR-SB4	1/7/2002	2	mg/kg			
			OU4-4810GR-SB5	1/7/2002	2.2	mg/kg			
			OU4-4810GR-SB6	1/7/2002	1.4 J	mg/kg			
CSA	*10*	*4810 Quebec Street*						*No*	*No*
			OU5-CSA-10-4810QS-1	10/3/2001	3.5	mg/kg			
			OU5-CSA-10-4810QS-2	10/3/2001	3.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
OU4	OU4	4810 Rockwood Parkway						No	No
			OU4-4810RP-1	10/23/2001	7.2	mg/kg			
			OU4-4810RP-2	10/23/2001	6	mg/kg			
			OU4-4810RP-3	10/23/2001	5.8	mg/kg			
			OU4-4810RP-4	10/23/2001	5.6	mg/kg			
			OU4-4810RP-SB1	10/23/2001	2.6	mg/kg			
			OU4-4810RP-SB2	10/23/2001	3.6	mg/kg			
			OU4-4810RP-SB3	10/23/2001	5.8	mg/kg			
			OU4-4810RP-SB4	10/23/2001	3.7	mg/kg			
			OU4-4810RP-SB5	10/23/2001	4.5	mg/kg			
			OU4-4810RP-SB6	10/23/2001	5.6	mg/kg			
CSA	10	4810 Rodman Street						No	No
			OU5-CSA-10-4810RS-1	8/28/2001	7.2	mg/kg			
			OU5-CSA-10-4810RS-2	8/28/2001	6.8	mg/kg			
			OU5-CSA-10-4810RS-DUP53	8/28/2001	6.3	mg/kg	OU5-CSA-10-4810RS-2		
CTA	1D	4810 Sedgwick Street						No	Yes
			OU5-CTA-1D-4810SegS-(1)-C2	4/23/2002	8.9	mg/kg			
			OU5-CTA-1D-4810SegS-(2)-C2	4/23/2002	7.4	mg/kg			
			OU5-CTA-1D-4810SegS-(3)-C2	4/23/2002	6.4	mg/kg			
			OU5-CTA-1D-4810SegS-(4)-C2	4/23/2002	7.3	mg/kg			
			OU5-CTA-1D-4810SegS-(5)-C2	4/23/2002	6.5	mg/kg			
			OU5-CTA-1D-4810SegS-(6)-C2	4/23/2002	6.2	mg/kg			
			OU5-CTA-1D-4810SegS-1	8/1/2001	10	mg/kg			
			OU5-CTA-1D-4810SegS-2	8/1/2001	75.5	mg/kg			
			OU5-CTA-1D-4810SegS-3	8/1/2001	4.5	mg/kg			
			OU5-CTA-1D-4810SegS-4	8/1/2001	3.9	mg/kg			
			OU5-CTA-1D-4810SegS-SB-DUP43	8/1/2001	3.8	mg/kg	OU5-CTA-1D-4810SegS-SB4		
			OU5-CTA-1D-4810SegS-SB1	8/1/2001	4.5	mg/kg			
			OU5-CTA-1D-4810SegS-SB2	8/1/2001	7.3	mg/kg			
			OU5-CTA-1D-4810SegS-SB3	8/1/2001	4	mg/kg			
			OU5-CTA-1D-4810SegS-SB4	8/1/2001	3.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4810SegS-SB5	8/1/2001	2.9	mg/kg			
			OU5-CTA-1D-4810SegS-SB6	8/1/2001	2.7	mg/kg			
			OU5-CTA-1D-4810SegS-SB7	8/1/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4810SegS-SB8	8/1/2001	0.41 J	mg/kg			
CSA	*4*	*4810 Upton Street*						*No*	*No*
			OU5-CSA-4-4810US-1	8/3/2001	2.3 J	mg/kg			
			OU5-CSA-4-4810US-2	8/3/2001	2.7	mg/kg			
CTA	*1D*	*4811 Sedgwick Street*						*No*	*No*
			OU5-CTA-1D-4811SegS-1	7/16/2001	5	mg/kg			
			OU5-CTA-1D-4811SegS-2	7/16/2001	4.1	mg/kg			
			OU5-CTA-1D-4811SegS-3	7/16/2001	5.4	mg/kg			
			OU5-CTA-1D-4811SegS-4	7/16/2001	6.9	mg/kg			
			OU5-CTA-1D-4811SegS-SB1	7/16/2001	4.6	mg/kg			
			OU5-CTA-1D-4811SegS-SB2	7/16/2001	1.8 J	mg/kg			
			OU5-CTA-1D-4811SegS-SB3	7/16/2001	2.4	mg/kg			
			OU5-CTA-1D-4811SegS-SB4	7/16/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4811SegS-SB5	7/16/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4811SegS-SB6	7/16/2001	2.1 J	mg/kg			
CSA	*3*	*4811 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4811VNS-1	11/9/2001	9.9	mg/kg			
			OU5-CSA-3-4811VNS-2	11/9/2001	7.6	mg/kg			
CSA	*4*	*4812 Tilden Street*						*Yes*	*No*
			OU5-CSA-4-4812TS-1	7/6/2001	5.3	mg/kg			
			OU5-CSA-4-4812TS-2	7/6/2001	4.4	mg/kg			
			OU5-CSA-4-4812TS-SB-DUP61	8/27/2001	2 J	mg/kg	OU5-CSA-4-4812TS-SB4		
			OU5-CSA-4-4812TS-SB1	8/27/2001	2 J	mg/kg			
			OU5-CSA-4-4812TS-SB2	8/27/2001	1.7 J	mg/kg			
			OU5-CSA-4-4812TS-SB3	8/27/2001	1.4 J	mg/kg			
			OU5-CSA-4-4812TS-SB4	8/27/2001	1.9 J	mg/kg			
			OU5-CSA-4-4812TS-SB5	8/27/2001	1.1 J	mg/kg			
			OU5-CSA-4-4812TS-SB6	8/27/2001	2.9	mg/kg			
CSA	*10*	*4813 Quebec Street*						*Yes*	*Yes*
			OU5-CSA-10-4813QS-1	7/6/2001	3.9	mg/kg			
			OU5-CSA-10-4813QS-2	7/6/2001	69.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-10-4813QS-SB-1	7/26/2001	3.8	mg/kg			
			OU5-CSA-10-4813QS-SB-2	7/26/2001	2.7	mg/kg			
			OU5-CSA-10-4813QS-SB-3	7/26/2001	3.8	mg/kg			
			OU5-CSA-10-4813QS-SB-4	7/26/2001	3.3	mg/kg			
			OU5-CSA-10-4813QS-SB-5	7/26/2001	1.9 J	mg/kg			
			OU5-CSA-10-4813QS-SB-6	7/26/2001	2.5	mg/kg			
CSA	*3*	*4813 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4813VNS-1	6/11/2002	3.6	mg/kg			
			OU5-CSA-3-4813VNS-2	6/11/2002	2.8	mg/kg			
CSA	*10*	*4813 Woodway Lane*						*Yes*	*No*
			OU5-CSA-10-4813WL-1	7/24/2001	3.8	mg/kg			
			OU5-CSA-10-4813WL-2	7/24/2001	3.5	mg/kg			
			OU5-CSA-10-4813WL-SBA-1	7/24/2001	2 J	mg/kg			
			OU5-CSA-10-4813WL-SBA-2	7/24/2001	2.8	mg/kg			
			OU5-CSA-10-4813WL-SBA-3	7/24/2001	1.7 J	mg/kg			
			OU5-CSA-10-4813WL-SBA-4	7/24/2001	1.8 J	mg/kg			
			OU5-CSA-10-4813WL-SBA-5	7/24/2001	2.6	mg/kg			
			OU5-CSA-10-4813WL-SBA-6	7/24/2001	2.4	mg/kg			
			OU5-CSA-10-4813WL-SBA-7	7/24/2001	2.3 J	mg/kg			
			OU5-CSA-10-4813WL-SBA-8	7/24/2001	2.7	mg/kg			
			OU5-CSA-10-4813WL-SBA-9	7/24/2001	3.3	mg/kg			
			OU5-CSA-10-4813WL-SBB-1	7/24/2001	4.2	mg/kg			
			OU5-CSA-10-4813WL-SBB-2	7/24/2001	3.4	mg/kg			
			OU5-CSA-10-4813WL-SBB-3	7/24/2001	2.6	mg/kg			
			OU5-CSA-10-4813WL-SBB-4	7/24/2001	3.2	mg/kg			
			OU5-CSA-10-4813WL-SBB-5	7/24/2001	1.2 J	mg/kg			
			OU5-CSA-10-4813WL-SBB-6	7/24/2001	1.1 J	mg/kg			
CTA	*1D*	*4814 Sedgwick Street*						*Yes*	*No*
			OU5-CTA-1D-4814SegS-1	8/2/2001	4.8	mg/kg			
			OU5-CTA-1D-4814SegS-2	8/2/2001	3.7	mg/kg			
			OU5-CTA-1D-4814SegS-3	8/2/2001	5	mg/kg			
			OU5-CTA-1D-4814SegS-4	8/2/2001	6.9	mg/kg			
			OU5-CTA-1D-4814SegS-SB-1	8/2/2001	4.3	mg/kg			
			OU5-CTA-1D-4814SegS-SB-2	8/2/2001	3.6	mg/kg			
			OU5-CTA-1D-4814SegS-SB-3	8/2/2001	3.1	mg/kg			
			OU5-CTA-1D-4814SegS-SB-4	8/2/2001	5.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4814SegS-SB-5	8/2/2001	2.7	mg/kg			
			OU5-CTA-1D-4814SegS-SB-6	8/2/2001	3.7	mg/kg			
CSA	*4*	*4815 Tilden Street*						*No*	*No*
			OU5-CSA-4-4815TS-1	10/12/2001	4.5	mg/kg			
			OU5-CSA-4-4815TS-2	10/12/2001	2.8 J	mg/kg			
CSA	*3*	*4815 Upton Street*						*No*	*No*
			OU5-CSA-3-4815US-1	8/17/2001	7.3	mg/kg			
			OU5-CSA-3-4815US-2	8/17/2001	4.9	mg/kg			
CSA	*3*	*4815 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4815VNS-1	8/17/2001	2.3 J	mg/kg			
			OU5-CSA-3-4815VNS-2	8/17/2001	2.5	mg/kg			
CSA	*10*	*4816 Quebec Street*						*No*	*No*
			OU5-CSA-10-4816QS-1	10/3/2001	5.7	mg/kg			
			OU5-CSA-10-4816QS-2	10/3/2001	4.6	mg/kg			
CTA	*1D*	*4816 Rodman Street*						*No*	*No*
			OU5-CTA-1D-4816RS-1	9/17/2001	3.5	mg/kg			
			OU5-CTA-1D-4816RS-2	9/17/2001	2.8	mg/kg			
			OU5-CTA-1D-4816RS-3	9/17/2001	3.9	mg/kg			
			OU5-CTA-1D-4816RS-4	9/17/2001	6.1	mg/kg			
			OU5-CTA-1D-4816RS-SB-DUP73	9/17/2001	1.6 J	mg/kg	OU5-CTA-1D-4816RS-SB7		
			OU5-CTA-1D-4816RS-SB1	9/17/2001	1.7 J	mg/kg			
			OU5-CTA-1D-4816RS-SB2	9/17/2001	2.4	mg/kg			
			OU5-CTA-1D-4816RS-SB3	9/17/2001	1.8 J	mg/kg			
			OU5-CTA-1D-4816RS-SB4	9/17/2001	1 J	mg/kg			
			OU5-CTA-1D-4816RS-SB5	9/17/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4816RS-SB6	9/17/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4816RS-SB7	9/17/2001	1.2 J	mg/kg			
CSA	*4*	*4816 Tilden Street*						*No*	*No*
			OU5-CSA-4-4816TS-1	8/28/2001	6.2	mg/kg			
			OU5-CSA-4-4816TS-2	8/28/2001	4.8	mg/kg			
CSA	*4*	*4816 Upton Street*						*No*	*No*
			OU5-CSA-4-4816US-1	8/17/2001	4.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-4-4816US-2	8/17/2001	1.9	J	mg/kg			
CTA	1D	4817 Rodman Street							No	No
			OU5-CTA-1D-4817RS-1	9/7/2001	4.5		mg/kg			
			OU5-CTA-1D-4817RS-2	9/7/2001	8.1		mg/kg			
			OU5-CTA-1D-4817RS-3	9/7/2001	5.4		mg/kg			
			OU5-CTA-1D-4817RS-4	9/7/2001	4.6		mg/kg			
			OU5-CTA-1D-4817RS-SB-DUP71	9/7/2001	4.2		mg/kg	OU5-CTA-1D-4817RS-SB2		
			OU5-CTA-1D-4817RS-SB1	9/7/2001	4		mg/kg			
			OU5-CTA-1D-4817RS-SB2	9/7/2001	4.5		mg/kg			
			OU5-CTA-1D-4817RS-SB3	9/7/2001	4.2		mg/kg			
			OU5-CTA-1D-4817RS-SB4	9/7/2001	2.9		mg/kg			
			OU5-CTA-1D-4817RS-SB5	9/7/2001	1.5	J	mg/kg			
			OU5-CTA-1D-4817RS-SB6	9/7/2001	2	J	mg/kg			
			OU5-CTA-1D-4817RS-SB7	9/7/2001	1.1	J	mg/kg			
			OU5-CTA-1D-4817RS-SB8	9/7/2001	1.4	J	mg/kg			
			OU5-CTA-1D-4817RS-SB9	9/7/2001	1.5	J	mg/kg			
CSA	10	4817 Woodway Lane							No	No
			OU5-CSA-10-4817WL-1	8/17/2001	8.1		mg/kg			
			OU5-CSA-10-4817WL-2	8/17/2001	7.5		mg/kg			
OU4	OU4	4818 Woodway Lane							No	No
			OU4-4818WL-1	9/5/2000	3.63	D	mg/kg			
			OU4-4818WL-2	9/5/2000	2.92	D	mg/kg			
			OU4-4818WL-3	9/5/2000	4.34	D	mg/kg			
			OU4-4818WL-4	9/5/2000	4.21	D	mg/kg			
			OU4-4818WL-SB-1	9/5/2000	3.6	D	mg/kg			
			OU4-4818WL-SB-2	9/5/2000	2.44	D	mg/kg			
			OU4-4818WL-SB-3	9/5/2000	0.68	DJ	mg/kg			
			OU4-4818WL-SB-4	9/5/2000	1.37	D	mg/kg			
OU4	OU4	4819 Indian Lane							No	No
			OU4-4819IL-1	9/6/2000	6.24	DJ	mg/kg			
			OU4-4819IL-2	9/6/2000	1.8	DJ	mg/kg			
			OU4-4819IL-3	9/6/2000	10.9	DJ	mg/kg			
			OU4-4819IL-4	9/6/2000	9.02	DJ	mg/kg			
			OU4-4819IL-SB-1	9/6/2000	6.31	DJ	mg/kg			
			OU4-4819IL-SB-10	9/6/2000	0.96	JD	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4819IL-SB-2	9/6/2000	5.56 DJ	mg/kg			
			OU4-4819IL-SB-3	9/6/2000	3.96 DJ	mg/kg			
			OU4-4819IL-SB-4	9/6/2000	1 JD	mg/kg			
			OU4-4819IL-SB-5	9/6/2000	1.35 DJ	mg/kg			
			OU4-4819IL-SB-6	9/6/2000	1.22 UJ	mg/kg			
			OU4-4819IL-SB-7	9/6/2000	1.02 JD	mg/kg			
			OU4-4819IL-SB-8	9/6/2000	1.16 JD	mg/kg			
			OU4-4819IL-SB-9	9/6/2000	1.28 DJ	mg/kg			
CSA	*10*	*4819 Quebec Street*						*No*	*No*
			OU5-CSA-10-4819QS-1	8/21/2001	2.9	mg/kg			
			OU5-CSA-10-4819QS-2	8/21/2001	3.4	mg/kg			
OU4	*OU4*	*4820 Glenbrook Road*						*No*	*No*
			OU4-4820GR-1	8/31/2000	5.08 DL	mg/kg			
			OU4-4820GR-2	8/31/2000	3.07 DL	mg/kg			
			OU4-4820GR-3	8/31/2000	2.95 DL	mg/kg			
			OU4-4820GR-4	8/31/2000	3.14 DL	mg/kg			
			OU4-4820GR-SB-1	8/31/2000	2.13 DL	mg/kg			
			OU4-4820GR-SB-2	8/31/2000	1.42 DL	mg/kg			
			OU4-4820GR-SB-3	8/31/2000	3 DL	mg/kg			
			OU4-4820GR-SB-4	8/31/2000	3.63 DL	mg/kg			
			OU4-4820GR-SB-5	8/31/2000	1.62 DL	mg/kg			
			OU4-4820GR-SB-6	8/31/2000	2.02 DL	mg/kg			
CSA	*3*	*4820 Massachusetts Avenue, Lot 8*						*No*	*No*
			OU5-CSA-3-L8-1	8/27/2002	4.4	mg/kg			
			OU5-CSA-3-L8-2	8/27/2002	4.3	mg/kg			
CSA	*4*	*4820 Upton Street*						*Yes*	*No*
			OU5-CSA-4-4820US-1	8/7/2001	4.1	mg/kg			
			OU5-CSA-4-4820US-2	8/7/2001	2.4	mg/kg			
			OU5-CSA-4-4820US-SB-DUP47	8/7/2001	2.9	mg/kg	OU5-CSA-4-4820US-SB1		
			OU5-CSA-4-4820US-SB1	8/7/2001	2.7	mg/kg			
			OU5-CSA-4-4820US-SB2	8/7/2001	1.2 J	mg/kg			
			OU5-CSA-4-4820US-SB3	8/7/2001	1.4 J	mg/kg			
			OU5-CSA-4-4820US-SB4	8/7/2001	0.79 J	mg/kg			
			OU5-CSA-4-4820US-SB5	8/7/2001	0.58 U	mg/kg			
			OU5-CSA-4-4820US-SB6	8/7/2001	0.55 U	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1D	4821 Rodman Street						Yes	No
			OU5-CTA-1D-4821RS-1	8/15/2001	4.9	mg/kg			
			OU5-CTA-1D-4821RS-2	8/15/2001	3.4	mg/kg			
			OU5-CTA-1D-4821RS-3	8/15/2001	2.9	mg/kg			
			OU5-CTA-1D-4821RS-4	8/15/2001	2.8	mg/kg			
			OU5-CTA-1D-4821RS-DUP54	8/15/2001	0.53 J	mg/kg	OU5-CTA-1D-4821RS-SB5		
			OU5-CTA-1D-4821RS-SB1	8/15/2001	3.2	mg/kg			
			OU5-CTA-1D-4821RS-SB2	8/15/2001	2.8	mg/kg			
			OU5-CTA-1D-4821RS-SB3	8/15/2001	2 J	mg/kg			
			OU5-CTA-1D-4821RS-SB4	8/15/2001	0.55 J	mg/kg			
			OU5-CTA-1D-4821RS-SB5	8/15/2001	0.59 J	mg/kg			
			OU5-CTA-1D-4821RS-SB6	8/15/2001	0.88 J	mg/kg			
CSA	3	4821 Upton Street						No	No
			OU5-CSA-3-4821US-1	11/8/2001	4.6	mg/kg			
			OU5-CSA-3-4821US-2	11/8/2001	4.7	mg/kg			
CSA	3	4821 Van Ness Street						No	No
			OU5-CSA-3-4821VNS-1	7/25/2001	2.3 J	mg/kg			
			OU5-CSA-3-4821VNS-2	7/25/2001	2.8 J	mg/kg			
			OU5-CSA-3-4821VNS-DUP29	7/25/2001	2.3 J	mg/kg	OU5-CSA-3-4821VNS-1		
CSA	10	4821 Woodway Lane						No	No
			OU5-CSA-10-4821WL-1	8/17/2001	2.8	mg/kg			
			OU5-CSA-10-4821WL-2	8/17/2001	4.1	mg/kg			
CSA	10	4822 Quebec Street						No	No
			OU5-CSA-10-4822QS-1	10/3/2001	4.2	mg/kg			
			OU5-CSA-10-4822QS-2	10/3/2001	3.5	mg/kg			
CTA	1D	4822 Rodman Street						No	No
			OU5-CTA-1D-4822RS-1	7/18/2001	12.2	mg/kg			
			OU5-CTA-1D-4822RS-2	7/18/2001	8	mg/kg			
			OU5-CTA-1D-4822RS-3	7/18/2001	8.5	mg/kg			
			OU5-CTA-1D-4822RS-4	7/18/2001	11.2	mg/kg			
			OU5-CTA-1D-4822RS-SB-1	7/18/2001	2.6	mg/kg			
			OU5-CTA-1D-4822RS-SB-2	7/18/2001	2.2	mg/kg			
			OU5-CTA-1D-4822RS-SB-3	7/18/2001	3.2	mg/kg			
			OU5-CTA-1D-4822RS-SB-4	7/18/2001	1.6 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4822RS-SB-5	7/18/2001	2 J	mg/kg			
			OU5-CTA-1D-4822RS-SB-6	7/18/2001	2.2 J	mg/kg			
CTA	*1D*	*4822 Tilden Street*						*No*	*No*
			OU5-CTA-1D-4822TS-1	7/16/2001	7.6	mg/kg			
			OU5-CTA-1D-4822TS-2	7/16/2001	3.9	mg/kg			
			OU5-CTA-1D-4822TS-3	7/16/2001	4.5	mg/kg			
			OU5-CTA-1D-4822TS-4	7/16/2001	5.2	mg/kg			
			OU5-CTA-1D-4822TS-SB1	7/16/2001	4.4	mg/kg			
			OU5-CTA-1D-4822TS-SB2	7/16/2001	2.4 J	mg/kg			
			OU5-CTA-1D-4822TS-SB3	7/16/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4822TS-SB4	7/16/2001	3.3	mg/kg			
			OU5-CTA-1D-4822TS-SB5	7/16/2001	0.61 J	mg/kg			
			OU5-CTA-1D-4822TS-SB6	7/16/2001	1.5 J	mg/kg			
CSA	*4*	*4822 Upton Street*						*No*	*No*
			OU5-CSA-4-4822US-1	7/13/2001	5.9	mg/kg			
			OU5-CSA-4-4822US-2	7/13/2001	9.6	mg/kg			
OU4	*OU4*	*4822 Woodway Lane*						*No*	*No*
			OU4-4822WL-1	1/7/2002	4	mg/kg			
			OU4-4822WL-2	1/7/2002	4	mg/kg			
			OU4-4822WL-3	1/7/2002	3.9	mg/kg			
			OU4-4822WL-4	1/7/2002	2.2 J	mg/kg			
			OU4-4822WL-SB-DUP02	1/7/2002	2.7	mg/kg	OU4-4822WL-SB2		
			OU4-4822WL-SB1	1/7/2002	2.6 J	mg/kg			
			OU4-4822WL-SB2	1/7/2002	3.6	mg/kg			
			OU4-4822WL-SB3	1/7/2002	2.5	mg/kg			
			OU4-4822WL-SB4	1/7/2002	3.7	mg/kg			
			OU4-4822WL-SB5	1/7/2002	3.4	mg/kg			
			OU4-4822WL-SB6	1/7/2002	2.9	mg/kg			
			OU4-4822WL-SBB5	1/7/2002	2.2	mg/kg			
			OU4-4822WL-SBB6	1/7/2002	2.7	mg/kg			
CTA	*1D*	*4823 Sedgwick Street*						*No*	*No*
			OU5-CTA-1D-4823SegS-1	7/16/2001	6.1	mg/kg			
			OU5-CTA-1D-4823SegS-2	7/16/2001	4.6	mg/kg			
			OU5-CTA-1D-4823SegS-3	7/16/2001	3.1	mg/kg			
			OU5-CTA-1D-4823SegS-4	7/16/2001	4.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4823SegS-SB-DUP32	7/16/2001	0.75 J	mg/kg	OU5-CTA-1D-4823SegS-SB6		
			OU5-CTA-1D-4823SegS-SB1	7/16/2001	2.4	mg/kg			
			OU5-CTA-1D-4823SegS-SB2	7/16/2001	1.3 J	mg/kg			
			OU5-CTA-1D-4823SegS-SB3	7/16/2001	2.3 J	mg/kg			
			OU5-CTA-1D-4823SegS-SB4	7/16/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4823SegS-SB5	7/16/2001	0.63 U	mg/kg			
			OU5-CTA-1D-4823SegS-SB6	7/16/2001	1.5 J	mg/kg			
CSA	*4*	*4823 Tilden Street*						*No*	*No*
			OU5-CSA-4-4823TS-1	10/12/2001	3.5	mg/kg			
			OU5-CSA-4-4823TS-2	10/12/2001	4.6	mg/kg			
CSA	*4*	*4824 Upton Street*						*No*	*No*
			OU5-CSA-4-4824US-1	8/17/2001	3.5	mg/kg			
			OU5-CSA-4-4824US-2	8/17/2001	2.8	mg/kg			
CSA	*10*	*4825 Quebec Street*						*Yes*	*No*
			OU5-CSA-10-4825QS-1	9/7/2001	4.4	mg/kg			
			OU5-CSA-10-4825QS-2	9/7/2001	3.2	mg/kg			
			OU5-CSA-10-4825QS-SB1	9/7/2001	5.8	mg/kg			
			OU5-CSA-10-4825QS-SB10	9/7/2001	4	mg/kg			
			OU5-CSA-10-4825QS-SB2	9/7/2001	1.8 J	mg/kg			
			OU5-CSA-10-4825QS-SB3	9/7/2001	1.8 J	mg/kg			
			OU5-CSA-10-4825QS-SB4	9/7/2001	1.4 J	mg/kg			
			OU5-CSA-10-4825QS-SB5	9/7/2001	1 J	mg/kg			
			OU5-CSA-10-4825QS-SB6	9/7/2001	3.9	mg/kg			
			OU5-CSA-10-4825QS-SB7	9/7/2001	4.5	mg/kg			
			OU5-CSA-10-4825QS-SB8	9/7/2001	4.3	mg/kg			
			OU5-CSA-10-4825QS-SB9	9/7/2001	4.6	mg/kg			
CTA	*1D*	*4825 Rodman Street*						*Yes*	*No*
			OU5-CTA-1D-4825RS-1	7/11/2001	5.7	mg/kg			
			OU5-CTA-1D-4825RS-2	7/11/2001	3.5	mg/kg			
			OU5-CTA-1D-4825RS-3	7/11/2001	4.6	mg/kg			
			OU5-CTA-1D-4825RS-4	7/11/2001	4.6	mg/kg			
			OU5-CTA-1D-4825RS-SB-1	7/11/2001	2 J	mg/kg			
			OU5-CTA-1D-4825RS-SB-2	7/11/2001	1.7 J	mg/kg			
			OU5-CTA-1D-4825RS-SB-3	7/11/2001	1 J	mg/kg			
			OU5-CTA-1D-4825RS-SB-4	7/11/2001	0.71 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4825RS-SB-5	7/11/2001	1.8 J	mg/kg			
			OU5-CTA-1D-4825RS-SB-6	7/11/2001	0.92 J	mg/kg			
			OU5-CTA-1D-4825RS-SB-DUP28	7/11/2001	0.77 J	mg/kg	OU5-CTA-1D-4825RS-SB-4		
CSA	*10*	*4825 Woodway Lane*						*Yes*	*No*
			OU5-CSA-10-4825WL-1	10/22/2001	3.8	mg/kg			
			OU5-CSA-10-4825WL-2	10/22/2001	3.5	mg/kg			
			OU5-CSA-10-4825WL-DUP76	10/22/2001	3.7	mg/kg	OU5-CSA-10-4825WL-2		
			OU5-CSA-10-4825WL-SB1	10/22/2001	3.1	mg/kg			
			OU5-CSA-10-4825WL-SB2	10/22/2001	3.4	mg/kg			
			OU5-CSA-10-4825WL-SB3	10/22/2001	2.9	mg/kg			
			OU5-CSA-10-4825WL-SB4	10/22/2001	1.9 J	mg/kg			
			OU5-CSA-10-4825WL-SB5	10/22/2001	3.1	mg/kg			
			OU5-CSA-10-4825WL-SB6	10/22/2001	2.4	mg/kg			
CTA	*1D*	*4826 Sedgwick Street*						*Yes*	*No*
			OU5-CTA-1D-4826SegS-1	7/10/2001	6.5	mg/kg			
			OU5-CTA-1D-4826SegS-2	7/10/2001	4.6	mg/kg			
			OU5-CTA-1D-4826SegS-3	7/10/2001	4.5	mg/kg			
			OU5-CTA-1D-4826SegS-4	7/10/2001	8	mg/kg			
			OU5-CTA-1D-4826SegS-SB1	7/10/2001	4.5	mg/kg			
			OU5-CTA-1D-4826SegS-SB2	7/10/2001	5.2	mg/kg			
			OU5-CTA-1D-4826SegS-SB3	7/10/2001	3.4	mg/kg			
			OU5-CTA-1D-4826SegS-SB4	7/10/2001	2.3	mg/kg			
			OU5-CTA-1D-4826SegS-SB5	7/10/2001	1.3 J	mg/kg			
			OU5-CTA-1D-4826SegS-SB6	7/10/2001	1.7 J	mg/kg			
CTA	*1D*	*4827 Sedgwick Street*						*Yes*	*No*
			OU5-CTA-1D-4827SegS-1	8/29/2001	5.6 K	mg/kg			
			OU5-CTA-1D-4827SegS-2	8/29/2001	7.7 K	mg/kg			
			OU5-CTA-1D-4827SegS-3	8/29/2001	11.3 K	mg/kg			
			OU5-CTA-1D-4827SegS-4	8/29/2001	7.6 K	mg/kg			
			OU5-CTA-1D-4827SegS-DUP63	8/29/2001	1.8 JK	mg/kg	OU5-CTA-1D-4827SegS-SB6		
			OU5-CTA-1D-4827SegS-SB1	8/29/2001	2.9 K	mg/kg			
			OU5-CTA-1D-4827SegS-SB2	8/29/2001	1.4 JK	mg/kg			
			OU5-CTA-1D-4827SegS-SB3	8/29/2001	2.4 K	mg/kg			
			OU5-CTA-1D-4827SegS-SB4	8/29/2001	3.2 K	mg/kg			
			OU5-CTA-1D-4827SegS-SB5	8/29/2001	2.5 K	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4827SegS-SB6	8/29/2001	1.5 JK	mg/kg			
CSA	10	4828 Quebec Street						No	No
			OU5-CSA-10-4828QS-1	7/6/2001	5.1	mg/kg			
			OU5-CSA-10-4828QS-2	7/6/2001	10.6	mg/kg			
CTA	1D	4828 Rodman Street						No	Yes
			OU5-CTA-1D-4828RS-1	8/14/2001	7.7	mg/kg			
			OU5-CTA-1D-4828RS-2	8/14/2001	13.4	mg/kg			
			OU5-CTA-1D-4828RS-3	8/14/2001	7.9	mg/kg			
			OU5-CTA-1D-4828RS-4	8/14/2001	6.3	mg/kg			
			OU5-CTA-1D-4828RS-SB1	8/14/2001	0.74 J	mg/kg			
			OU5-CTA-1D-4828RS-SB2	8/14/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4828RS-SB3	8/14/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4828RS-SB4	8/14/2001	0.41 U	mg/kg			
			OU5-CTA-1D-4828RS-SB5	8/14/2001	0.43 J	mg/kg			
			OU5-CTA-1D-4828RS-SB6	8/14/2001	0.58 J	mg/kg			
CSA	4	4828 Upton Street						No	No
			OU5-CSA-4-4828US-1	8/31/2001	7.4	mg/kg			
			OU5-CSA-4-4828US-2	8/31/2001	6.7	mg/kg			
OU4	OU4	4828 Woodway Lane						No	No
			OU4-4828WL-1	9/12/2000	4.23 B	mg/kg			
			OU4-4828WL-2	9/12/2000	4.41 B	mg/kg			
			OU4-4828WL-3	9/12/2000	3.7 B	mg/kg			
			OU4-4828WL-4	9/12/2000	4.88 B	mg/kg			
			OU4-4828WL-SB-1	9/12/2000	3.27 B	mg/kg			
			OU4-4828WL-SB-2	9/12/2000	2.78 B	mg/kg			
			OU4-4828WL-SB-3	9/12/2000	3.55 B	mg/kg			
			OU4-4828WL-SB-4	9/12/2000	2 B	mg/kg			
			OU4-4828WL-SB-5	9/12/2000	2.26 B	mg/kg			
			OU4-4828WL-SB-6	9/12/2000	2.23 B	mg/kg			
CSA	3	4829 Upton Street						No	No
			OU5-CSA-3-4829US-1	7/27/2001	3	mg/kg			
			OU5-CSA-3-4829US-2	7/27/2001	5.5	mg/kg			
			OU5-CSA-3-4829US-DUP34	7/27/2001	4.1	mg/kg	OU5-CSA-3-4829US-2		

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	12	4830 Rockwood Parkway						No	No
			OU5-CSA-12-4830RP-1	7/27/2001	3.5	mg/kg			
			OU5-CSA-12-4830RP-2	7/27/2001	4.4	mg/kg			
CTA	1D	4830 Tilden Street						No	No
			OU5-CTA-1D-4830TS-1	8/1/2001	3.2	mg/kg			
			OU5-CTA-1D-4830TS-1a	6/13/2001	2.4 J	mg/kg			
			OU5-CTA-1D-4830TS-2	8/1/2001	4.6	mg/kg			
			OU5-CTA-1D-4830TS-2a	6/13/2001	3.1	mg/kg			
			OU5-CTA-1D-4830TS-3	8/1/2001	3.5	mg/kg			
			OU5-CTA-1D-4830TS-4	8/1/2001	2.3 J	mg/kg			
			OU5-CTA-1D-4830TS-SB-1	8/1/2001	2.8	mg/kg			
			OU5-CTA-1D-4830TS-SB-2	8/1/2001	2.5	mg/kg			
			OU5-CTA-1D-4830TS-SB-3	8/1/2001	2.5	mg/kg			
			OU5-CTA-1D-4830TS-SB-4	8/1/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4830TS-SB-5	8/1/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4830TS-SB-6	8/1/2001	0.88 J	mg/kg			
			OU5-CTA-1D-4830TS-SB-DUP46	8/1/2001	1.4 J	mg/kg	OU5-CTA-1D-4830TS-SB-5		
OU4	OU4	4831 Indian Lane						No	No
			OU4-4831IL-SB-1	11/1/2000	4.67 DJ	mg/kg			
			OU4-4831IL-SB-2	11/1/2000	1.6 DJ	mg/kg			
			OU4-4831IL-SB-3	11/1/2000	3.01 DJ	mg/kg			
			OU4-4831IL-SB-4	11/1/2000	1.71 DJ	mg/kg			
			OU4-4831IL-SB-5	11/1/2000	1.04 DJ	mg/kg			
			OU4-4831IL-SB-6	11/1/2000	1.15 UJ	mg/kg			
			OU4-4831IL-SB-DUP 13	11/1/2000	2.74 DJ	mg/kg	OU4-4831IL-SB-3		
CSA	10	4831 Quebec Street						Yes	No
			OU5-CSA-10-4831QS-1	8/3/2001	3.7	mg/kg			
			OU5-CSA-10-4831QS-2	8/3/2001	3.9	mg/kg			
			OU5-CSA-10-4831QS-SBA1	9/7/2001	1.4 J	mg/kg			
			OU5-CSA-10-4831QS-SBA2	9/7/2001	4	mg/kg			
			OU5-CSA-10-4831QS-SBA3	9/7/2001	2.5	mg/kg			
			OU5-CSA-10-4831QS-SBA4	9/7/2001	1.3 J	mg/kg			
			OU5-CSA-10-4831QS-SBA5	9/7/2001	2.4	mg/kg			
			OU5-CSA-10-4831QS-SBA6	9/7/2001	1.3 J	mg/kg			
			OU5-CSA-10-4831QS-SBA7	9/7/2001	1.6 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-10-4831QS-SBB1	9/7/2001	4.2	mg/kg			
			OU5-CSA-10-4831QS-SBB2	9/7/2001	0.82 J	mg/kg			
			OU5-CSA-10-4831QS-SBB3	9/7/2001	0.87 J	mg/kg			
			OU5-CSA-10-4831QS-SBB4	9/7/2001	0.98 J	mg/kg			
			OU5-CSA-10-4831QS-SBB5	9/7/2001	1.3 J	mg/kg			
			OU5-CSA-10-4831QS-SBB6	9/7/2001	1.1 J	mg/kg			
CTA	*1D*	*4831 Sedgwick Street*						*Yes*	*No*
			OU5-CTA-1D-4831SegS-1	7/10/2001	5.2	mg/kg			
			OU5-CTA-1D-4831SegS-2	7/10/2001	4.5	mg/kg			
			OU5-CTA-1D-4831SegS-3	7/10/2001	3.4	mg/kg			
			OU5-CTA-1D-4831SegS-4	7/10/2001	5.5	mg/kg			
			OU5-CTA-1D-4831SegS-DUP19	7/10/2001	3.6	mg/kg	OU5-CTA-1D-4831SegS-3		
			OU5-CTA-1D-4831SegS-SB-1	7/10/2001	3.7	mg/kg			
			OU5-CTA-1D-4831SegS-SB-2	7/10/2001	4.6 J	mg/kg			
			OU5-CTA-1D-4831SegS-SB-3	7/10/2001	3.7 J	mg/kg			
			OU5-CTA-1D-4831SegS-SB-4	7/10/2001	4.4 J	mg/kg			
			OU5-CTA-1D-4831SegS-SB-5	7/10/2001	2.3 J	mg/kg			
			OU5-CTA-1D-4831SegS-SB-6	7/10/2001	1.8 J	mg/kg			
CSA	*4*	*4831 Tilden Street*						*No*	*No*
			OU5-CSA-4-4831TS-1	10/12/2001	2.7 J	mg/kg			
			OU5-CSA-4-4831TS-2	10/12/2001	2.5 J	mg/kg			
CSA	*3*	*4832 Van Ness Street*						*Yes*	*No*
			OU5-CSA-3-4832VNS-1	8/7/2001	2.6	mg/kg			
			OU5-CSA-3-4832VNS-2	8/7/2001	3.2	mg/kg			
			OU5-CSA-3-4832VNS-SB1	8/7/2001	1.6 J	mg/kg			
			OU5-CSA-3-4832VNS-SB2	8/7/2001	2.8	mg/kg			
			OU5-CSA-3-4832VNS-SB3	8/7/2001	0.63 J	mg/kg			
			OU5-CSA-3-4832VNS-SB4	8/7/2001	2.9	mg/kg			
			OU5-CSA-3-4832VNS-SB5	8/7/2001	0.62 U	mg/kg			
			OU5-CSA-3-4832VNS-SB6	8/7/2001	0.7 J	mg/kg			
CSA	*12*	*4833 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4833RP-1	8/3/2001	4.7	mg/kg			
			OU5-CSA-12-4833RP-2	8/3/2001	6.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1D	4833 Rodman Street						Yes	No
			OU5-CTA-1D-4833RS-1	7/10/2001	6.1	mg/kg			
			OU5-CTA-1D-4833RS-2	7/10/2001	5.6	mg/kg			
			OU5-CTA-1D-4833RS-3	7/10/2001	3.8	mg/kg			
			OU5-CTA-1D-4833RS-4	7/10/2001	3.1	mg/kg			
			OU5-CTA-1D-4833RS-SB1	7/10/2001	4.3	mg/kg			
			OU5-CTA-1D-4833RS-SB2	7/10/2001	3.9	mg/kg			
			OU5-CTA-1D-4833RS-SB3	7/10/2001	2.6	mg/kg			
			OU5-CTA-1D-4833RS-SB4	7/10/2001	2.8	mg/kg			
			OU5-CTA-1D-4833RS-SB5	7/10/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4833RS-SB6	7/10/2001	0.87 J	mg/kg			
CSA	3	4833 Upton Street						No	No
			OU5-CSA-3-4833US-1	8/10/2001	4.1	mg/kg			
			OU5-CSA-3-4833US-2	8/10/2001	3.2	mg/kg			
CSA	10	4834 Quebec Street						No	Yes + 1' arsenic boring
			OU5-CSA-10-4834QS-1	11/14/2001	13.9	mg/kg			
			OU5-CSA-10-4834QS-2	11/14/2001	4.6	mg/kg			
CTA	1D	4834 Rodman Street						No	Yes
			OU5-CTA-1D-4834RS-1	7/18/2001	11.4	mg/kg			
			OU5-CTA-1D-4834RS-2	7/18/2001	13.3	mg/kg			
			OU5-CTA-1D-4834RS-3	7/18/2001	10.9	mg/kg			
			OU5-CTA-1D-4834RS-4	7/18/2001	8	mg/kg			
			OU5-CTA-1D-4834RS-SB-1	7/18/2001	2.3	mg/kg			
			OU5-CTA-1D-4834RS-SB-2	7/18/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4834RS-SB-3	7/18/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4834RS-SB-4	7/18/2001	0.96 J	mg/kg			
			OU5-CTA-1D-4834RS-SB-5	7/18/2001	0.82 J	mg/kg			
			OU5-CTA-1D-4834RS-SB-6	7/18/2001	1.3 J	mg/kg			
CTA	1D	4834 Sedgwick Street						Yes	No
			OU5-CTA-1D-4834SegS-1	7/10/2001	6	mg/kg			
			OU5-CTA-1D-4834SegS-2	7/10/2001	4.8	mg/kg			
			OU5-CTA-1D-4834SegS-3	7/10/2001	6	mg/kg			
			OU5-CTA-1D-4834SegS-4	7/10/2001	6	mg/kg			
			OU5-CTA-1D-4834SegS-DUP17	7/10/2001	4.2	mg/kg	OU5-CTA-1D-4834SegS-1		

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4834SegS-SB-DUP26	7/10/2001	3.2	mg/kg	OU5-CTA-1D-4834SegS-SB7		
			OU5-CTA-1D-4834SegS-SB1	7/10/2001	2.4 J	mg/kg			
			OU5-CTA-1D-4834SegS-SB10	7/10/2001	1.8 J	mg/kg			
			OU5-CTA-1D-4834SegS-SB2	7/10/2001	4	mg/kg			
			OU5-CTA-1D-4834SegS-SB3	7/10/2001	3.4	mg/kg			
			OU5-CTA-1D-4834SegS-SB4	7/10/2001	4.2	mg/kg			
			OU5-CTA-1D-4834SegS-SB5	7/10/2001	4.2	mg/kg			
			OU5-CTA-1D-4834SegS-SB6	7/10/2001	3	mg/kg			
			OU5-CTA-1D-4834SegS-SB7	7/10/2001	2.9	mg/kg			
			OU5-CTA-1D-4834SegS-SB8	7/10/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4834SegS-SB9	7/10/2001	0.7 J	mg/kg			
CTA	*1D*	*4835 Sedgwick Street*						*Yes*	*No*
			OU5-CTA-1D-4835SegS-1	7/10/2001	4	mg/kg			
			OU5-CTA-1D-4835SegS-2	7/10/2001	3.9	mg/kg			
			OU5-CTA-1D-4835SegS-3	7/10/2001	8.2	mg/kg			
			OU5-CTA-1D-4835SegS-4	7/10/2001	7.8	mg/kg			
			OU5-CTA-1D-4835SegS-SB-1	7/10/2001	3.1	mg/kg			
			OU5-CTA-1D-4835SegS-SB-2	7/10/2001	3.9	mg/kg			
			OU5-CTA-1D-4835SegS-SB-3	7/10/2001	3.2	mg/kg			
			OU5-CTA-1D-4835SegS-SB-4	7/10/2001	2.3 J	mg/kg			
			OU5-CTA-1D-4835SegS-SB-5	7/10/2001	2.4 J	mg/kg			
			OU5-CTA-1D-4835SegS-SB-6	7/10/2001	3.1	mg/kg			
			OU5-CTA-1D-4835SegS-SB-7	7/10/2001	1.3 J	mg/kg			
			OU5-CTA-1D-4835SegS-SB-8	7/10/2001	1.5 J	mg/kg			
CSA	*3*	*4835 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4835VNS-1	7/27/2001	3.6	mg/kg			
			OU5-CSA-3-4835VNS-2	7/27/2001	4.3	mg/kg			
			OU5-CSA-3-4835VNS-DUP35	7/27/2001	3.8	mg/kg	OU5-CSA-3-4835VNS-2		
CSA	*3*	*4836 Van Ness Street*						*No*	*No*
			OU5-CSA-3-4836VNS-1	11/9/2001	2.7	mg/kg			
			OU5-CSA-3-4836VNS-2	11/9/2001	4.1	mg/kg			
CSA	*12*	*4837 Loughboro Road*						*No*	*No*
			OU5-CSA-12-4837LR-1	7/27/2001	3.5	mg/kg			
			OU5-CSA-12-4837LR-2	7/27/2001	4.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	4	4837 Tilden Street							No	No
			OU5-CSA-4-4837TS-1	11/8/2001	4		mg/kg			
			OU5-CSA-4-4837TS-2	11/8/2001	2.8		mg/kg			
			OU5-CSA-4-4837TS-DUP85	11/8/2001	2.4	J	mg/kg	OU5-CSA-4-4837TS-2		
CSA	12	4838 Rockwood Parkway							No	No
			OU5-CSA-12-4838RP-1	8/17/2001	8		mg/kg			
			OU5-CSA-12-4838RP-2	8/17/2001	4.1		mg/kg			
CTA	1D	4838 Rodman Street							No	No
			OU5-CTA-1D-4838RS-1	7/12/2001	6.9		mg/kg			
			OU5-CTA-1D-4838RS-2	7/12/2001	9.6		mg/kg			
			OU5-CTA-1D-4838RS-3	7/12/2001	9.5		mg/kg			
			OU5-CTA-1D-4838RS-4	7/12/2001	3.8		mg/kg			
			OU5-CTA-1D-4838RS-SB1	7/12/2001	1.9	J	mg/kg			
			OU5-CTA-1D-4838RS-SB2	7/12/2001	3.1		mg/kg			
			OU5-CTA-1D-4838RS-SB3	7/12/2001	1.3	J	mg/kg			
			OU5-CTA-1D-4838RS-SB4	7/12/2001	0.66	J	mg/kg			
			OU5-CTA-1D-4838RS-SB5	7/12/2001	0.59	U	mg/kg			
			OU5-CTA-1D-4838RS-SB6	7/12/2001	1.5	J	mg/kg			
CTA	1D	4838 Tilden Street							No	No
			OU5-CTA-1D-4838TS-1	10/23/2001	4.8		mg/kg			
			OU5-CTA-1D-4838TS-2	10/23/2001	3		mg/kg			
			OU5-CTA-1D-4838TS-3	10/23/2001	2.6		mg/kg			
			OU5-CTA-1D-4838TS-4	10/23/2001	4.5		mg/kg			
			OU5-CTA-1D-4838TS-SB1	10/23/2001	4.6		mg/kg			
			OU5-CTA-1D-4838TS-SB2	10/23/2001	1.9	J	mg/kg			
			OU5-CTA-1D-4838TS-SB3	10/23/2001	1.1	J	mg/kg			
			OU5-CTA-1D-4838TS-SB4	10/23/2001	1.9	J	mg/kg			
			OU5-CTA-1D-4838TS-SB5	10/23/2001	1.7	J	mg/kg			
			OU5-CTA-1D-4838TS-SB6	10/23/2001	1.5	J	mg/kg			
CSA	3	4838 Van Ness Street							No	No
			OU5-CSA-3-4838VNS-1	9/19/2001	5.1	J	mg/kg			
			OU5-CSA-3-4838VNS-2	9/19/2001	5.1	J	mg/kg			
OU4	OU4	4839 Indian Lane							No	No
			OU4-4839IL-1	5/1/2002	11.1		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4839IL-2	5/1/2002	4.9		mg/kg			
			OU4-4839IL-3	5/1/2002	3.4		mg/kg			
			OU4-4839IL-4	5/1/2002	3.8		mg/kg			
			OU4-4839IL-SB1	5/1/2002	4		mg/kg			
			OU4-4839IL-SB2	5/1/2002	1.8		mg/kg			
			OU4-4839IL-SB3	5/1/2002	3.6		mg/kg			
			OU4-4839IL-SB4	5/1/2002	2.5		mg/kg			
			OU4-4839IL-SB5	5/1/2002	2.2		mg/kg			
			OU4-4839IL-SB6	5/1/2002	1.3	J	mg/kg			
CSA	*3*	*4839 Upton Street*							*No*	*No*
			OU5-CSA-3-4839US-1	10/12/2001	4.7		mg/kg			
			OU5-CSA-3-4839US-2	10/12/2001	2.4	J	mg/kg			
			OU5-CSA-3-4839US-DUP75	10/12/2001	2.6		mg/kg	OU5-CSA-3-4839US-2		
OU4	*OU4*	*4840 Glenbrook Road*							*No*	*No*
			OU4-4840GR-1	10/23/2001	4		mg/kg			
			OU4-4840GR-2	10/23/2001	3.9		mg/kg			
			OU4-4840GR-3	10/23/2001	3.4		mg/kg			
			OU4-4840GR-4	10/23/2001	3.4		mg/kg			
			OU4-4840GR-SB1	10/23/2001	2.7		mg/kg			
			OU4-4840GR-SB2	10/23/2001	3.1		mg/kg			
			OU4-4840GR-SB3	10/23/2001	0.57	J	mg/kg			
			OU4-4840GR-SB4	10/23/2001	0.36	U	mg/kg			
			OU4-4840GR-SB5	10/23/2001	0.4	J	mg/kg			
			OU4-4840GR-SB6	10/23/2001	0.39	U	mg/kg			
			OU4-CSA-12-4840GR-1	10/3/2001	3.4		mg/kg			
			OU4-CSA-12-4840GR-2	10/3/2001	4.4		mg/kg			
CSA	*10*	*4840 Quebec Street*							*No*	*No*
			OU5-CSA-10-4840QS-1	10/3/2001	5.6		mg/kg			
			OU5-CSA-10-4840QS-2	10/3/2001	6.6		mg/kg			
CTA	*1D*	*4840 Rodman Street*							*No*	*No*
			OU5-CTA-1D-4840RS-1	7/12/2001	4.5		mg/kg			
			OU5-CTA-1D-4840RS-2	7/12/2001	2.9		mg/kg			
			OU5-CTA-1D-4840RS-3	7/12/2001	4.3		mg/kg			
			OU5-CTA-1D-4840RS-4	7/12/2001	3.7		mg/kg			
			OU5-CTA-1D-4840RS-SB-1	7/12/2001	2.9		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4840RS-SB-2	7/12/2001	0.77 J	mg/kg			
			OU5-CTA-1D-4840RS-SB-3	7/12/2001	2.2 J	mg/kg			
			OU5-CTA-1D-4840RS-SB-4	7/12/2001	1.4 J	mg/kg			
			OU5-CTA-1D-4840RS-SB-5	7/12/2001	1.7 J	mg/kg			
			OU5-CTA-1D-4840RS-SB-6	7/12/2001	1 J	mg/kg			
			OU5-CTA-1D-4840RS-SB-DUP29	7/12/2001	1.6 J	mg/kg	OU5-CTA-1D-4840RS-SB-5		
CTA	***1D***	***4840 Sedgwick Street***						***Yes***	***No***
			OU5-CTA-1D-4840SegS-1	7/10/2001	2.6 J	mg/kg			
			OU5-CTA-1D-4840SegS-2	7/10/2001	3.1	mg/kg			
			OU5-CTA-1D-4840SegS-3	7/10/2001	6.9	mg/kg			
			OU5-CTA-1D-4840SegS-4	7/10/2001	3.4	mg/kg			
			OU5-CTA-1D-4840SegS-SB-1	7/10/2001	2.2 J	mg/kg			
			OU5-CTA-1D-4840SegS-SB-2	7/10/2001	3.6	mg/kg			
			OU5-CTA-1D-4840SegS-SB-3	7/10/2001	4.7	mg/kg			
			OU5-CTA-1D-4840SegS-SB-4	7/10/2001	6.1	mg/kg			
			OU5-CTA-1D-4840SegS-SB-5	7/10/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4840SegS-SB-6	7/10/2001	1.5 J	mg/kg			
CSA	***3***	***4840 Van Ness Street***						***No***	***No***
			OU5-CSA-3-4840VNS-1	8/10/2001	3	mg/kg			
			OU5-CSA-3-4840VNS-2	8/10/2001	3.5	mg/kg			
CTA	***1D***	***4841 Rodman Street***						***Yes***	***No***
			OU5-CTA-1D-4841RS-1	7/31/2001	4.1	mg/kg			
			OU5-CTA-1D-4841RS-2	7/31/2001	4.1	mg/kg			
			OU5-CTA-1D-4841RS-3	7/31/2001	3.7	mg/kg			
			OU5-CTA-1D-4841RS-4	7/31/2001	3.9	mg/kg			
			OU5-CTA-1D-4841RS-SB-1	7/31/2001	3.5	mg/kg			
			OU5-CTA-1D-4841RS-SB-2	7/31/2001	1.2 J	mg/kg			
			OU5-CTA-1D-4841RS-SB-3	7/31/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4841RS-SB-4	7/31/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4841RS-SB-5	7/31/2001	0.88 J	mg/kg			
			OU5-CTA-1D-4841RS-SB-6	7/31/2001	1.8 J	mg/kg			
CTA	***1D***	***4841 Sedgwick Street***						***Yes***	***No***
			OU5-CTA-1D-4841SegS-1	7/5/2001	3.8	mg/kg			
			OU5-CTA-1D-4841SegS-2	7/5/2001	4	mg/kg			
			OU5-CTA-1D-4841SegS-3	7/5/2001	5.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4841SegS-4	7/5/2001	4.2		mg/kg			
			OU5-CTA-1D-4841SegS-DUP15	7/5/2001	4.1		mg/kg	OU5-CTA-1D-4841SegS-4		
			OU5-CTA-1D-4841SegS-SB1	7/5/2001	3.2		mg/kg			
			OU5-CTA-1D-4841SegS-SB2	7/5/2001	3.9		mg/kg			
			OU5-CTA-1D-4841SegS-SB3	7/5/2001	2.4		mg/kg			
			OU5-CTA-1D-4841SegS-SB4	7/5/2001	5.7		mg/kg			
			OU5-CTA-1D-4841SegS-SB5	7/5/2001	3.8		mg/kg			
			OU5-CTA-1D-4841SegS-SB6	7/5/2001	2.6		mg/kg			
			OU5-CTA-1D-4841SegS-SB7	7/5/2001	0.53	J	mg/kg			
			OU5-CTA-1D-4841SegS-SB8	7/5/2001	0.45	U	mg/kg			
CSA	*4*	*4841 Tilden Street*							*No*	*No*
			OU5-CSA-4-4841TS-1	11/8/2001	2.8	J	mg/kg			
			OU5-CSA-4-4841TS-2	11/8/2001	3.9	J	mg/kg			
CSA	*12*	*4842 Indian Lane, Lot 15*							*No*	*No*
			OU5-CSA-12-L15-1	1/9/2002	4.3		mg/kg			
			OU5-CSA-12-L15-2	1/9/2002	3.3		mg/kg			
			OU5-CSA-12-L15-DUP101	1/9/2002	4.1		mg/kg	OU5-CSA-12-L15-1		
CSA	*12*	*4842 Indian Lane, Lot 16*							*No*	*No*
			OU5-CSA-12-L16-1	1/9/2002	3.6		mg/kg			
			OU5-CSA-12-L16-2	1/9/2002	4.2		mg/kg			
CSA	*12*	*4842 Indian Lane, Lot 17*							*No*	*No*
			OU5-CSA-12-L17-1	1/9/2002	4.2		mg/kg			
			OU5-CSA-12-L17-2	1/9/2002	3.6		mg/kg			
CSA	*3*	*4842 Van Ness Street*							*No*	*No*
			OU5-CSA-3-4842VNS-1	11/19/2001	3.4		mg/kg			
			OU5-CSA-3-4842VNS-2	11/19/2001	4		mg/kg			
CSA	*10*	*4844 Quebec Street*							*Yes*	*No*
			OU5-CSA-10-4844QS-1	7/26/2001	4.7		mg/kg			
			OU5-CSA-10-4844QS-2	7/26/2001	7		mg/kg			
			OU5-CSA-10-4844QS-SB-1	7/26/2001	6.7		mg/kg			
			OU5-CSA-10-4844QS-SB-2	7/26/2001	5.5		mg/kg			
			OU5-CSA-10-4844QS-SB-3	7/26/2001	2.3	J	mg/kg			
			OU5-CSA-10-4844QS-SB-4	7/26/2001	1.3	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-10-4844QS-SB-5	7/26/2001	2 J	mg/kg			
			OU5-CSA-10-4844QS-SB-6	7/26/2001	1.9 J	mg/kg			
			OU5-CSA-10-4844QS-SB-DUP38	7/26/2001	1.2 J	mg/kg	OU5-CSA-10-4844QS-SB-5		
CSA	*12*	*4844 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4844RP-1	9/19/2001	3.9 J	mg/kg			
			OU5-CSA-12-4844RP-2	9/19/2001	4.3 J	mg/kg			
OU4	*OU4*	*4845 Glenbrook Road*						*No*	*No*
			OU4-4845GR-1	8/30/2000	5.86 DJ	mg/kg			
			OU4-4845GR-2	8/30/2000	5.39 DJ	mg/kg			
			OU4-4845GR-3	8/30/2000	7.31 DJ	mg/kg			
			OU4-4845GR-4	8/30/2000	6.11 DJ	mg/kg			
			OU4-4845GR-SB-1	8/30/2000	3.47 DJ	mg/kg			
			OU4-4845GR-SB-2	8/30/2000	3.92 DJ	mg/kg			
			OU4-4845GR-SB-3	8/30/2000	3.91 DL	mg/kg			
			OU4-4845GR-SB-4	8/30/2000	4.39 DL	mg/kg			
			OU4-4845GR-SB-5	8/30/2000	3.14 DL	mg/kg			
			OU4-4845GR-SB-6	8/30/2000	3.32 DL	mg/kg			
			OU4-4845GR-SB-7	8/30/2000	4.29 DL	mg/kg			
			OU4-4845GR-SB-DUP04	8/31/2000	3.78 DL	mg/kg			
CSA	*12*	*4845 Loughboro Road*						*No*	*No*
			OU5-CSA-12-4845LR-1	5/31/2001	2.3 J	mg/kg			
			OU5-CSA-12-4845LR-2	5/31/2001	2.9	mg/kg			
OU4	*OU4*	*4846 Glenbrook Road*						*No*	*No*
			OU4-4846GR-1	10/22/2001	5.9 J	mg/kg			
			OU4-4846GR-2	10/22/2001	7 J	mg/kg			
			OU4-4846GR-3	10/22/2001	7 J	mg/kg			
			OU4-4846GR-4	10/22/2001	6.2 J	mg/kg			
			OU4-4846GR-SB1	10/22/2001	2.6 J	mg/kg			
			OU4-4846GR-SB2	10/22/2001	0.7 J	mg/kg			
			OU4-4846GR-SB3	10/22/2001	0.59 J	mg/kg			
			OU4-4846GR-SB4	10/22/2001	0.38 UJ	mg/kg			
			OU4-4846GR-SB5	10/22/2001	0.46 J	mg/kg			
			OU4-4846GR-SB6	10/22/2001	0.37 UJ	mg/kg			
			OU4-CSA-12-4846GR-1	10/3/2001	8.8	mg/kg			
			OU4-CSA-12-4846GR-2	10/3/2001	4.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	3	4846 Van Ness Street						No	No
			OU5-CSA-3-4846VNS-1	8/17/2001	2.4 J	mg/kg			
			OU5-CSA-3-4846VNS-2	8/17/2001	2.9	mg/kg			
CTA	1D	4847 Sedgwick Street						Yes	Yes
			OU5-CTA-1D-4847SegS-1	7/10/2001	15.2	mg/kg			
			OU5-CTA-1D-4847SegS-2	7/10/2001	6.8	mg/kg			
			OU5-CTA-1D-4847SegS-3	7/10/2001	11.8	mg/kg			
			OU5-CTA-1D-4847SegS-4	7/10/2001	7.2	mg/kg			
			OU5-CTA-1D-4847SegS-SB-1	7/10/2001	2.9	mg/kg			
			OU5-CTA-1D-4847SegS-SB-10	7/10/2001	2.4 J	mg/kg			
			OU5-CTA-1D-4847SegS-SB-2	7/10/2001	2.5	mg/kg			
			OU5-CTA-1D-4847SegS-SB-3	7/10/2001	2.9	mg/kg			
			OU5-CTA-1D-4847SegS-SB-4	7/10/2001	4.7	mg/kg			
			OU5-CTA-1D-4847SegS-SB-5	7/10/2001	3.4	mg/kg			
			OU5-CTA-1D-4847SegS-SB-6	7/10/2001	4.3	mg/kg			
			OU5-CTA-1D-4847SegS-SB-7	7/10/2001	2.4 J	mg/kg			
			OU5-CTA-1D-4847SegS-SB-8	7/10/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4847SegS-SB-9	7/10/2001	1.9 J	mg/kg			
CSA	12	4848 Rockwood Parkway						No	No
			OU5-CSA-12-4848RP-1	7/25/2001	3.3	mg/kg			
			OU5-CSA-12-4848RP-2	7/25/2001	4.1	mg/kg			
CTA	1D	4848 Rodman Street						No	No
			OU5-CTA-1D-4848RS-1	8/27/2001	7.4	mg/kg			
			OU5-CTA-1D-4848RS-2	8/27/2001	9.4	mg/kg			
			OU5-CTA-1D-4848RS-3	8/27/2001	5.4	mg/kg			
			OU5-CTA-1D-4848RS-4	8/27/2001	7.7	mg/kg			
			OU5-CTA-1D-4848RS-SB1	8/27/2001	2.5	mg/kg			
			OU5-CTA-1D-4848RS-SB10	8/27/2001	3.5	mg/kg			
			OU5-CTA-1D-4848RS-SB2	8/27/2001	3	mg/kg			
			OU5-CTA-1D-4848RS-SB3	8/27/2001	2.5	mg/kg			
			OU5-CTA-1D-4848RS-SB4	8/27/2001	3.1	mg/kg			
			OU5-CTA-1D-4848RS-SB5	8/27/2001	2 J	mg/kg			
			OU5-CTA-1D-4848RS-SB6	8/27/2001	1.8 J	mg/kg			
			OU5-CTA-1D-4848RS-SB7	8/27/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4848RS-SB8	8/27/2001	2.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4848RS-SB9	8/27/2001	1.5 J	mg/kg			
CSA	3	4848 Van Ness Street						No	No
			OU5-CSA-3-4848VNS-1	11/9/2001	3.3	mg/kg			
			OU5-CSA-3-4848VNS-2	11/9/2001	3	mg/kg			
CSA	10	4849 Quebec Street						No	No
			OU5-CSA-10-4849QS-1	10/3/2001	4.1	mg/kg			
			OU5-CSA-10-4849QS-2	10/3/2001	2.5 J	mg/kg			
CTA	1D	4849 Rodman Street						No	Yes
			OU5-CTA-1D-4849RS-1	4/24/2002	19.3	mg/kg			
			OU5-CTA-1D-4849RS-2	4/24/2002	11.9	mg/kg			
			OU5-CTA-1D-4849RS-3	4/24/2002	12.8	mg/kg			
			OU5-CTA-1D-4849RS-4	4/24/2002	46.6	mg/kg			
			OU5-CTA-1D-4849RS-SB1	4/24/2002	2.9	mg/kg			
			OU5-CTA-1D-4849RS-SB2	4/24/2002	1.6 J	mg/kg			
			OU5-CTA-1D-4849RS-SB3	4/24/2002	1.3 J	mg/kg			
			OU5-CTA-1D-4849RS-SB4	4/24/2002	1.1 J	mg/kg			
			OU5-CTA-1D-4849RS-SB5	4/24/2002	0.29 U	mg/kg			
			OU5-CTA-1D-4849RS-SB6	4/24/2002	0.53 J	mg/kg			
CSA	3	4849 Upton Street						Yes	No
			OU5-CSA-3-4849-SB-DUP42	7/30/2001	1.6 J	mg/kg	OU5-CSA-3-4849US-SB-7		
			OU5-CSA-3-4849US-1	7/30/2001	3.4	mg/kg			
			OU5-CSA-3-4849US-2	7/30/2001	3.1	mg/kg			
			OU5-CSA-3-4849US-SB-1	7/30/2001	7.8	mg/kg			
			OU5-CSA-3-4849US-SB-2	7/30/2001	4.3	mg/kg			
			OU5-CSA-3-4849US-SB-3	7/30/2001	3.2	mg/kg			
			OU5-CSA-3-4849US-SB-4	7/30/2001	2.4	mg/kg			
			OU5-CSA-3-4849US-SB-5	7/30/2001	2.1 J	mg/kg			
			OU5-CSA-3-4849US-SB-6	7/30/2001	2.4	mg/kg			
			OU5-CSA-3-4849US-SB-7	7/30/2001	2.1 J	mg/kg			
			OU5-CSA-3-4849US-SB-8	7/30/2001	3.1	mg/kg			
OU4	OU4	4850 Glenbrook Road						No	No
			OU4-4850GR-1	7/1/2002	3.9	mg/kg			
			OU4-4850GR-2	7/1/2002	4	mg/kg			
			OU4-4850GR-3	7/1/2002	5.1	mg/kg			
			OU4-4850GR-4	7/1/2002	4.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4850GR-SB-DUP05	7/1/2002	1.5		mg/kg	OU4-4850GR-SB2		
			OU4-4850GR-SB1	7/1/2002	6		mg/kg			
			OU4-4850GR-SB2	7/1/2002	4		mg/kg			
			OU4-4850GR-SB3	7/1/2002	1.6	J	mg/kg			
			OU4-4850GR-SB4	7/1/2002	1.5	J	mg/kg			
			OU4-4850GR-SB5	7/1/2002	1.3	J	mg/kg			
			OU4-4850GR-SB6	7/1/2002	0.88	J	mg/kg			
CSA	*12*	*4850 Rockwood Parkway*							*No*	*Yes + specialty boring*
			OU5-CSA-12-4850RP-1	7/27/2001	18.4		mg/kg			
			OU5-CSA-12-4850RP-2	7/27/2001	84.2		mg/kg			
CTA	*1D*	*4850 Sedgwick Street*							*Yes*	*No*
			OU5-CTA-1D-4850SegS-1	8/21/2001	3.9		mg/kg			
			OU5-CTA-1D-4850SegS-2	8/21/2001	3.1		mg/kg			
			OU5-CTA-1D-4850SegS-3	8/21/2001	2.6		mg/kg			
			OU5-CTA-1D-4850SegS-4	8/21/2001	4.7		mg/kg			
			OU5-CTA-1D-4850SegS-SB1	8/21/2001	2.1	J	mg/kg			
			OU5-CTA-1D-4850SegS-SB2	8/21/2001	1.2	J	mg/kg			
			OU5-CTA-1D-4850SegS-SB3	8/21/2001	1	J	mg/kg			
			OU5-CTA-1D-4850SegS-SB4	8/21/2001	0.59	U	mg/kg			
			OU5-CTA-1D-4850SegS-SB5	8/21/2001	1.4	J	mg/kg			
			OU5-CTA-1D-4850SegS-SB6	8/21/2001	0.59	U	mg/kg			
OU4	*OU4*	*4851 Indian Lane*							*No*	*No*
			OU4-4851IL-1	6/27/2000	4.33	J	mg/kg			
			OU4-4851IL-2	6/27/2000	4.6	J	mg/kg			
			OU4-4851IL-3	6/27/2000	7.53	J	mg/kg			
			OU4-4851IL-4	6/27/2000	4.57	J	mg/kg			
			OU4-4851IL-SB-2	6/27/2000	2.82	J	mg/kg			
			OU4-4851IL-SB-4	6/27/2000	2.42	J	mg/kg			
			OU4-4851IL-SB-6	6/27/2000	1.33	J	mg/kg			
CSA	*4*	*4851 Tilden Street*							*No*	*No*
			OU5-CSA-4-4851TS-1	10/26/2001	4.2		mg/kg			
			OU5-CSA-4-4851TS-2	10/26/2001	4.4		mg/kg			
CSA	*12*	*4852 Indian Lane*							*No*	*No*
			OU5-CSA-12-4852IL-1	10/12/2001	2.8	J	mg/kg			
			OU5-CSA-12-4852IL-2	10/12/2001	4.5		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	12	4853 Loughboro Road						No	No
			OU5-CSA-12-4853LR-1	2/14/2002	3	mg/kg			
			OU5-CSA-12-4853LR-2	2/14/2002	2.9	mg/kg			
CSA	12	4853 Rockwood Parkway						No	No
			OU5-CSA-12-4853RP-1	7/27/2001	4	mg/kg			
			OU5-CSA-12-4853RP-2	7/27/2001	3.8	mg/kg			
CTA	1D	4853 Sedgwick Street						Yes	Yes
			OU5-CTA-1D-4851-53SegS-1	7/11/2001	8.5	mg/kg			
			OU5-CTA-1D-4851-53SegS-2	7/11/2001	5.9	mg/kg			
			OU5-CTA-1D-4851-53SegS-3	7/11/2001	6.4	mg/kg			
			OU5-CTA-1D-4851-53SegS-4	7/11/2001	17	mg/kg			
			OU5-CTA-1D-4851-53SegS-SB-DUP28	7/11/2001	2.3	mg/kg	OU5-CTA-1D-4851-53SegS-SB8		
			OU5-CTA-1D-4851-53SegS-SB1	7/11/2001	4.8	mg/kg			
			OU5-CTA-1D-4851-53SegS-SB2	7/11/2001	4.5	mg/kg			
			OU5-CTA-1D-4851-53SegS-SB3	7/11/2001	4.7	mg/kg			
			OU5-CTA-1D-4851-53SegS-SB4	7/11/2001	4.3	mg/kg			
			OU5-CTA-1D-4851-53SegS-SB5	7/11/2001	4.4	mg/kg			
			OU5-CTA-1D-4851-53SegS-SB6	7/11/2001	3.3	mg/kg			
			OU5-CTA-1D-4851-53SegS-SB7	7/11/2001	3.7	mg/kg			
			OU5-CTA-1D-4851-53SegS-SB8	7/11/2001	2.4	mg/kg			
			OU5-CTA-1D-4851-53SegS-SB9	7/11/2001	5.6	mg/kg			
OU4	OU4	4855 Glenbrook Road						No	No
			OU4-4855GR-1	10/6/2000	4.58 DJ	mg/kg			
			OU4-4855GR-2	10/6/2000	4.2 DJ	mg/kg			
			OU4-4855GR-3	10/6/2000	4.86 DJ	mg/kg			
			OU4-4855GR-4	10/6/2000	4.11 DJ	mg/kg			
			OU4-4855GR-DUP08	10/6/2000	4.81 DJ	mg/kg			
			OU4-4855GR-SB-1	10/6/2000	2.7 DJ	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4855GR-SB-2	10/6/2000	1.73 DJ	mg/kg			
			OU4-4855GR-SB-3	10/6/2000	2.26 DJ	mg/kg			
			OU4-4855GR-SB-4	10/6/2000	1.19 DJ	mg/kg			
			OU4-4855GR-SB-5	10/6/2000	1.48 DJ	mg/kg			
			OU4-4855GR-SB-6	10/6/2000	2.6 DJ	mg/kg			
CSA	*12*	*4856 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4856RP-1	7/27/2001	3.3	mg/kg			
			OU5-CSA-12-4856RP-2	7/27/2001	7.5	mg/kg			
			OU5-CSA-12-4856RP-DUP31	7/27/2001	6.6	mg/kg	OU5-CSA-12-4856RP-2		
CTA	*1D*	*4856 Sedgwick Street*						*Yes*	*No*
			OU5-CTA-1D-4856SegS-1	7/10/2001	3.5	mg/kg			
			OU5-CTA-1D-4856SegS-2	7/10/2001	4.5	mg/kg			
			OU5-CTA-1D-4856SegS-3	7/10/2001	7	mg/kg			
			OU5-CTA-1D-4856SegS-4	7/10/2001	4.9	mg/kg			
			OU5-CTA-1D-4856SegS-SB-1	7/10/2001	4	mg/kg			
			OU5-CTA-1D-4856SegS-SB-2	7/10/2001	0.85 J	mg/kg			
			OU5-CTA-1D-4856SegS-SB-3	7/10/2001	2 J	mg/kg			
			OU5-CTA-1D-4856SegS-SB-4	7/10/2001	4.3	mg/kg			
			OU5-CTA-1D-4856SegS-SB-5	7/10/2001	6.7	mg/kg			
			OU5-CTA-1D-4856SegS-SB-6	7/10/2001	4.3	mg/kg			
			OU5-CTA-1D-4856SegS-SB-7	7/10/2001	2.6 J	mg/kg			
			OU5-CTA-1D-4856SegS-SB-8	7/10/2001	1.7 J	mg/kg			
CSA	*12*	*4859 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4859RP-1	10/26/2001	2.9	mg/kg			
			OU5-CSA-12-4859RP-2	10/26/2001	3.2	mg/kg			
CSA	*3*	*4860 Massachusetts Avenue, Lot 7*						*Yes*	*No*
			OU5-CSA-3-L7-1	8/29/2002	5.8	mg/kg			
			OU5-CSA-3-L7-2	8/29/2002	4.7	mg/kg			
			OU5-CSA-3-L7-SB1	8/29/2002	5.1	mg/kg			
			OU5-CSA-3-L7-SB10	8/29/2002	3.3	mg/kg			
			OU5-CSA-3-L7-SB2	8/29/2002	5.9	mg/kg			
			OU5-CSA-3-L7-SB3	8/29/2002	7	mg/kg			
			OU5-CSA-3-L7-SB4	8/29/2002	7.7	mg/kg			
			OU5-CSA-3-L7-SB5	8/29/2002	10	mg/kg			
			OU5-CSA-3-L7-SB6	8/29/2002	5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-3-L7-SB7	8/29/2002	3.3	mg/kg			
			OU5-CSA-3-L7-SB8	8/29/2002	2.8	mg/kg			
			OU5-CSA-3-L7-SB9	8/29/2002	3.9	mg/kg			
CSA	*12*	*4860 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4860RP-1	10/4/2001	2.4 J	mg/kg			
			OU5-CSA-12-4860RP-2	10/4/2001	3.4	mg/kg			
OU4	*OU4*	*4861 Indian Lane*						*No*	*Yes*
			OU4-4861IL-1	9/1/2000	4.12 DJ	mg/kg			
			OU4-4861IL-2	9/1/2000	5.28 DJ	mg/kg			
			OU4-4861IL-3	9/1/2000	5.93 DJ	mg/kg			
			OU4-4861IL-4	9/1/2000	46.2 DJ	mg/kg			
			OU4-4861IL-DUP-01	2/1/2001	4.03 J	mg/kg			
			OU4-4861IL-DUP-03	2/1/2001	6.69 J	mg/kg			
			OU4-4861IL-SB-1	9/1/2000	3.01 DJ	mg/kg			
			OU4-4861IL-SB-10	9/1/2000	1.52 DJ	mg/kg			
			OU4-4861IL-SB-2	9/1/2000	1.18 DJ	mg/kg			
			OU4-4861IL-SB-3	9/1/2000	1.61 DJ	mg/kg			
			OU4-4861IL-SB-4	9/1/2000	2.18 DJ	mg/kg			
			OU4-4861IL-SB-5	9/1/2000	1.41 DJ	mg/kg			
			OU4-4861IL-SB-6	9/1/2000	0.94 JD	mg/kg			
			OU4-4861IL-SB-7	9/1/2000	1 U	mg/kg			
			OU4-4861IL-SB-8	9/1/2000	1.01 U	mg/kg			
			OU4-4861IL-SB-9	9/1/2000	0.97 U	mg/kg			
OU4	*OU4*	*4867 Glenbrook Road*						*No*	*No*
			OU4-4867GR-1	9/26/2000	5.2 DJ	mg/kg			
			OU4-4867GR-2	9/26/2000	4.02 DJ	mg/kg			
			OU4-4867GR-3	9/26/2000	3.63 DJ	mg/kg			
			OU4-4867GR-4	9/26/2000	4.88 DJ	mg/kg			
			OU4-4867GR-SB-1	9/26/2000	2.08 DJ	mg/kg			
			OU4-4867GR-SB-2	9/26/2000	1.19 DJ	mg/kg			
			OU4-4867GR-SB-3	9/26/2000	1.79 DJ	mg/kg			
			OU4-4867GR-SB-4	9/26/2000	1.88 DJ	mg/kg			
			OU4-4867GR-SB-5	9/26/2000	1.43 DJ	mg/kg			
			OU4-4867GR-SB-6	9/26/2000	2.27 DJ	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
OU4	OU4	4869 Glenbrook Road						No	No
			OU4-4869GR-1	9/6/2000	6.67 D	mg/kg			
			OU4-4869GR-2	9/6/2000	3.84 D	mg/kg			
			OU4-4869GR-3	9/6/2000	4.09 D	mg/kg			
			OU4-4869GR-4	9/6/2000	3.19 D	mg/kg			
			OU4-4869GR-SB-1	9/6/2000	4.02 B	mg/kg			
			OU4-4869GR-SB-2	9/6/2000	3.07 B	mg/kg			
			OU4-4869GR-SB-3	9/6/2000	3.68 B	mg/kg			
			OU4-4869GR-SB-4	9/6/2000	3.92 D	mg/kg			
			OU4-4869GR-SB-5	9/6/2000	2.1 D	mg/kg			
			OU4-4869GR-SB-6	9/6/2000	2.25 D	mg/kg			
			OU4-4869GR-SB-7	9/6/2000	2.2 D	mg/kg			
			OU4-4869GR-SB-8	9/6/2000	1.44 D	mg/kg			
			OU4-4869GR-SB-9	9/6/2000	0.48 U	mg/kg			
OU4	OU4	4871 Glenbrook Road						No	Yes
			OU4-4871GR-1	2/1/2001	4.86	mg/kg			
			OU4-4871GR-2	2/1/2001	20.2	mg/kg			
			OU4-4871GR-3	2/1/2001	6.42	mg/kg			
			OU4-4871GR-4	2/1/2001	3.99	mg/kg			
			OU4-4871GR-DUP01	4/17/2001	5	mg/kg			
			OU4-4871GR-DUP02	4/17/2001	7.1	mg/kg			
			OU4-4871GR-DUP03	4/17/2001	4.6	mg/kg			
			OU4-4871GR-SB-1	2/1/2001	5.04	mg/kg			
			OU4-4871GR-SB-2	2/1/2001	5.19	mg/kg			
			OU4-4871GR-SB-3	2/1/2001	5.3	mg/kg			
			OU4-4871GR-SB-4	2/1/2001	3.92	mg/kg			
			OU4-4871GR-SB-5	2/1/2001	2.79	mg/kg			
			OU4-4871GR-SB-6	2/1/2001	1.01	mg/kg			
			OU4-4871GR-SB-7	2/1/2001	0.67 UJ	mg/kg			
CSA	12	4875 Loughboro Road						No	No
			OU5-CSA-12-4875LR-1	11/16/2001	4.8	mg/kg			
			OU5-CSA-12-4875LR-2	11/16/2001	3.2	mg/kg			
OU4	OU4	4880 Glenbrook Road						No	No
			OU4-4880GR-1	9/27/2000	2.92 DJ	mg/kg			
			OU4-4880GR-2	9/27/2000	2.92 DJ	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4880GR-3	9/27/2000	3.62 DJ	mg/kg			
			OU4-4880GR-4	9/27/2000	4.62 DJ	mg/kg			
			OU4-4880GR-SB-1	9/27/2000	2.68 DJ	mg/kg			
			OU4-4880GR-SB-10	9/27/2000	0.89 DJ	mg/kg			
			OU4-4880GR-SB-2	9/27/2000	2.7 DJ	mg/kg			
			OU4-4880GR-SB-3	9/27/2000	1.96 DJ	mg/kg			
			OU4-4880GR-SB-4	9/27/2000	3.07 DJ	mg/kg			
			OU4-4880GR-SB-5	9/27/2000	2.8 DJ	mg/kg			
			OU4-4880GR-SB-6	9/27/2000	1.49 DJ	mg/kg			
			OU4-4880GR-SB-7	9/27/2000	1.45 DJ	mg/kg			
			OU4-4880GR-SB-8	9/27/2000	1.06 U	mg/kg			
			OU4-4880GR-SB-9	9/27/2000	1.09 U	mg/kg			
OU4	OU4	4900 Glenbrook Road						No	No
			OU4-4900GR-1	4/12/2001	9.4	mg/kg			
			OU4-4900GR-2	4/12/2001	4.6	mg/kg			
			OU4-4900GR-3	4/12/2001	3.6	mg/kg			
			OU4-4900GR-4	4/12/2001	5	mg/kg			
			OU4-4900GR-SB-1	4/12/2001	4	mg/kg			
			OU4-4900GR-SB-2	4/12/2001	1.5 J	mg/kg			
			OU4-4900GR-SB-3	4/12/2001	2 J	mg/kg			
			OU4-4900GR-SB-4	4/12/2001	1.9 J	mg/kg			
			OU4-4900GR-SB-5	4/12/2001	0.97 J	mg/kg			
			OU4-4900GR-SB-DUP02	4/12/2001	1.1 J	mg/kg	OU4-4900GR-SB-2		
OU4	OU4	4900 Hillbrook Lane						No	No
			OU4-4900HL-1	9/7/2000	5.64 B	mg/kg			
			OU4-4900HL-2	9/7/2000	1.79 B	mg/kg			
			OU4-4900HL-3	9/7/2000	3.51 B	mg/kg			
			OU4-4900HL-4	9/7/2000	4.5 B	mg/kg			
			OU4-4900HL-DUP05	9/7/2000	2.95 B	mg/kg			
			OU4-4900HL-SB-1	9/6/2000	3.59 B	mg/kg			
			OU4-4900HL-SB-10	9/6/2000	1.97 B	mg/kg			
			OU4-4900HL-SB-2	9/6/2000	4.39 B	mg/kg			
			OU4-4900HL-SB-3	9/6/2000	1.83 B	mg/kg			
			OU4-4900HL-SB-4	9/6/2000	1.8 B	mg/kg			
			OU4-4900HL-SB-5	9/6/2000	1.22 B	mg/kg			
			OU4-4900HL-SB-6	9/6/2000	1.47 B	mg/kg			
			OU4-4900HL-SB-7	9/6/2000	1.03 JB	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4900HL-SB-8	9/6/2000	1.54 B	mg/kg			
			OU4-4900HL-SB-9	9/6/2000	1.2 B	mg/kg			
			OU4-4900HL-SB-DUP08	9/6/2000	1.2 B	mg/kg	OU4-4900HL-SB-5		
OU4	***OU4***	***4900 Indian Lane***						***No***	***No***
			OU4-4900IL-1	2/6/2001	3.29 J	mg/kg			
			OU4-4900IL-2	2/6/2001	3.37 J	mg/kg			
			OU4-4900IL-3	2/6/2001	3.23 J	mg/kg			
			OU4-4900IL-4	2/6/2001	3.62 J	mg/kg			
			OU4-4900IL-SB-1	2/6/2001	3.8 J	mg/kg			
			OU4-4900IL-SB-2	2/6/2001	3.67 J	mg/kg			
			OU4-4900IL-SB-3	2/6/2001	1.96 J	mg/kg			
			OU4-4900IL-SB-4	2/6/2001	1.45 J	mg/kg			
			OU4-4900IL-SB-5	2/6/2001	0.805 J	mg/kg			
			OU4-4900IL-SB-6	2/6/2001	1.47	mg/kg			
			OU4-4900IL-SB-DUP03	2/6/2001	2.5	mg/kg	OU4-4900IL-SB-3		
CSA	***3***	***4900 Massachusetts Avenue, Lot 6***						***Yes***	***No***
			OU5-CSA-3-L6-1	8/27/2002	3.8	mg/kg			
			OU5-CSA-3-L6-2	8/27/2002	5.5	mg/kg			
			OU5-CSA-3-L6-SBB1	8/28/2002	2.5	mg/kg			
			OU5-CSA-3-L6-SBB2	8/28/2002	3.9	mg/kg			
			OU5-CSA-3-L6-SBB3	8/28/2002	3.3	mg/kg			
			OU5-CSA-3-L6-SBB4	8/28/2002	2.3	mg/kg			
			OU5-CSA-3-L6-SBB5	8/28/2002	2.9	mg/kg			
			OU5-CSA-3-L6-SBB6	8/28/2002	10.3	mg/kg			
OU4	***OU4***	***4900 Quebec Street***						***No***	***No***
			OU4-4900QS-1	2/5/2001	2.32	mg/kg			
			OU4-4900QS-2	2/5/2001	10.5	mg/kg			
			OU4-4900QS-3	2/5/2001	4.51	mg/kg			
			OU4-4900QS-4	2/5/2001	5.18	mg/kg			
			OU4-4900QS-SBA1	2/5/2001	1.33	mg/kg			
			OU4-4900QS-SBA2	2/5/2001	3.84	mg/kg			
			OU4-4900QS-SBA3	2/5/2001	3.06	mg/kg			
			OU4-4900QS-SBA4	2/5/2001	2.99	mg/kg			
			OU4-4900QS-SBB-2A	6/20/2001	1.6	mg/kg			
			OU4-4900QS-SBB-2B	6/20/2001	11.6	mg/kg			
			OU4-4900QS-SBB-2C	6/20/2001	2.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4900QS-SBB-DUP01	6/20/2001	1.46	mg/kg	OU4-4900QS-SBB-2A		
			OU4-4900QS-SBB1	2/5/2001	7.49	mg/kg			
			OU4-4900QS-SBB10	2/5/2001	3.34	mg/kg			
			OU4-4900QS-SBB2	2/5/2001	39.1	mg/kg			
			OU4-4900QS-SBB3	2/5/2001	2.15	mg/kg			
			OU4-4900QS-SBB4	2/5/2001	1.82	mg/kg			
			OU4-4900QS-SBB5	2/5/2001	3	mg/kg			
			OU4-4900QS-SBB6	2/5/2001	2.63	mg/kg			
			OU4-4900QS-SBB7	2/5/2001	3.06	mg/kg			
			OU4-4900QS-SBB8	2/5/2001	3.04	mg/kg			
			OU4-4900QS-SBB9	2/5/2001	4.16	mg/kg			
			OU4-4900QS-SBC1	2/5/2001	3.63	mg/kg			
			OU4-4900QS-SBC10	2/5/2001	1.61	mg/kg			
			OU4-4900QS-SBC2	2/5/2001	1.27	mg/kg			
			OU4-4900QS-SBC3	2/5/2001	2.91	mg/kg			
			OU4-4900QS-SBC4	2/5/2001	2.49	mg/kg			
			OU4-4900QS-SBC5	2/5/2001	1.67	mg/kg			
			OU4-4900QS-SBC6	2/5/2001	1.42	mg/kg			
			OU4-4900QS-SBC7	2/5/2001	2.64	mg/kg			
			OU4-4900QS-SBC8	2/5/2001	2.07	mg/kg			
			OU4-4900QS-SBC9	2/5/2001	1.69	mg/kg			
CTA	*1D*	*4900 Rodman Street*						*No*	*No*
			OU5-CTA-1D-4900RS-1	7/12/2001	7.1	mg/kg			
			OU5-CTA-1D-4900RS-2	7/12/2001	4.7	mg/kg			
			OU5-CTA-1D-4900RS-3	7/12/2001	5.5	mg/kg			
			OU5-CTA-1D-4900RS-4	7/12/2001	8.4	mg/kg			
			OU5-CTA-1D-4900RS-DUP21	7/12/2001	5	mg/kg	OU5-CTA-1D-4900RS-3		
			OU5-CTA-1D-4900RS-SB-1	7/12/2001	3	mg/kg			
			OU5-CTA-1D-4900RS-SB-2	7/12/2001	2.5	mg/kg			
			OU5-CTA-1D-4900RS-SB-3	7/12/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4900RS-SB-4	7/12/2001	2.4	mg/kg			
			OU5-CTA-1D-4900RS-SB-5	7/12/2001	1 J	mg/kg			
			OU5-CTA-1D-4900RS-SB-6	7/12/2001	2.8	mg/kg			
CTA	*1D*	*4900 Sedgwick Street*						*Yes*	*No*
			OU5-CTA-1D-4900SegS-1	7/2/2001	8.9	mg/kg			
			OU5-CTA-1D-4900SegS-2	7/2/2001	4.9	mg/kg			
			OU5-CTA-1D-4900SegS-3	7/2/2001	8.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4900SegS-4	7/2/2001	6.1	mg/kg			
			OU5-CTA-1D-4900SegS-SB-1	7/2/2001	3.3	mg/kg			
			OU5-CTA-1D-4900SegS-SB-2	7/2/2001	0.41 U	mg/kg			
			OU5-CTA-1D-4900SegS-SB-3	7/2/2001	5.6	mg/kg			
			OU5-CTA-1D-4900SegS-SB-4	7/2/2001	0.42 U	mg/kg			
			OU5-CTA-1D-4900SegS-SB-5	7/2/2001	1.3 J	mg/kg			
			OU5-CTA-1D-4900SegS-SB-6	7/2/2001	0.49 J	mg/kg			
OU4	***OU4***	***4901 Glenbrook Road***						***No***	***No***
			OU4-4901GR-1	11/1/2000	6.21 DJ	mg/kg			
			OU4-4901GR-2	11/1/2000	4.11 DJ	mg/kg			
			OU4-4901GR-3	11/1/2000	6.52 DJ	mg/kg			
			OU4-4901GR-4	11/1/2000	4.38 DJ	mg/kg			
			OU4-4901GR-DUP07	11/1/2000	6.38 DJ	mg/kg			
			OU4-4901GR-SB-1	11/1/2000	1.15 DJ	mg/kg			
			OU4-4901GR-SB-2	11/1/2000	1.08 UJ	mg/kg			
			OU4-4901GR-SB-3	11/1/2000	1.47 DJ	mg/kg			
			OU4-4901GR-SB-4	11/1/2000	1.11 UJ	mg/kg			
			OU4-4901GR-SB-5	11/1/2000	1.06 UJ	mg/kg			
			OU4-4901GR-SB-6	11/1/2000	1.05 UJ	mg/kg			
			OU4-4901GR-SB-7	11/1/2000	1.06 UJ	mg/kg			
CSA	***11***	***4901 Hillbrook Lane***						***Yes***	***No***
			OU5-CSA-11-4901HL-1	9/7/2001	4.3	mg/kg			
			OU5-CSA-11-4901HL-2	9/7/2001	4.3	mg/kg			
			OU5-CSA-11-4901HL-SB1	9/7/2001	2.2	mg/kg			
			OU5-CSA-11-4901HL-SB2	9/7/2001	1.1 J	mg/kg			
			OU5-CSA-11-4901HL-SB3	9/7/2001	3.3	mg/kg			
			OU5-CSA-11-4901HL-SB4	9/7/2001	1.4 J	mg/kg			
			OU5-CSA-11-4901HL-SB5	9/7/2001	1.8 J	mg/kg			
			OU5-CSA-11-4901HL-SB6	9/7/2001	1.7 J	mg/kg			
OU4	***OU4***	***4901 Indian Lane***						***No***	***No***
			OU4-4901IL-1	8/29/2000	5.32	mg/kg			
			OU4-4901IL-2	8/29/2000	5.79	mg/kg			
			OU4-4901IL-3	8/29/2000	8.39	mg/kg			
			OU4-4901IL-4	8/29/2000	4.71	mg/kg			
			OU4-4901IL-SB-1	8/29/2000	4.21	mg/kg			
			OU4-4901IL-SB-2	8/29/2000	5.48	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU4-4901IL-SB-3	8/29/2000	2.78		mg/kg			
			OU4-4901IL-SB-4	8/29/2000	2.36		mg/kg			
			OU4-4901IL-SB-5	8/29/2000	2.21		mg/kg			
			OU4-4901IL-SB-6	8/29/2000	2.9		mg/kg			
CSA	*12*	*4901 Loughboro Road*							*No*	*No*
			OU5-CSA-12-4901LR-1	7/25/2001	3.6		mg/kg			
			OU5-CSA-12-4901LR-2	7/25/2001	4.5		mg/kg			
CSA	*11*	*4901 Quebec Street*							*No*	*No*
			OU5-CSA-11-4901QS-1	7/20/2001	4.9		mg/kg			
			OU5-CSA-11-4901QS-2	7/20/2001	5.5		mg/kg			
CTA	*1D*	*4901 Rodman Street*							*No*	*Yes*
			OU5-CTA-1D-4901RS-1	7/17/2001	4.7		mg/kg			
			OU5-CTA-1D-4901RS-2	7/17/2001	25.4		mg/kg			
			OU5-CTA-1D-4901RS-3	7/17/2001	11.6		mg/kg			
			OU5-CTA-1D-4901RS-4	7/17/2001	20.9		mg/kg			
			OU5-CTA-1D-4901RS-SB-1	7/17/2001	3.5		mg/kg			
			OU5-CTA-1D-4901RS-SB-2	7/17/2001	2.4		mg/kg			
			OU5-CTA-1D-4901RS-SB-3	7/17/2001	1.8	J	mg/kg			
			OU5-CTA-1D-4901RS-SB-4	7/17/2001	1.4	J	mg/kg			
			OU5-CTA-1D-4901RS-SB-5	7/17/2001	2.6		mg/kg			
			OU5-CTA-1D-4901RS-SB-6	7/17/2001	3.3		mg/kg			
			OU5-CTA-1D-4901RS-SB-DUP32	7/17/2001	1.5	J	mg/kg	OU5-CTA-1D-4901RS-SB-4		
CTA	*1D*	*4901 Tilden Street*							*No*	*No*
			OU5-CTA-1D-4901TS-1	4/24/2002	7.9		mg/kg			
			OU5-CTA-1D-4901TS-2	4/24/2002	5.1		mg/kg			
			OU5-CTA-1D-4901TS-3	4/24/2002	5.6		mg/kg			
			OU5-CTA-1D-4901TS-4	4/24/2002	3.4		mg/kg			
			OU5-CTA-1D-4901TS-SB-DUP108	4/24/2002	1.3	J	mg/kg	OU5-CTA-1D-4901TS-SB6		
			OU5-CTA-1D-4901TS-SB1	4/24/2002	6.7		mg/kg			
			OU5-CTA-1D-4901TS-SB2	4/24/2002	0.69	J	mg/kg			
			OU5-CTA-1D-4901TS-SB3	4/24/2002	1.9		mg/kg			
			OU5-CTA-1D-4901TS-SB4	4/24/2002	1.2	J	mg/kg			
			OU5-CTA-1D-4901TS-SB5	4/24/2002	1.4	J	mg/kg			
			OU5-CTA-1D-4901TS-SB6	4/24/2002	1.3	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	12	4903 Rockwood Parkway							No	No
			OU5-CSA-12-4903RP-1	7/27/2001	3.9		mg/kg			
			OU5-CSA-12-4903RP-2	7/27/2001	3.1		mg/kg			
CTA	1D	4905 Rodman Street							No	No
			OU5-CTA-1D-4905RS-1	7/12/2001	5.9		mg/kg			
			OU5-CTA-1D-4905RS-2	7/12/2001	5		mg/kg			
			OU5-CTA-1D-4905RS-3	7/12/2001	9.8		mg/kg			
			OU5-CTA-1D-4905RS-4	7/12/2001	6.2		mg/kg			
			OU5-CTA-1D-4905RS-SB-1	7/12/2001	3.2		mg/kg			
			OU5-CTA-1D-4905RS-SB-2	7/12/2001	2.2	J	mg/kg			
			OU5-CTA-1D-4905RS-SB-3	7/12/2001	1.7	J	mg/kg			
			OU5-CTA-1D-4905RS-SB-4	7/12/2001	2.7		mg/kg			
			OU5-CTA-1D-4905RS-SB-5	7/12/2001	1.5	J	mg/kg			
			OU5-CTA-1D-4905RS-SB-6	7/12/2001	1.9	J	mg/kg			
CSA	12	4907 Indian Lane							No	Yes + 1' arsenic boring
			OU5-CSA-12-4907IL-1	5/31/2001	18		mg/kg			
			OU5-CSA-12-4907IL-2	5/31/2001	9.7		mg/kg			
CSA	12	4907 Rockwood Parkway							No	No
			OU5-CSA-12-4907RP-1	7/27/2001	4.5		mg/kg			
			OU5-CSA-12-4907RP-2	7/27/2001	3.3		mg/kg			
CTA	1D	4907 Tilden Street							No	No
			OU5-CTA-1D-4907TS-1	6/8/2001	4.7		mg/kg			
			OU5-CTA-1D-4907TS-2	6/8/2001	6.5		mg/kg			
			OU5-CTA-1D-4907TS-3	6/8/2001	5.8		mg/kg			
			OU5-CTA-1D-4907TS-4	6/8/2001	4		mg/kg			
			OU5-CTA-1D-4907TS-SB-1	6/8/2001	2.3	J	mg/kg			
			OU5-CTA-1D-4907TS-SB-2	6/8/2001	1.9	J	mg/kg			
			OU5-CTA-1D-4907TS-SB-3	6/8/2001	2.2	J	mg/kg			
			OU5-CTA-1D-4907TS-SB-4	6/8/2001	3.6		mg/kg			
			OU5-CTA-1D-4907TS-SB-5	6/8/2001	4.7		mg/kg			
			OU5-CTA-1D-4907TS-SB-6	6/8/2001	2.4		mg/kg			
			OU5-CTA-1D-4907TS-SB-7	6/8/2001	0.93	J	mg/kg			
CTA	1D	4907 Upton Street							No	No
			OU5-CTA-1D-4907US-1	7/12/2001	6.9		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4907US-2	7/12/2001	5.1	mg/kg			
			OU5-CTA-1D-4907US-3	7/12/2001	6.4	mg/kg			
			OU5-CTA-1D-4907US-4	7/12/2001	6.3	mg/kg			
			OU5-CTA-1D-4907US-SB-1	7/12/2001	3.6	mg/kg			
			OU5-CTA-1D-4907US-SB-2	7/12/2001	2 J	mg/kg			
			OU5-CTA-1D-4907US-SB-3	7/12/2001	3.5	mg/kg			
			OU5-CTA-1D-4907US-SB-4	7/12/2001	2 J	mg/kg			
			OU5-CTA-1D-4907US-SB-5	7/12/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4907US-SB-6	7/12/2001	0.82 J	mg/kg			
			OU5-CTA-1D-4907US-SB-7	7/12/2001	0.71 J	mg/kg			
CTA	1D	4908 Upton Street						No	No
			OU5-CTA-1D-4908US-1	7/17/2001	4.5	mg/kg			
			OU5-CTA-1D-4908US-2	7/17/2001	5.5	mg/kg			
			OU5-CTA-1D-4908US-3	7/17/2001	3.5	mg/kg			
			OU5-CTA-1D-4908US-4	7/17/2001	4.1	mg/kg			
			OU5-CTA-1D-4908US-SB-1	7/17/2001	2.4	mg/kg			
			OU5-CTA-1D-4908US-SB-2	7/17/2001	2.9	mg/kg			
			OU5-CTA-1D-4908US-SB-3	7/17/2001	2.2 J	mg/kg			
			OU5-CTA-1D-4908US-SB-4	7/17/2001	2.3	mg/kg			
			OU5-CTA-1D-4908US-SB-5	7/17/2001	3.3	mg/kg			
			OU5-CTA-1D-4908US-SB-6	7/17/2001	6.1	mg/kg			
CTA	1D	4909 Rodman Street						No	No
			OU5-CTA-1D-4909RS-1	6/8/2001	5.6	mg/kg			
			OU5-CTA-1D-4909RS-2	6/8/2001	5.3	mg/kg			
			OU5-CTA-1D-4909RS-3	6/8/2001	11.6	mg/kg			
			OU5-CTA-1D-4909RS-4	6/8/2001	6.8	mg/kg			
			OU5-CTA-1D-4909RS-SB-1	6/8/2001	2.9	mg/kg			
			OU5-CTA-1D-4909RS-SB-2	6/8/2001	2 J	mg/kg			
			OU5-CTA-1D-4909RS-SB-3	6/8/2001	0.64 J	mg/kg			
			OU5-CTA-1D-4909RS-SB-4	6/8/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4909RS-SB-5	6/8/2001	0.36 U	mg/kg			
			OU5-CTA-1D-4909RS-SB-6	6/8/2001	0.61 J	mg/kg			
CSA	11	4910 Hillbrook Lane						No	No
			OU5-CSA-11-4910(HL)-1	7/25/2001	2.9	mg/kg			
			OU5-CSA-11-4910(HL)-2	7/25/2001	6.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	12	4910 Indian Lane							No	No
			OU5-CSA-12-4910IL-1	1/10/2002	4.2		mg/kg			
			OU5-CSA-12-4910IL-2	1/10/2002	5.6		mg/kg			
			OU5-CSA-12-4910IL-DUP103	1/10/2002	3.3		mg/kg	OU5-CSA-12-4910IL-2		
CSA	3	4910 Massachusetts Avenue, Lot 3							No	No
			OU5-CSA-3-L3-1	8/27/2002	3.3		mg/kg			
			OU5-CSA-3-L3-2	8/27/2002	3.8		mg/kg			
CTA	1D	4910 Sedgwick Street							Yes	No
			OU5-CTA-1D-4910SegS-1	6/25/2001	6.3		mg/kg			
			OU5-CTA-1D-4910SegS-2	6/25/2001	6.1		mg/kg			
			OU5-CTA-1D-4910SegS-3	6/25/2001	6.1		mg/kg			
			OU5-CTA-1D-4910SegS-4	6/25/2001	7.6		mg/kg			
			OU5-CTA-1D-4910SegS-DUP11	6/25/2001	7		mg/kg	OU5-CTA-1D-4910SegS-4		
			OU5-CTA-1D-4910SegS-SB-1	6/25/2001	6.3		mg/kg			
			OU5-CTA-1D-4910SegS-SB-2	6/25/2001	4.7		mg/kg			
			OU5-CTA-1D-4910SegS-SB-3	6/25/2001	3.1		mg/kg			
			OU5-CTA-1D-4910SegS-SB-4	6/25/2001	3.4		mg/kg			
			OU5-CTA-1D-4910SegS-SB-5	6/25/2001	2.3		mg/kg			
			OU5-CTA-1D-4910SegS-SB-6	6/25/2001	1.1	J	mg/kg			
			OU5-CTA-1D-4910SegS-SB-7	6/25/2001	1.2	J	mg/kg			
CSA	12	4911 Loughboro Road							No	No
			OU5-CSA-12-4911LR-1	12/5/2001	2.8	J	mg/kg			
			OU5-CSA-12-4911LR-2	12/5/2001	7.1	J	mg/kg			
			OU5-CSA-12-4911LR-DUP97	12/5/2001	2.7	J	mg/kg	OU5-CSA-12-4911LR-1		
CSA	11	4911 Quebec Street							Yes	No
			OU5-CSA-11-4911QS-1	9/7/2001	3.5		mg/kg			
			OU5-CSA-11-4911QS-2	9/7/2001	3.6		mg/kg			
			OU5-CSA-11-4911QS-SB-DUP69	9/7/2001	3.1		mg/kg	OU5-CSA-11-4911QS-SB4		
			OU5-CSA-11-4911QS-SB1	9/7/2001	3.3		mg/kg			
			OU5-CSA-11-4911QS-SB2	9/7/2001	1.8	J	mg/kg			
			OU5-CSA-11-4911QS-SB3	9/7/2001	1.5	J	mg/kg			
			OU5-CSA-11-4911QS-SB4	9/7/2001	2.7		mg/kg			
			OU5-CSA-11-4911QS-SB5	9/7/2001	2.8		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-11-4911QS-SB6	9/7/2001	4.3	mg/kg			
CTA	1D	4911 Sedgwick Street						Yes	No
			OU5-CTA-1D-4911SegS-1	6/19/2001	4.6 K	mg/kg			
			OU5-CTA-1D-4911SegS-2	6/19/2001	4.5 K	mg/kg			
			OU5-CTA-1D-4911SegS-3	6/19/2001	3.7 K	mg/kg			
			OU5-CTA-1D-4911SegS-4	6/19/2001	4.6 K	mg/kg			
			OU5-CTA-1D-4911SegS-SB1	6/19/2001	3.3	mg/kg			
			OU5-CTA-1D-4911SegS-SB10	6/19/2001	0.99 J	mg/kg			
			OU5-CTA-1D-4911SegS-SB2	6/19/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4911SegS-SB3	6/19/2001	2.7	mg/kg			
			OU5-CTA-1D-4911SegS-SB4	6/19/2001	4.5	mg/kg			
			OU5-CTA-1D-4911SegS-SB5	6/19/2001	2 J	mg/kg			
			OU5-CTA-1D-4911SegS-SB6	6/19/2001	4	mg/kg			
			OU5-CTA-1D-4911SegS-SB7	6/19/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4911SegS-SB8	6/19/2001	3.5	mg/kg			
			OU5-CTA-1D-4911SegS-SB9	6/19/2001	2.3 J	mg/kg			
CTA	1D	4911 Tilden Street						No	No
			OU5-CTA-1D-4911TS-1	7/10/2001	5	mg/kg			
			OU5-CTA-1D-4911TS-2	7/10/2001	3.8	mg/kg			
			OU5-CTA-1D-4911TS-3	7/10/2001	3.9	mg/kg			
			OU5-CTA-1D-4911TS-4	7/10/2001	5.4	mg/kg			
			OU5-CTA-1D-4911TS-SB-DUP27	7/10/2001	2.3	mg/kg	OU5-CTA-1D-4911TS-SB3		
			OU5-CTA-1D-4911TS-SB1	7/10/2001	3.6	mg/kg			
			OU5-CTA-1D-4911TS-SB2	7/10/2001	3.2	mg/kg			
			OU5-CTA-1D-4911TS-SB3	7/10/2001	2.9	mg/kg			
			OU5-CTA-1D-4911TS-SB4	7/10/2001	3.9	mg/kg			
			OU5-CTA-1D-4911TS-SB5	7/10/2001	1.8 J	mg/kg			
			OU5-CTA-1D-4911TS-SB6	7/10/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4911TS-SB7	7/10/2001	0.91 J	mg/kg			
			OU5-CTA-1D-4911TS-SB8	7/10/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4911TS-SB9	7/10/2001	1.2 J	mg/kg			
CTA	1A	4911 Van Ness Street						No	Yes
			OU5-CTA-1A-4911VNS-1	6/27/2001	5.6	mg/kg			
			OU5-CTA-1A-4911VNS-2	6/27/2001	6.3	mg/kg			
			OU5-CTA-1A-4911VNS-3	6/27/2001	12.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4911VNS-4	6/27/2001	14.4	mg/kg			
			OU5-CTA-1A-4911VNS-SB-1	6/27/2001	3.4	mg/kg			
			OU5-CTA-1A-4911VNS-SB-2	6/27/2001	2.7	mg/kg			
			OU5-CTA-1A-4911VNS-SB-3	6/27/2001	2 J	mg/kg			
			OU5-CTA-1A-4911VNS-SB-4	6/27/2001	1.3 J	mg/kg			
			OU5-CTA-1A-4911VNS-SB-5	6/27/2001	1.7 J	mg/kg			
			OU5-CTA-1A-4911VNS-SB-6	6/27/2001	2.2	mg/kg			
CSA	***11***	***4912 Quebec Street***						***Yes***	***No***
			OU5-CSA-11-4912QS-1	8/1/2001	8.3	mg/kg			
			OU5-CSA-11-4912QS-2	8/1/2001	3.8	mg/kg			
			OU5-CSA-11-4912QS-DUP33	8/1/2001	4.8	mg/kg	OU5-CSA-11-4912QS-1		
			OU5-CSA-11-4912QS-SB1	8/1/2001	1.8 J	mg/kg			
			OU5-CSA-11-4912QS-SB2	8/1/2001	2.4	mg/kg			
			OU5-CSA-11-4912QS-SB3	8/1/2001	1.6 J	mg/kg			
			OU5-CSA-11-4912QS-SB4	8/1/2001	1.5 J	mg/kg			
			OU5-CSA-11-4912QS-SB5	8/1/2001	1.4 J	mg/kg			
			OU5-CSA-11-4912QS-SB6	8/1/2001	2.7	mg/kg			
CTA	***1D***	***4912 Tilden Street***						***No***	***No***
			OU5-CTA-1D-4912TS-1	7/17/2001	4.3	mg/kg			
			OU5-CTA-1D-4912TS-2	7/17/2001	4.5	mg/kg			
			OU5-CTA-1D-4912TS-3	7/17/2001	4.3	mg/kg			
			OU5-CTA-1D-4912TS-4	7/17/2001	4.4	mg/kg			
			OU5-CTA-1D-4912TS-SB1	7/17/2001	7	mg/kg			
			OU5-CTA-1D-4912TS-SB2	7/17/2001	2.5	mg/kg			
			OU5-CTA-1D-4912TS-SB3	7/17/2001	1.7 J	mg/kg			
			OU5-CTA-1D-4912TS-SB4	7/17/2001	1.4 J	mg/kg			
			OU5-CTA-1D-4912TS-SB5	7/17/2001	0.94 J	mg/kg			
			OU5-CTA-1D-4912TS-SB6	7/17/2001	0.76 J	mg/kg			
CTA	***1D***	***4912 Van Ness Street***						***No***	***No***
			OU5-CTA-1D-4912VNS-1	10/9/2001	3.2	mg/kg			
			OU5-CTA-1D-4912VNS-2	10/9/2001	10.9	mg/kg			
			OU5-CTA-1D-4912VNS-3	10/9/2001	4.3	mg/kg			
			OU5-CTA-1D-4912VNS-4	10/9/2001	4.1	mg/kg			
			OU5-CTA-1D-4912VNS-SB1	10/9/2001	2.5	mg/kg			
			OU5-CTA-1D-4912VNS-SB2	10/9/2001	7	mg/kg			
			OU5-CTA-1D-4912VNS-SB3	10/9/2001	3.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4912VNS-SB4	10/9/2001	2.1 J	mg/kg			
			OU5-CTA-1D-4912VNS-SB5	10/9/2001	1.7 J	mg/kg			
			OU5-CTA-1D-4912VNS-SB6	10/9/2001	0.75 J	mg/kg			
CTA	*1D*	*4913 Rodman Street*						*No*	*No*
			OU5-CTA-1D-4913RS-1	6/12/2001	3.4	mg/kg			
			OU5-CTA-1D-4913RS-2	6/12/2001	3.7	mg/kg			
			OU5-CTA-1D-4913RS-3	6/12/2001	4.1	mg/kg			
			OU5-CTA-1D-4913RS-4	6/12/2001	3.2	mg/kg			
			OU5-CTA-1D-4913RS-SB-1	6/12/2001	1.3 J	mg/kg			
			OU5-CTA-1D-4913RS-SB-2	6/12/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4913RS-SB-3	6/12/2001	2 J	mg/kg			
			OU5-CTA-1D-4913RS-SB-4	6/12/2001	5.2	mg/kg			
			OU5-CTA-1D-4913RS-SB-5	6/12/2001	5.6	mg/kg			
			OU5-CTA-1D-4913RS-SB-6	6/12/2001	2.5	mg/kg			
			OU5-CTA-1D-4913RS-SB-7	6/12/2001	3	mg/kg			
			OU5-CTA-1D-4913RS-SB-8	6/12/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4913RS-SB-9	6/12/2001	0.46 J	mg/kg			
CTA	*1D*	*4913 Upton Street*						*No*	*No*
			OU5-CTA-1D-4913US-1	8/29/2001	5.8 L	mg/kg			
			OU5-CTA-1D-4913US-2	8/29/2001	5.6 L	mg/kg			
			OU5-CTA-1D-4913US-3	8/29/2001	3.1 L	mg/kg			
			OU5-CTA-1D-4913US-4	8/29/2001	5.5 L	mg/kg			
			OU5-CTA-1D-4913US-SB1	8/29/2001	2.5 L	mg/kg			
			OU5-CTA-1D-4913US-SB2	8/29/2001	1.9 JL	mg/kg			
			OU5-CTA-1D-4913US-SB3	8/29/2001	3.4 L	mg/kg			
			OU5-CTA-1D-4913US-SB4	8/29/2001	2.5 L	mg/kg			
			OU5-CTA-1D-4913US-SB5	8/29/2001	1.2 JL	mg/kg			
			OU5-CTA-1D-4913US-SB6	8/29/2001	1.2 JL	mg/kg			
CSA	*12*	*4914 Glenbrook Road*						*No*	*No*
			OU5-CSA-12-4914GR-1	8/10/2001	5.8	mg/kg			
			OU5-CSA-12-4914GR-2	8/10/2001	3.4	mg/kg			
CTA	*1D*	*4914 Sedgwick Street*						*No*	*No*
			OU5-CTA-1D-4914SegS-1	7/17/2001	4.2	mg/kg			
			OU5-CTA-1D-4914SegS-2	7/17/2001	5.1	mg/kg			
			OU5-CTA-1D-4914SegS-3	7/17/2001	5.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4914SegS-4	7/17/2001	5.6		mg/kg			
			OU5-CTA-1D-4914SegS-SB1	7/17/2001	3.2		mg/kg			
			OU5-CTA-1D-4914SegS-SB2	7/17/2001	1.9	J	mg/kg			
			OU5-CTA-1D-4914SegS-SB3	7/17/2001	3.5		mg/kg			
			OU5-CTA-1D-4914SegS-SB4	7/17/2001	0.96	J	mg/kg			
			OU5-CTA-1D-4914SegS-SB5	7/17/2001	1.8	J	mg/kg			
			OU5-CTA-1D-4914SegS-SB6	7/17/2001	0.97	J	mg/kg			
			OU5-CTA-1D-4914SegS-SBDUP34	7/17/2001	1.9	J	mg/kg	OU5-CTA-1D-4914SegS-SB4		
CTA	*1D*	*4914 Upton Street*							*No*	*No*
			OU5-CTA-1D-4914US-1	7/9/2001	3.6		mg/kg			
			OU5-CTA-1D-4914US-2	7/9/2001	3.5		mg/kg			
			OU5-CTA-1D-4914US-3	7/9/2001	3.7		mg/kg			
			OU5-CTA-1D-4914US-4	7/9/2001	2.8		mg/kg			
			OU5-CTA-1D-4914US-SB1	7/9/2001	1.5	J	mg/kg			
			OU5-CTA-1D-4914US-SB2	7/9/2001	1.3	J	mg/kg			
			OU5-CTA-1D-4914US-SB3	7/9/2001	0.81	J	mg/kg			
			OU5-CTA-1D-4914US-SB4	7/9/2001	1.1	J	mg/kg			
			OU5-CTA-1D-4914US-SB5	7/9/2001	1.5	J	mg/kg			
			OU5-CTA-1D-4914US-SB6	7/9/2001	0.92	J	mg/kg			
OU4	*OU4*	*4915 Glenbrook Road*							*No*	*No*
			OU4-4915GR-1	7/1/2002	4		mg/kg			
			OU4-4915GR-2	7/1/2002	2.8		mg/kg			
			OU4-4915GR-3	7/1/2002	4.9		mg/kg			
			OU4-4915GR-4	7/1/2002	4.3		mg/kg			
			OU4-4915GR-DUP03	7/1/2002	4.6		mg/kg	OU4-4915GR-SB4		
			OU4-4915GR-SB1	7/1/2002	3.6		mg/kg			
			OU4-4915GR-SB2	7/1/2002	4.1		mg/kg			
			OU4-4915GR-SB3	7/1/2002	2.3		mg/kg			
			OU4-4915GR-SB4	7/1/2002	2.1		mg/kg			
			OU4-4915GR-SB5	7/1/2002	1.1	J	mg/kg			
			OU4-4915GR-SB6	7/1/2002	1.6		mg/kg			
CSA	*11*	*4915 Hillbrook Lane*							*No*	*No*
			OU5-CSA-11-4915HL-1	7/27/2001	7.1		mg/kg			
			OU5-CSA-11-4915HL-2	7/27/2001	3.9		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	12	4915 Indian Lane							No	No
			OU5-CSA-12-4915IL-1	9/20/2001	4.5		mg/kg			
			OU5-CSA-12-4915IL-2	9/20/2001	4.1		mg/kg			
			OU5-CSA-12-4915IL-DUP63	9/20/2001	3.1		mg/kg	OU5-CSA-12-4915IL-2		
CTA	1D	4915 Sedgwick Street							No	No
			OU5-CTA-1D-4915SegS-1	6/19/2001	10.5		mg/kg			
			OU5-CTA-1D-4915SegS-2	6/19/2001	11.9		mg/kg			
			OU5-CTA-1D-4915SegS-3	6/19/2001	8.7		mg/kg			
			OU5-CTA-1D-4915SegS-4	6/19/2001	10		mg/kg			
			OU5-CTA-1D-4915SegS-SB1	6/19/2001	4.4		mg/kg			
			OU5-CTA-1D-4915SegS-SB2	6/19/2001	2.2	J	mg/kg			
			OU5-CTA-1D-4915SegS-SB3	6/19/2001	1.2	J	mg/kg			
			OU5-CTA-1D-4915SegS-SB4	6/19/2001	2	J	mg/kg			
			OU5-CTA-1D-4915SegS-SB5	6/19/2001	4.1		mg/kg			
			OU5-CTA-1D-4915SegS-SB6	6/19/2001	4.8		mg/kg			
			OU5-CTA-1D-4915SegS-SB7	6/19/2001	4.1		mg/kg			
			OU5-CTA-1D-4915SegS-SB8	6/19/2001	1.1	J	mg/kg			
			OU5-CTA-1D-4915SegS-SB9	6/19/2001	1.2	J	mg/kg			
CTA	1A	4915 Van Ness Street							Yes	Yes
			OU5-CTA-1A-4915VNS-1	11/12/2001	17.2		mg/kg			
			OU5-CTA-1A-4915VNS-2	11/12/2001	4		mg/kg			
			OU5-CTA-1A-4915VNS-3	11/12/2001	4.8		mg/kg			
			OU5-CTA-1A-4915VNS-4	11/12/2001	6.4		mg/kg			
			OU5-CTA-1A-4915VNS-DUP88	11/12/2001	5.8		mg/kg	OU5-CTA-1A-4915VNS-4		
			OU5-CTA-1A-4915VNS-SB1	11/12/2001	3.2		mg/kg			
			OU5-CTA-1A-4915VNS-SB2	11/12/2001	0.82	J	mg/kg			
			OU5-CTA-1A-4915VNS-SB3	11/12/2001	2	J	mg/kg			
			OU5-CTA-1A-4915VNS-SB4	11/12/2001	1.2	J	mg/kg			
			OU5-CTA-1A-4915VNS-SB5	11/12/2001	0.7	J	mg/kg			
			OU5-CTA-1A-4915VNS-SB6	11/12/2001	0.57	U	mg/kg			
CTA	1A	4915Vacant Van Ness Street, Lot 3							No	No
			OU5-CTA-1A-L3-1	8/29/2002	7.4		mg/kg			
			OU5-CTA-1A-L3-2	8/29/2002	18.2		mg/kg			
			OU5-CTA-1A-L3-3	8/29/2002	13.9		mg/kg			
			OU5-CTA-1A-L3-4	8/29/2002	5.2		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-L3-SB1	8/29/2002	5.2	mg/kg			
			OU5-CTA-1A-L3-SB2	8/29/2002	3.3	mg/kg			
			OU5-CTA-1A-L3-SB3	8/29/2002	2.4	mg/kg			
CSA	*12*	*4916 Indian Lane*						*No*	*No*
			OU5-CSA-12-4916IL-1	1/10/2002	4	mg/kg			
			OU5-CSA-12-4916IL-2	1/10/2002	2.7	mg/kg			
CSA	*12*	*4916 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4916RP-1	7/27/2001	3.6	mg/kg			
			OU5-CSA-12-4916RP-2	7/27/2001	1.8 J	mg/kg			
CTA	*1D*	*4916 Van Ness Street*						*No*	*No*
			OU5-CTA-1D-4916VNS-1	7/19/2001	7.4	mg/kg			
			OU5-CTA-1D-4916VNS-2	7/19/2001	8.2	mg/kg			
			OU5-CTA-1D-4916VNS-3	7/19/2001	4.8	mg/kg			
			OU5-CTA-1D-4916VNS-4	7/19/2001	4.2	mg/kg			
			OU5-CTA-1D-4916VNS-SB1	7/19/2001	2.7	mg/kg			
			OU5-CTA-1D-4916VNS-SB2	7/19/2001	3.1	mg/kg			
			OU5-CTA-1D-4916VNS-SB3	7/19/2001	2.3	mg/kg			
			OU5-CTA-1D-4916VNS-SB4	7/19/2001	1.3 J	mg/kg			
			OU5-CTA-1D-4916VNS-SB5	7/19/2001	2.5	mg/kg			
			OU5-CTA-1D-4916VNS-SB6	7/19/2001	2.1	mg/kg			
			OU5-CTA-1D-4916VNS-SBDUP36	7/19/2001	2.4	mg/kg	OU5-CTA-1D-4916VNS-SB5		
CSA	*12*	*4917 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4917RP-1	10/26/2001	4	mg/kg			
			OU5-CSA-12-4917RP-2	10/26/2001	5.3	mg/kg			
CTA	*1D*	*4917 Rodman Street*						*No*	*No*
			OU5-CTA-1D-4917RS-1	7/12/2001	4.1	mg/kg			
			OU5-CTA-1D-4917RS-2	7/12/2001	4.6	mg/kg			
			OU5-CTA-1D-4917RS-3	7/12/2001	4.2	mg/kg			
			OU5-CTA-1D-4917RS-4	7/12/2001	4.4	mg/kg			
			OU5-CTA-1D-4917RS-SB1	7/12/2001	3.9	mg/kg			
			OU5-CTA-1D-4917RS-SB2	7/12/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4917RS-SB3	7/12/2001	2.3	mg/kg			
			OU5-CTA-1D-4917RS-SB4	7/12/2001	4.1	mg/kg			
			OU5-CTA-1D-4917RS-SB5	7/12/2001	2.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4917RS-SB6	7/12/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4917RS-SB7	7/12/2001	0.71 J	mg/kg			
CSA	*11*	*4918 Hillbrook Lane*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-11-4918HL-1	10/24/2001	8	mg/kg			
			OU5-CSA-11-4918HL-2	10/24/2001	14.9	mg/kg			
CTA	*1D*	*4918 Tilden Street*						*No*	*No*
			OU5-CTA-1D-4918TS-1	7/17/2001	4.2	mg/kg			
			OU5-CTA-1D-4918TS-2	7/17/2001	6.1	mg/kg			
			OU5-CTA-1D-4918TS-3	7/17/2001	2.8	mg/kg			
			OU5-CTA-1D-4918TS-4	7/17/2001	3.2	mg/kg			
			OU5-CTA-1D-4918TS-SB1	7/17/2001	3.6	mg/kg			
			OU5-CTA-1D-4918TS-SB2	7/17/2001	3.3	mg/kg			
			OU5-CTA-1D-4918TS-SB3	7/17/2001	3	mg/kg			
			OU5-CTA-1D-4918TS-SB4	7/17/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4918TS-SB5	7/17/2001	2.4	mg/kg			
			OU5-CTA-1D-4918TS-SB6	7/17/2001	1.7 J	mg/kg			
CTA	*1D*	*4919 Sedgwick Street*						*No*	*No*
			OU5-CTA-1D-4919SegS-1	6/13/2001	8.9	mg/kg			
			OU5-CTA-1D-4919SegS-2	6/13/2001	8.5	mg/kg			
			OU5-CTA-1D-4919SegS-3	6/13/2001	7.1	mg/kg			
			OU5-CTA-1D-4919SegS-4	6/13/2001	4.5	mg/kg			
			OU5-CTA-1D-4919SegS-SB-1	6/13/2001	3.4	mg/kg			
			OU5-CTA-1D-4919SegS-SB-2	6/13/2001	4.4	mg/kg			
			OU5-CTA-1D-4919SegS-SB-3	6/13/2001	2.7	mg/kg			
			OU5-CTA-1D-4919SegS-SB-4	6/13/2001	2.5	mg/kg			
			OU5-CTA-1D-4919SegS-SB-5	6/13/2001	1.2 J	mg/kg			
			OU5-CTA-1D-4919SegS-SB-6	6/13/2001	1.1 J	mg/kg			
CTA	*1D*	*4919 Upton Street*						*No*	*No*
			OU5-CTA-1D-4919US-1	2/13/2002	8.5	mg/kg			
			OU5-CTA-1D-4919US-2	2/13/2002	8.6	mg/kg			
			OU5-CTA-1D-4919US-3	2/13/2002	3.6	mg/kg			
			OU5-CTA-1D-4919US-4	2/13/2002	5.8	mg/kg			
			OU5-CTA-1D-4919US-SB1	2/13/2002	4	mg/kg			
			OU5-CTA-1D-4919US-SB2	2/13/2002	3.1	mg/kg			
			OU5-CTA-1D-4919US-SB3	2/13/2002	1.2 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4919US-SB4	2/13/2002	2.1	mg/kg			
			OU5-CTA-1D-4919US-SB5	2/13/2002	1 J	mg/kg			
			OU5-CTA-1D-4919US-SB6	2/13/2002	0.99 J	mg/kg			
CSA	12	4920 Indian Lane						No	No
			OU5-CSA-12-4920IL-1	1/10/2002	2.2 J	mg/kg			
			OU5-CSA-12-4920IL-2	1/10/2002	3.1	mg/kg			
CSA	12	4920 Rockwood Parkway						No	No
			OU5-CSA-12-4920RP-1	3/28/2002	3.6	mg/kg			
			OU5-CSA-12-4920RP-2	3/28/2002	4.2	mg/kg			
CTA	1D	4920 Rodman Street						No	Yes
			OU5-CTA-1D-4920RS-1	6/18/2001	15.1	mg/kg			
			OU5-CTA-1D-4920RS-2	6/18/2001	5.5	mg/kg			
			OU5-CTA-1D-4920RS-3	6/18/2001	11	mg/kg			
			OU5-CTA-1D-4920RS-4	6/18/2001	12.4	mg/kg			
			OU5-CTA-1D-4920RS-SB-1	6/18/2001	6.2	mg/kg			
			OU5-CTA-1D-4920RS-SB-2	6/18/2001	2.6	mg/kg			
			OU5-CTA-1D-4920RS-SB-3	6/18/2001	0.74	mg/kg			
			OU5-CTA-1D-4920RS-SB-4	6/18/2001	1.9	mg/kg			
			OU5-CTA-1D-4920RS-SB-5	6/18/2001	2.3	mg/kg			
			OU5-CTA-1D-4920RS-SB-6	6/18/2001	1.1	mg/kg			
			OU5-CTA-1D-4920RS-SB-7	6/18/2001	0.57	mg/kg			
CTA	1D	4920 Upton Street						No	No
			OU5-CTA-1D-4920US-1	7/9/2001	3.4	mg/kg			
			OU5-CTA-1D-4920US-2	7/9/2001	3.4	mg/kg			
			OU5-CTA-1D-4920US-3	7/9/2001	3.8	mg/kg			
			OU5-CTA-1D-4920US-4	7/9/2001	2.4 J	mg/kg			
			OU5-CTA-1D-4920US-SB1	7/9/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4920US-SB2	7/9/2001	4.1	mg/kg			
			OU5-CTA-1D-4920US-SB3	7/9/2001	7	mg/kg			
			OU5-CTA-1D-4920US-SB4	7/9/2001	0.88 J	mg/kg			
			OU5-CTA-1D-4920US-SB5	7/9/2001	1.4 J	mg/kg			
			OU5-CTA-1D-4920US-SB6	7/9/2001	0.79 J	mg/kg			
CTA	1D	4920 Van Ness Street						Yes	No
			OU5-CTA-1D-4920VNS-1	5/1/2002	4.3	mg/kg			
			OU5-CTA-1D-4920VNS-2	5/1/2002	6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4920VNS-3	5/1/2002	4.7	mg/kg			
			OU5-CTA-1D-4920VNS-4	5/1/2002	5.2	mg/kg			
			OU5-CTA-1D-4920VNS-SB(3.5-4.5)	5/1/2002	2	mg/kg			
			OU5-CTA-1D-4920VNS-SB1	5/1/2002	3.6	mg/kg			
			OU5-CTA-1D-4920VNS-SB2	5/1/2002	3.4	mg/kg			
			OU5-CTA-1D-4920VNS-SB3	5/1/2002	2.7	mg/kg			
			OU5-CTA-1D-4920VNS-SB4	5/1/2002	2.1	mg/kg			
			OU5-CTA-1D-4920VNS-SB5	5/1/2002	1.5 J	mg/kg			
CSA	*11*	*4921 Quebec Street*						*Yes*	*No*
			OU5-CSA-11-4921QS-1	9/6/2001	5.8	mg/kg			
			OU5-CSA-11-4921QS-2	9/6/2001	6.6	mg/kg			
			OU5-CSA-11-4921QS-SBA1	9/6/2001	3.8	mg/kg			
			OU5-CSA-11-4921QS-SBA10	9/6/2001	4.6	mg/kg			
			OU5-CSA-11-4921QS-SBA2	9/6/2001	6.1	mg/kg			
			OU5-CSA-11-4921QS-SBA3	9/6/2001	4.2	mg/kg			
			OU5-CSA-11-4921QS-SBA4	9/6/2001	5	mg/kg			
			OU5-CSA-11-4921QS-SBA5	9/6/2001	4.5	mg/kg			
			OU5-CSA-11-4921QS-SBA6	9/6/2001	4.5	mg/kg			
			OU5-CSA-11-4921QS-SBA7	9/6/2001	2.5	mg/kg			
			OU5-CSA-11-4921QS-SBA8	9/6/2001	1.1 J	mg/kg			
			OU5-CSA-11-4921QS-SBA9	9/6/2001	5.5	mg/kg			
			OU5-CSA-11-4921QS-SBB1	9/6/2001	3.1	mg/kg			
			OU5-CSA-11-4921QS-SBB2	9/6/2001	1.9 J	mg/kg			
			OU5-CSA-11-4921QS-SBB3	9/6/2001	2.6	mg/kg			
			OU5-CSA-11-4921QS-SBB4	9/6/2001	3.3	mg/kg			
			OU5-CSA-11-4921QS-SBB5	9/6/2001	3	mg/kg			
			OU5-CSA-11-4921QS-SBB6	9/6/2001	2.6	mg/kg			
			OU5-CSA-11-4921QS-SBB7	9/6/2001	2 J	mg/kg			
			OU5-CSA-11-4921QS-SBB8	9/6/2001	1.2 J	mg/kg			
CSA	*12*	*4921 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4921RP-1	7/25/2001	6.8	mg/kg			
			OU5-CSA-12-4921RP-2	7/25/2001	5.4	mg/kg			
CTA	*1D*	*4921 Tilden Street*						*Yes*	*No*
			OU5-CTA-1D-4921TS-1	7/23/2001	6.4	mg/kg			
			OU5-CTA-1D-4921TS-2	7/23/2001	4.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4921TS-3	7/23/2001	3.5		mg/kg			
			OU5-CTA-1D-4921TS-4	7/23/2001	4.2		mg/kg			
			OU5-CTA-1D-4921TS-SB-1	7/23/2001	5.3		mg/kg			
			OU5-CTA-1D-4921TS-SB-2	7/23/2001	2.9		mg/kg			
			OU5-CTA-1D-4921TS-SB-3	7/23/2001	0.78	J	mg/kg			
			OU5-CTA-1D-4921TS-SB-4	7/23/2001	2.6		mg/kg			
			OU5-CTA-1D-4921TS-SB-5	7/23/2001	1.5	J	mg/kg			
			OU5-CTA-1D-4921TS-SB-DUP37	7/23/2001	3.7		mg/kg	OU5-CTA-1D-4921TS-SB-2		
CSA	*11*	*4922 Quebec Street*							*No*	*Yes*
			OU5-CSA-11-4922QS-1	6/1/2001	19.4		mg/kg			
			OU5-CSA-11-4922QS-2	6/1/2001	17.8		mg/kg			
CTA	*1D*	*4922 Sedgwick Street*							*No*	*No*
			OU5-CTA-1D-4922SegS-1	6/27/2001	3.1		mg/kg			
			OU5-CTA-1D-4922SegS-2	6/27/2001	3.4		mg/kg			
			OU5-CTA-1D-4922SegS-3	6/27/2001	3.9		mg/kg			
			OU5-CTA-1D-4922SegS-4	6/27/2001	4.7		mg/kg			
			OU5-CTA-1D-4922SegS-SB-1	6/27/2001	2.8		mg/kg			
			OU5-CTA-1D-4922SegS-SB-2	6/27/2001	3.2		mg/kg			
			OU5-CTA-1D-4922SegS-SB-3	6/27/2001	0.72	J	mg/kg			
			OU5-CTA-1D-4922SegS-SB-4	6/27/2001	0.72	J	mg/kg			
			OU5-CTA-1D-4922SegS-SB-5	6/27/2001	0.87	J	mg/kg			
			OU5-CTA-1D-4922SegS-SB-6	6/27/2001	0.62	J	mg/kg			
CSA	*11*	*4923 Hillbrook Lane*							*No*	*No*
			OU5-CSA-11-4923HL-1	7/27/2001	3.9		mg/kg			
			OU5-CSA-11-4923HL-2	7/27/2001	6		mg/kg			
CTA	*1D*	*4923 Sedgwick Street*							*No*	*No*
			OU5-CTA-1D-4923SegS-1	6/27/2001	5.5		mg/kg			
			OU5-CTA-1D-4923SegS-2	6/27/2001	5.3		mg/kg			
			OU5-CTA-1D-4923SegS-3	6/27/2001	5.1		mg/kg			
			OU5-CTA-1D-4923SegS-4	6/27/2001	4.9		mg/kg			
			OU5-CTA-1D-4923SegS-SB-1	6/27/2001	1.8	J	mg/kg			
			OU5-CTA-1D-4923SegS-SB-2	6/27/2001	3.7		mg/kg			
			OU5-CTA-1D-4923SegS-SB-3	6/27/2001	1.3	J	mg/kg			
			OU5-CTA-1D-4923SegS-SB-4	6/27/2001	0.65	J	mg/kg			
			OU5-CTA-1D-4923SegS-SB-5	6/27/2001	1.8	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4923SegS-SB-6	6/27/2001	1.4	J	mg/kg			
			OU5-CTA-1D-4923SegS-SB-DUP19	6/27/2001	0.81	J	mg/kg	OU5-CTA-1D-4923SegS-SB-4		
CTA	1D	4924 Sedgwick Street							No	No
			OU5-CTA-1D-4924SegS-1	6/27/2001	8.4		mg/kg			
			OU5-CTA-1D-4924SegS-2	6/27/2001	1.9	J	mg/kg			
			OU5-CTA-1D-4924SegS-3	6/27/2001	8.3		mg/kg			
			OU5-CTA-1D-4924SegS-4	6/27/2001	7.5		mg/kg			
			OU5-CTA-1D-4924SegS-DUP14	6/27/2001	9.5		mg/kg	OU5-CTA-1D-4924SegS-1		
			OU5-CTA-1D-4924SegS-SB-1	6/27/2001	2.3	J	mg/kg			
			OU5-CTA-1D-4924SegS-SB-2	6/27/2001	9.3		mg/kg			
			OU5-CTA-1D-4924SegS-SB-3	6/27/2001	1.3	J	mg/kg			
			OU5-CTA-1D-4924SegS-SB-4	6/27/2001	3.4		mg/kg			
			OU5-CTA-1D-4924SegS-SB-5	6/27/2001	0.77	J	mg/kg			
			OU5-CTA-1D-4924SegS-SB-6	6/27/2001	0.38	U	mg/kg			
CTA	1D	4924 Tilden Street							No	No
			OU5-CTA-1D-4924TS-1	8/28/2001	4.8		mg/kg			
			OU5-CTA-1D-4924TS-2	8/28/2001	4.8		mg/kg			
			OU5-CTA-1D-4924TS-3	8/28/2001	4		mg/kg			
			OU5-CTA-1D-4924TS-4	8/28/2001	3.3		mg/kg			
			OU5-CTA-1D-4924TS-SB1	8/28/2001	2.4	J	mg/kg			
			OU5-CTA-1D-4924TS-SB2	8/28/2001	4.7		mg/kg			
			OU5-CTA-1D-4924TS-SB3	8/28/2001	3.9		mg/kg			
			OU5-CTA-1D-4924TS-SB4	8/28/2001	1.8	J	mg/kg			
			OU5-CTA-1D-4924TS-SB5	8/28/2001	1.2	J	mg/kg			
			OU5-CTA-1D-4924TS-SB6	8/28/2001	0.88	J	mg/kg			
			OU5-CTA-1D-4924TS-SB7	8/28/2001	0.58	U	mg/kg			
CTA	1D	4924 Van Ness Street							No	Yes
			OU5-CTA-1D-4924VNS-1	7/17/2001	4.4		mg/kg			
			OU5-CTA-1D-4924VNS-2	7/17/2001	4.8		mg/kg			
			OU5-CTA-1D-4924VNS-3	7/17/2001	3.5	J	mg/kg			
			OU5-CTA-1D-4924VNS-4	7/17/2001	15.2	J	mg/kg			
			OU5-CTA-1D-4924VNS-SB-1	7/17/2001	3.4		mg/kg			
			OU5-CTA-1D-4924VNS-SB-2	7/17/2001	2.8		mg/kg			
			OU5-CTA-1D-4924VNS-SB-3	7/17/2001	3.6		mg/kg			
			OU5-CTA-1D-4924VNS-SB-4	7/17/2001	2.5		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4924VNS-SB-5	7/17/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4924VNS-SB-6	7/17/2001	1 J	mg/kg			
CSA	*12*	*4925 Loughboro Road*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-12-4925LR-1	9/19/2001	4.8 J	mg/kg			
			OU5-CSA-12-4925LR-2	9/19/2001	15.9 J	mg/kg			
CSA	*12*	*4925 Loughboro Road, Lot 18*						*No*	*No*
			OU5-CSA-12-L18-1	1/21/2002	4.7	mg/kg			
			OU5-CSA-12-L18-2	1/21/2002	3.8	mg/kg			
CSA	*12*	*4925 Loughboro Road, Lot 19*						*No*	*No*
			OU5-CSA-12-L19-1	1/21/2002	3.7	mg/kg			
			OU5-CSA-12-L19-2	1/21/2002	5.7	mg/kg			
CSA	*12*	*4925 Loughboro Road, Lot 20*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-12-L20-1	1/21/2002	11.8	mg/kg			
			OU5-CSA-12-L20-2	1/21/2002	3.6	mg/kg			
CSA	*12*	*4925 Loughboro Road, Lot 21*						*No*	*No*
			OU5-CSA-12-L21-1	1/21/2002	8.8	mg/kg			
			OU5-CSA-12-L21-2	1/21/2002	4.2	mg/kg			
CTA	*1D*	*4925 Rodman Street*						*No*	*No*
			OU5-CTA-1D-4925RS-1	8/21/2001	4.6	mg/kg			
			OU5-CTA-1D-4925RS-2	8/21/2001	4	mg/kg			
			OU5-CTA-1D-4925RS-3	8/21/2001	5.7	mg/kg			
			OU5-CTA-1D-4925RS-4	8/21/2001	8.7	mg/kg			
			OU5-CTA-1D-4925RS-DUP45	8/21/2001	4.4	mg/kg	OU5-CTA-1D-4925RS-1		
			OU5-CTA-1D-4925RS-SB-DUP58	8/21/2001	0.55 U	mg/kg	OU5-CTA-1D-4925RS-SB4		
			OU5-CTA-1D-4925RS-SB1	8/21/2001	3.6	mg/kg			
			OU5-CTA-1D-4925RS-SB2	8/21/2001	3	mg/kg			
			OU5-CTA-1D-4925RS-SB3	8/21/2001	1.6 J	mg/kg			
			OU5-CTA-1D-4925RS-SB4	8/21/2001	0.79 J	mg/kg			
			OU5-CTA-1D-4925RS-SB5	8/21/2001	0.55 U	mg/kg			
			OU5-CTA-1D-4925RS-SB6	8/21/2001	0.54 U	mg/kg			
CTA	*1D*	*4925 Upton Street*						*Yes*	*No*
			OU5-CTA-1D-4925US-1	6/8/2001	4.9	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4925US-2	6/8/2001	4.7	mg/kg			
			OU5-CTA-1D-4925US-3	6/8/2001	3.4	mg/kg			
			OU5-CTA-1D-4925US-4	6/8/2001	5.7	mg/kg			
			OU5-CTA-1D-4925US-DUP02	6/8/2001	4.3	mg/kg	OU5-CTA-1D-4925US-2		
			OU5-CTA-1D-4925US-SB-1	6/8/2001	2.6	mg/kg			
			OU5-CTA-1D-4925US-SB-2	6/8/2001	0.97 J	mg/kg			
			OU5-CTA-1D-4925US-SB-3	6/8/2001	5.2	mg/kg			
			OU5-CTA-1D-4925US-SB-4	6/8/2001	2.1 J	mg/kg			
			OU5-CTA-1D-4925US-SB-5	6/8/2001	0.66 J	mg/kg			
			OU5-CTA-1D-4925US-SB-6	6/8/2001	0.98 J	mg/kg			
CSA	*12*	*4926 Glenbrook Road*						*No*	*No*
			OU5-CSA-12-4926GR-1	9/20/2001	7.1	mg/kg			
			OU5-CSA-12-4926GR-2	9/20/2001	5.8	mg/kg			
CSA	*11*	*4926 Hillbrook Lane*						*No*	*No*
			OU5-CSA-11-4926HL-1	7/27/2001	6.2	mg/kg			
			OU5-CSA-11-4926HL-2	7/27/2001	4.9	mg/kg			
CSA	*12*	*4926 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4926RP-1	7/27/2001	3.2	mg/kg			
			OU5-CSA-12-4926RP-2	7/27/2001	2.8 J	mg/kg			
CTA	*1D*	*4926 Sedgwick Street*						*No*	*No*
			OU5-CTA-1D-4926SegS-1	6/26/2001	4.2	mg/kg			
			OU5-CTA-1D-4926SegS-2	6/26/2001	3.7	mg/kg			
			OU5-CTA-1D-4926SegS-3	6/26/2001	4.6	mg/kg			
			OU5-CTA-1D-4926SegS-4	6/26/2001	5.3	mg/kg			
			OU5-CTA-1D-4926SegS-SB-1	6/26/2001	6.4	mg/kg			
			OU5-CTA-1D-4926SegS-SB-2	6/26/2001	3.1	mg/kg			
			OU5-CTA-1D-4926SegS-SB-3	6/26/2001	5.8	mg/kg			
			OU5-CTA-1D-4926SegS-SB-4	6/26/2001	4.4	mg/kg			
			OU5-CTA-1D-4926SegS-SB-5	6/26/2001	1.7 J	mg/kg			
			OU5-CTA-1D-4926SegS-SB-6	6/26/2001	1.2 J	mg/kg			
			OU5-CTA-1D-4926SegS-SB-7	6/26/2001	0.59 U	mg/kg			
CTA	*1D*	*4926 Upton Street*						*Yes*	*No*
			OU5-CTA-1D-4926 US-1	6/7/2001	4.5	mg/kg			
			OU5-CTA-1D-4926 US-2	6/7/2001	8	mg/kg			
			OU5-CTA-1D-4926 US-3	6/7/2001	5.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4926 US-4	6/7/2001	7.5	mg/kg			
			OU5-CTA-1D-4926 US-SB1	6/7/2001	3.3	mg/kg			
			OU5-CTA-1D-4926 US-SB2	6/7/2001	3.8	mg/kg			
			OU5-CTA-1D-4926 US-SB3	6/7/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4926 US-SB4	6/7/2001	1 J	mg/kg			
			OU5-CTA-1D-4926 US-SB5	6/7/2001	0.39 U	mg/kg			
			OU5-CTA-1D-4926 US-SB6	6/7/2001	0.36 U	mg/kg			
CTA	***1D***	***4927 Sedgwick Street***						***No***	***No***
			OU5-CTA-1D-4927SegS-1	6/27/2001	4.5	mg/kg			
			OU5-CTA-1D-4927SegS-2	6/27/2001	5.2	mg/kg			
			OU5-CTA-1D-4927SegS-3	6/27/2001	9.9	mg/kg			
			OU5-CTA-1D-4927SegS-4	6/27/2001	10.1	mg/kg			
			OU5-CTA-1D-4927SegS-DUP13	6/27/2001	4.3	mg/kg	OU5-CTA-1D-4927SegS-1		
			OU5-CTA-1D-4927SegS-SB-1	6/27/2001	1.8 J	mg/kg			
			OU5-CTA-1D-4927SegS-SB-2	6/27/2001	0.57 J	mg/kg			
			OU5-CTA-1D-4927SegS-SB-3	6/27/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4927SegS-SB-4	6/27/2001	1.4 J	mg/kg			
			OU5-CTA-1D-4927SegS-SB-5	6/27/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4927SegS-SB-6	6/27/2001	0.38 U	mg/kg			
			OU5-CTA-1D-4927SegS-SBDUP19	6/27/2001	1.7 J	mg/kg	OU5-CTA-1D-4927SegS-SB-3		
CSA	***12***	***4928 Indian Lane***						***No***	***No***
			OU5-CSA-12-4928IL-1	7/27/2001	4.4	mg/kg			
			OU5-CSA-12-4928IL-2	7/27/2001	4	mg/kg			
CSA	***11***	***4929 Glenbrook Road***						***No***	***No***
			OU5-CSA-11-4929GR-1	11/15/2001	7.5	mg/kg			
			OU5-CSA-11-4929GR-2	11/15/2001	6.1	mg/kg			
CSA	***11***	***4929 Hillbrook Lane***						***No***	***No***
			OU5-CSA-11-4929HL-1	7/13/2001	4.2	mg/kg			
			OU5-CSA-11-4929HL-2	7/13/2001	3.9	mg/kg			
			OU5-CSA-11-4929HL-DUP24	7/13/2001	4	mg/kg	OU5-CSA-11-4929HL-2		
CSA	***12***	***4929 Rockwood Parkway***						***No***	***No***
			OU5-CSA-12-4929RP-1	7/27/2001	4	mg/kg			
			OU5-CSA-12-4929RP-2F	7/27/2001	4.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1D	4929 Tilden Street						No	No
			OU5-CTA-1D-4929TS-1	7/9/2001	4.7	mg/kg			
			OU5-CTA-1D-4929TS-2	7/9/2001	4.3	mg/kg			
			OU5-CTA-1D-4929TS-3	7/9/2001	5.4	mg/kg			
			OU5-CTA-1D-4929TS-4	7/9/2001	4.2	mg/kg			
			OU5-CTA-1D-4929TS-SB-DUP25	7/9/2001	0.79 J	mg/kg	OU5-CTA-1D-4929TS-SB3		
			OU5-CTA-1D-4929TS-SB1	7/9/2001	0.76 J	mg/kg			
			OU5-CTA-1D-4929TS-SB2	7/9/2001	4.2	mg/kg			
			OU5-CTA-1D-4929TS-SB3	7/9/2001	3.1	mg/kg			
			OU5-CTA-1D-4929TS-SB4	7/9/2001	4	mg/kg			
			OU5-CTA-1D-4929TS-SB5	7/9/2001	0.76 J	mg/kg			
			OU5-CTA-1D-4929TS-SB6	7/9/2001	0.71 J	mg/kg			
CSA	11	4930 Quebec Street						No	No
			OU5-CSA-11-4930QS-1	5/31/2001	7	mg/kg			
			OU5-CSA-11-4930QS-2	5/31/2001	9.3	mg/kg			
CTA	1D	4930 Rodman Street						No	No
			OU5-CTA-1D-4930RS-1	7/17/2001	3.6	mg/kg			
			OU5-CTA-1D-4930RS-2	7/17/2001	2.5 J	mg/kg			
			OU5-CTA-1D-4930RS-3	7/17/2001	3	mg/kg			
			OU5-CTA-1D-4930RS-4	7/17/2001	3.4	mg/kg			
			OU5-CTA-1D-4930RS-DUP26	7/17/2001	3.1	mg/kg	OU5-CTA-1D-4930RS-2		
			OU5-CTA-1D-4930RS-SB-1	7/17/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4930RS-SB-2	7/17/2001	1.7 J	mg/kg			
			OU5-CTA-1D-4930RS-SB-3	7/17/2001	1 J	mg/kg			
CTA	1D	4930 Sedgwick Street						No	No
			OU5-CTA-1D-4930SegS-1	7/2/2001	3.1	mg/kg			
			OU5-CTA-1D-4930SegS-2	7/2/2001	2.5 J	mg/kg			
			OU5-CTA-1D-4930SegS-3	7/2/2001	8.7	mg/kg			
			OU5-CTA-1D-4930SegS-4	7/2/2001	5.7	mg/kg			
			OU5-CTA-1D-4930SegS-DUP15	7/2/2001	6.3	mg/kg	OU5-CTA-1D-4930SegS-4		
			OU5-CTA-1D-4930SegS-SB-1	7/2/2001	1.3 J	mg/kg			
			OU5-CTA-1D-4930SegS-SB-2	7/2/2001	1.3 J	mg/kg			
			OU5-CTA-1D-4930SegS-SB-3	7/2/2001	0.64 J	mg/kg			
			OU5-CTA-1D-4930SegS-SB-4	7/2/2001	0.71 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4930SegS-SB-5	7/2/2001	0.39 U	mg/kg			
			OU5-CTA-1D-4930SegS-SB-6	7/2/2001	0.59 J	mg/kg			
			OU5-CTA-1D-4930SegS-SB-DUP20	7/2/2001	0.53 J	mg/kg	OU5-CTA-1D-4930SegS-SB-4		
CTA	*1D*	*4930 Tilden Street*						*No*	*No*
			OU5-CTA-1D-4930TS-1	6/11/2001	3	mg/kg			
			OU5-CTA-1D-4930TS-2	6/11/2001	3.5	mg/kg			
			OU5-CTA-1D-4930TS-3	6/11/2001	3	mg/kg			
			OU5-CTA-1D-4930TS-4	6/11/2001	2.7	mg/kg			
			OU5-CTA-1D-4930TS-SB-1	6/11/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4930TS-SB-2	6/11/2001	0.53 J	mg/kg			
			OU5-CTA-1D-4930TS-SB-3	6/11/2001	0.63 J	mg/kg			
			OU5-CTA-1D-4930TS-SB-4	6/11/2001	0.39 U	mg/kg			
			OU5-CTA-1D-4930TS-SB-5	6/11/2001	0.38 U	mg/kg			
			OU5-CTA-1D-4930TS-SB-6	6/11/2001	0.89 J	mg/kg			
CTA	*1D*	*4931 Upton Street*						*Yes*	*No*
			OU5-CTA-1D-4931US-1	8/13/2001	3.5	mg/kg			
			OU5-CTA-1D-4931US-2	8/13/2001	4.4	mg/kg			
			OU5-CTA-1D-4931US-3	8/13/2001	3.1	mg/kg			
			OU5-CTA-1D-4931US-4	8/13/2001	4.1	mg/kg			
			OU5-CTA-1D-4931US-SB1	8/13/2001	0.85 J	mg/kg			
			OU5-CTA-1D-4931US-SB2	8/13/2001	0.59 J	mg/kg			
			OU5-CTA-1D-4931US-SB3	8/13/2001	0.63 J	mg/kg			
			OU5-CTA-1D-4931US-SB4	8/13/2001	0.92 J	mg/kg			
			OU5-CTA-1D-4931US-SB5	8/13/2001	0.8 J	mg/kg			
			OU5-CTA-1D-4931US-SB6	8/13/2001	0.62 J	mg/kg			
CSA	*11*	*4932 Hillbrook Lane*						*No*	*No*
			OU5-CSA-11-4932HL-1	7/27/2001	4	mg/kg			
			OU5-CSA-11-4932HL-2	7/27/2001	5	mg/kg			
CSA	*12*	*4934 Indian Lane*						*No*	*No*
			OU5-CSA-12-4934IL-1	7/27/2001	10.3	mg/kg			
			OU5-CSA-12-4934IL-2	7/27/2001	3.5	mg/kg			
CSA	*12*	*4934 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-4934RP-1	2/6/2003	3.8	mg/kg			
			OU5-CSA-12-4934RP-2	2/6/2003	3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-12-4934RP-DUP	2/6/2003	2.6		mg/kg	OU5-CSA-12-4934RP-2		
CTA	1D	4934 Upton Street							Yes	No
			OU5-CTA-1D-4934US-1	11/5/2001	3.6		mg/kg			
			OU5-CTA-1D-4934US-2	11/5/2001	4.4		mg/kg			
			OU5-CTA-1D-4934US-3	11/5/2001	2.8		mg/kg			
			OU5-CTA-1D-4934US-4	11/5/2001	4.5		mg/kg			
			OU5-CTA-1D-4934US-SBA-1	11/5/2001	5.1		mg/kg			
			OU5-CTA-1D-4934US-SBA-DUP88	11/5/2001	0.85	J	mg/kg	OU5-CTA-1D-4934US-SBA5		
			OU5-CTA-1D-4934US-SBA2	11/5/2001	2.9		mg/kg			
			OU5-CTA-1D-4934US-SBA3	11/5/2001	7.2		mg/kg			
			OU5-CTA-1D-4934US-SBA4	11/5/2001	4.9		mg/kg			
			OU5-CTA-1D-4934US-SBA5	11/5/2001	1.8	J	mg/kg			
			OU5-CTA-1D-4934US-SBA6	11/5/2001	0.98	J	mg/kg			
			OU5-CTA-1D-4934US-SBB-2	11/5/2001	0.87	J	mg/kg			
			OU5-CTA-1D-4934US-SBB1	11/5/2001	2.8		mg/kg			
			OU5-CTA-1D-4934US-SBB3	11/5/2001	0.77	J	mg/kg			
			OU5-CTA-1D-4934US-SBB4	11/5/2001	1.9	J	mg/kg			
			OU5-CTA-1D-4934US-SBB5	11/5/2001	1.3	J	mg/kg			
			OU5-CTA-1D-4934US-SBB6	11/5/2001	0.54	J	mg/kg			
CSA	11	4935 Hillbrook Lane							Yes	No
			OU5-CSA-11-4935HL-1	8/6/2001	4		mg/kg			
			OU5-CSA-11-4935HL-2	8/6/2001	5.8		mg/kg			
			OU5-CSA-11-4935HL-SB1	8/6/2001	4.6		mg/kg			
			OU5-CSA-11-4935HL-SB2	8/6/2001	5.6		mg/kg			
			OU5-CSA-11-4935HL-SB3	8/6/2001	6.4		mg/kg			
			OU5-CSA-11-4935HL-SB4	8/6/2001	3		mg/kg			
			OU5-CSA-11-4935HL-SB5	8/6/2001	2.3		mg/kg			
			OU5-CSA-11-4935HL-SB6	8/6/2001	1.4	J	mg/kg			
CSA	12	4935 Loughboro Road							No	No
			OU5-CSA-12-4935LR-1	3/21/2002	3.5		mg/kg			
			OU5-CSA-12-4935LR-2	3/21/2002	2.2	J	mg/kg			
CSA	11	4935 Quebec Street							No	No
			OU5-CSA-11-4935QS-1	10/26/2001	5.3		mg/kg			
			OU5-CSA-11-4935QS-2	10/26/2001	4.5		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1D	4936 Rodman Street						Yes	No
			OU5-CTA-1D-4936RS-1	7/11/2001	4.1	mg/kg			
			OU5-CTA-1D-4936RS-2	7/11/2001	2.5 J	mg/kg			
			OU5-CTA-1D-4936RS-3	7/11/2001	4.4	mg/kg			
			OU5-CTA-1D-4936RS-4	7/11/2001	5	mg/kg			
			OU5-CTA-1D-4936RS-DUP-18	7/11/2001	6.9	mg/kg	OU5-CTA-1D-4936RS-4		
			OU5-CTA-1D-4936RS-SB-1	7/30/2001	1.2 J	mg/kg			
			OU5-CTA-1D-4936RS-SB-2	7/30/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4936RS-SB-3	7/30/2001	1.4 J	mg/kg			
			OU5-CTA-1D-4936RS-SB-4	7/30/2001	2.6 J	mg/kg			
			OU5-CTA-1D-4936RS-SB-5	7/30/2001	1.5 J	mg/kg			
			OU5-CTA-1D-4936RS-SB-6	7/30/2001	2.1 J	mg/kg			
			OU5-CTA-1D-4936RS-SB1	7/11/2001	2.1 J	mg/kg			
			OU5-CTA-1D-4936RS-SB2	7/11/2001	2.3	mg/kg			
			OU5-CTA-1D-4936RS-SB3	7/11/2001	1.1 J	mg/kg			
			OU5-CTA-1D-4936RS-SB4	7/11/2001	1.7 J	mg/kg			
			OU5-CTA-1D-4936RS-SB5	7/11/2001	1 J	mg/kg			
			OU5-CTA-1D-4936RS-SB6	7/11/2001	2 J	mg/kg			
CTA	1D	4936 Tilden Street						No	No
			OU5-CTA-1D-4936TS-1	7/23/2001	5.9 K	mg/kg			
			OU5-CTA-1D-4936TS-2	7/23/2001	5.4 K	mg/kg			
			OU5-CTA-1D-4936TS-3	7/23/2001	5.8 K	mg/kg			
			OU5-CTA-1D-4936TS-4	7/23/2001	6 K	mg/kg			
			OU5-CTA-1D-4936TS-DUP26	7/23/2001	5 K	mg/kg	OU5-CTA-1D-4936TS-3		
			OU5-CTA-1D-4936TS-SB-1	7/23/2001	2.3 K	mg/kg			
			OU5-CTA-1D-4936TS-SB-2	7/23/2001	1.8 JK	mg/kg			
			OU5-CTA-1D-4936TS-SB-3	7/23/2001	0.91 JK	mg/kg			
			OU5-CTA-1D-4936TS-SB-4	7/23/2001	0.81 JK	mg/kg			
			OU5-CTA-1D-4936TS-SB-5	7/23/2001	0.65 JK	mg/kg			
			OU5-CTA-1D-4936TS-SB-6	7/23/2001	1.9 JK	mg/kg			
CTA	1D	4937 Tilden Street						Yes	No
			OU5-CTA-1D-4937TS-1	7/9/2001	3.6	mg/kg			
			OU5-CTA-1D-4937TS-2	7/9/2001	6.1	mg/kg			
			OU5-CTA-1D-4937TS-3	7/9/2001	4.9	mg/kg			
			OU5-CTA-1D-4937TS-4	7/9/2001	2.9	mg/kg			
			OU5-CTA-1D-4937TS-DUP16	7/9/2001	5.9	mg/kg	OU5-CTA-1D-4937TS-4		

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1D-4937TS-SB-DUP24	7/9/2001	1	J	mg/kg	OU5-CTA-1D-4937TS-SB4a		
			OU5-CTA-1D-4937TS-SB-DUP87	11/5/2001	0.57	U	mg/kg	OU5-CTA-1D-4937TS-SB4b		
			OU5-CTA-1D-4937TS-SB1a	7/9/2001	2.4		mg/kg			
			OU5-CTA-1D-4937TS-SB1b	11/5/2001	3.7		mg/kg			
			OU5-CTA-1D-4937TS-SB2a	7/9/2001	4.5		mg/kg			
			OU5-CTA-1D-4937TS-SB2b	11/5/2001	0.58	U	mg/kg			
			OU5-CTA-1D-4937TS-SB3a	7/9/2001	0.68	J	mg/kg			
			OU5-CTA-1D-4937TS-SB3b	11/5/2001	0.79	J	mg/kg			
			OU5-CTA-1D-4937TS-SB4a	7/9/2001	0.58	U	mg/kg			
			OU5-CTA-1D-4937TS-SB4b	11/5/2001	0.58	U	mg/kg			
			OU5-CTA-1D-4937TS-SB5a	7/9/2001	0.58	U	mg/kg			
			OU5-CTA-1D-4937TS-SB5b	11/5/2001	0.6	J	mg/kg			
			OU5-CTA-1D-4937TS-SB6a	7/9/2001	0.57	U	mg/kg			
			OU5-CTA-1D-4937TS-SB6b	11/5/2001	0.61	U	mg/kg			
CSA	***11***	***4938 Quebec Street***							***No***	***Yes + 1' arsenic boring***
			OU5-CSA-11-4938QS-1	10/3/2001	24.1		mg/kg			
			OU5-CSA-11-4938QS-2	10/3/2001	14.2		mg/kg			
CSA	***11***	***4939 Quebec Street***							***Yes***	***No***
			OU5-CSA-11-4939QS-1	8/2/2001	2.8		mg/kg			
			OU5-CSA-11-4939QS-2	8/2/2001	3		mg/kg			
			OU5-CSA-11-4939QS-SB-1	8/2/2001	2.1	J	mg/kg			
			OU5-CSA-11-4939QS-SB-2	8/2/2001	1.3	J	mg/kg			
			OU5-CSA-11-4939QS-SB-3	8/2/2001	2.3		mg/kg			
			OU5-CSA-11-4939QS-SB-4	8/2/2001	0.77	J	mg/kg			
			OU5-CSA-11-4939QS-SB-5	8/2/2001	0.9	J	mg/kg			
			OU5-CSA-11-4939QS-SB-6	8/2/2001	1.6	J	mg/kg			
			OU5-CSA-11-4939QS-SB-7	8/2/2001	1.3	J	mg/kg			
			OU5-CSA-11-4939QS-SB-8	8/2/2001	2	J	mg/kg			
			OU5-CSA-11-4939QS-SB-9	8/2/2001	3.8		mg/kg			
CSA	***11***	***4940 Hillbrook Lane***							***No***	***No***
			OU5-CSA-11-4940HL-1	8/3/2001	2.7		mg/kg			
			OU5-CSA-11-4940HL-2	8/3/2001	3.8		mg/kg			
CSA	***12***	***4940 Indian Lane***							***No***	***Yes + 1' arsenic boring***
			OU5-CSA-12-4940IL-1	8/10/2001	19.9		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-12-4940IL-2	8/10/2001	4.9	mg/kg			
CTA	1D	4940 Rodman Street						No	No
			OU5-CTA-1D-4940RS-1	7/17/2001	2.9	mg/kg			
			OU5-CTA-1D-4940RS-2	7/17/2001	4.5	mg/kg			
			OU5-CTA-1D-4940RS-3	7/17/2001	4.2	mg/kg			
			OU5-CTA-1D-4940RS-4	7/17/2001	3.5	mg/kg			
			OU5-CTA-1D-4940RS-SB-1	7/17/2001	5.1	mg/kg			
			OU5-CTA-1D-4940RS-SB-2	7/17/2001	3.3	mg/kg			
			OU5-CTA-1D-4940RS-SB-3	7/17/2001	1.7 J	mg/kg			
			OU5-CTA-1D-4940RS-SB-4	7/17/2001	0.53 U	mg/kg			
			OU5-CTA-1D-4940RS-SB-5	7/17/2001	1.2 J	mg/kg			
			OU5-CTA-1D-4940RS-SB-6	7/17/2001	0.58 J	mg/kg			
CSA	11	4941 Glenbrook Road						No	No
			OU5-CSA-11-4941GR-1	9/20/2001	5.8	mg/kg			
			OU5-CSA-11-4941GR-2	9/20/2001	4.4	mg/kg			
CTA	1D	4941 Tilden Street						Yes	No
			OU5-CTA-1D-4941TS-1	7/31/2001	8.5	mg/kg			
			OU5-CTA-1D-4941TS-2	7/31/2001	3.7	mg/kg			
			OU5-CTA-1D-4941TS-3	7/31/2001	3.1	mg/kg			
			OU5-CTA-1D-4941TS-4	7/31/2001	3.2	mg/kg			
			OU5-CTA-1D-4941TS-DUP32	7/31/2001	4.3	mg/kg	OU5-CTA-1D-4941TS-2		
			OU5-CTA-1D-4941TS-SB-1	7/31/2001	4	mg/kg			
			OU5-CTA-1D-4941TS-SB-2	7/31/2001	2 J	mg/kg			
			OU5-CTA-1D-4941TS-SB-3	7/31/2001	1.9 J	mg/kg			
			OU5-CTA-1D-4941TS-SB-4	7/31/2001	0.86 J	mg/kg			
			OU5-CTA-1D-4941TS-SB-5	7/31/2001	0.9 J	mg/kg			
			OU5-CTA-1D-4941TS-SB-6	7/31/2001	0.84 J	mg/kg			
CSA	11	4943 Hillbrook Lane						No	No
			OU5-CSA-11-4943HL-1	7/27/2001	3.6	mg/kg			
			OU5-CSA-11-4943HL-2	7/27/2001	5.4	mg/kg			
CSA	11	4943 Quebec Street						No	No
			OU5-CSA-11-4943QS-1	10/26/2001	3.1	mg/kg			
			OU5-CSA-11-4943QS-2	10/26/2001	6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	11	4944 Quebec Street							No	Yes + specialty boring
			OU5-CSA-11-4944QS-1	10/3/2001	49.6		mg/kg			
			OU5-CSA-11-4944QS-2	10/3/2001	22.3		mg/kg			
			OU5-CSA-11-4944QS-DUP67	10/3/2001	15		mg/kg	OU5-CSA-11-4944QS-1		
CSA	11	4949 Hillbrook Lane							No	No
			OU5-CSA-11-4949HL-1	10/3/2001	4.9		mg/kg			
			OU5-CSA-11-4949HL-2	10/3/2001	11.9		mg/kg			
CSA	11	4949 Quebec Street							No	No
			OU5-CSA-11-4949QS-1	8/7/2002	11.8	[2]	mg/kg			
			OU5-CSA-11-4949QS-2	8/7/2002	6.1	[2]	mg/kg			
CSA	11	4950 Hillbrook Lane							No	No
			OU5-CSA-11-4950HL-1	3/28/2002	4.8		mg/kg			
			OU5-CSA-11-4950HL-2	3/28/2002	3.9		mg/kg			
			OU5-CSA-11-4950HL-DUP112	3/28/2002	4.3		mg/kg	OU5-CSA-11-4950HL-2		
CSA	11	4950 Quebec Street							No	Yes + 1' arsenic boring
			OU5-CSA-11-4950QS-1	9/19/2001	6	J	mg/kg			
			OU5-CSA-11-4950QS-2	9/19/2001	16.3	J	mg/kg			
CSA	11	4951 Rockwood Parkway							No	No
			OU5-CSA-11-4951RP-1	8/10/2001	3.8		mg/kg			
			OU5-CSA-11-4951RP-2	8/10/2001	3.4		mg/kg			
CSA	11	4955 Glenbrook Road							No	Yes + 1' arsenic boring
			OU5-CSA-11-4955GR-1	7/27/2001	25.7		mg/kg			
			OU5-CSA-11-4955GR-2	7/27/2001	13.8		mg/kg			
CSA	12	4955 Loughboro Road							No	No
			OU5-CSA-12-4955LR-1	4/25/2002	1.8		mg/kg			
			OU5-CSA-12-4955LR-2	4/25/2002	4		mg/kg			
CSA	11	4955 Quebec Street							No	No
			OU5-CSA-11-4955QS-1	7/20/2001	5.2		mg/kg			
			OU5-CSA-11-4955QS-2	7/20/2001	10.8		mg/kg			
CSA	11	4956 Quebec Street							No	No
			OU5-CSA-11-4956QS-1	10/3/2001	3.8		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-11-4956QS-2	10/3/2001	3.9	mg/kg			
CSA	11	4959 Hillbrook Lane						No	Yes + 1' arsenic boring
			OU5-CSA-11-4959HL-1	7/27/2001	18.1	mg/kg			
			OU5-CSA-11-4959HL-2	7/27/2001	12	mg/kg			
CSA	11	4960 Hillbrook Lane						Yes	No
			OU5-CSA-11-4960HL-1	8/6/2001	4.6	mg/kg			
			OU5-CSA-11-4960HL-2	8/6/2001	6.6	mg/kg			
			OU5-CSA-11-4960HL-SB1	8/6/2001	3.5	mg/kg			
			OU5-CSA-11-4960HL-SB2	8/6/2001	3.9	mg/kg			
			OU5-CSA-11-4960HL-SB3	8/6/2001	2 J	mg/kg			
			OU5-CSA-11-4960HL-SB4	8/6/2001	1.2 J	mg/kg			
			OU5-CSA-11-4960HL-SB5	8/6/2001	3.8	mg/kg			
			OU5-CSA-11-4960HL-SB6	8/6/2001	0.41 J	mg/kg			
CSA	12	4960 Rockwood Parkway						No	No
			OU5-CSA-12-4960RP-1	7/27/2001	4.4	mg/kg			
			OU5-CSA-12-4960RP-2	7/27/2001	3.4	mg/kg			
CSA	11	4961 Quebec Street						No	No
			OU5-CSA-11-4961QS-1	10/26/2001	7.5	mg/kg			
			OU5-CSA-11-4961QS-2	10/26/2001	5.7	mg/kg			
CSA	11	4962 Quebec Street						No	Yes + 1' arsenic boring
			OU5-CSA-11-4962QS-1	7/27/2001	12.6	mg/kg			
			OU5-CSA-11-4962QS-2	7/27/2001	14.8	mg/kg			
CSA	11	4965 Glenbrook Road						No	No
			OU5-CSA-11-4965GR-1	11/15/2001	3.8	mg/kg			
			OU5-CSA-11-4965GR-2	11/15/2001	3.3	mg/kg			
CSA	11	4965 Rockwood Parkway						No	No
			OU5-CSA-11-4965RP-1	8/3/2001	3.3	mg/kg			
			OU5-CSA-11-4965RP-2	8/3/2001	3.9	mg/kg			
CSA	11	4968 Quebec Street						No	No
			OU5-CSA-11-4968QS-1	10/3/2001	2.2 J	mg/kg			
			OU5-CSA-11-4968QS-2	10/3/2001	4.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	11	4969 Hillbrook Lane						No	No
			OU5-CSA-11-4969HL-1	8/3/2001	2.5	mg/kg			
			OU5-CSA-11-4969HL-2	8/3/2001	4.6	mg/kg			
CSA	12	4970 Rockwood Parkway						No	No
			OU5-CSA-12-4970RP-1	8/3/2001	3.3	mg/kg			
			OU5-CSA-12-4970RP-2	8/3/2001	3.2	mg/kg			
CSA	11	4971 Hillbrook Lane						No	No
			OU5-CSA-11-4971HL-1	8/1/2001	3.7	mg/kg			
			OU5-CSA-11-4971HL-2	8/1/2001	7.7	mg/kg			
CSA	11	4973 Hillbrook Lane						No	No
			OU5-CSA-11-4973HL-1	8/3/2001	4.1	mg/kg			
			OU5-CSA-11-4973HL-2	8/3/2001	3.9	mg/kg			
CSA	11	4974 Quebec Street						No	No
			OU5-CSA-11-4974QS-1	10/26/2001	2.9	mg/kg			
			OU5-CSA-11-4974QS-2	10/26/2001	2.9 J	mg/kg			
CSA	11	4975 Hillbrook Lane						No	No
			OU5-CSA-11-4975HL-1	8/10/2001	3.4	mg/kg			
			OU5-CSA-11-4975HL-2	8/10/2001	5.4	mg/kg			
CSA	11	4975 Rockwood Parkway						No	No
			OU5-CSA-11-4975RP-1	10/4/2001	2.9	mg/kg			
			OU5-CSA-11-4975RP-2	10/4/2001	2.6	mg/kg			
			OU5-CSA-11-4975RP-DUP68	10/4/2001	7.8	mg/kg	OU5-CSA-11-4975RP-1		
CSA	11	4977 Glenbrook Road						No	No
			OU5-CSA-11-4977GR-1	8/10/2001	4.4	mg/kg			
			OU5-CSA-11-4977GR-2	8/10/2001	4.9	mg/kg			
CSA	11	4980 Hillbrook Lane						No	No
			OU5-CSA-11-4980HL-1	8/1/2001	4.4	mg/kg			
			OU5-CSA-11-4980HL-2	8/1/2001	4.8	mg/kg			
CSA	11	4980 Quebec Street						No	No
			OU5-CSA-11-4980QS-1	10/26/2001	9.6	mg/kg			
			OU5-CSA-11-4980QS-2	10/26/2001	4.9	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	12	4984 Rockwood Parkway						No	No
			OU5-CSA-12-4984RP-1	8/3/2001	3.4	mg/kg			
			OU5-CSA-12-4984RP-2	8/3/2001	3.1	mg/kg			
CSA	11	4985 Rockwood Parkway						Yes	No
			OU5-CSA-11-4985RP-1	7/6/2001	8.1	mg/kg			
			OU5-CSA-11-4985RP-2	7/6/2001	4.2	mg/kg			
			OU5-CSA-11-4985RP-SB-DUP50	8/7/2001	7.4	mg/kg	OU5-CSA-11-4985RP-SB1		
			OU5-CSA-11-4985RP-SB1	8/7/2001	2 J	mg/kg			
			OU5-CSA-11-4985RP-SB2	8/7/2001	1.5 J	mg/kg			
			OU5-CSA-11-4985RP-SB3	8/7/2001	2.5	mg/kg			
			OU5-CSA-11-4985RP-SB4	8/7/2001	0.57 U	mg/kg			
			OU5-CSA-11-4985RP-SB5	8/7/2001	0.57 J	mg/kg			
			OU5-CSA-11-4985RP-SB6	8/7/2001	1.1 J	mg/kg			
CTA	1A	4988 Warren Street						No	No
			OU5-CTA-1A-4988WS-1	8/9/2001	2.2	mg/kg			
			OU5-CTA-1A-4988WS-2	8/9/2001	2.3	mg/kg			
			OU5-CTA-1A-4988WS-3	8/9/2001	2.9	mg/kg			
			OU5-CTA-1A-4988WS-4	8/9/2001	2.9	mg/kg			
			OU5-CTA-1A-4988WS-DUP41	8/9/2001	2.7	mg/kg	OU5-CTA-1A-4988WS-3		
			OU5-CTA-1A-4988WS-SB1	8/9/2001	2.5	mg/kg			
			OU5-CTA-1A-4988WS-SB10	8/9/2001	3.1	mg/kg			
			OU5-CTA-1A-4988WS-SB2	8/9/2001	2.9	mg/kg			
			OU5-CTA-1A-4988WS-SB3	8/9/2001	3.1	mg/kg			
			OU5-CTA-1A-4988WS-SB4	8/9/2001	2.1 J	mg/kg			
			OU5-CTA-1A-4988WS-SB5	8/9/2001	4.3	mg/kg			
			OU5-CTA-1A-4988WS-SB6	8/9/2001	4.4	mg/kg			
			OU5-CTA-1A-4988WS-SB7	8/9/2001	4.5	mg/kg			
			OU5-CTA-1A-4988WS-SB8	8/9/2001	2.6	mg/kg			
			OU5-CTA-1A-4988WS-SB9	8/9/2001	2.7	mg/kg			
CSA	12	4989 Glenbrook Road						No	No
			OU5-CSA-12-4989GR-1	9/20/2001	5.5	mg/kg			
			OU5-CSA-12-4989GR-2	9/20/2001	8.4	mg/kg			
CTA	1A	4990 Warren Street						No	No
			OU5-CTA-1A-4990WS-1	8/30/2001	3.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4990WS-2	8/30/2001	3.9	mg/kg			
			OU5-CTA-1A-4990WS-3	8/30/2001	4.5	mg/kg			
			OU5-CTA-1A-4990WS-4	8/30/2001	4.2	mg/kg			
			OU5-CTA-1A-4990WS-SB-DUP65	8/30/2001	1.6 J	mg/kg	OU5-CTA-1A-4990WS-SB6		
			OU5-CTA-1A-4990WS-SB1	8/30/2001	2.4	mg/kg			
			OU5-CTA-1A-4990WS-SB2	8/30/2001	2.8	mg/kg			
			OU5-CTA-1A-4990WS-SB3	8/30/2001	4.3	mg/kg			
			OU5-CTA-1A-4990WS-SB4	8/30/2001	2.3	mg/kg			
			OU5-CTA-1A-4990WS-SB5	8/30/2001	2.2 J	mg/kg			
			OU5-CTA-1A-4990WS-SB6	8/30/2001	0.99 J	mg/kg			
			OU5-CTA-1A-4990WS-SB7	8/30/2001	2.2 J	mg/kg			
CTA	1A	4992 Warren Street						Yes	No
			OU5-CTA-1A-4992WS-1	8/9/2001	2.2	mg/kg			
			OU5-CTA-1A-4992WS-2	8/9/2001	3.7	mg/kg			
			OU5-CTA-1A-4992WS-3	8/9/2001	2.3	mg/kg			
			OU5-CTA-1A-4992WS-4	8/9/2001	2.4	mg/kg			
			OU5-CTA-1A-4992WS-SB-DUP51	8/9/2001	2.4	mg/kg	OU5-CTA-1A-4992WS-SB2		
			OU5-CTA-1A-4992WS-SB1	8/9/2001	1.5 J	mg/kg			
			OU5-CTA-1A-4992WS-SB2	8/9/2001	2.7	mg/kg			
			OU5-CTA-1A-4992WS-SB3	8/9/2001	1.6 J	mg/kg			
			OU5-CTA-1A-4992WS-SB4	8/9/2001	1.5 J	mg/kg			
			OU5-CTA-1A-4992WS-SB5	8/9/2001	1.2 J	mg/kg			
			OU5-CTA-1A-4992WS-SB6	8/9/2001	2.8	mg/kg			
CSA	12	4994 Glenbrook Road						No	No
			OU5-CSA-12-4994GR-1	2/14/2002	3.7	mg/kg			
			OU5-CSA-12-4994GR-2	2/14/2002	2.3	mg/kg			
CTA	1A	4994 Warren Street						Yes	No
			OU5-CTA-1A-4994WS-1	9/17/2001	1.1 J	mg/kg			
			OU5-CTA-1A-4994WS-2	9/17/2001	2.2	mg/kg			
			OU5-CTA-1A-4994WS-3	9/17/2001	1.5 J	mg/kg			
			OU5-CTA-1A-4994WS-4	9/17/2001	1.3 J	mg/kg			
			OU5-CTA-1A-4994WS-SB-DUP72	9/17/2001	0.36 U	mg/kg	OU5-CTA-1A-4994WS-SB4		
			OU5-CTA-1A-4994WS-SB1	9/17/2001	1.3 J	mg/kg			
			OU5-CTA-1A-4994WS-SB2	9/17/2001	1.1 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4994WS-SB3	9/17/2001	1.8 J	mg/kg			
			OU5-CTA-1A-4994WS-SB4	9/17/2001	0.36 U	mg/kg			
			OU5-CTA-1A-4994WS-SB5	9/17/2001	0.39 U	mg/kg			
CSA	*12*	*4995 Glenbrook Road*						*No*	*No*
			OU5-CSA-12-4995GR-1	2/14/2002	5.4 J	mg/kg			
			OU5-CSA-12-4995GR-2	2/14/2002	5 J	mg/kg			
			OU5-CSA-12-4995GR-DUP104	2/14/2002	3.6	mg/kg	OU5-CSA-12-4995GR-1		
CTA	*1A*	*4996 Warren Street*						*Yes*	*No*
			OU4-4996-SB1	4/16/2001	1.2 J	mg/kg			
			OU4-4996-SB2	4/16/2001	0.96 J	mg/kg			
			OU4-4996-SB3	4/16/2001	1.1 J	mg/kg			
			OU4-4996-SB4	4/16/2001	1 J	mg/kg			
			OU4-4996-SB5	4/16/2001	2.5	mg/kg			
			OU4-4996-SB6	4/16/2001	2.8	mg/kg			
			OU4-4996-SS1	4/16/2001	1.47 J	mg/kg			
			OU4-4996-SS2	4/16/2001	2.52	mg/kg			
			OU4-4996-SS3	4/16/2001	1.9 J	mg/kg			
			OU4-4996-SS4	4/16/2001	2.36 J	mg/kg			
			OU5-CTA-1A-4996WS-SB1	9/17/2001	1.5 J	mg/kg			
			OU5-CTA-1A-4996WS-SB2	9/17/2001	0.71 J	mg/kg			
			OU5-CTA-1A-4996WS-SB3	9/17/2001	0.81 J	mg/kg			
			OU5-CTA-1A-4996WS-SB4	9/17/2001	1.4 J	mg/kg			
			OU5-CTA-1A-4996WS-SB5	9/17/2001	1.7 J	mg/kg			
			OU5-CTA-1A-4996WS-SB6	9/17/2001	1.4 J	mg/kg			
CTA	*1A*	*4998 Warren Street*						*No*	*No*
			OU5-CTA-1A-4998WS-1	7/9/2001	3.6	mg/kg			
			OU5-CTA-1A-4998WS-2	7/9/2001	2.7	mg/kg			
			OU5-CTA-1A-4998WS-3	7/9/2001	2.4	mg/kg			
			OU5-CTA-1A-4998WS-4	7/9/2001	6.3	mg/kg			
			OU5-CTA-1A-4998WS-SB-1	7/9/2001	2.5	mg/kg			
			OU5-CTA-1A-4998WS-SB-2	7/9/2001	3.2	mg/kg			
			OU5-CTA-1A-4998WS-SB-3	7/9/2001	2.7	mg/kg			
			OU5-CTA-1A-4998WS-SB-4	7/9/2001	1.7 J	mg/kg			
			OU5-CTA-1A-4998WS-SB-5	7/9/2001	2.7	mg/kg			
			OU5-CTA-1A-4998WS-SB-6	7/9/2001	1.3 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-4998WS-SB-DUP26	7/9/2001	1.4	J	mg/kg	OU5-CTA-1A-4998WS-SB-6		
CSA	2	5000 Massachusetts Avenue							No	No
			OU5-CSA-2-5000MA-1	10/25/2001	3.3		mg/kg			
			OU5-CSA-2-5000MA-2	10/25/2001	3.2		mg/kg			
CSA	12	5000 Overlook Road							No	No
			OU5-CSA-12-5000OR-1	8/3/2001	5.4		mg/kg			
			OU5-CSA-12-5000OR-2	8/3/2001	4.3		mg/kg			
CSA	12	5000 Rockwood Parkway							No	No
			OU5-CSA-12-5000RP-1	8/10/2001	3.3		mg/kg			
			OU5-CSA-12-5000RP-2	8/10/2001	3.1		mg/kg			
CTA	1C	5000 Van Ness Street							No	No
			OU5-CTA-1C-5000VNS-1	8/13/2001	4.7		mg/kg			
			OU5-CTA-1C-5000VNS-2	8/13/2001	3.8		mg/kg			
			OU5-CTA-1C-5000VNS-3	8/13/2001	3.4		mg/kg			
			OU5-CTA-1C-5000VNS-4	8/13/2001	3		mg/kg			
			OU5-CTA-1C-5000VNS-DUP40	8/13/2001	4.6		mg/kg	OU5-CTA-1C-5000VNS-1		
			OU5-CTA-1C-5000VNS-SB-DUP51	8/13/2001	1.8	J	mg/kg	OU5-CTA-1C-5000VNS-SB5		
			OU5-CTA-1C-5000VNS-SB1	8/13/2001	2.3		mg/kg			
			OU5-CTA-1C-5000VNS-SB2	8/13/2001	2.2		mg/kg			
			OU5-CTA-1C-5000VNS-SB3	8/13/2001	3.3		mg/kg			
			OU5-CTA-1C-5000VNS-SB4	8/13/2001	1.6	J	mg/kg			
			OU5-CTA-1C-5000VNS-SB5	8/13/2001	1.8	J	mg/kg			
			OU5-CTA-1C-5000VNS-SB6	8/13/2001	2.4		mg/kg			
			OU5-CTA-1C-5000VNS-SB7	8/13/2001	0.71	J	mg/kg			
			OU5-CTA-1C-5000VNS-SB8	8/13/2001	0.89	J	mg/kg			
CTA	1A	5000 Warren Street							No	No
			OU5-CTA-1A-5000WS-1	8/30/2001	3.2		mg/kg			
			OU5-CTA-1A-5000WS-2	8/30/2001	3		mg/kg			
			OU5-CTA-1A-5000WS-3	8/30/2001	3.4		mg/kg			
			OU5-CTA-1A-5000WS-4	8/30/2001	2.5		mg/kg			
			OU5-CTA-1A-5000WS-SB-DUP66	8/30/2001	1.1	J	mg/kg	OU5-CTA-1A-5000WS-SB5		
			OU5-CTA-1A-5000WS-SB1	8/30/2001	3.4		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5000WS-SB2	8/30/2001	4.2	mg/kg			
			OU5-CTA-1A-5000WS-SB3	8/30/2001	3.8	mg/kg			
			OU5-CTA-1A-5000WS-SB4	8/30/2001	1 J	mg/kg			
			OU5-CTA-1A-5000WS-SB5	8/30/2001	1 J	mg/kg			
			OU5-CTA-1A-5000WS-SB6	8/30/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5000WS-SB7	8/30/2001	1.5 J	mg/kg			
CSA	*12*	*5001 Loughboro Road*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-12-5001LR-1	8/10/2001	23.6	mg/kg			
			OU5-CSA-12-5001LR-2	8/10/2001	3.1 J	mg/kg			
CSA	*11*	*5001 Rockwood Parkway*						*Yes*	*Yes*
			OU5-CSA-11-5001RP-1	6/11/2001	14.9	mg/kg			
			OU5-CSA-11-5001RP-2	6/11/2001	10	mg/kg			
			OU5-CSA-11-5001RP-SB1	8/7/2001	2.4	mg/kg			
			OU5-CSA-11-5001RP-SB2	8/7/2001	2.5	mg/kg			
			OU5-CSA-11-5001RP-SB3	8/7/2001	0.82 J	mg/kg			
			OU5-CSA-11-5001RP-SB4	8/7/2001	1.6 J	mg/kg			
			OU5-CSA-11-5001RP-SB5	8/7/2001	0.92 J	mg/kg			
			OU5-CSA-11-5001RP-SB6	8/7/2001	3.9	mg/kg			
CTA	*1C*	*5001 Sedgwick Street*						*Yes*	*No*
			OU5-CTA-1C-5001SegS-1	7/23/2001	6.5	mg/kg			
			OU5-CTA-1C-5001SegS-2	7/23/2001	10.6	mg/kg			
			OU5-CTA-1C-5001SegS-3	7/23/2001	3.6	mg/kg			
			OU5-CTA-1C-5001SegS-4	7/23/2001	5.1	mg/kg			
			OU5-CTA-1C-5001SegS-SB-1	7/23/2001	4	mg/kg			
			OU5-CTA-1C-5001SegS-SB-2	7/23/2001	3	mg/kg			
			OU5-CTA-1C-5001SegS-SB-3	7/23/2001	5	mg/kg			
			OU5-CTA-1C-5001SegS-SB-4	7/23/2001	3.1	mg/kg			
			OU5-CTA-1C-5001SegS-SB-5	7/23/2001	2.7	mg/kg			
			OU5-CTA-1C-5001SegS-SB-6	7/23/2001	2.5	mg/kg			
CTA	*1C*	*5001 Upton Street*						*Yes*	*No*
			OU5-CTA-1C-5001US-1	6/11/2001	6.6	mg/kg			
			OU5-CTA-1C-5001US-2	6/11/2001	3	mg/kg			
			OU5-CTA-1C-5001US-3	6/11/2001	7.4	mg/kg			
			OU5-CTA-1C-5001US-4	6/11/2001	5.9	mg/kg			
			OU5-CTA-1C-5001US-SB-1	6/11/2001	5.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5001US-SB-2	6/11/2001	1.2 J	mg/kg			
			OU5-CTA-1C-5001US-SB-3	6/11/2001	0.83 J	mg/kg			
			OU5-CTA-1C-5001US-SB-4	6/11/2001	0.74 J	mg/kg			
			OU5-CTA-1C-5001US-SB-5	6/11/2001	0.75 J	mg/kg			
			OU5-CTA-1C-5001US-SB-6	6/11/2001	0.94 J	mg/kg			
			OU5-CTA-1C-5001US-SB-DUP05	6/11/2001	1.1 J	mg/kg	OU5-CTA-1C-5001US-SB-4		
CTA	*1A*	*5001 Van Ness Street*						*Yes*	*Yes*
			OU5-CTA-1A-5001VNS-1	7/3/2001	5.5	mg/kg			
			OU5-CTA-1A-5001VNS-2	7/3/2001	5.3	mg/kg			
			OU5-CTA-1A-5001VNS-3	7/3/2001	34.7	mg/kg			
			OU5-CTA-1A-5001VNS-4	7/3/2001	4	mg/kg			
			OU5-CTA-1A-5001VNS-DUP16	7/3/2001	35.4	mg/kg	OU5-CTA-1A-5001VNS-3		
			OU5-CTA-1A-5001VNS-SB-1	7/3/2001	2.5	mg/kg			
			OU5-CTA-1A-5001VNS-SB-2	7/3/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5001VNS-SB-3	7/3/2001	0.7 J	mg/kg			
			OU5-CTA-1A-5001VNS-SB-4	7/3/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5001VNS-SB-5	7/3/2001	0.67 J	mg/kg			
			OU5-CTA-1A-5001VNS-SB-6	7/3/2001	0.56 U	mg/kg			
			OU5-CTA-1A-5001VNS-SB-DUP22	7/3/2001	1.2 J	mg/kg	OU5-CTA-1A-5001VNS-SB-4		
CTA	*1A*	*5001 Warren Street*						*No*	*No*
			OU5-CTA-1A-5001WS-1	6/12/2001	2.8	mg/kg			
			OU5-CTA-1A-5001WS-2	6/12/2001	2.3 J	mg/kg			
			OU5-CTA-1A-5001WS-3	6/12/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5001WS-4	6/12/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5001WS-SB1	6/12/2001	1 J	mg/kg			
			OU5-CTA-1A-5001WS-SB2	6/12/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5001WS-SB3	6/12/2001	0.85 J	mg/kg			
			OU5-CTA-1A-5001WS-SB4	6/12/2001	2.8	mg/kg			
			OU5-CTA-1A-5001WS-SB5	6/12/2001	2.9	mg/kg			
			OU5-CTA-1A-5001WS-SB6	6/12/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5001WS-SBDUP05	6/12/2001	1.5 J	mg/kg	OU5-CTA-1A-5001WS-SB3		
CTA	*1A*	*5002 50th Place*						*No*	*No*
			OU5-CTA-1A-5002(50P)-1	8/8/2001	2.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5002(50P)-2	8/8/2001	2.5	mg/kg			
			OU5-CTA-1A-5002(50P)-3	8/8/2001	2.7	mg/kg			
			OU5-CTA-1A-5002(50P)-4	8/8/2001	3	mg/kg			
			OU5-CTA-1A-5002(50P)-DUP37	8/8/2001	2.7	mg/kg	OU5-CTA-1A-5002(50P)-2		
			OU5-CTA-1A-5002(50P)-SB1	8/8/2001	3.6	mg/kg			
			OU5-CTA-1A-5002(50P)-SB2	8/8/2001	2.4	mg/kg			
			OU5-CTA-1A-5002(50P)-SB3	8/8/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5002(50P)-SB4	8/8/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5002(50P)-SB5	8/8/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5002(50P)-SB6	8/8/2001	0.57 U	mg/kg			
CSA	*2*	*5002 Massachusetts Avenue*						*No*	*No*
			OU5-CSA-2A-5002MA-1	6/8/2001	3.9	mg/kg			
			OU5-CSA-2A-5002MA-2	6/8/2001	2.9	mg/kg			
CTA	*1A*	*5002 Warren Street*						*Yes*	*No*
			OU5-CTA-1A-5002WS-1	8/2/2001	2.8	mg/kg			
			OU5-CTA-1A-5002WS-2	8/2/2001	2.3 J	mg/kg			
			OU5-CTA-1A-5002WS-3	8/2/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5002WS-4	8/2/2001	2.4	mg/kg			
			OU5-CTA-1A-5002WS-DUP34	8/2/2001	2.4 J	mg/kg	OU5-CTA-1A-5002WS-4		
			OU5-CTA-1A-5002WS-SB-1	8/2/2001	3.6	mg/kg			
			OU5-CTA-1A-5002WS-SB-2	8/2/2001	3.1	mg/kg			
			OU5-CTA-1A-5002WS-SB-3	8/2/2001	2.5 J	mg/kg			
			OU5-CTA-1A-5002WS-SB-4	8/2/2001	2.3	mg/kg			
			OU5-CTA-1A-5002WS-SB-5	8/2/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5002WS-SB-6	8/2/2001	2.8	mg/kg			
			OU5-CTA-1A-5002WS-SB-7	8/2/2001	3.5	mg/kg			
			OU5-CTA-1A-5002WS-SB-8	8/2/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5002WS-SB-9	8/2/2001	1.8 J	mg/kg			
CTA	*1A*	*5003 Warren Street*						*No*	*No*
			OU5-CTA-1A-5003WS-1	6/12/2001	2.6	mg/kg			
			OU5-CTA-1A-5003WS-2	6/12/2001	2.9	mg/kg			
			OU5-CTA-1A-5003WS-3	6/12/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5003WS-4	6/12/2001	2.6 J	mg/kg			
			OU5-CTA-1A-5003WS-SB1	6/12/2001	2.7	mg/kg			
			OU5-CTA-1A-5003WS-SB2	6/12/2001	3.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5003WS-SB3	6/12/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5003WS-SB4	6/12/2001	2.9	mg/kg			
			OU5-CTA-1A-5003WS-SB5	6/12/2001	0.59 J	mg/kg			
			OU5-CTA-1A-5003WS-SB6	6/12/2001	0.83 J	mg/kg			
			OU5-CTA-1A-5003WS-SB7	6/12/2001	1.7 J	mg/kg			
CTA	*1A*	*5004 50th Place*						*No*	*No*
			OU5-CTA-1A-5004(50P)-1	8/8/2001	2.4	mg/kg			
			OU5-CTA-1A-5004(50P)-2	8/8/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5004(50P)-3	8/8/2001	2 J	mg/kg			
			OU5-CTA-1A-5004(50P)-4	8/8/2001	2.6	mg/kg			
			OU5-CTA-1A-5004(50P)-SB-DUP49	8/8/2001	0.62 J	mg/kg	OU5-CTA-1A-5004(50P)-SB2		
			OU5-CTA-1A-5004(50P)-SB1	8/8/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5004(50P)-SB2	8/8/2001	0.74 J	mg/kg			
			OU5-CTA-1A-5004(50P)-SB3	8/8/2001	0.56 J	mg/kg			
CTA	*1A*	*5004 Warren Street*						*Yes*	*No*
			OU5-CTA-1A-5004WS-1	6/26/2001	2.3	mg/kg			
			OU5-CTA-1A-5004WS-2	6/26/2001	2.5	mg/kg			
			OU5-CTA-1A-5004WS-3	6/26/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5004WS-4	6/26/2001	5.2	mg/kg			
			OU5-CTA-1A-5004WS-SB-1	6/26/2001	2.4	mg/kg			
			OU5-CTA-1A-5004WS-SB-2	6/26/2001	8.1	mg/kg			
			OU5-CTA-1A-5004WS-SB-3	6/26/2001	2.9	mg/kg			
			OU5-CTA-1A-5004WS-SB-4	6/26/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5004WS-SB-5	6/26/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5004WS-SB-6	6/26/2001	1.3 J	mg/kg			
CTA	*1A*	*5005 50th Place*						*No*	*No*
			OU5-CTA-1A-5005(50P)-1	8/8/2001	2.6	mg/kg			
			OU5-CTA-1A-5005(50P)-2	8/8/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5005(50P)-3	8/8/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5005(50P)-4	8/8/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5005(50P)-DUP38	8/8/2001	2.3	mg/kg	OU5-CTA-1A-5005(50P)-1		
			OU5-CTA-1A-5005(50P)-SB-DUP48	8/8/2001	2.2 J	mg/kg	OU5-CTA-1A-5005(50P)-SB6		
			OU5-CTA-1A-5005(50P)-SB1	8/8/2001	2 J	mg/kg			
			OU5-CTA-1A-5005(50P)-SB10	8/8/2001	3.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5005(50P)-SB2	8/8/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5005(50P)-SB3	8/8/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5005(50P)-SB4	8/8/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5005(50P)-SB5	8/8/2001	0.62 U	mg/kg			
			OU5-CTA-1A-5005(50P)-SB6	8/8/2001	2 J	mg/kg			
			OU5-CTA-1A-5005(50P)-SB7	8/8/2001	2.6	mg/kg			
			OU5-CTA-1A-5005(50P)-SB8	8/8/2001	3.1	mg/kg			
			OU5-CTA-1A-5005(50P)-SB9	8/8/2001	2.3	mg/kg			
CTA	***1A***	***5005 Warren Street***						***No***	***No***
			OU5-CTA-1A-5005WS-1	6/15/2001	7.4	mg/kg			
			OU5-CTA-1A-5005WS-2	6/15/2001	3.8	mg/kg			
			OU5-CTA-1A-5005WS-3	6/15/2001	3.7	mg/kg			
			OU5-CTA-1A-5005WS-4	6/15/2001	3	mg/kg			
			OU5-CTA-1A-5005WS-SB-1	6/15/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5005WS-SB-2	6/15/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5005WS-SB-3	6/15/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5005WS-SB-4	6/15/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5005WS-SB-5	6/15/2001	0.38 U	mg/kg			
			OU5-CTA-1A-5005WS-SB-6	6/15/2001	0.72 J	mg/kg			
CTA	***1A***	***5006 50th Place***						***No***	***No***
			OU5-CTA-1A-5006(50P)-1	8/8/2001	2.5	mg/kg			
			OU5-CTA-1A-5006(50P)-2	8/8/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5006(50P)-3	8/8/2001	2.2	mg/kg			
			OU5-CTA-1A-5006(50P)-4	8/8/2001	2.6	mg/kg			
			OU5-CTA-1A-5006(50P)-SB1	8/8/2001	0.97 J	mg/kg			
			OU5-CTA-1A-5006(50P)-SB2	8/8/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5006(50P)-SB3	8/8/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5006(50P)-SB4	8/8/2001	0.51 U	mg/kg			
			OU5-CTA-1A-5006(50P)-SB5	8/8/2001	0.97 J	mg/kg			
CSA	***2***	***5006 Massachusetts Avenue***						***Yes***	***No***
			OU5-CSA-2-5006MA-1	3/26/2002	22.6	mg/kg			
			OU5-CSA-2-5006MA-2	3/26/2002	21.6	mg/kg			
			OU5-CSA-2-5006MA-SB1	3/26/2002	4	mg/kg			
			OU5-CSA-2-5006MA-SB2	3/26/2002	1.8 J	mg/kg			
			OU5-CSA-2-5006MA-SB3	3/26/2002	1.8	mg/kg			
			OU5-CSA-2-5006MA-SB4	3/26/2002	1.9	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-2-5006MA-SB5	3/26/2002	2.8		mg/kg			
			OU5-CSA-2-5006MA-SB6	3/26/2002	1.3	J	mg/kg			
CTA	1C	5006 Tilden Street							No	No
			OU5-CTA-1C-5006TS-1	7/2/2001	5.9		mg/kg			
			OU5-CTA-1C-5006TS-2	7/2/2001	2.3	J	mg/kg			
			OU5-CTA-1C-5006TS-3	7/2/2001	2.9		mg/kg			
			OU5-CTA-1C-5006TS-4	7/2/2001	3		mg/kg			
			OU5-CTA-1C-5006TS-SB-1	7/2/2001	3.4		mg/kg			
			OU5-CTA-1C-5006TS-SB-2	7/2/2001	1.9	J	mg/kg			
			OU5-CTA-1C-5006TS-SB-3	7/2/2001	2.1	J	mg/kg			
			OU5-CTA-1C-5006TS-SB-4	7/2/2001	0.37	U	mg/kg			
			OU5-CTA-1C-5006TS-SB-5	7/2/2001	1.8	J	mg/kg			
			OU5-CTA-1C-5006TS-SB-6	7/2/2001	1	J	mg/kg			
CTA	1A	5006 Warren Street							Yes	No
			OU5-CTA-1A-5006WS-1	6/14/2001	1.7	J	mg/kg			
			OU5-CTA-1A-5006WS-2	6/14/2001	2.9		mg/kg			
			OU5-CTA-1A-5006WS-3	6/14/2001	2.2	J	mg/kg			
			OU5-CTA-1A-5006WS-4	6/14/2001	1.7	J	mg/kg			
			OU5-CTA-1A-5006WS-SB-1	6/14/2001	0.56	J	mg/kg			
			OU5-CTA-1A-5006WS-SB-2	6/14/2001	1.4	J	mg/kg			
			OU5-CTA-1A-5006WS-SB-3	6/14/2001	0.54	J	mg/kg			
			OU5-CTA-1A-5006WS-SB-4	6/14/2001	0.51	J	mg/kg			
			OU5-CTA-1A-5006WS-SB-5	6/14/2001	1.6	J	mg/kg			
			OU5-CTA-1A-5006WS-SB-6	6/14/2001	0.39	J	mg/kg			
CTA	1A	5007 Warren Street							No	No
			OU5-CTA-1A-5007WS-1	11/5/2001	2.9		mg/kg			
			OU5-CTA-1A-5007WS-2	11/5/2001	3.3		mg/kg			
			OU5-CTA-1A-5007WS-3	11/5/2001	2.8		mg/kg			
			OU5-CTA-1A-5007WS-4	11/5/2001	1.7	J	mg/kg			
			OU5-CTA-1A-5007WS-SB-DUP89	11/5/2001	1.5	J	mg/kg	OU5-CTA-1A-5007WS-SB3		
			OU5-CTA-1A-5007WS-SB1	11/5/2001	1.1	J	mg/kg			
			OU5-CTA-1A-5007WS-SB10	11/5/2001	0.56	U	mg/kg			
			OU5-CTA-1A-5007WS-SB2	11/5/2001	1.6	J	mg/kg			
			OU5-CTA-1A-5007WS-SB3	11/5/2001	1	J	mg/kg			
			OU5-CTA-1A-5007WS-SB4	11/5/2001	1.3	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5007WS-SB5	11/5/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5007WS-SB6	11/5/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5007WS-SB7	11/5/2001	0.69 J	mg/kg			
			OU5-CTA-1A-5007WS-SB8	11/5/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5007WS-SB9	11/5/2001	0.57 U	mg/kg			
CSA	*2*	*5007 Yuma Street*						*No*	*No*
			OU5-CSA-2-5007YS-1	9/21/2001	3.7	mg/kg			
			OU5-CSA-2-5007YS-2	9/21/2001	1.6 J	mg/kg			
			OU5-CSA-2-5007YS-DUP65	9/21/2001	1.7 J	mg/kg	OU5-CSA-2-5007YS-2		
CTA	*1A*	*5008 Warren Street*						*Yes*	*No*
			OU5-CTA-1A-5008WS-1	7/31/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5008WS-2	7/31/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5008WS-3	7/31/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5008WS-4	7/31/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5008WS-SB-1	7/31/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5008WS-SB-2	7/31/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5008WS-SB-3	7/31/2001	1 J	mg/kg			
			OU5-CTA-1A-5008WS-SB-4	7/31/2001	0.46 J	mg/kg			
			OU5-CTA-1A-5008WS-SB-5	7/31/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5008WS-SB-6	7/31/2001	1.5 J	mg/kg			
CSA	*12*	*5009 Loughboro Road*						*No*	*No*
			OU5-CSA-12-5009LR-1	9/20/2001	4	mg/kg			
			OU5-CSA-12-5009LR-2	9/20/2001	8.8	mg/kg			
CTA	*1C*	*5009 Tilden Street*						*No*	*No*
			OU5-CTA-1C-5009TS-1	8/27/2001	4.7	mg/kg			
			OU5-CTA-1C-5009TS-2	8/27/2001	4.6	mg/kg			
			OU5-CTA-1C-5009TS-3	8/27/2001	4.1	mg/kg			
			OU5-CTA-1C-5009TS-4	8/27/2001	4.9	mg/kg			
			OU5-CTA-1C-5009TS-SB1	8/27/2001	2.6	mg/kg			
			OU5-CTA-1C-5009TS-SB2	8/27/2001	2.7	mg/kg			
			OU5-CTA-1C-5009TS-SB3	8/27/2001	3.3	mg/kg			
			OU5-CTA-1C-5009TS-SB4	8/27/2001	1.7 J	mg/kg			
			OU5-CTA-1C-5009TS-SB5	8/27/2001	0.56 U	mg/kg			
			OU5-CTA-1C-5009TS-SB6	8/27/2001	1.2 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1C	5009 Upton Street							No	No
			OU5-CTA-1C-5009US-1	8/29/2002	3.5		mg/kg			
			OU5-CTA-1C-5009US-2	8/29/2002	3.8		mg/kg			
			OU5-CTA-1C-5009US-3	8/29/2002	10.7		mg/kg			
			OU5-CTA-1C-5009US-4	8/29/2002	5.7		mg/kg			
			OU5-CTA-1C-5009US-SB1	8/29/2002	6		mg/kg			
			OU5-CTA-1C-5009US-SB2	8/29/2002	4		mg/kg			
			OU5-CTA-1C-5009US-SB3	8/29/2002	0.68	J	mg/kg			
			OU5-CTA-1C-5009US-SB4	8/29/2002	0.9	J	mg/kg			
			OU5-CTA-1C-5009US-SB5	8/29/2002	1.1	J	mg/kg			
			OU5-CTA-1C-5009US-SB6	8/29/2002	0.73	J	mg/kg			
CTA	1A	5009 Warren Street							No	No
			OU5-CTA-1A-5009WS-1	7/9/2001	4.3		mg/kg			
			OU5-CTA-1A-5009WS-2	7/9/2001	6.4		mg/kg			
			OU5-CTA-1A-5009WS-3	7/9/2001	2.3	J	mg/kg			
			OU5-CTA-1A-5009WS-4	7/9/2001	2	J	mg/kg			
			OU5-CTA-1A-5009WS-DUP18	7/9/2001	5.9		mg/kg	OU5-CTA-1A-5009WS-1		
			OU5-CTA-1A-5009WS-SB-1	7/9/2001	1.5	J	mg/kg			
			OU5-CTA-1A-5009WS-SB-2	7/9/2001	2.7	L	mg/kg			
			OU5-CTA-1A-5009WS-SB-3	7/9/2001	1.3	J	mg/kg			
			OU5-CTA-1A-5009WS-SB-4	7/9/2001	5.2	L	mg/kg			
			OU5-CTA-1A-5009WS-SB-5	7/9/2001	1.2	J	mg/kg			
			OU5-CTA-1A-5009WS-SB-6	7/9/2001	0.5	J	mg/kg			
CSA	2	5010 Massachusetts Avenue							Yes	No
			OU5-CSA-2-5010MA-1	11/12/2001	3.7		mg/kg			
			OU5-CSA-2-5010MA-2	11/12/2001	3.1		mg/kg			
			OU5-CSA-2-5010MA-SB-DUP92	11/12/2001	0.58	U	mg/kg	OU5-CSA-2-5010MA-SB6		
			OU5-CSA-2-5010MA-SB1	11/12/2001	2.3		mg/kg			
			OU5-CSA-2-5010MA-SB2	11/12/2001	1.7	J	mg/kg			
			OU5-CSA-2-5010MA-SB3	11/12/2001	0.92	J	mg/kg			
			OU5-CSA-2-5010MA-SB4	11/12/2001	2.2	J	mg/kg			
			OU5-CSA-2-5010MA-SB5	11/12/2001	2.1	J	mg/kg			
			OU5-CSA-2-5010MA-SB6	11/12/2001	0.58	U	mg/kg			
			OU5-CSA-2-5010MA-SB7	11/12/2001	3.4		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	12	5010 Overlook Road							No	No
			OU5-CSA-12-5010OR-1	10/26/2001	3.5		mg/kg			
			OU5-CSA-12-5010OR-2	10/26/2001	2.2	J	mg/kg			
CTA	1C	5010 Sedgwick Street							No	No
			OU5-CTA-1C-5010SegS-1	11/6/2001	4.3		mg/kg			
			OU5-CTA-1C-5010SegS-2	11/6/2001	4.8		mg/kg			
			OU5-CTA-1C-5010SegS-3	11/6/2001	4.4		mg/kg			
			OU5-CTA-1C-5010SegS-4	11/6/2001	3.6		mg/kg			
			OU5-CTA-1C-5010SegS-SB1	11/6/2001	3.8		mg/kg			
			OU5-CTA-1C-5010SegS-SB2	11/6/2001	2.3		mg/kg			
			OU5-CTA-1C-5010SegS-SB3	11/6/2001	2.1	J	mg/kg			
			OU5-CTA-1C-5010SegS-SB4	11/6/2001	1.1	J	mg/kg			
			OU5-CTA-1C-5010SegS-SB5	11/6/2001	1.2	J	mg/kg			
			OU5-CTA-1C-5010SegS-SB6	11/6/2001	1.3	J	mg/kg			
CTA	1C	5010 Van Ness Street							Yes	No
			OU5-CTA-1C-5010VNS-1	6/14/2001	3.8		mg/kg			
			OU5-CTA-1C-5010VNS-2	6/14/2001	4		mg/kg			
			OU5-CTA-1C-5010VNS-3	6/14/2001	3.5		mg/kg			
			OU5-CTA-1C-5010VNS-4	6/14/2001	4.8		mg/kg			
			OU5-CTA-1C-5010VNS-SB1	6/14/2001	4.3		mg/kg			
			OU5-CTA-1C-5010VNS-SB2	6/14/2001	1.7	J	mg/kg			
			OU5-CTA-1C-5010VNS-SB3	6/14/2001	0.39	J	mg/kg			
			OU5-CTA-1C-5010VNS-SB4	6/14/2001	1	J	mg/kg			
			OU5-CTA-1C-5010VNS-SB5	6/14/2001	0.64	J	mg/kg			
			OU5-CTA-1C-5010VNS-SB6	6/14/2001	0.98	J	mg/kg			
CTA	1A	5010 Warren Street							No	No
			OU5-CTA-1A-5010WS-1	7/10/2001	2.6		mg/kg			
			OU5-CTA-1A-5010WS-2	7/10/2001	2.3	J	mg/kg			
			OU5-CTA-1A-5010WS-3	7/10/2001	2	J	mg/kg			
			OU5-CTA-1A-5010WS-4	7/10/2001	1.1	J	mg/kg			
			OU5-CTA-1A-5010WS-SB1	7/10/2001	1.7	J	mg/kg			
			OU5-CTA-1A-5010WS-SB2	7/10/2001	1.6	J	mg/kg			
			OU5-CTA-1A-5010WS-SB3	7/10/2001	2.7		mg/kg			
			OU5-CTA-1A-5010WS-SB4	7/10/2001	0.62	J	mg/kg			
			OU5-CTA-1A-5010WS-SB5	7/10/2001	0.76	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5010WS-SB6	7/10/2001	0.98	J	mg/kg			
CSA	12	5011 Overlook Road							No	No
			OU5-CSA-12-5011OR-1	8/3/2001	3.6		mg/kg			
			OU5-CSA-12-5011OR-2	8/3/2001	4		mg/kg			
CTA	1C	5011 Sedgwick Street							Yes	Yes
			OU5-CTA-1C-5011SegS-1	6/21/2001	4.5		mg/kg			
			OU5-CTA-1C-5011SegS-2	6/21/2001	6.5		mg/kg			
			OU5-CTA-1C-5011SegS-3	6/21/2001	15.4		mg/kg			
			OU5-CTA-1C-5011SegS-4	6/21/2001	7.3		mg/kg			
			OU5-CTA-1C-5011SegS-SB1	6/21/2001	3.9		mg/kg			
			OU5-CTA-1C-5011SegS-SB2	6/21/2001	1.2	J	mg/kg			
			OU5-CTA-1C-5011SegS-SB3	6/21/2001	3.6		mg/kg			
			OU5-CTA-1C-5011SegS-SB4	6/21/2001	2.1	J	mg/kg			
			OU5-CTA-1C-5011SegS-SB5	6/21/2001	2.8		mg/kg			
			OU5-CTA-1C-5011SegS-SB6	6/21/2001	3.6		mg/kg			
CTA	1A	5011 Warren Street							Yes	No
			OU5-CTA-1A-5011WS-1	6/8/2001	4.9		mg/kg			
			OU5-CTA-1A-5011WS-2	6/8/2001	2.5		mg/kg			
			OU5-CTA-1A-5011WS-3	6/8/2001	1.5	J	mg/kg			
			OU5-CTA-1A-5011WS-4	6/8/2001	2	J	mg/kg			
			OU5-CTA-1A-5011WS-SB-1	6/8/2001	0.72	J	mg/kg			
			OU5-CTA-1A-5011WS-SB-2	6/8/2001	0.7	J	mg/kg			
			OU5-CTA-1A-5011WS-SB-3	6/8/2001	1.3	J	mg/kg			
CSA	2	5012 Massachusetts Avenue							Yes	No
			OU5-CSA-2-5012MA-1	3/20/2002	2.7		mg/kg			
			OU5-CSA-2-5012MA-2	3/20/2002	4.1		mg/kg			
			OU5-CSA-2-5012MA-SB-DUP104	3/20/2002	0.5	J	mg/kg	OU5-CSA-2-5012MA-SB5		
			OU5-CSA-2-5012MA-SB1	3/20/2002	3.4		mg/kg			
			OU5-CSA-2-5012MA-SB2	3/20/2002	2.2		mg/kg			
			OU5-CSA-2-5012MA-SB3	3/20/2002	2.3		mg/kg			
			OU5-CSA-2-5012MA-SB4	3/20/2002	2.5		mg/kg			
			OU5-CSA-2-5012MA-SB5	3/20/2002	0.68	J	mg/kg			
			OU5-CSA-2-5012MA-SB6	3/20/2002	1	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1C	5012 Tilden Street							No	No
			OU5-CTA-1C-5012TS-1	6/27/2001	6.1		mg/kg			
			OU5-CTA-1C-5012TS-2	6/27/2001	4.1		mg/kg			
			OU5-CTA-1C-5012TS-3	6/27/2001	6		mg/kg			
			OU5-CTA-1C-5012TS-4	6/27/2001	11.2		mg/kg			
			OU5-CTA-1C-5012TS-SB-1	6/27/2001	1.3	J	mg/kg			
			OU5-CTA-1C-5012TS-SB-2	6/27/2001	1.1	J	mg/kg			
			OU5-CTA-1C-5012TS-SB-3	6/27/2001	2.5		mg/kg			
			OU5-CTA-1C-5012TS-SB-4	6/27/2001	1.4	J	mg/kg			
			OU5-CTA-1C-5012TS-SB-5	6/27/2001	1.3	J	mg/kg			
			OU5-CTA-1C-5012TS-SB-6	6/27/2001	3.1		mg/kg			
CTA	1A	5012 Warren Street							No	No
			OU5-CTA-1A-5012WS-1	6/8/2001	2.2	J	mg/kg			
			OU5-CTA-1A-5012WS-2	6/8/2001	2.2	J	mg/kg			
			OU5-CTA-1A-5012WS-3	6/8/2001	1.5	J	mg/kg			
			OU5-CTA-1A-5012WS-4	6/8/2001	1.9	J	mg/kg			
			OU5-CTA-1A-5012WS-SB-1	6/8/2001	1	J	mg/kg			
			OU5-CTA-1A-5012WS-SB-2	6/8/2001	1.5	J	mg/kg			
			OU5-CTA-1A-5012WS-SB-3	6/8/2001	1.9	J	mg/kg			
			OU5-CTA-1A-5012WS-SB-4	6/8/2001	0.68	J	mg/kg			
			OU5-CTA-1A-5012WS-SB-5	6/8/2001	0.93	J	mg/kg			
			OU5-CTA-1A-5012WS-SB-6	6/8/2001	1.7	J	mg/kg			
CTA	1A	5013 Warren Street							Yes	No
			OU5-CTA-1A-5013WS-1	6/26/2001	1.7	J	mg/kg			
			OU5-CTA-1A-5013WS-2	6/26/2001	2.1	J	mg/kg			
			OU5-CTA-1A-5013WS-3	6/26/2001	2.4		mg/kg			
			OU5-CTA-1A-5013WS-4	6/26/2001	2.5		mg/kg			
			OU5-CTA-1A-5013WS-DUP13	6/26/2001	1.8	J	mg/kg	OU5-CTA-1A-5013WS-2		
			OU5-CTA-1A-5013WS-SB-1	6/26/2001	0.56	U	mg/kg			
			OU5-CTA-1A-5013WS-SB-2	6/26/2001	0.57	U	mg/kg			
			OU5-CTA-1A-5013WS-SB-3	6/26/2001	0.56	U	mg/kg			
CTA	1A	5014 Warren Street							No	No
			OU5-CTA-1A-5014WS-1	7/3/2001	3.2		mg/kg			
			OU5-CTA-1A-5014WS-2	7/3/2001	3.8		mg/kg			
			OU5-CTA-1A-5014WS-3	7/3/2001	1.6	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5014WS-4	7/3/2001	2.5	J	mg/kg			
			OU5-CTA-1A-5014WS-DUP17	7/3/2001	3.9		mg/kg	OU5-CTA-1A-5014WS-2		
			OU5-CTA-1A-5014WS-SB-1	7/3/2001	2.7		mg/kg			
			OU5-CTA-1A-5014WS-SB-2	7/3/2001	3.3		mg/kg			
			OU5-CTA-1A-5014WS-SB-3	7/3/2001	3.2		mg/kg			
			OU5-CTA-1A-5014WS-SB-4	7/3/2001	2.2	J	mg/kg			
			OU5-CTA-1A-5014WS-SB-5	7/3/2001	2	J	mg/kg			
			OU5-CTA-1A-5014WS-SB-6	7/3/2001	2.1	J	mg/kg			
CSA	***12***	***5015 Overlook Road***							***No***	***No***
			OU5-CSA-12-5015OR-1	8/3/2001	4.1		mg/kg			
			OU5-CSA-12-5015OR-2	8/3/2001	5.5		mg/kg			
CTA	***1C***	***5015 Rockwood Parkway***							***No***	***No***
			OU5-CTA-1C-5015RP-1	6/11/2001	5.5		mg/kg			
			OU5-CTA-1C-5015RP-2	6/11/2001	5.5		mg/kg			
			OU5-CTA-1C-5015RP-3	6/11/2001	4.8		mg/kg			
			OU5-CTA-1C-5015RP-4	6/11/2001	4.3		mg/kg			
			OU5-CTA-1C-5015RP-DUP04	6/11/2001	4.1		mg/kg	OU5-CTA-1C-5015RP-4		
			OU5-CTA-1C-5015RP-SB-1	6/11/2001	2.1	J	mg/kg			
			OU5-CTA-1C-5015RP-SB-2	6/11/2001	3.9		mg/kg			
			OU5-CTA-1C-5015RP-SB-3	6/11/2001	2.8		mg/kg			
			OU5-CTA-1C-5015RP-SB-4	6/11/2001	0.97	J	mg/kg			
			OU5-CTA-1C-5015RP-SB-5	6/11/2001	1.5	J	mg/kg			
			OU5-CTA-1C-5015RP-SB-6	6/11/2001	1.3	J	mg/kg			
			OU5-CTA-1C-5015RP-SB-7	6/11/2001	2.3	J	mg/kg			
CTA	***1A***	***5015 Van Ness Street***							***Yes***	***No***
			OU5-CTA-1A-5015VNS-1	6/8/2001	2.8	J	mg/kg			
			OU5-CTA-1A-5015VNS-2	6/8/2001	4.1		mg/kg			
			OU5-CTA-1A-5015VNS-3	6/8/2001	2.1	J	mg/kg			
			OU5-CTA-1A-5015VNS-4	6/8/2001	3		mg/kg			
			OU5-CTA-1A-5015VNS-SB-1	6/8/2001	1.4	J	mg/kg			
			OU5-CTA-1A-5015VNS-SB-2	6/8/2001	0.99	J	mg/kg			
			OU5-CTA-1A-5015VNS-SB-3	6/8/2001	0.5	J	mg/kg			
			OU5-CTA-1A-5015VNS-SB-4	6/8/2001	0.8	J	mg/kg			
			OU5-CTA-1A-5015VNS-SB-5	6/8/2001	0.55	J	mg/kg			
			OU5-CTA-1A-5015VNS-SB-6	6/8/2001	0.57	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5015VNS-SB-DUP03	6/8/2001	2.4	mg/kg	OU5-CTA-1A-5015VNS-SB-2		
CTA	1A	5015 Warren Street						Yes	No
			OU5-CTA-1A-5015WS-1	6/8/2001	3.6	mg/kg			
			OU5-CTA-1A-5015WS-2	6/8/2001	4.7	mg/kg			
			OU5-CTA-1A-5015WS-3	6/8/2001	2.5 J	mg/kg			
			OU5-CTA-1A-5015WS-4	6/8/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5015WS-SB-1	6/8/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5015WS-SB-2	6/8/2001	0.61 J	mg/kg			
			OU5-CTA-1A-5015WS-SB-3	6/8/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5015WS-SB-4	6/8/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5015WS-SB-5	6/8/2001	0.95 J	mg/kg			
			OU5-CTA-1A-5015WS-SB-6	6/8/2001	0.7 J	mg/kg			
CTA	1C	5016 Upton Street						No	No
			OU5-CTA-1C-5016US-1	6/12/2001	3.7	mg/kg			
			OU5-CTA-1C-5016US-2	6/12/2001	3.3	mg/kg			
			OU5-CTA-1C-5016US-3	6/12/2001	3.5	mg/kg			
			OU5-CTA-1C-5016US-4	6/12/2001	3.4	mg/kg			
			OU5-CTA-1C-5016US-SB1	6/12/2001	0.4 U	mg/kg			
			OU5-CTA-1C-5016US-SB2	6/12/2001	0.48 J	mg/kg			
			OU5-CTA-1C-5016US-SB3	6/12/2001	1.2 J	mg/kg			
			OU5-CTA-1C-5016US-SB4	6/12/2001	0.44 U	mg/kg			
			OU5-CTA-1C-5016US-SB5	6/12/2001	0.51 J	mg/kg			
			OU5-CTA-1C-5016US-SB6	6/12/2001	1.2 J	mg/kg			
CTA	1A	5016 Warren Street						No	No
			OU5-CTA-1A-5016WS-1	7/18/2001	3.5	mg/kg			
			OU5-CTA-1A-5016WS-2	7/18/2001	2.6	mg/kg			
			OU5-CTA-1A-5016WS-3	7/18/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5016WS-4	7/18/2001	2 J	mg/kg			
			OU5-CTA-1A-5016WS-DUP-23	7/18/2001	2.5	mg/kg	OU5-CTA-1A-5016WS-2		
			OU5-CTA-1A-5016WS-SB1	7/18/2001	2 J	mg/kg			
			OU5-CTA-1A-5016WS-SB2	7/18/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5016WS-SB3	7/18/2001	0.93 J	mg/kg			
			OU5-CTA-1A-5016WS-SB4	7/18/2001	2.9	mg/kg			
			OU5-CTA-1A-5016WS-SB5	7/18/2001	0.84 J	mg/kg			
			OU5-CTA-1A-5016WS-SB6	7/18/2001	1.1 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	12	5017 Loughboro Road						No	Yes + 1' arsenic boring
			OU5-CSA-12-5017LR-1	9/20/2001	9.3	mg/kg			
			OU5-CSA-12-5017LR-2	9/20/2001	16.2	mg/kg			
CTA	1C	5017 Tilden Street						No	No
			OU5-CTA-1C-5017TS-1	8/14/2001	2.9	mg/kg			
			OU5-CTA-1C-5017TS-2	8/14/2001	4.9	mg/kg			
			OU5-CTA-1C-5017TS-3	8/14/2001	3.3	mg/kg			
			OU5-CTA-1C-5017TS-4	8/14/2001	3.8	mg/kg			
			OU5-CTA-1C-5017TS-DUP41	8/14/2001	3.2	mg/kg	OU5-CTA-1C-5017TS-2		
			OU5-CTA-1C-5017TS-SB-DUP53	8/14/2001	2.2 J	mg/kg	OU5-CTA-1C-5017TS-SB3		
			OU5-CTA-1C-5017TS-SB1	8/14/2001	3.1	mg/kg			
			OU5-CTA-1C-5017TS-SB2	8/14/2001	2.2 J	mg/kg			
			OU5-CTA-1C-5017TS-SB3	8/14/2001	1.5 J	mg/kg			
			OU5-CTA-1C-5017TS-SB4	8/14/2001	2.7	mg/kg			
			OU5-CTA-1C-5017TS-SB5	8/14/2001	3.5	mg/kg			
			OU5-CTA-1C-5017TS-SB6	8/14/2001	3.4	mg/kg			
			OU5-CTA-1C-5017TS-SB7	8/14/2001	4.5	mg/kg			
			OU5-CTA-1C-5017TS-SB8	8/14/2001	1.8 J	mg/kg			
			OU5-CTA-1C-5017TS-SB9	8/14/2001	2 J	mg/kg			
CTA	1C	5017 Upton Street						No	No
			OU5-CTA-1C-5017US-1	6/18/2001	3.5	mg/kg			
			OU5-CTA-1C-5017US-2	6/18/2001	2.9	mg/kg			
			OU5-CTA-1C-5017US-3	6/18/2001	6.1	mg/kg			
			OU5-CTA-1C-5017US-4	6/18/2001	4.1	mg/kg			
			OU5-CTA-1C-5017US-SB-1	6/18/2001	2.4	mg/kg			
			OU5-CTA-1C-5017US-SB-2	6/18/2001	2.6	mg/kg			
			OU5-CTA-1C-5017US-SB-3	6/18/2001	0.99	mg/kg			
			OU5-CTA-1C-5017US-SB-4	6/18/2001	2.1	mg/kg			
			OU5-CTA-1C-5017US-SB-5	6/18/2001	2.5	mg/kg			
			OU5-CTA-1C-5017US-SB-6	6/18/2001	1.3	mg/kg			
			OU5-CTA-1C-5017US-SBDUP10	6/18/2001	0.97	mg/kg	OU5-CTA-1C-5017US-SB-6		
CTA	1C	5018 Tilden Street						No	No
			OU5-CTA-1C-5018TS-1	8/22/2001	7.7	mg/kg			
			OU5-CTA-1C-5018TS-2	8/22/2001	6.6 U	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5018TS-3	8/22/2001	5.5		mg/kg			
			OU5-CTA-1C-5018TS-4	8/22/2001	3.3		mg/kg			
			OU5-CTA-1C-5018TS-SB-DUP60	8/22/2001	2.5		mg/kg	OU5-CTA-1C-5018TS-SB4		
			OU5-CTA-1C-5018TS-SB1	8/22/2001	2.7		mg/kg			
			OU5-CTA-1C-5018TS-SB10	8/22/2001	3.7		mg/kg			
			OU5-CTA-1C-5018TS-SB2	8/22/2001	3.9		mg/kg			
			OU5-CTA-1C-5018TS-SB3	8/22/2001	3.6		mg/kg			
			OU5-CTA-1C-5018TS-SB4	8/22/2001	3.2		mg/kg			
			OU5-CTA-1C-5018TS-SB5	8/22/2001	6.7		mg/kg			
			OU5-CTA-1C-5018TS-SB6	8/22/2001	3.9		mg/kg			
			OU5-CTA-1C-5018TS-SB7	8/22/2001	4.7		mg/kg			
			OU5-CTA-1C-5018TS-SB8	8/22/2001	4.6		mg/kg			
			OU5-CTA-1C-5018TS-SB9	8/22/2001	2.9		mg/kg			
CTA	*1C*	*5018 Van Ness Street*							*No*	*No*
			OU5-CTA-1C-5018VNS-1	6/8/2001	3.5		mg/kg			
			OU5-CTA-1C-5018VNS-2	6/8/2001	2.7		mg/kg			
			OU5-CTA-1C-5018VNS-3	6/8/2001	3.8		mg/kg			
			OU5-CTA-1C-5018VNS-4	6/8/2001	2.4	J	mg/kg			
			OU5-CTA-1C-5018VNS-SB-1	6/8/2001	1.4	J	mg/kg			
			OU5-CTA-1C-5018VNS-SB-2	6/8/2001	0.48	J	mg/kg			
			OU5-CTA-1C-5018VNS-SB-3	6/8/2001	1.1	J	mg/kg			
			OU5-CTA-1C-5018VNS-SB-4	6/8/2001	0.6	J	mg/kg			
			OU5-CTA-1C-5018VNS-SB-5	6/8/2001	0.86	J	mg/kg			
			OU5-CTA-1C-5018VNS-SB-6	6/8/2001	0.46	J	mg/kg			
CTA	*1A*	*5018 Warren Street*							*No*	*No*
			OU5-CTA-1A-5018WS-1	6/11/2001	1.9	J	mg/kg			
			OU5-CTA-1A-5018WS-2	6/11/2001	2.4		mg/kg			
			OU5-CTA-1A-5018WS-3	6/11/2001	2.5		mg/kg			
			OU5-CTA-1A-5018WS-4	6/11/2001	1.8	J	mg/kg			
			OU5-CTA-1A-5018WS-SB-1	6/11/2001	3.2		mg/kg			
			OU5-CTA-1A-5018WS-SB-2	6/11/2001	3.5		mg/kg			
			OU5-CTA-1A-5018WS-SB-3	6/11/2001	2.7		mg/kg			
			OU5-CTA-1A-5018WS-SB-4	6/11/2001	2.1	J	mg/kg			
			OU5-CTA-1A-5018WS-SB-5	6/11/2001	0.92	J	mg/kg			
			OU5-CTA-1A-5018WS-SB-6	6/11/2001	0.64	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1C	5019 Sedgwick Street						No	No
			OU5-CTA-1C-5019SegS-1	7/5/2001	6.2	mg/kg			
			OU5-CTA-1C-5019SegS-2	7/5/2001	8.6	mg/kg			
			OU5-CTA-1C-5019SegS-3	7/5/2001	3.7	mg/kg			
			OU5-CTA-1C-5019SegS-4	7/5/2001	2.3 J	mg/kg			
			OU5-CTA-1C-5019SegS-SB-1	7/5/2001	0.78 J	mg/kg			
			OU5-CTA-1C-5019SegS-SB-2	7/5/2001	1 J	mg/kg			
			OU5-CTA-1C-5019SegS-SB-3	7/5/2001	5.1	mg/kg			
			OU5-CTA-1C-5019SegS-SB-4	7/5/2001	0.9 J	mg/kg			
			OU5-CTA-1C-5019SegS-SB-5	7/5/2001	1.6 J	mg/kg			
			OU5-CTA-1C-5019SegS-SB-6	7/5/2001	1.6 J	mg/kg			
CTA	1A	5019 Warren Street						No	No
			OU5-CTA-1A-5019WS-1	1/8/2002	3	mg/kg			
			OU5-CTA-1A-5019WS-2	1/8/2002	3.3	mg/kg			
			OU5-CTA-1A-5019WS-3	1/8/2002	2.8	mg/kg			
			OU5-CTA-1A-5019WS-4	1/8/2002	2.1	mg/kg			
			OU5-CTA-1A-5019WS-SB1	1/8/2002	2.5	mg/kg			
			OU5-CTA-1A-5019WS-SB2	1/8/2002	1.2 J	mg/kg			
			OU5-CTA-1A-5019WS-SB3	1/8/2002	2.2	mg/kg			
			OU5-CTA-1A-5019WS-SB4	1/8/2002	1.1 J	mg/kg			
			OU5-CTA-1A-5019WS-SB5	1/8/2002	2.5	mg/kg			
			OU5-CTA-1A-5019WS-SB6	1/8/2002	0.72 J	mg/kg			
			OU5-CTA-1A-5019WS-SB7	1/8/2002	0.57 J	mg/kg			
			OU5-CTA-1A-5019WS-SBDUP100	1/8/2002	1.4 J	mg/kg	OU5-CTA-1A-5019WS-SB2		
CSA	12	5020 Overlook Road						No	No
			OU5-CSA-12-5020OR-1	8/3/2001	5.1	mg/kg			
			OU5-CSA-12-5020OR-2	8/3/2001	6.1	mg/kg			
CTA	1C	5020 Sedgwick Street						No	No
			OU5-CTA-1C-5020SegS-1	7/17/2001	11.3	mg/kg			
			OU5-CTA-1C-5020SegS-2	7/17/2001	7.2	mg/kg			
			OU5-CTA-1C-5020SegS-3	7/17/2001	8.1	mg/kg			
			OU5-CTA-1C-5020SegS-4	7/17/2001	10.1	mg/kg			
			OU5-CTA-1C-5020SegS-DUP-22	7/17/2001	11.5	mg/kg	OU5-CTA-1C-5020SegS-1		
			OU5-CTA-1C-5020SegS-SB1	7/17/2001	5.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5020SegS-SB2	7/17/2001	3.8	mg/kg			
			OU5-CTA-1C-5020SegS-SB3	7/17/2001	3.1	mg/kg			
			OU5-CTA-1C-5020SegS-SB4	7/17/2001	3.9	mg/kg			
			OU5-CTA-1C-5020SegS-SB5	7/17/2001	2.5	mg/kg			
			OU5-CTA-1C-5020SegS-SB6	7/17/2001	4.1	mg/kg			
			OU5-CTA-1C-5020SegS-SBDUP33	7/17/2001	4.7	mg/kg	OU5-CTA-1C-5020SegS-SB6		
CTA	***1A***	***5020 Warren Street***						***No***	***No***
			OU5-CTA-1A-5020WS-1	3/19/2002	3.6	mg/kg			
			OU5-CTA-1A-5020WS-2	3/19/2002	2.9	mg/kg			
			OU5-CTA-1A-5020WS-3	3/19/2002	1.7 J	mg/kg			
			OU5-CTA-1A-5020WS-4	3/19/2002	1.8	mg/kg			
			OU5-CTA-1A-5020WS-DUP105	3/19/2002	2.8	mg/kg	OU5-CTA-1A-5020WS-1		
			OU5-CTA-1A-5020WS-SB-DUP102	3/19/2002	2.5	mg/kg	OU5-CTA-1A-5020WS-SB4		
			OU5-CTA-1A-5020WS-SB1	3/19/2002	2.9	mg/kg			
			OU5-CTA-1A-5020WS-SB2	3/19/2002	1.7	mg/kg			
			OU5-CTA-1A-5020WS-SB3	3/19/2002	1.3 J	mg/kg			
			OU5-CTA-1A-5020WS-SB4	3/19/2002	2.5	mg/kg			
			OU5-CTA-1A-5020WS-SB5	3/19/2002	1.5	mg/kg			
			OU5-CTA-1A-5020WS-SB6	3/19/2002	1 J	mg/kg			
CSA	***12***	***5021 Loughboro Road***						***No***	***No***
			OU5-CSA-12-5021LR-1	9/20/2001	6.7	mg/kg			
			OU5-CSA-12-5021LR-2	9/20/2001	6.6	mg/kg			
CTA	***1A***	***5021 Van Ness Street***						***No***	***No***
			OU5-CTA-1A-5021VNS-1	6/20/2001	7.3	mg/kg			
			OU5-CTA-1A-5021VNS-2	6/20/2001	5.2	mg/kg			
			OU5-CTA-1A-5021VNS-3	6/20/2001	3.4	mg/kg			
			OU5-CTA-1A-5021VNS-4	6/20/2001	6.6	mg/kg			
			OU5-CTA-1A-5021VNS-SB-1	6/20/2001	2.9	mg/kg			
			OU5-CTA-1A-5021VNS-SB-2	6/20/2001	5	mg/kg			
			OU5-CTA-1A-5021VNS-SB-3	6/20/2001	2.6	mg/kg			
			OU5-CTA-1A-5021VNS-SB-4	6/20/2001	1.8	mg/kg			
			OU5-CTA-1A-5021VNS-SB-5	6/20/2001	2.3	mg/kg			
			OU5-CTA-1A-5021VNS-SB-6	6/20/2001	2.9	mg/kg			
			OU5-CTA-1A-5021VNS-SB-7	6/20/2001	2.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5021VNS-SB-8	6/20/2001	0.41	mg/kg			
			OU5-CTA-1A-5021VNS-SB-9	6/20/2001	1.3	mg/kg			
			OU5-CTA-1A-5021VNS-SB-DUP13	6/20/2001	0.41	mg/kg	OU5-CTA-1A-5021VNS-SB-8		
CTA	**1A**	**5021 Warren Street**						**No**	**No**
			OU5-CTA-1A-5021WS-1	7/31/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5021WS-2	7/31/2001	2.2 J	mg/kg			
			OU5-CTA-1A-5021WS-3	7/31/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5021WS-4	7/31/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5021WS-DUP38	7/31/2001	1.4 J	mg/kg	OU5-CTA-1A-5021WS-3		
			OU5-CTA-1A-5021WS-SB-1	7/31/2001	2.2 J	mg/kg			
			OU5-CTA-1A-5021WS-SB-2	7/31/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5021WS-SB-3	7/31/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5021WS-SB-4	7/31/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5021WS-SB-5	7/31/2001	2.4	mg/kg			
			OU5-CTA-1A-5021WS-SB-6	7/31/2001	2 J	mg/kg			
			OU5-CTA-1A-5021WS-SB-DUP43	7/31/2001	2.4	mg/kg	OU5-CTA-1A-5021WS-SB-5		
CTA	**1A**	**5022 Warren Street**						**No**	**No**
			OU5-CTA-1A-5022WS-1	8/29/2001	4.4	mg/kg			
			OU5-CTA-1A-5022WS-2	8/29/2001	3.3	mg/kg			
			OU5-CTA-1A-5022WS-3	8/29/2001	2.4 J	mg/kg			
			OU5-CTA-1A-5022WS-4	8/29/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5022WS-SB1	8/29/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5022WS-SB2	8/29/2001	2.5	mg/kg			
			OU5-CTA-1A-5022WS-SB3	8/29/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5022WS-SB4	8/29/2001	2.4	mg/kg			
			OU5-CTA-1A-5022WS-SB5	8/29/2001	2.2	mg/kg			
			OU5-CTA-1A-5022WS-SB6	8/29/2001	3	mg/kg			
			OU5-CTA-1A-5022WS-SB7	8/29/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5022WS-SB8	8/29/2001	5.2	mg/kg			
CTA	**1A**	**5023 Warren Street**						**No**	**No**
			OU5-CTA-1A-5023WS-1	6/19/2001	2.3 J	mg/kg			
			OU5-CTA-1A-5023WS-2	6/19/2001	2.3 J	mg/kg			
			OU5-CTA-1A-5023WS-3	6/19/2001	2.4	mg/kg			
			OU5-CTA-1A-5023WS-4	6/19/2001	2.9	mg/kg			
			OU5-CTA-1A-5023WS-SB-1	6/19/2001	2.3 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5023WS-SB-2	6/19/2001	2.9		mg/kg			
			OU5-CTA-1A-5023WS-SB-3	6/19/2001	2.5		mg/kg			
			OU5-CTA-1A-5023WS-SB-4	6/19/2001	2.6		mg/kg			
			OU5-CTA-1A-5023WS-SB-5	6/19/2001	1.7	J	mg/kg			
			OU5-CTA-1A-5023WS-SB-6	6/19/2001	1.1	J	mg/kg			
			OU5-CTA-1A-5023WS-SB-DUP12	6/19/2001	2.3		mg/kg	OU5-CTA-1A-5023WS-SB-6		
CTA	*1C*	*5024 Sedgwick Street*							*No*	*No*
			OU5-CTA-1C-5024SegS-1	6/27/2001	3.6		mg/kg			
			OU5-CTA-1C-5024SegS-2	6/27/2001	4		mg/kg			
			OU5-CTA-1C-5024SegS-3	6/27/2001	3		mg/kg			
			OU5-CTA-1C-5024SegS-4	6/27/2001	2.6		mg/kg			
			OU5-CTA-1C-5024SegS-SB-1	6/27/2001	3.2		mg/kg			
			OU5-CTA-1C-5024SegS-SB-2	6/27/2001	2.9		mg/kg			
			OU5-CTA-1C-5024SegS-SB-3	6/27/2001	3.5		mg/kg			
			OU5-CTA-1C-5024SegS-SB-4	6/27/2001	1.4	J	mg/kg			
			OU5-CTA-1C-5024SegS-SB-5	6/27/2001	1.6	J	mg/kg			
			OU5-CTA-1C-5024SegS-SB-6	6/27/2001	2.1	J	mg/kg			
CTA	*1C*	*5024 Upton Street*							*No*	*No*
			OU5-CTA-1C-5024US-1	7/2/2001	1.4	J	mg/kg			
			OU5-CTA-1C-5024US-2	7/2/2001	1.5	J	mg/kg			
			OU5-CTA-1C-5024US-3	7/2/2001	3.9		mg/kg			
			OU5-CTA-1C-5024US-4	7/2/2001	2.9		mg/kg			
			OU5-CTA-1C-5024US-SB-1	7/2/2001	1.8	J	mg/kg			
			OU5-CTA-1C-5024US-SB-2	7/2/2001	3.6		mg/kg			
			OU5-CTA-1C-5024US-SB-3	7/2/2001	2.1	J	mg/kg			
			OU5-CTA-1C-5024US-SB-4	7/2/2001	1.3	J	mg/kg			
			OU5-CTA-1C-5024US-SB-5	7/2/2001	1.2	J	mg/kg			
			OU5-CTA-1C-5024US-SB-6	7/2/2001	0.88	J	mg/kg			
CTA	*1C*	*5024 Van Ness Street*							*No*	*No*
			OU5-CTA-1C-5024VNS-1	10/1/2001	3.2		mg/kg			
			OU5-CTA-1C-5024VNS-2	10/1/2001	3.5		mg/kg			
			OU5-CTA-1C-5024VNS-3	10/1/2001	2.8		mg/kg			
			OU5-CTA-1C-5024VNS-4	10/1/2001	3.2		mg/kg			
			OU5-CTA-1C-5024VNS-SB-DUP77	10/1/2001	2.4		mg/kg	OU5-CTA-1C-5024VNS-SB1		
			OU5-CTA-1C-5024VNS-SB1	10/1/2001	2.4		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5024VNS-SB2	10/1/2001	4.3	mg/kg			
			OU5-CTA-1C-5024VNS-SB3	10/1/2001	3.6	mg/kg			
			OU5-CTA-1C-5024VNS-SB4	10/1/2001	0.61 J	mg/kg			
			OU5-CTA-1C-5024VNS-SB5	10/1/2001	0.49 J	mg/kg			
			OU5-CTA-1C-5024VNS-SB6	10/1/2001	0.37 U	mg/kg			
CSA	***12***	***5025 Overlook Road***						***No***	***No***
			OU5-CSA-12-5025OR-1	11/15/2001	3.1	mg/kg			
			OU5-CSA-12-5025OR-2	11/15/2001	3.5	mg/kg			
CTA	***1C***	***5025 Rockwood Parkway***						***No***	***No***
			OU5-CTA-1C-5025RP-1	6/19/2001	2.6	mg/kg			
			OU5-CTA-1C-5025RP-2	6/19/2001	2.6	mg/kg			
			OU5-CTA-1C-5025RP-3	6/19/2001	4	mg/kg			
			OU5-CTA-1C-5025RP-4	6/19/2001	4.1	mg/kg			
			OU5-CTA-1C-5025RP-SB1	6/19/2001	2.2 J	mg/kg			
			OU5-CTA-1C-5025RP-SB2	6/19/2001	2.6	mg/kg			
			OU5-CTA-1C-5025RP-SB3	6/19/2001	1.7 J	mg/kg			
			OU5-CTA-1C-5025RP-SB4	6/19/2001	2.1 J	mg/kg			
			OU5-CTA-1C-5025RP-SB5	6/19/2001	2.6	mg/kg			
			OU5-CTA-1C-5025RP-SB6	6/19/2001	0.91 J	mg/kg			
CTA	***1C***	***5025 Tilden Street***						***No***	***No***
			OU5-CTA-1C-5025TS-1	6/20/2001	3.3	mg/kg			
			OU5-CTA-1C-5025TS-2	6/20/2001	3.3	mg/kg			
			OU5-CTA-1C-5025TS-3	6/20/2001	2.6	mg/kg			
			OU5-CTA-1C-5025TS-4	6/20/2001	3.4	mg/kg			
			OU5-CTA-1C-5025TS-DUP09	6/20/2001	2.9	mg/kg	OU5-CTA-1C-5025TS-2		
			OU5-CTA-1C-5025TS-SB1	6/20/2001	1.2	mg/kg			
			OU5-CTA-1C-5025TS-SB2	6/20/2001	2.7	mg/kg			
			OU5-CTA-1C-5025TS-SB3	6/20/2001	4.9	mg/kg			
			OU5-CTA-1C-5025TS-SB4	6/20/2001	3.9	mg/kg			
			OU5-CTA-1C-5025TS-SB5	6/20/2001	1.1	mg/kg			
			OU5-CTA-1C-5025TS-SB6	6/20/2001	0.98	mg/kg			
			OU5-CTA-1C-5025TS-SBDUP13	6/20/2001	1.3	mg/kg	OU5-CTA-1C-5025TS-SB6		
CTA	***1C***	***5025 Upton Street***						***No***	***No***
			OU5-CTA-1C-5025US-1	6/22/2001	10.9	mg/kg			
			OU5-CTA-1C-5025US-2	6/22/2001	12.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5025US-3	6/22/2001	12.2	mg/kg			
			OU5-CTA-1C-5025US-4	6/22/2001	10.4	mg/kg			
			OU5-CTA-1C-5025US-SB-1	6/22/2001	1.2 J	mg/kg			
			OU5-CTA-1C-5025US-SB-2	6/22/2001	1.4 J	mg/kg			
			OU5-CTA-1C-5025US-SB-3	6/22/2001	0.61 J	mg/kg			
			OU5-CTA-1C-5025US-SB-4	6/22/2001	1.6 J	mg/kg			
			OU5-CTA-1C-5025US-SB-5	6/22/2001	1.1 J	mg/kg			
			OU5-CTA-1C-5025US-SB-6	6/22/2001	1.2 J	mg/kg			
CTA	*1C*	*5026 Tilden Street*						*No*	*Yes*
			OU5-CTA-1C-5026TS-1	8/28/2001	25.6	mg/kg			
			OU5-CTA-1C-5026TS-2	8/28/2001	8	mg/kg			
			OU5-CTA-1C-5026TS-3	8/28/2001	11.7	mg/kg			
			OU5-CTA-1C-5026TS-4	8/28/2001	12.7	mg/kg			
			OU5-CTA-1C-5026TS-DUP52	8/28/2001	13.3	mg/kg	OU5-CTA-1C-5026TS-3		
			OU5-CTA-1C-5026TS-SB-DUP61	8/28/2001	2.8	mg/kg	OU5-CTA-1C-5026TS-SB6		
			OU5-CTA-1C-5026TS-SB1	8/28/2001	4.5	mg/kg			
			OU5-CTA-1C-5026TS-SB2	8/28/2001	3.5	mg/kg			
			OU5-CTA-1C-5026TS-SB3	8/28/2001	5.2	mg/kg			
			OU5-CTA-1C-5026TS-SB4	8/28/2001	4.7	mg/kg			
			OU5-CTA-1C-5026TS-SB5	8/28/2001	5.7	mg/kg			
			OU5-CTA-1C-5026TS-SB6	8/28/2001	3.3	mg/kg			
			OU5-CTA-1C-5026TS-SB7	8/28/2001	3.5	mg/kg			
CTA	*1A*	*5026 Warren Street*						*No*	*No*
			OU5-CTA-1A-5026WS-1	8/13/2001	5.8	mg/kg			
			OU5-CTA-1A-5026WS-2	8/13/2001	2.4 J	mg/kg			
			OU5-CTA-1A-5026WS-3	8/13/2001	2.6	mg/kg			
			OU5-CTA-1A-5026WS-4	8/13/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5026WS-SB1	8/13/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5026WS-SB2	8/13/2001	2.8	mg/kg			
			OU5-CTA-1A-5026WS-SB3	8/13/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5026WS-SB4	8/13/2001	2 J	mg/kg			
			OU5-CTA-1A-5026WS-SB5	8/13/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5026WS-SB6	8/13/2001	2.4	mg/kg			
			OU5-CTA-1A-5026WS-SB7	8/13/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5026WS-SB8	8/13/2001	1.7 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1C	5027 Sedgwick Street						No	No
			OU5-CTA-1C-5027SegS-1	7/23/2001	3.3	mg/kg			
			OU5-CTA-1C-5027SegS-2	7/23/2001	3.4	mg/kg			
			OU5-CTA-1C-5027SegS-3	7/23/2001	3.6	mg/kg			
			OU5-CTA-1C-5027SegS-4	7/23/2001	3.6	mg/kg			
			OU5-CTA-1C-5027SegS-DUP31	7/23/2001	3.7	mg/kg	OU5-CTA-1C-5027SegS-1		
			OU5-CTA-1C-5027SegS-SB-1	7/23/2001	3.5	mg/kg			
			OU5-CTA-1C-5027SegS-SB-2	7/23/2001	4	mg/kg			
			OU5-CTA-1C-5027SegS-SB-3	7/23/2001	3.1	mg/kg			
			OU5-CTA-1C-5027SegS-SB-4	7/23/2001	1.2 J	mg/kg			
			OU5-CTA-1C-5027SegS-SB-5	7/23/2001	3	mg/kg			
			OU5-CTA-1C-5027SegS-SB-6	7/23/2001	3.8	mg/kg			
CTA	1A	5027 Van Ness Street						No	No
			OU5-CTA-1A-5027VNS-1	3/19/2002	3	mg/kg			
			OU5-CTA-1A-5027VNS-2	3/19/2002	2.1	mg/kg			
			OU5-CTA-1A-5027VNS-3	3/19/2002	3.5	mg/kg			
			OU5-CTA-1A-5027VNS-4	3/19/2002	3	mg/kg			
			OU5-CTA-1A-5027VNS-SB1	3/19/2002	4.2	mg/kg			
			OU5-CTA-1A-5027VNS-SB2	3/19/2002	2.2	mg/kg			
			OU5-CTA-1A-5027VNS-SB3	3/19/2002	2.1	mg/kg			
			OU5-CTA-1A-5027VNS-SB4	3/19/2002	2.4	mg/kg			
			OU5-CTA-1A-5027VNS-SB5	3/19/2002	1.7	mg/kg			
			OU5-CTA-1A-5027VNS-SB6	3/19/2002	2.3	mg/kg			
CSA	2	5028 Massachusetts Avenue						Yes	No
			OU5-CSA-2-5028MA-1	3/26/2002	3.4	mg/kg			
			OU5-CSA-2-5028MA-2	3/26/2002	3.8	mg/kg			
			OU5-CSA-2-5028MA-SB-DUP106	3/26/2002	2.3	mg/kg	OU5-CSA-2-5028MA-SB5		
			OU5-CSA-2-5028MA-SB1	3/26/2002	3.6	mg/kg			
			OU5-CSA-2-5028MA-SB2	3/26/2002	3.2	mg/kg			
			OU5-CSA-2-5028MA-SB3	3/26/2002	2	mg/kg			
			OU5-CSA-2-5028MA-SB4	3/26/2002	2.2	mg/kg			
			OU5-CSA-2-5028MA-SB5	3/26/2002	2.1	mg/kg			
			OU5-CSA-2-5028MA-SB6	3/26/2002	1.5 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	12	5028 Overlook Road						No	No
			OU5-CSA-12-5028OR-1	10/4/2001	5.4	mg/kg			
			OU5-CSA-12-5028OR-2	10/4/2001	8.8	mg/kg			
CTA	1A	5028 Warren Street						No	No
			OU5-CTA-1A-5028WS-1	9/7/2001	2.8 J	mg/kg			
			OU5-CTA-1A-5028WS-2	9/7/2001	3.3	mg/kg			
			OU5-CTA-1A-5028WS-3	9/7/2001	3.4	mg/kg			
			OU5-CTA-1A-5028WS-4	9/7/2001	3.8	mg/kg			
			OU5-CTA-1A-5028WS-SB-DUP70	9/7/2001	3	mg/kg	OU5-CTA-1A-5028WS-SB1		
			OU5-CTA-1A-5028WS-SB1	9/7/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5028WS-SB10	9/7/2001	3.4	mg/kg			
			OU5-CTA-1A-5028WS-SB2	9/7/2001	2.9	mg/kg			
			OU5-CTA-1A-5028WS-SB3	9/7/2001	2.2 J	mg/kg			
			OU5-CTA-1A-5028WS-SB4	9/7/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5028WS-SB5	9/7/2001	3.4	mg/kg			
			OU5-CTA-1A-5028WS-SB6	9/7/2001	3.1	mg/kg			
			OU5-CTA-1A-5028WS-SB7	9/7/2001	2.6	mg/kg			
			OU5-CTA-1A-5028WS-SB8	9/7/2001	2.6	mg/kg			
			OU5-CTA-1A-5028WS-SB9	9/7/2001	2.1 J	mg/kg			
CTA	1C	5030 Sedgwick Street						No	No
			OU5-CTA-1C-5030SegS-1	8/21/2001	4.7	mg/kg			
			OU5-CTA-1C-5030SegS-2	8/21/2001	3.8	mg/kg			
			OU5-CTA-1C-5030SegS-3	8/21/2001	5.3	mg/kg			
			OU5-CTA-1C-5030SegS-4	8/21/2001	5	mg/kg			
			OU5-CTA-1C-5030SegS-SB1	8/21/2001	2.2 J	mg/kg			
			OU5-CTA-1C-5030SegS-SB2	8/21/2001	2.4	mg/kg			
			OU5-CTA-1C-5030SegS-SB3	8/21/2001	3.2	mg/kg			
			OU5-CTA-1C-5030SegS-SB4	8/21/2001	2.1 J	mg/kg			
			OU5-CTA-1C-5030SegS-SB5	8/21/2001	1.7 J	mg/kg			
			OU5-CTA-1C-5030SegS-SB6	8/21/2001	0.88 J	mg/kg			
CTA	1C	5030 Van Ness Street						No	Yes
			OU5-CTA-1C-5030VNS-1	7/31/2001	3	mg/kg			
			OU5-CTA-1C-5030VNS-2	7/31/2001	9.7	mg/kg			
			OU5-CTA-1C-5030VNS-3	7/31/2001	12.7	mg/kg			
			OU5-CTA-1C-5030VNS-4	7/31/2001	8.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5030VNS-DUP39	7/31/2001	7	mg/kg	OU5-CTA-1C-5030VNS-1		
			OU5-CTA-1C-5030VNS-SB-1	7/31/2001	2.2	mg/kg			
			OU5-CTA-1C-5030VNS-SB-2	7/31/2001	2 J	mg/kg			
			OU5-CTA-1C-5030VNS-SB-3	7/31/2001	2.3	mg/kg			
			OU5-CTA-1C-5030VNS-SB-4	7/31/2001	3.3	mg/kg			
			OU5-CTA-1C-5030VNS-SB-5	7/31/2001	1.8 J	mg/kg			
			OU5-CTA-1C-5030VNS-SB-6	7/31/2001	2.4	mg/kg			
			OU5-CTA-1C-5030VNS-SB-7	7/31/2001	0.95 J	mg/kg			
			OU5-CTA-1C-5030VNS-SB-DUP44	7/31/2001	2.2	mg/kg	OU5-CTA-1C-5030VNS-SB-7		
CSA	*12*	*5031 Overlook Road*						*No*	*No*
			OU5-CSA-12-5031OR-1	10/4/2001	3.2	mg/kg			
			OU5-CSA-12-5031OR-2	10/4/2001	3.1	mg/kg			
CSA	*2*	*5032 Massachusetts Avenue*						*No*	*No*
			OU5-CSA-2-5032MA-1	9/20/2001	7.6	mg/kg			
			OU5-CSA-2-5032MA-2	9/20/2001	4.3	mg/kg			
CTA	*1C*	*5032 Tilden Street*						*No*	*Yes*
			OU5-CTA-1C-5032TS-1	7/31/2001	14	mg/kg			
			OU5-CTA-1C-5032TS-2	7/31/2001	10.4	mg/kg			
			OU5-CTA-1C-5032TS-3	7/31/2001	10.6	mg/kg			
			OU5-CTA-1C-5032TS-4	7/31/2001	10.5	mg/kg			
			OU5-CTA-1C-5032TS-SB-1	7/31/2001	3.5	mg/kg			
			OU5-CTA-1C-5032TS-SB-2	7/31/2001	4	mg/kg			
			OU5-CTA-1C-5032TS-SB-3	7/31/2001	2.8	mg/kg			
			OU5-CTA-1C-5032TS-SB-4	7/31/2001	2 J	mg/kg			
			OU5-CTA-1C-5032TS-SB-5	7/31/2001	1.5 J	mg/kg			
			OU5-CTA-1C-5032TS-SB-6	7/31/2001	1.4 J	mg/kg			
			OU5-CTA-1C-5032TS-SB-7	7/31/2001	1.5 J	mg/kg			
			OU5-CTA-1C-5032TS-SB-8	7/31/2001	0.89 J	mg/kg			
CTA	*1C*	*5032 Upton Street*						*No*	*No*
			OU5-CTA-1C-5032US-1	7/11/2001	6.5	mg/kg			
			OU5-CTA-1C-5032US-2	7/11/2001	5.6	mg/kg			
			OU5-CTA-1C-5032US-3	7/11/2001	6.6	mg/kg			
			OU5-CTA-1C-5032US-4	7/11/2001	8.6	mg/kg			
			OU5-CTA-1C-5032US-DUP20	7/11/2001	8.6	mg/kg	OU5-CTA-1C-5032US-4		

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5032US-SB-1	7/11/2001	4.1	mg/kg			
			OU5-CTA-1C-5032US-SB-10	7/11/2001	2.8	mg/kg			
			OU5-CTA-1C-5032US-SB-2	7/11/2001	2.7	mg/kg			
			OU5-CTA-1C-5032US-SB-3	7/11/2001	2.1	mg/kg			
			OU5-CTA-1C-5032US-SB-4	7/11/2001	2 J	mg/kg			
			OU5-CTA-1C-5032US-SB-5	7/11/2001	3.2	mg/kg			
			OU5-CTA-1C-5032US-SB-6	7/11/2001	3.5	mg/kg			
			OU5-CTA-1C-5032US-SB-7	7/11/2001	4.3	mg/kg			
			OU5-CTA-1C-5032US-SB-8	7/11/2001	2.9	mg/kg			
			OU5-CTA-1C-5032US-SB-9	7/11/2001	2.3	mg/kg			
CSA	*12*	*5033 Loughboro Road*						*No*	*No*
			OU5-CSA-12-5033LR-1	10/24/2001	3.3	mg/kg			
			OU5-CSA-12-5033LR-2	10/24/2001	2.8	mg/kg			
CTA	*1C*	*5033 Tilden Street*						*No*	*No*
			OU5-CTA-1C-5033TS-1	7/18/2001	5.6	mg/kg			
			OU5-CTA-1C-5033TS-2	7/18/2001	4.1	mg/kg			
			OU5-CTA-1C-5033TS-3	7/18/2001	5.7	mg/kg			
			OU5-CTA-1C-5033TS-4	7/18/2001	4.2	mg/kg			
			OU5-CTA-1C-5033TS-SB-1	7/18/2001	5.8	mg/kg			
			OU5-CTA-1C-5033TS-SB-2	7/18/2001	3.6	mg/kg			
			OU5-CTA-1C-5033TS-SB-3	7/18/2001	2.3	mg/kg			
			OU5-CTA-1C-5033TS-SB-4	7/18/2001	1.5 J	mg/kg			
			OU5-CTA-1C-5033TS-SB-5	7/18/2001	2.1 J	mg/kg			
			OU5-CTA-1C-5033TS-SB-6	7/18/2001	8.3	mg/kg			
			OU5-CTA-1C-5033TS-SB-DUP33	7/18/2001	1.6 J	mg/kg	OU5-CTA-1C-5033TS-SB-4		
CTA	*1C*	*5033 Upton Street*						*No*	*No*
			OU5-CTA-1C-5033US-1	7/2/2001	8.5	mg/kg			
			OU5-CTA-1C-5033US-2	7/2/2001	7.6	mg/kg			
			OU5-CTA-1C-5033US-3	7/2/2001	4.1	mg/kg			
			OU5-CTA-1C-5033US-4	7/2/2001	5.6	mg/kg			
			OU5-CTA-1C-5033US-SB-1	7/2/2001	2.7	mg/kg			
			OU5-CTA-1C-5033US-SB-2	7/2/2001	3	mg/kg			
			OU5-CTA-1C-5033US-SB-3	7/2/2001	1.6 J	mg/kg			
			OU5-CTA-1C-5033US-SB-4	7/2/2001	1.8 J	mg/kg			
			OU5-CTA-1C-5033US-SB-5	7/2/2001	0.47 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5033US-SB-6	7/2/2001	0.39	U	mg/kg			
CSA	***12***	***5034 Overlook Road***							***No***	***No***
			OU5-CSA-12-5034OR-1	8/3/2001	2.9		mg/kg			
			OU5-CSA-12-5034OR-2	8/3/2001	5.8		mg/kg			
CTA	***1C***	***5035 Rockwood Parkway***							***Yes***	***Yes***
			OU5-CTA-1C-5035RP-1	6/26/2001	12.7		mg/kg			
			OU5-CTA-1C-5035RP-2	6/26/2001	13.7		mg/kg			
			OU5-CTA-1C-5035RP-3	6/26/2001	56.4		mg/kg			
			OU5-CTA-1C-5035RP-4	6/26/2001	69.5		mg/kg			
			OU5-CTA-1C-5035RP-SB1	6/26/2001	3.5		mg/kg			
			OU5-CTA-1C-5035RP-SB2	6/26/2001	3.3		mg/kg			
			OU5-CTA-1C-5035RP-SB3	6/26/2001	1.2	J	mg/kg			
			OU5-CTA-1C-5035RP-SB4	6/26/2001	3		mg/kg			
			OU5-CTA-1C-5035RP-SB5	6/26/2001	3.5		mg/kg			
			OU5-CTA-1C-5035RP-SB6	6/26/2001	1.2	J	mg/kg			
CTA	***1A***	***5035 Van Ness Street***							***No***	***No***
			OU5-CTA-1A-5035VNS-1	11/6/2001	5.1		mg/kg			
			OU5-CTA-1A-5035VNS-2	11/6/2001	8.4		mg/kg			
			OU5-CTA-1A-5035VNS-3	11/6/2001	6.2		mg/kg			
			OU5-CTA-1A-5035VNS-4	11/6/2001	5.4		mg/kg			
			OU5-CTA-1A-5035VNS-SB1	11/6/2001	3.5		mg/kg			
			OU5-CTA-1A-5035VNS-SB10	11/6/2001	1	J	mg/kg			
			OU5-CTA-1A-5035VNS-SB2	11/6/2001	2.5		mg/kg			
			OU5-CTA-1A-5035VNS-SB3	11/6/2001	4.7		mg/kg			
			OU5-CTA-1A-5035VNS-SB4	11/6/2001	3.3		mg/kg			
			OU5-CTA-1A-5035VNS-SB5	11/6/2001	1.5	J	mg/kg			
			OU5-CTA-1A-5035VNS-SB6	11/6/2001	0.97	J	mg/kg			
			OU5-CTA-1A-5035VNS-SB7	11/6/2001	1.9	J	mg/kg			
			OU5-CTA-1A-5035VNS-SB8	11/6/2001	2.2	J	mg/kg			
			OU5-CTA-1A-5035VNS-SB9	11/6/2001	1.8	J	mg/kg			
CSA	***2***	***5036 Massachusetts Avenue***							***No***	***No***
			OU5-CSA-2-5036MA-1	3/28/2002	10.7		mg/kg			
			OU5-CSA-2-5036MA-2	3/28/2002	5.3		mg/kg			
CTA	***1C***	***5036 Sedgwick Street***							***No***	***No***
			OU5-5036-1	4/4/2001	3.6	\2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-5036-1A	4/4/2001	3.6	\2	mg/kg			
			OU5-5036-2	4/4/2001	2.9	\2	mg/kg			
			OU5-5036-2A	4/4/2001	2.2	\2	mg/kg			
			OU5-5036-3	4/4/2001	3.7	\2	mg/kg			
			OU5-5036-3A	4/4/2001	3	\2	mg/kg			
			OU5-5036-4	4/4/2001	3.7	\2	mg/kg			
			OU5-5036-4A	4/4/2001	2.7	\2	mg/kg			
			OU5-5036-DUP-01	4/4/2001	2.5	\2	mg/kg	OU5-5036-4A		
			OU5-5036-SB-1	4/4/2001	1.2 J	\2	mg/kg			
			OU5-5036-SB-2	4/4/2001	0.58 U	\2	mg/kg			
			OU5-5036-SB-3	4/4/2001	1.2 J	\2	mg/kg			
			OU5-5036-SB-4	4/4/2001	1 J	\2	mg/kg			
			OU5-5036-SB-5	4/4/2001	0.54 U	\2	mg/kg			
			OU5-5036-SB-6	4/4/2001	0.58 U	\2	mg/kg			
CSA	**12**	**5037 Loughboro Road**							**No**	**No**
			OU5-CSA-12-5037LR-1	10/24/2001	7 J		mg/kg			
			OU5-CSA-12-5037LR-2	10/24/2001	3.2 J		mg/kg			
CSA	**2**	**5038 Massachusetts Avenue**							**No**	**No**
			OU5-CSA-2-5038MA-1	8/3/2001	4		mg/kg			
			OU5-CSA-2-5038MA-2	8/3/2001	2.3 J		mg/kg			
CTA	**1C**	**5038 Van Ness Street**							**No**	**No**
			OU5-CTA-1C-5038VNS-1	6/13/2001	2.9		mg/kg			
			OU5-CTA-1C-5038VNS-2	6/13/2001	3.7		mg/kg			
			OU5-CTA-1C-5038VNS-3	6/13/2001	2.3		mg/kg			
			OU5-CTA-1C-5038VNS-4	6/13/2001	3		mg/kg			
			OU5-CTA-1C-5038VNS-DUP06	6/13/2001	2.7		mg/kg	OU5-CTA-1C-5038VNS-2		
			OU5-CTA-1C-5038VNS-SB-1	6/13/2001	2.1 J		mg/kg			
			OU5-CTA-1C-5038VNS-SB-2	6/13/2001	1.8 J		mg/kg			
			OU5-CTA-1C-5038VNS-SB-3	6/13/2001	1 J		mg/kg			
			OU5-CTA-1C-5038VNS-SB-4	6/13/2001	0.56 U		mg/kg			
			OU5-CTA-1C-5038VNS-SB-5	6/13/2001	0.75 J		mg/kg			
			OU5-CTA-1C-5038VNS-SB-6	6/13/2001	2.4		mg/kg			
CSA	**12**	**5039 Overlook Road**							**No**	**No**
			OU5-CSA-12-5039OR-1	8/3/2001	2.5		mg/kg			
			OU5-CSA-12-5039OR-2	8/3/2001	5.2		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	2	5040 Albemarle Street						No	No
			OU5-CSA-2-5040AS-1	6/13/2001	9.1	mg/kg			
			OU5-CSA-2-5040AS-2	6/13/2001	7	mg/kg			
CTA	1C	5040 Sedgwick Street						No	Yes
			OU5-CTA-1C-5040SegS-1	4/4/2001	4.4 K	mg/kg			
			OU5-CTA-1C-5040SegS-1A	4/4/2001	6.1 K	mg/kg			
			OU5-CTA-1C-5040SegS-2	4/4/2001	9.3 K	mg/kg			
			OU5-CTA-1C-5040SegS-2A	4/4/2001	17.3 K	mg/kg			
			OU5-CTA-1C-5040SegS-3	4/4/2001	4.9 K	mg/kg			
			OU5-CTA-1C-5040SegS-3A	4/4/2001	4.8 K	mg/kg			
			OU5-CTA-1C-5040SegS-4	4/4/2001	4.6 K	mg/kg			
			OU5-CTA-1C-5040SegS-4A	4/4/2001	3.9 K	mg/kg			
			OU5-CTA-1C-5040SegS-DUP1	4/4/2001	1.1 JK	mg/kg	OU5-CTA-1C-5040SegS-SB-4		
			OU5-CTA-1C-5040SegS-SB-1	4/4/2001	12.1 K	mg/kg			
			OU5-CTA-1C-5040SegS-SB-2	4/4/2001	2.6 K	mg/kg			
			OU5-CTA-1C-5040SegS-SB-3	4/4/2001	2.2 JK	mg/kg			
			OU5-CTA-1C-5040SegS-SB-4	4/4/2001	0.77 JK	mg/kg			
			OU5-CTA-1C-5040SegS-SB-5	4/4/2001	0.75 JK	mg/kg			
			OU5-CTA-1C-5040SegS-SB-6	4/4/2001	1.2 JK	mg/kg			
CTA	1C	5040 Upton Street						No	Yes
			OU5-CTA-1C-5040US-1	6/19/2001	14	mg/kg			
			OU5-CTA-1C-5040US-2	6/19/2001	5	mg/kg			
			OU5-CTA-1C-5040US-3	6/19/2001	3	mg/kg			
			OU5-CTA-1C-5040US-4	6/19/2001	5.3	mg/kg			
			OU5-CTA-1C-5040US-DUP11	6/19/2001	2.9	mg/kg	OU5-CTA-1C-5040US-4		
			OU5-CTA-1C-5040US-SB-1	6/19/2001	2.4	mg/kg			
			OU5-CTA-1C-5040US-SB-2	6/19/2001	3.2	mg/kg			
			OU5-CTA-1C-5040US-SB-3	6/19/2001	3.7	mg/kg			
			OU5-CTA-1C-5040US-SB-4	6/19/2001	3.1	mg/kg			
			OU5-CTA-1C-5040US-SB-5	6/19/2001	2.9	mg/kg			
			OU5-CTA-1C-5040US-SB-6	6/19/2001	3.1	mg/kg			
			OU5-CTA-1C-5040US-SB-7	6/19/2001	2.9	mg/kg			
CSA	12	5041 Loughboro Road						No	Yes + specialty boring
			OU5-CSA-12-5041LR-1	10/4/2001	59.6	mg/kg			
			OU5-CSA-12-5041LR-1(1)	5/1/2002	29.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-12-5041LR-1(2)	5/1/2002	3.9	mg/kg			
			OU5-CSA-12-5041LR-1(3)	5/1/2002	5.8	mg/kg			
			OU5-CSA-12-5041LR-1(4)	5/1/2002	3.3	mg/kg			
			OU5-CSA-12-5041LR-1(5)	5/1/2002	2.6	mg/kg			
			OU5-CSA-12-5041LR-1(6)	5/1/2002	5.1	mg/kg			
			OU5-CSA-12-5041LR-1(7)	5/1/2002	3	mg/kg			
			OU5-CSA-12-5041LR-1(8)	5/1/2002	5.8	mg/kg			
			OU5-CSA-12-5041LR-2	10/4/2001	3.8	mg/kg			
CTA	*1C*	*5041 Sedgwick Street*						*No*	*No*
			OU5-CTA-1C-5041SegS-1	7/23/2001	6.7	mg/kg			
			OU5-CTA-1C-5041SegS-2	7/23/2001	4.1	mg/kg			
			OU5-CTA-1C-5041SegS-3	7/23/2001	7.3	mg/kg			
			OU5-CTA-1C-5041SegS-4	7/23/2001	7	mg/kg			
			OU5-CTA-1C-5041SegS-SB-1	7/23/2001	4.2	mg/kg			
			OU5-CTA-1C-5041SegS-SB-2	7/23/2001	1.9 J	mg/kg			
			OU5-CTA-1C-5041SegS-SB-3	7/23/2001	1.6 J	mg/kg			
			OU5-CTA-1C-5041SegS-SB-4	7/23/2001	1 J	mg/kg			
			OU5-CTA-1C-5041SegS-SB-5	7/23/2001	2 J	mg/kg			
			OU5-CTA-1C-5041SegS-SB-6	7/23/2001	1.9 J	mg/kg			
CTA	*1C*	*5041 Upton Street*						*No*	*Yes*
			OU5-CTA-1C-5041US-1	6/21/2001	5.8 L	mg/kg			
			OU5-CTA-1C-5041US-2	6/21/2001	7.3 L	mg/kg			
			OU5-CTA-1C-5041US-3	6/21/2001	10.4 L	mg/kg			
			OU5-CTA-1C-5041US-4	6/21/2001	24 L	mg/kg			
			OU5-CTA-1C-5041US-DUP14	6/21/2001	2.4 L	mg/kg	OU5-CTA-1C-5041US-3		
			OU5-CTA-1C-5041US-SB1	6/21/2001	7.1 L	mg/kg			
			OU5-CTA-1C-5041US-SB2	6/21/2001	4.1 L	mg/kg			
			OU5-CTA-1C-5041US-SB3	6/21/2001	3.2 L	mg/kg			
			OU5-CTA-1C-5041US-SB4	6/21/2001	3.3 L	mg/kg			
			OU5-CTA-1C-5041US-SB5	6/21/2001	4 L	mg/kg			
			OU5-CTA-1C-5041US-SB6	6/21/2001	5.3 L	mg/kg			
CSA	*12*	*5042 Overlook Road*						*No*	*No*
			OU5-CSA-12-5042OR-1	8/10/2001	3.2	mg/kg			
			OU5-CSA-12-5042OR-2	8/10/2001	3.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1C	5044 Van Ness Street						No	Yes
			OU5-CTA-1C-5044VNS-1	7/5/2001	4.4	mg/kg			
			OU5-CTA-1C-5044VNS-2	7/5/2001	11.3	mg/kg			
			OU5-CTA-1C-5044VNS-3	7/5/2001	9.4	mg/kg			
			OU5-CTA-1C-5044VNS-4	7/5/2001	23.4	mg/kg			
			OU5-CTA-1C-5044VNS-SB-1	7/5/2001	0.99 J	mg/kg			
			OU5-CTA-1C-5044VNS-SB-2	7/5/2001	2.2	mg/kg			
			OU5-CTA-1C-5044VNS-SB-3	7/5/2001	1.7 J	mg/kg			
			OU5-CTA-1C-5044VNS-SB-4	7/5/2001	11.3	mg/kg			
			OU5-CTA-1C-5044VNS-SB-5	7/5/2001	0.46 J	mg/kg			
			OU5-CTA-1C-5044VNS-SB-6	7/5/2001	0.38 U	mg/kg			
CSA	12	5045 Overlook Road						No	No
			OU5-CSA-12-5045OR-1	8/10/2001	6.5	mg/kg			
			OU5-CSA-12-5045OR-2	8/10/2001	7.4	mg/kg			
CTA	1A	5045 Van Ness Street						No	No
			OU5-CTA-1A-5045VNS-1	6/12/2001	5.3	mg/kg			
			OU5-CTA-1A-5045VNS-2	6/12/2001	4.7	mg/kg			
			OU5-CTA-1A-5045VNS-3	6/12/2001	6.6	mg/kg			
			OU5-CTA-1A-5045VNS-4	6/12/2001	6.7	mg/kg			
			OU5-CTA-1A-5045VNS-DUP05	6/12/2001	4.8	mg/kg	OU5-CTA-1A-5045VNS-2		
			OU5-CTA-1A-5045VNS-SB-1	6/12/2001	5.2	mg/kg			
			OU5-CTA-1A-5045VNS-SB-2	6/12/2001	2.7	mg/kg			
			OU5-CTA-1A-5045VNS-SB-3	6/12/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5045VNS-SB-4	6/12/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5045VNS-SB-5	6/12/2001	0.67 J	mg/kg			
			OU5-CTA-1A-5045VNS-SB-6	6/12/2001	0.58 J	mg/kg			
			OU5-CTA-1A-5045VNS-SB-7	6/12/2001	0.39 U	mg/kg			
			OU5-CTA-1A-5045VNS-SB-DUP06	6/12/2001	0.62 J	mg/kg	OU5-CTA-1A-5045VNS-SB-6		
CTA	1C	5046 Sedgwick Street						No	Yes
			OU5-CTA-1C-5046SegS-1	4/3/2001	66	mg/kg			
			OU5-CTA-1C-5046SegS-1A	4/3/2001	21.4	mg/kg			
			OU5-CTA-1C-5046SegS-2	4/3/2001	12.3	mg/kg			
			OU5-CTA-1C-5046SegS-2A	4/3/2001	34.4	mg/kg			
			OU5-CTA-1C-5046SegS-3	4/3/2001	39.9	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5046SegS-3A	4/3/2001	28.2		mg/kg			
			OU5-CTA-1C-5046SegS-4	4/3/2001	16.1		mg/kg			
			OU5-CTA-1C-5046SegS-4A	4/3/2001	3.9		mg/kg			
			OU5-CTA-1C-5046SegS-SB1	4/3/2001	62.8		mg/kg			
			OU5-CTA-1C-5046SegS-SB2	4/3/2001	3.5		mg/kg			
			OU5-CTA-1C-5046SegS-SB3	4/3/2001	2.8		mg/kg			
			OU5-CTA-1C-5046SegS-SB4	4/3/2001	5		mg/kg			
			OU5-CTA-1C-5046SegS-SB5	4/3/2001	3.4		mg/kg			
			OU5-CTA-1C-5046SegS-SB6	4/3/2001	2.8		mg/kg			
			OU5-CTA-1C-5046SegS-SB7	4/3/2001	1.5		mg/kg			
CSA	*12*	*5047 Loughboro Road*							*No*	*No*
			OU5-CSA-12-5047LR-1	10/24/2001	2.3		mg/kg			
			OU5-CSA-12-5047LR-2	10/24/2001	3.9		mg/kg			
CTA	*1C*	*5047 Sedgwick Street*							*No*	*No*
			OU5-CTA-1C-5047SegS-1	7/18/2001	4.6		mg/kg			
			OU5-CTA-1C-5047SegS-2	7/18/2001	3.8		mg/kg			
			OU5-CTA-1C-5047SegS-3	7/18/2001	4.2		mg/kg			
			OU5-CTA-1C-5047SegS-4	7/18/2001	4.5		mg/kg			
			OU5-CTA-1C-5047SegS-SB1	7/18/2001	1.4	J	mg/kg			
			OU5-CTA-1C-5047SegS-SB2	7/18/2001	1.4	J	mg/kg			
			OU5-CTA-1C-5047SegS-SB3	7/18/2001	1.1	J	mg/kg			
			OU5-CTA-1C-5047SegS-SB4	7/18/2001	1.2	J	mg/kg			
			OU5-CTA-1C-5047SegS-SB5	7/18/2001	0.86	J	mg/kg			
			OU5-CTA-1C-5047SegS-SB6	7/18/2001	1	J	mg/kg			
CTA	*1C*	*5050 Van Ness Street*							*No*	*No*
			OU5-CTA-1C-5050VNS-1	6/18/2001	3.6		mg/kg			
			OU5-CTA-1C-5050VNS-2	6/18/2001	4.2		mg/kg			
			OU5-CTA-1C-5050VNS-3	6/18/2001	4		mg/kg			
			OU5-CTA-1C-5050VNS-4	6/18/2001	4		mg/kg			
			OU5-CTA-1C-5050VNS-SB-1	6/18/2001	2.9		mg/kg			
			OU5-CTA-1C-5050VNS-SB-2	6/18/2001	3.4		mg/kg			
			OU5-CTA-1C-5050VNS-SB-3	6/18/2001	1.7		mg/kg			
			OU5-CTA-1C-5050VNS-SB-4	6/18/2001	1.8		mg/kg			
			OU5-CTA-1C-5050VNS-SB-5	6/18/2001	1.6		mg/kg			
			OU5-CTA-1C-5050VNS-SB-6	6/18/2001	1.5		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5050VNS-SBDUP11	6/18/2001	1.3		mg/kg	OU5-CTA-1C-5050VNS-SB-6		
CSA	*12*	*5051 Overlook Road*							*No*	*No*
			OU5-CSA-12-5051OR-1	7/6/2001	4.5		mg/kg			
			OU5-CSA-12-5051OR-2	7/6/2001	7.4		mg/kg			
CSA	*12*	*5053 Loughboro Road*							*No*	*No*
			OU5-CSA-12-5053LR-1	8/3/2001	3.4		mg/kg			
			OU5-CSA-12-5053LR-2	8/3/2001	3.5		mg/kg			
CTA	*1C*	*5053 Sedgwick Street*							*No*	*No*
			OU5-CTA-1C-5053SegS-1	6/21/2001	4.8		mg/kg			
			OU5-CTA-1C-5053SegS-2	6/21/2001	5.3		mg/kg			
			OU5-CTA-1C-5053SegS-3	6/21/2001	3.8		mg/kg			
			OU5-CTA-1C-5053SegS-4	6/21/2001	6.5		mg/kg			
			OU5-CTA-1C-5053SegS-SB1	6/21/2001	3.6		mg/kg			
			OU5-CTA-1C-5053SegS-SB2	6/21/2001	3.7		mg/kg			
			OU5-CTA-1C-5053SegS-SB3	6/21/2001	2.8		mg/kg			
			OU5-CTA-1C-5053SegS-SB4	6/21/2001	2.7		mg/kg			
			OU5-CTA-1C-5053SegS-SB5	6/21/2001	1.8	J	mg/kg			
			OU5-CTA-1C-5053SegS-SB6	6/21/2001	1.5	J	mg/kg			
CTA	*1C*	*5054 Sedgwick Street*							*No*	*Yes*
			OU5-CTA-1C-5054SegS-1	4/3/2001	17.1	J	mg/kg			
			OU5-CTA-1C-5054SegS-1A	4/3/2001	7.2	J	mg/kg			
			OU5-CTA-1C-5054SegS-2	4/3/2001	9	J	mg/kg			
			OU5-CTA-1C-5054SegS-2A	4/3/2001	84.6	J	mg/kg			
			OU5-CTA-1C-5054SegS-3	4/3/2001	4.9	J	mg/kg			
			OU5-CTA-1C-5054SegS-3A	4/3/2001	2.4	J	mg/kg			
			OU5-CTA-1C-5054SegS-4	4/3/2001	8	J	mg/kg			
			OU5-CTA-1C-5054SegS-4A	4/3/2001	6.7	J	mg/kg			
			OU5-CTA-1C-5054SegS-SB-DUP1	4/3/2001	1.1	J	mg/kg	OU5-CTA-1C-5054SegS-SB6		
			OU5-CTA-1C-5054SegS-SB1	4/3/2001	16.9	J	mg/kg			
			OU5-CTA-1C-5054SegS-SB2	4/3/2001	2.7	J	mg/kg			
			OU5-CTA-1C-5054SegS-SB3	4/3/2001	1.3	J	mg/kg			
			OU5-CTA-1C-5054SegS-SB4	4/3/2001	2.9	J	mg/kg			
			OU5-CTA-1C-5054SegS-SB5	4/3/2001	3.7	J	mg/kg			
			OU5-CTA-1C-5054SegS-SB6	4/3/2001	0.7	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5054SegS-SB7	4/3/2001	0.83	J	mg/kg			
CSA	12	5057 Overlook Road							No	No
			OU5-CSA-12-5057OR-1	7/6/2001	2.9	J	mg/kg			
			OU5-CSA-12-5057OR-2	7/6/2001	4.1		mg/kg			
CTA	1C	5058 Sedgwick Street							No	Yes
			OU5-CTA-1C-5058SegS-1	7/2/2001	17.9		mg/kg			
			OU5-CTA-1C-5058SegS-2	7/2/2001	16.1		mg/kg			
			OU5-CTA-1C-5058SegS-3	7/2/2001	9.8		mg/kg			
			OU5-CTA-1C-5058SegS-4	7/2/2001	12.2		mg/kg			
			OU5-CTA-1C-5058SegS-SB-1	7/2/2001	4.8	L	mg/kg			
			OU5-CTA-1C-5058SegS-SB-2	7/2/2001	1.8	J	mg/kg			
			OU5-CTA-1C-5058SegS-SB-3	7/2/2001	1.4	J	mg/kg			
			OU5-CTA-1C-5058SegS-SB-4	7/2/2001	0.35	UL	mg/kg			
			OU5-CTA-1C-5058SegS-SB-5	7/2/2001	0.38	UL	mg/kg			
			OU5-CTA-1C-5058SegS-SB-6	7/2/2001	1.2	J	mg/kg			
			OU5-CTA-1C-5058SegS-SB-DUP21	7/2/2001	0.38	UL	mg/kg	OU5-CTA-1C-5058SegS-SB-5		
CTA	1C	5059 Sedgwick Street							No	No
			OU5-5059-1	4/3/2001	4.4	\2	mg/kg			
			OU5-5059-1A	4/3/2001	5	\2	mg/kg			
			OU5-5059-2	4/3/2001	6.5	\2	mg/kg			
			OU5-5059-2A	4/3/2001	2.8	\2	mg/kg			
			OU5-5059-3	4/3/2001	8	\2	mg/kg			
			OU5-5059-3A	4/3/2001	2.3	J \2	mg/kg			
			OU5-5059-4	4/3/2001	5.5	\2	mg/kg			
			OU5-5059-4A	4/3/2001	3.1	\2	mg/kg			
			OU5-5059-DUP-02	4/3/2001	2.4	\2	mg/kg	OU5-5059-2A		
			OU5-5059-SB-1	4/3/2001	2.4	\2	mg/kg			
			OU5-5059-SB-2	4/3/2001	0.63	U \2	mg/kg			
			OU5-5059-SB-3	4/3/2001	1.3	J \2	mg/kg			
			OU5-5059-SB-4	4/3/2001	4.5	\2	mg/kg			
			OU5-5059-SB-5	4/3/2001	1.8	J \2	mg/kg			
			OU5-5059-SB-6	4/3/2001	3.2	\2	mg/kg			
			OU5-5059-SB-7	4/3/2001	5	\2	mg/kg			
			OU5-5059-SB-8	4/3/2001	2.5	\2	mg/kg			
			OU5-5059-SB-9	4/3/2001	3	\2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1			Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-5059-SB-DUP-02	4/3/2001	2.2	J	\2	mg/kg	OU5-5059-SB-1		
CSA	*12*	*5060 Overlook Road*								*No*	*Yes + 1' arsenic boring*
			OU5-CSA-12-5060OR-1	8/3/2001	24.1			mg/kg			
			OU5-CSA-12-5060OR-2	8/3/2001	10.3			mg/kg			
CSA	*12*	*5063 Loughboro Road*								*No*	*Yes + 1' arsenic boring*
			OU5-CSA-12-5063LR-1	3/28/2002	14.1			mg/kg			
			OU5-CSA-12-5063LR-2	3/28/2002	7.7			mg/kg			
CSA	*12*	*5063 Overlook Road*								*No*	*No*
			OU5-CSA-12-5063OR-1	7/6/2001	2.8	J		mg/kg			
			OU5-CSA-12-5063OR-2	7/6/2001	2.6	J		mg/kg			
CTA	*1C*	*5064 Sedgwick Street*								*No*	*No*
			OU5-CTA-1C-5064SegS-1	10/2/2001	2.5			mg/kg			
			OU5-CTA-1C-5064SegS-2	10/2/2001	1.7	J		mg/kg			
			OU5-CTA-1C-5064SegS-3	10/2/2001	2.6			mg/kg			
			OU5-CTA-1C-5064SegS-4	10/2/2001	4			mg/kg			
			OU5-CTA-1C-5064SegS-SB-DUP79	10/2/2001	0.51	J		mg/kg	OU5-CTA-1C-5064SegS-SB2		
			OU5-CTA-1C-5064SegS-SB1	10/2/2001	0.98	J		mg/kg			
			OU5-CTA-1C-5064SegS-SB2	10/2/2001	0.53	J		mg/kg			
			OU5-CTA-1C-5064SegS-SB3	10/2/2001	0.37	U		mg/kg			
			OU5-CTA-1C-5064SegS-SB4	10/2/2001	0.39	U		mg/kg			
			OU5-CTA-1C-5064SegS-SB5	10/2/2001	0.36	U		mg/kg			
			OU5-CTA-1C-5064SegS-SB6	10/2/2001	0.44	J		mg/kg			
CTA	*1C*	*5065 Sedgwick Street*								*No*	*No*
			OU5-5065-1	4/3/2001	3.4		\2	mg/kg			
			OU5-5065-1A	4/3/2001	2.8		\2	mg/kg			
			OU5-5065-2	4/3/2001	3.6		\2	mg/kg			
			OU5-5065-2A	4/3/2001	4.1		\2	mg/kg			
			OU5-5065-3	4/3/2001	5.8		\2	mg/kg			
			OU5-5065-3A	4/3/2001	7.7		\2	mg/kg			
			OU5-5065-4	4/3/2001	8.9		\2	mg/kg			
			OU5-5065-4A	4/3/2001	6.8		\2	mg/kg			
			OU5-5065-DUP-01	4/3/2001	4		\2	mg/kg	OU5-5065-2A		
			OU5-5065-SB-1	4/3/2001	8.5		\2	mg/kg			
			OU5-5065-SB-2	4/3/2001	5.2		\2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-5065-SB-3	4/3/2001	4.3	\2	mg/kg			
			OU5-5065-SB-4	4/3/2001	5.2	\2	mg/kg			
			OU5-5065-SB-5	4/3/2001	4	\2	mg/kg			
			OU5-5065-SB-6	4/3/2001	2.4	\2	mg/kg			
			OU5-5065-SB-7	4/3/2001	3.1	\2	mg/kg			
CSA	*12*	*5068 Overlook Road*							*Yes*	*No*
			OU5-CSA-12-5068OR-1	10/26/2001	2.4		mg/kg			
			OU5-CSA-12-5068OR-2	10/26/2001	2.8		mg/kg			
			OU5-CSA-12-5068OR-SB1	11/19/2001	5.1		mg/kg			
			OU5-CSA-12-5068OR-SB2	11/19/2001	2	J	mg/kg			
			OU5-CSA-12-5068OR-SB3	11/19/2001	2.5		mg/kg			
			OU5-CSA-12-5068OR-SB4	11/19/2001	1.3	J	mg/kg			
			OU5-CSA-12-5068OR-SB5	11/19/2001	0.75	J	mg/kg			
			OU5-CSA-12-5068OR-SB6	11/19/2001	0.52	U	mg/kg			
CTA	*1C*	*5068 Sedgwick Street*							*Yes*	*No*
			OU5-CTA-1C-5068SegS-1	7/19/2001	4.3		mg/kg			
			OU5-CTA-1C-5068SegS-2	7/19/2001	2.9	J	mg/kg			
			OU5-CTA-1C-5068SegS-3	7/19/2001	1.7	J	mg/kg			
			OU5-CTA-1C-5068SegS-4	7/19/2001	2.7		mg/kg			
			OU5-CTA-1C-5068SegS-DUP28	7/19/2001	3.4		mg/kg	OU5-CTA-1C-5068SegS-2		
			OU5-CTA-1C-5068SegS-SB-1	7/19/2001	2.2	J	mg/kg			
			OU5-CTA-1C-5068SegS-SB-2	7/19/2001	0.59	U	mg/kg			
			OU5-CTA-1C-5068SegS-SB-3	7/19/2001	0.58	U	mg/kg			
			OU5-CTA-1C-5068SegS-SB-4	7/19/2001	0.57	U	mg/kg			
			OU5-CTA-1C-5068SegS-SB-5	7/19/2001	0.59	U	mg/kg			
			OU5-CTA-1C-5068SegS-SB-6	7/19/2001	0.77	J	mg/kg			
CSA	*12*	*5069 Overlook Road*							*No*	*Yes + 1' arsenic boring*
			OU5-CSA-12-5069OR-1	7/6/2001	14		mg/kg			
			OU5-CSA-12-5069OR-2	7/6/2001	2.1	J	mg/kg			
CTA	*1C*	*5071 Sedgwick Street*							*No*	*No*
			OU5-CTA-1C-5071SegS-1	8/22/2001	4.6		mg/kg			
			OU5-CTA-1C-5071SegS-2	8/22/2001	5.9		mg/kg			
			OU5-CTA-1C-5071SegS-3	8/22/2001	4.6		mg/kg			
			OU5-CTA-1C-5071SegS-4	8/22/2001	3.5		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5071SegS-DUP49	8/22/2001	4.7	mg/kg	OU5-CTA-1C-5071SegS-2		
			OU5-CTA-1C-5071SegS-SB1	8/22/2001	3.3	mg/kg			
			OU5-CTA-1C-5071SegS-SB10	8/22/2001	1.3 J	mg/kg			
			OU5-CTA-1C-5071SegS-SB2	8/22/2001	2.9	mg/kg			
			OU5-CTA-1C-5071SegS-SB3	8/22/2001	2.8	mg/kg			
			OU5-CTA-1C-5071SegS-SB4	8/22/2001	2.9	mg/kg			
			OU5-CTA-1C-5071SegS-SB5	8/22/2001	2.6	mg/kg			
			OU5-CTA-1C-5071SegS-SB6	8/22/2001	2.2 J	mg/kg			
			OU5-CTA-1C-5071SegS-SB7	8/22/2001	2.5	mg/kg			
			OU5-CTA-1C-5071SegS-SB8	8/22/2001	3	mg/kg			
			OU5-CTA-1C-5071SegS-SB9	8/22/2001	2.5	mg/kg			
CTA	1C	5074 Sedgwick Street						Yes	No
			OU5-CTA-1C-5074SegS-1	7/19/2001	10.1	mg/kg			
			OU5-CTA-1C-5074SegS-2	7/19/2001	2.8	mg/kg			
			OU5-CTA-1C-5074SegS-3	7/19/2001	2.7	mg/kg			
			OU5-CTA-1C-5074SegS-4	7/19/2001	2 J	mg/kg			
			OU5-CTA-1C-5074SegS-SB-1	7/19/2001	2.5	mg/kg			
			OU5-CTA-1C-5074SegS-SB-2	7/19/2001	1.7 J	mg/kg			
			OU5-CTA-1C-5074SegS-SB-3	7/19/2001	1 J	mg/kg			
			OU5-CTA-1C-5074SegS-SB-4	7/19/2001	0.91 J	mg/kg			
			OU5-CTA-1C-5074SegS-SB-DUP34	7/19/2001	0.84 J	mg/kg	OU5-CTA-1C-5074SegS-SB-4		
CSA	2	5100 Massachusetts Avenue						Yes	No
			OU5-CSA-2-5100MA-1	8/13/2001	2.5	mg/kg			
			OU5-CSA-2-5100MA-2	8/13/2001	3.2	mg/kg			
			OU5-CSA-2-5100MA-SB-DUP52	8/13/2001	1.6 J	mg/kg	OU5-CSA-2-5100MA-SB3		
			OU5-CSA-2-5100MA-SB1	8/13/2001	1.8 J	mg/kg			
			OU5-CSA-2-5100MA-SB2	8/13/2001	0.99 J	mg/kg			
			OU5-CSA-2-5100MA-SB3	8/13/2001	0.73 J	mg/kg			
			OU5-CSA-2-5100MA-SB4	8/13/2001	0.79 J	mg/kg			
			OU5-CSA-2-5100MA-SB5	8/13/2001	4.3	mg/kg			
			OU5-CSA-2-5100MA-SB6	8/13/2001	1.7 J	mg/kg			
CTA	1C	5100 Tilden Street						No	No
			OU5-CTA-1C-5100TS-1	7/18/2001	6.4	mg/kg			
			OU5-CTA-1C-5100TS-2	7/18/2001	4.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5100TS-3	7/18/2001	5.9	mg/kg			
			OU5-CTA-1C-5100TS-4	7/18/2001	5.1	mg/kg			
			OU5-CTA-1C-5100TS-DUP27	7/18/2001	4.4	mg/kg	OU5-CTA-1C-5100TS-2		
			OU5-CTA-1C-5100TS-SB-1	7/18/2001	4.8	mg/kg			
			OU5-CTA-1C-5100TS-SB-2	7/18/2001	2.6	mg/kg			
			OU5-CTA-1C-5100TS-SB-3	7/18/2001	2.7	mg/kg			
			OU5-CTA-1C-5100TS-SB-4	7/18/2001	4.4	mg/kg			
			OU5-CTA-1C-5100TS-SB-5	7/18/2001	3.2	mg/kg			
			OU5-CTA-1C-5100TS-SB-6	7/18/2001	1.5 J	mg/kg			
CTA	*1B*	*5100 Upton Street*						*No*	*Yes*
			OU5-CTA-1B-5100US-1	6/15/2001	5.3	mg/kg			
			OU5-CTA-1B-5100US-2	6/15/2001	6.6	mg/kg			
			OU5-CTA-1B-5100US-3	6/15/2001	15.5	mg/kg			
			OU5-CTA-1B-5100US-4	6/15/2001	15.7	mg/kg			
			OU5-CTA-1B-5100US-SB1	6/15/2001	1.6 J	mg/kg			
			OU5-CTA-1B-5100US-SB2	6/15/2001	1.4 J	mg/kg			
			OU5-CTA-1B-5100US-SB3	6/15/2001	1.1 J	mg/kg			
			OU5-CTA-1B-5100US-SB4	6/15/2001	1.3 J	mg/kg			
			OU5-CTA-1B-5100US-SB5	6/15/2001	1.3 J	mg/kg			
			OU5-CTA-1B-5100US-SB6	6/15/2001	1.7 J	mg/kg			
CTA	*1C*	*5100 Van Ness Street*						*No*	*No*
			OU5-CTA-1C-5100VNS-1	6/15/2001	4.5	mg/kg			
			OU5-CTA-1C-5100VNS-2	6/15/2001	2.9	mg/kg			
			OU5-CTA-1C-5100VNS-3	6/15/2001	3.8	mg/kg			
			OU5-CTA-1C-5100VNS-4	6/15/2001	5.5	mg/kg			
			OU5-CTA-1C-5100VNS-SB-1	6/15/2001	3.5	mg/kg			
			OU5-CTA-1C-5100VNS-SB-2	6/15/2001	3.6	mg/kg			
			OU5-CTA-1C-5100VNS-SB-3	6/15/2001	3.8	mg/kg			
			OU5-CTA-1C-5100VNS-SB-4	6/15/2001	2.1 J	mg/kg			
			OU5-CTA-1C-5100VNS-SB-5	6/15/2001	1.3 J	mg/kg			
			OU5-CTA-1C-5100VNS-SB-6	6/15/2001	0.79 J	mg/kg			
			OU5-CTA-1C-5100VNS-SB-7	6/15/2001	0.87 J	mg/kg			
			OU5-CTA-1C-5100VNS-SB-8	6/15/2001	0.92 J	mg/kg			
			OU5-CTA-1C-5100VNS-SB-DUP09	6/15/2001	1.2 J	mg/kg	OU5-CTA-1C-5100VNS-SB-7		

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1A	5100 Warren Place						No	No
			OU5-CTA-1A-5100WP-1	3/26/2002	2.6	mg/kg			
			OU5-CTA-1A-5100WP-2	3/26/2002	3.7	mg/kg			
			OU5-CTA-1A-5100WP-3	3/26/2002	2.1	mg/kg			
			OU5-CTA-1A-5100WP-4	3/26/2002	2.2	mg/kg			
			OU5-CTA-1A-5100WP-SB1	3/26/2002	1.2 J	mg/kg			
			OU5-CTA-1A-5100WP-SB2	3/26/2002	0.73 J	mg/kg			
			OU5-CTA-1A-5100WP-SB3	3/26/2002	0.51 J	mg/kg			
			OU5-CTA-1A-5100WP-SB4	3/26/2002	0.94 J	mg/kg			
CSA	2	5100 Yuma Place						Yes	No
			OU5-CSA-2-5100YP-1	12/3/2001	2.8	mg/kg			
			OU5-CSA-2-5100YP-2	12/3/2001	3.1	mg/kg			
			OU5-CSA-2-5100YP-SB1	12/3/2001	1.7 J	mg/kg			
			OU5-CSA-2-5100YP-SB2	12/3/2001	2.6	mg/kg			
			OU5-CSA-2-5100YP-SB3	12/3/2001	2 J	mg/kg			
			OU5-CSA-2-5100YP-SB4	12/3/2001	0.89 J	mg/kg			
			OU5-CSA-2-5100YP-SB5	12/3/2001	0.41 U	mg/kg			
			OU5-CSA-2-5100YP-SB6	12/3/2001	0.73 J	mg/kg			
			OU5-CSA-2-5100YP-SB7	12/3/2001	0.39 U	mg/kg			
CSA	2	5100 Yuma Street						Yes	No
			OU5-CSA-2-5100YS-1	8/9/2001	2.5	mg/kg			
			OU5-CSA-2-5100YS-2	8/9/2001	2 J	mg/kg			
			OU5-CSA-2-5100YS-SB-DUP52	8/9/2001	3	mg/kg	OU5-CSA-2-5100YS-SB1		
			OU5-CSA-2-5100YS-SB1	8/9/2001	2.2	mg/kg			
			OU5-CSA-2-5100YS-SB2	8/9/2001	1.6 J	mg/kg			
			OU5-CSA-2-5100YS-SB3	8/9/2001	1.3 J	mg/kg			
			OU5-CSA-2-5100YS-SB4	8/9/2001	0.6 J	mg/kg			
CTA	1C	5101 Upton Street						No	No
			OU5-CTA-1C-5101US-1	6/15/2001	7.1	mg/kg			
			OU5-CTA-1C-5101US-2	6/15/2001	6.6	mg/kg			
			OU5-CTA-1C-5101US-3	6/15/2001	7.2	mg/kg			
			OU5-CTA-1C-5101US-4	6/15/2001	8.6	mg/kg			
			OU5-CTA-1C-5101US-SB1	6/15/2001	3.4	mg/kg			
			OU5-CTA-1C-5101US-SB10	6/15/2001	2.5	mg/kg			
			OU5-CTA-1C-5101US-SB2	6/15/2001	4.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5101US-SB3	6/15/2001	1.7 J	mg/kg			
			OU5-CTA-1C-5101US-SB4	6/15/2001	2.4	mg/kg			
			OU5-CTA-1C-5101US-SB5	6/15/2001	2.7	mg/kg			
			OU5-CTA-1C-5101US-SB6	6/15/2001	2.3	mg/kg			
			OU5-CTA-1C-5101US-SB7	6/15/2001	1.4 J	mg/kg			
			OU5-CTA-1C-5101US-SB8	6/15/2001	2.8	mg/kg			
			OU5-CTA-1C-5101US-SB9	6/15/2001	3.4	mg/kg			
			OU5-CTA-1C-5101US-SBDUP09	6/15/2001	2.4 J	mg/kg	OU5-CTA-1C-5101US-SB7		
CTA	**1A**	**5101 Van Ness Street**						**No**	**No**
			OU5-CTA-1A-5101VNS-1	6/20/2001	4.2	mg/kg			
			OU5-CTA-1A-5101VNS-2	6/20/2001	7.2	mg/kg			
			OU5-CTA-1A-5101VNS-3	6/20/2001	8.3	mg/kg			
			OU5-CTA-1A-5101VNS-4	6/20/2001	5.7	mg/kg			
			OU5-CTA-1A-5101VNS-DUP09	6/20/2001	6.9	mg/kg	OU5-CTA-1A-5101VNS-3		
			OU5-CTA-1A-5101VNS-SB-1	6/20/2001	2.7	mg/kg			
			OU5-CTA-1A-5101VNS-SB-2	6/20/2001	2.3	mg/kg			
			OU5-CTA-1A-5101VNS-SB-3	6/20/2001	3	mg/kg			
			OU5-CTA-1A-5101VNS-SB-4	6/20/2001	3.3	mg/kg			
			OU5-CTA-1A-5101VNS-SB-5	6/20/2001	1.7	mg/kg			
			OU5-CTA-1A-5101VNS-SB-6	6/20/2001	0.72	mg/kg			
			OU5-CTA-1A-5101VNS-SB-DUP14	6/20/2001	1.6	mg/kg	OU5-CTA-1A-5101VNS-SB-5		
CSA	**2**	**5101 Yuma Court**						**Yes**	**No**
			OU5-CSA-2-5101YC-1	9/18/2001	3.5	mg/kg			
			OU5-CSA-2-5101YC-2	9/18/2001	1.7 J	mg/kg			
			OU5-CSA-2-5101YC-DUP61	9/18/2001	2.7	mg/kg	OU5-CSA-2-5101YC-2		
			OU5-CSA-2-5101YC-SB1	9/18/2001	0.58 U	mg/kg			
			OU5-CSA-2-5101YC-SB2	9/18/2001	2.1 J	mg/kg			
			OU5-CSA-2-5101YC-SB3	9/18/2001	2.6	mg/kg			
			OU5-CSA-2-5101YC-SB4	9/18/2001	1.1 J	mg/kg			
			OU5-CSA-2-5101YC-SB5	9/18/2001	3.6	mg/kg			
CSA	**2**	**5101 Yuma Place**						**Yes**	**No**
			OU5-CSA-2-5101YP-1	7/5/2001	2.4 J	mg/kg			
			OU5-CSA-2-5101YP-2	7/5/2001	2 J	mg/kg			
			OU5-CSA-2-5101YP-SB-1a	7/5/2001	0.42 U	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-2-5101YP-SB-1b	7/19/2001	0.71 J	mg/kg			
			OU5-CSA-2-5101YP-SB-2a	7/5/2001	0.38 U	mg/kg			
			OU5-CSA-2-5101YP-SB-2b	7/19/2001	1.8 J	mg/kg			
			OU5-CSA-2-5101YP-SB-3a	7/5/2001	0.37 U	mg/kg			
			OU5-CSA-2-5101YP-SB-3b	7/19/2001	0.54 U	mg/kg			
			OU5-CSA-2-5101YP-SB-4a	7/5/2001	0.38 U	mg/kg			
			OU5-CSA-2-5101YP-SB-4b	7/19/2001	0.8 J	mg/kg			
			OU5-CSA-2-5101YP-SB-5b	7/19/2001	0.58 U	mg/kg			
			OU5-CSA-2-5101YP-SB-DUP24	7/5/2001	0.36 U	mg/kg	OU5-CSA-2-5101YP-SB-4a		
CSA	*2*	*5101 Yuma Street*						*No*	*No*
			OU5-CSA-2-5101YS-1	6/29/2001	2.3 J	mg/kg			
			OU5-CSA-2-5101YS-2	6/29/2001	3.4	mg/kg			
CTA	*1A*	*5102 52nd Court*						*No*	*No*
			OU5-CTA-1A-5102(52C)-1	7/5/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5102(52C)-2	7/5/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5102(52C)-3	7/5/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5102(52C)-4	7/5/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5102(52C)-SB-1	7/5/2001	0.83 J	mg/kg			
			OU5-CTA-1A-5102(52C)-SB-2	7/5/2001	0.43 J	mg/kg			
			OU5-CTA-1A-5102(52C)-SB-3	7/5/2001	0.38 U	mg/kg			
			OU5-CTA-1A-5102(52C)-SB-4	7/5/2001	2.6	mg/kg			
			OU5-CTA-1A-5102(52C)-SB-5	7/5/2001	6.6	mg/kg			
			OU5-CTA-1A-5102(52C)-SB-6	7/5/2001	0.38 U	mg/kg			
			OU5-CTA-1A-5102(52C)-SB-DUP23	7/5/2001	0.38 U	mg/kg	OU5-CTA-1A-5102(52C)-SB-3		
CTA	*1A*	*5102 52nd Street*						*No*	*No*
			OU5-CTA-1A-5102(52)-1	8/29/2001	3	mg/kg			
			OU5-CTA-1A-5102(52)-2	8/29/2001	3	mg/kg			
			OU5-CTA-1A-5102(52)-3	8/29/2001	2.3	mg/kg			
			OU5-CTA-1A-5102(52)-4	8/29/2001	3.8	mg/kg			
			OU5-CTA-1A-5102(52)-DUP54	8/29/2001	3.8	mg/kg	OU5-CTA-1A-5102(52)-4		
			OU5-CTA-1A-5102(52)-SB1	8/29/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5102(52)-SB2	8/29/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5102(52)-SB3	8/29/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5102(52)-SB4	8/29/2001	1 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1A	5102 Warren Place						No	No
			OU5-CTA-1A-5102WP-1	8/22/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5102WP-2	8/22/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5102WP-3	8/22/2001	3.7	mg/kg			
			OU5-CTA-1A-5102WP-4	8/22/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5102WP-SB1	8/22/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5102WP-SB2	8/22/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5102WP-SB3	8/22/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5102WP-SB4	8/22/2001	0.77 J	mg/kg			
CSA	2	5102 Yuma Place						No	No
			OU5-CSA-2-5102YP-1	11/9/2001	2.1 J	mg/kg			
			OU5-CSA-2-5102YP-2	11/9/2001	2.7	mg/kg			
CSA	2	5102 Yuma Street						No	No
			OU5-CSA-2-5102YS-1	8/9/2001	1.9 J	mg/kg			
			OU5-CSA-2-5102YS-2	8/9/2001	2.3	mg/kg			
CTA	1A	5103 52nd Court						No	No
			OU5-CTA-1A-5103(52C)-1	7/11/2001	2.2 J	mg/kg			
			OU5-CTA-1A-5103(52C)-2	7/11/2001	2.8	mg/kg			
			OU5-CTA-1A-5103(52C)-3	7/11/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5103(52C)-4	7/11/2001	2.7	mg/kg			
			OU5-CTA-1A-5103(52C)-SB-1	7/11/2001	2.3	mg/kg			
			OU5-CTA-1A-5103(52C)-SB-2	7/11/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5103(52C)-SB-3	7/11/2001	0.85 J	mg/kg			
			OU5-CTA-1A-5103(52C)-SB-4	7/11/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5103(52C)-SB-5	7/11/2001	1 J	mg/kg			
			OU5-CTA-1A-5103(52C)-SB-6	7/11/2001	0.7 J	mg/kg			
CSA	2	5103 52nd Street						No	No
			OU5-CSA-2-5103(52)-1	8/3/2001	3.8	mg/kg			
			OU5-CSA-2-5103(52)-2	8/3/2001	1.5 J	mg/kg			
CTA	1A	5103 Warren Place						Yes	No
			OU5-CTA-1A-5103WP-1	8/13/2001	2 J	mg/kg			
			OU5-CTA-1A-5103WP-2	8/13/2001	3.1	mg/kg			
			OU5-CTA-1A-5103WP-3	8/13/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5103WP-4	8/13/2001	1.3 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5103WP-SB1	8/13/2001	2 J	mg/kg			
			OU5-CTA-1A-5103WP-SB2	8/13/2001	0.39 U	mg/kg			
CSA	*2*	*5103 Yuma Court*						*No*	*No*
			OU5-CSA-2-5103YC-1	8/9/2001	1.7 J	mg/kg			
			OU5-CSA-2-5103YC-2	8/9/2001	2.5	mg/kg			
CSA	*2*	*5103 Yuma Place*						*Yes*	*No*
			OU5-CSA-2-5103YP-1	9/4/2001	3.1	mg/kg			
			OU5-CSA-2-5103YP-2	9/4/2001	3	mg/kg			
			OU5-CSA-2-5103YP-SB-DUP65	9/4/2001	0.66 J	mg/kg	OU5-CSA-2-5103YP-SB4		
			OU5-CSA-2-5103YP-SB1	9/4/2001	2.8	mg/kg			
			OU5-CSA-2-5103YP-SB2	9/4/2001	1.6 J	mg/kg			
			OU5-CSA-2-5103YP-SB3	9/4/2001	1.3 J	mg/kg			
			OU5-CSA-2-5103YP-SB4	9/4/2001	0.53 U	mg/kg			
			OU5-CSA-2-5103YP-SB5	9/4/2001	0.53 U	mg/kg			
CSA	*2*	*5103 Yuma Street*						*No*	*No*
			OU5-CSA-2-5103YS-1	11/15/2001	2.8	mg/kg			
			OU5-CSA-2-5103YS-2	11/15/2001	2.7	mg/kg			
CTA	*1A*	*5104 52nd Court*						*No*	*No*
			OU5-CTA-1A-5104(52C)-1	6/22/2001	2.2 J	mg/kg			
			OU5-CTA-1A-5104(52C)-2	6/22/2001	2.2 J	mg/kg			
			OU5-CTA-1A-5104(52C)-3	6/22/2001	2 J	mg/kg			
			OU5-CTA-1A-5104(52C)-4	6/22/2001	2.6	mg/kg			
			OU5-CTA-1A-5104(52C)-DUP10	6/22/2001	2.4	mg/kg	OU5-CTA-1A-5104(52C)-2		
			OU5-CTA-1A-5104(52C)-SB-1	6/22/2001	3	mg/kg			
			OU5-CTA-1A-5104(52C)-SB-10	6/22/2001	3.1	mg/kg			
			OU5-CTA-1A-5104(52C)-SB-2	6/22/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5104(52C)-SB-3	6/22/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5104(52C)-SB-4	6/22/2001	3.4	mg/kg			
			OU5-CTA-1A-5104(52C)-SB-5	6/22/2001	2.5	mg/kg			
			OU5-CTA-1A-5104(52C)-SB-6	6/22/2001	4	mg/kg			
			OU5-CTA-1A-5104(52C)-SB-7	6/22/2001	4.2	mg/kg			
			OU5-CTA-1A-5104(52C)-SB-8	6/22/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5104(52C)-SB-9	6/22/2001	0.54 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5104(52C)-SBDUP15	6/22/2001	1 J	mg/kg	OU5-CTA-1A-5104(52C)-SB-9		
CTA	1A	5104 52nd Street						No	No
			OU5-CTA-1A-5104(52)-1	8/13/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5104(52)-2	8/13/2001	2.2 J	mg/kg			
			OU5-CTA-1A-5104(52)-3	8/13/2001	2.4 J	mg/kg			
			OU5-CTA-1A-5104(52)-4	8/13/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5104(52)-SB-DUP53	8/13/2001	0.81 J	mg/kg	OU5-CTA-1A-5104(52)-SB5		
			OU5-CTA-1A-5104(52)-SB1	8/13/2001	1 J	mg/kg			
			OU5-CTA-1A-5104(52)-SB2	8/13/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5104(52)-SB3	8/13/2001	0.7 J	mg/kg			
			OU5-CTA-1A-5104(52)-SB4	8/13/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5104(52)-SB5	8/13/2001	0.7 J	mg/kg			
			OU5-CTA-1A-5104(52)-SB6	8/13/2001	1.4 J	mg/kg			
CSA	12	5104 Rockwood Parkway						No	No
			OU5-CSA-12-5104RP-1	8/26/2003	7.1	mg/kg			
			OU5-CSA-12-5104RP-2	8/26/2003	9.6	mg/kg			
CTA	1A	5104 Warren Place						No	No
			OU5-CTA-1A-5104WP-1	6/14/2001	3.7	mg/kg			
			OU5-CTA-1A-5104WP-2	6/14/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5104WP-3	6/14/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5104WP-4	6/14/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5104WP-SB-1	6/14/2001	4.2	mg/kg			
			OU5-CTA-1A-5104WP-SB-2	6/14/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5104WP-SB-3	6/14/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5104WP-SB-4	6/14/2001	1 J	mg/kg			
			OU5-CTA-1A-5104WP-SB-5	6/14/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5104WP-SB-6	6/14/2001	2.2	mg/kg			
CSA	2	5104 Yuma Street						No	No
			OU5-CSA-2-5104YS-1	8/31/2001	3.8	mg/kg			
			OU5-CSA-2-5104YS-2	8/31/2001	4.2	mg/kg			
CTA	1A	5105 52nd Court						No	No
			OU5-CTA-1A-5105(52C)-1	7/23/2001	3.1	mg/kg			
			OU5-CTA-1A-5105(52C)-2	7/23/2001	2.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5105(52C)-3	7/23/2001	2.4	mg/kg			
			OU5-CTA-1A-5105(52C)-4	7/23/2001	2.5 J	mg/kg			
			OU5-CTA-1A-5105(52C)-SB-1	7/23/2001	2.5	mg/kg			
			OU5-CTA-1A-5105(52C)-SB-2	7/23/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5105(52C)-SB-3	7/23/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5105(52C)-SB-4	7/23/2001	3.4	mg/kg			
			OU5-CTA-1A-5105(52C)-SB-5	7/23/2001	0.53 U	mg/kg			
			OU5-CTA-1A-5105(52C)-SB-6	7/23/2001	0.55 U	mg/kg			
			OU5-CTA-1A-5105(52C)-SB-DUP36	7/23/2001	1.6 J	mg/kg	OU5-CTA-1A-5105(52C)-SB-3		
CSA	*2*	*5105 52nd Street*						*No*	*No*
			OU5-CSA-2-5105(52)-1	7/20/2001	2.4	mg/kg			
			OU5-CSA-2-5105(52)-2	7/20/2001	2.4	mg/kg			
CTA	*1A*	*5105 Warren Place*						*Yes*	*No*
			OU5-CTA-1A-5105WP-1	9/21/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5105WP-2	9/21/2001	5.2	mg/kg			
			OU5-CTA-1A-5105WP-3	9/21/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5105WP-4	9/21/2001	2.6	mg/kg			
			OU5-CTA-1A-5105WP-SB1	10/1/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5105WP-SB2	10/1/2001	0.51 J	mg/kg			
CSA	*2*	*5105 Yuma Court*						*No*	*No*
			OU5-CSA-2-5105YC-1	10/25/2001	4.7	mg/kg			
			OU5-CSA-2-5105YC-2	10/25/2001	1.7 J	mg/kg			
			OU5-CSA-2-5105YC-DUP80	10/25/2001	3.4	mg/kg	OU5-CSA-2-5105YC-1		
CSA	*2*	*5105 Yuma Place*						*Yes*	*No*
			OU5-CSA-2-5105YP-1	8/29/2001	2.6	mg/kg			
			OU5-CSA-2-5105YP-2	8/29/2001	2.9	mg/kg			
			OU5-CSA-2-5105YP-SB1	8/29/2001	1.3 J	mg/kg			
			OU5-CSA-2-5105YP-SB2	8/29/2001	1.1 J	mg/kg			
			OU5-CSA-2-5105YP-SB3	8/29/2001	0.75 J	mg/kg			
			OU5-CSA-2-5105YP-SB4	8/29/2001	1.8 J	mg/kg			
			OU5-CSA-2-5105YP-SB5	8/29/2001	0.59 U	mg/kg			
CSA	*2*	*5105 Yuma Street*						*No*	*No*
			OU5-CSA-2-5105YS-1	2/14/2002	3.6	mg/kg			
			OU5-CSA-2-5105YS-2	2/14/2002	3.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1A	5106 52nd Court						Yes	No
			OU5-CTA-1A-5106(52C)-1	7/5/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5106(52C)-2	7/5/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5106(52C)-3	7/5/2001	2.4 J	mg/kg			
			OU5-CTA-1A-5106(52C)-4	7/5/2001	2.4 J	mg/kg			
			OU5-CTA-1A-5106(52C)-SB1	7/5/2001	3	mg/kg			
			OU5-CTA-1A-5106(52C)-SB10	7/5/2001	0.57 U	mg/kg			
			OU5-CTA-1A-5106(52C)-SB2	7/5/2001	4	mg/kg			
			OU5-CTA-1A-5106(52C)-SB3	7/5/2001	3	mg/kg			
			OU5-CTA-1A-5106(52C)-SB4	7/5/2001	3.9	mg/kg			
			OU5-CTA-1A-5106(52C)-SB5	7/5/2001	4	mg/kg			
			OU5-CTA-1A-5106(52C)-SB6	7/5/2001	3.9	mg/kg			
			OU5-CTA-1A-5106(52C)-SB7	7/5/2001	2.7	mg/kg			
			OU5-CTA-1A-5106(52C)-SB8	7/5/2001	0.81 J	mg/kg			
			OU5-CTA-1A-5106(52C)-SB9	7/5/2001	1.1 J	mg/kg			
CTA	1A	5106 52nd Street						No	No
			OU5-CTA-1A-5106(52)-1	11/6/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5106(52)-2	11/6/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5106(52)-3	11/6/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5106(52)-4	11/6/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5106(52)-SB-DUP91	11/6/2001	1.2 J	mg/kg	OU5-CTA-1A-5106(52)-SB3		
			OU5-CTA-1A-5106(52)-SB1	11/6/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5106(52)-SB10	11/6/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5106(52)-SB2	11/6/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5106(52)-SB3	11/6/2001	0.95 J	mg/kg			
			OU5-CTA-1A-5106(52)-SB4	11/6/2001	3.1	mg/kg			
			OU5-CTA-1A-5106(52)-SB5	11/6/2001	2 J	mg/kg			
			OU5-CTA-1A-5106(52)-SB6	11/6/2001	2.2	mg/kg			
			OU5-CTA-1A-5106(52)-SB7	11/6/2001	0.99 J	mg/kg			
			OU5-CTA-1A-5106(52)-SB8	11/6/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5106(52)-SB9	11/6/2001	1.4 J	mg/kg			
CSA	2	5106 Albemarle Street						No	No
			OU5-CSA-2-5106AS-1	11/14/2001	7.8	mg/kg			
			OU5-CSA-2-5106AS-2	11/14/2001	5.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	2	5106 Massachusetts Avenue						Yes	No
			OU5-CSA-2-5106MA-1	8/29/2001	5.5	mg/kg			
			OU5-CSA-2-5106MA-2	8/29/2001	4	mg/kg			
			OU5-CSA-2-5106MA-DUP53	8/29/2001	5.3	mg/kg	OU5-CSA-2-5106MA-1		
			OU5-CSA-2-5106MA-SB-DUP62	8/29/2001	3.3	mg/kg	OU5-CSA-2-5106MA-SB4		
			OU5-CSA-2-5106MA-SB1	8/29/2001	2.3	mg/kg			
			OU5-CSA-2-5106MA-SB2	8/29/2001	1.3 J	mg/kg			
			OU5-CSA-2-5106MA-SB3	8/29/2001	2 J	mg/kg			
			OU5-CSA-2-5106MA-SB4	8/29/2001	3.3	mg/kg			
			OU5-CSA-2-5106MA-SB5	8/29/2001	1.9 J	mg/kg			
			OU5-CSA-2-5106MA-SB6	8/29/2001	3.9	mg/kg			
			OU5-CSA-2-5106MA-SB7	8/29/2001	5.6	mg/kg			
CTA	1A	5106 Warren Place						No	No
			OU5-CTA-1A-5106WP-1	7/18/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5106WP-2	7/18/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5106WP-3	7/18/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5106WP-4	7/18/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5106WP-SB-DUP-35	7/18/2001	0.82 J	mg/kg	OU5-CTA-1A-5106WP-SB3		
			OU5-CTA-1A-5106WP-SB1	7/18/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5106WP-SB2	7/18/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5106WP-SB3	7/18/2001	0.9 J	mg/kg			
			OU5-CTA-1A-5106WP-SB4	7/18/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5106WP-SB5	7/18/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5106WP-SB6	7/18/2001	1.3 J	mg/kg			
CSA	2	5106 Yuma Street						No	No
			OU5-CSA-2-5106YS-1	9/21/2001	2.1 J	mg/kg			
			OU5-CSA-2-5106YS-2	9/21/2001	1.5 J	mg/kg			
CTA	1A	5107 52nd Court						Yes	No
			OU5-CTA-1A-5107(52C)-1	6/18/2001	2.5	mg/kg			
			OU5-CTA-1A-5107(52C)-2	6/18/2001	2.7	mg/kg			
			OU5-CTA-1A-5107(52C)-3	6/18/2001	2.2	mg/kg			
			OU5-CTA-1A-5107(52C)-4	6/18/2001	2.4	mg/kg			
			OU5-CTA-1A-5107(52C)-SBA-1	6/18/2001	1.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5107(52C)-SBA-2	6/18/2001	3.4	mg/kg			
			OU5-CTA-1A-5107(52C)-SBA-3	6/18/2001	3.2	mg/kg			
			OU5-CTA-1A-5107(52C)-SBA-4	6/18/2001	3	mg/kg			
			OU5-CTA-1A-5107(52C)-SBA-5	6/18/2001	2.8	mg/kg			
			OU5-CTA-1A-5107(52C)-SBA-6	6/18/2001	5.8	mg/kg			
			OU5-CTA-1A-5107(52C)-SBB-1	6/18/2001	2.8	mg/kg			
			OU5-CTA-1A-5107(52C)-SBB-2	6/18/2001	2.9	mg/kg			
			OU5-CTA-1A-5107(52C)-SBB-3	6/18/2001	1.3	mg/kg			
			OU5-CTA-1A-5107(52C)-SBB-4	6/18/2001	0.89	mg/kg			
			OU5-CTA-1A-5107(52C)-SBB-5	6/18/2001	0.87	mg/kg			
			OU5-CTA-1A-5107(52C)-SBB-6	6/18/2001	0.39	mg/kg			
CSA	*2*	*5107 52nd Street*						*No*	*No*
			OU5-CSA-2-5107(52)-1	8/3/2001	2 J	mg/kg			
			OU5-CSA-2-5107(52)-2	8/3/2001	1.5 J	mg/kg			
CTA	*1A*	*5107 Warren Place*						*No*	*No*
			OU5-CTA-1A-5107WP-1	7/18/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5107WP-2	7/18/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5107WP-3	7/18/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5107WP-4	7/18/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5107WP-SB1	7/18/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5107WP-SB2	7/18/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5107WP-SB3	7/18/2001	3.6	mg/kg			
			OU5-CTA-1A-5107WP-SB4	7/18/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5107WP-SB5	7/18/2001	0.81 J	mg/kg			
CSA	*2*	*5107 Yuma Place*						*No*	*No*
			OU5-CSA-2-5107YP-1	10/25/2001	2.4	mg/kg			
			OU5-CSA-2-5107YP-2	10/25/2001	3.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	2	5107 Yuma Street						No	No
			OU5-CSA-2-5107YS-1	8/17/2001	2.7	mg/kg			
			OU5-CSA-2-5107YS-2	8/17/2001	2.1 J	mg/kg			
CTA	1A	5108 52nd Court						Yes	No
			OU5-CTA-1A-5108(52C)-1	6/13/2001	2.3 J	mg/kg			
			OU5-CTA-1A-5108(52C)-2	6/13/2001	3.2	mg/kg			
			OU5-CTA-1A-5108(52C)-3	6/13/2001	2.3 J	mg/kg			
			OU5-CTA-1A-5108(52C)-4	6/13/2001	2.7	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-1	6/13/2001	3.7	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-2	6/13/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-3	6/13/2001	2.2 J	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-4	6/13/2001	3.8	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-5	6/13/2001	4.5	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-6	6/13/2001	2.6	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-7	6/13/2001	2.3	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-8	6/13/2001	0.95 J	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-9	6/13/2001	0.57 U	mg/kg			
			OU5-CTA-1A-5108(52C)-SB-DUP06	6/13/2001	3.8	mg/kg	OU5-CTA-1A-5108(52C)-SB-5		
			OU5-CTA-1A-5108(52C)-SBA1	11/6/2001	0.97 J	mg/kg			
			OU5-CTA-1A-5108(52C)-SBA2	11/6/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5108(52C)-SBA3	11/6/2001	2 J	mg/kg			
			OU5-CTA-1A-5108(52C)-SBA4	11/6/2001	0.81 J	mg/kg			
			OU5-CTA-1A-5108(52C)-SBA5	11/6/2001	0.56 J	mg/kg			
			OU5-CTA-1A-5108(52C)-SBA6	11/6/2001	0.89 J	mg/kg			
CTA	1A	5108 52nd Street						No	No
			OU5-CTA-1A-5108(52)-1	8/13/2001	2.4 J	mg/kg			
			OU5-CTA-1A-5108(52)-2	8/13/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5108(52)-3	8/13/2001	4.9	mg/kg			
			OU5-CTA-1A-5108(52)-4	8/13/2001	2.8	mg/kg			
			OU5-CTA-1A-5108(52)-DUP43	8/13/2001	2.6	mg/kg	OU5-CTA-1A-5108(52)-2		
			OU5-CTA-1A-5108(52)-SB1	8/13/2001	2.5	mg/kg			
			OU5-CTA-1A-5108(52)-SB2	8/13/2001	2 J	mg/kg			
			OU5-CTA-1A-5108(52)-SB3	8/13/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5108(52)-SB4	8/13/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5108(52)-SB5	8/13/2001	0.97 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5108(52)-SB6	8/13/2001	0.48 J	mg/kg			
CSA	2	5108 Warren Place						No	No
			OU5-CSA-2-5108WP-1	7/20/2001	2.5	mg/kg			
			OU5-CSA-2-5108WP-2	7/20/2001	2 J	mg/kg			
CSA	2	5108 Yuma Street						No	No
			OU5-CSA-2-5108YS-1	7/6/2001	6.8	mg/kg			
			OU5-CSA-2-5108YS-2	7/6/2001	3.6	mg/kg			
CTA	1A	5109 52nd Court						No	No
			OU5-CTA-1A-5109(52C)-1	8/29/2001	3	mg/kg			
			OU5-CTA-1A-5109(52C)-2	8/29/2001	2.6	mg/kg			
			OU5-CTA-1A-5109(52C)-3	8/29/2001	2.3 J	mg/kg			
			OU5-CTA-1A-5109(52C)-4	8/29/2001	2.4	mg/kg			
			OU5-CTA-1A-5109(52C)-SB-DUP63	8/29/2001	1.2 J	mg/kg	OU5-CTA-1A-5109(52C)-SB7		
			OU5-CTA-1A-5109(52C)-SB1	8/29/2001	2.4	mg/kg			
			OU5-CTA-1A-5109(52C)-SB2	8/29/2001	2.2	mg/kg			
			OU5-CTA-1A-5109(52C)-SB3	8/29/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5109(52C)-SB4	8/29/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5109(52C)-SB5	8/29/2001	5.5	mg/kg			
			OU5-CTA-1A-5109(52C)-SB6	8/29/2001	2.7	mg/kg			
			OU5-CTA-1A-5109(52C)-SB7	8/29/2001	1.3 J	mg/kg			
CSA	2	5109 52nd Street						No	No
			OU5-CSA-2-5109(52)-1	7/20/2001	1.5 J	mg/kg			
			OU5-CSA-2-5109(52)-2	7/20/2001	2.3	mg/kg			
CTA	1C	5109 Upton Street						No	No
			OU5-CTA-1C-5109US-1	6/20/2001	5.1	mg/kg			
			OU5-CTA-1C-5109US-2	6/20/2001	5.2	mg/kg			
			OU5-CTA-1C-5109US-3	6/20/2001	9.1	mg/kg			
			OU5-CTA-1C-5109US-4	6/20/2001	8.2	mg/kg			
			OU5-CTA-1C-5109US-SB1	6/20/2001	4.7	mg/kg			
			OU5-CTA-1C-5109US-SB2	6/20/2001	3.5	mg/kg			
			OU5-CTA-1C-5109US-SB3	6/20/2001	2.9	mg/kg			
			OU5-CTA-1C-5109US-SB4	6/20/2001	1.1	mg/kg			
			OU5-CTA-1C-5109US-SB5	6/20/2001	0.66	mg/kg			
			OU5-CTA-1C-5109US-SB6	6/20/2001	0.74	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1A	5109 Warren Place							No	No
			OU5-CTA-1A-5109WP-1	6/14/2001	2.7		mg/kg			
			OU5-CTA-1A-5109WP-2	6/14/2001	3.7		mg/kg			
			OU5-CTA-1A-5109WP-3	6/14/2001	2.6		mg/kg			
			OU5-CTA-1A-5109WP-4	6/14/2001	2.4		mg/kg			
			OU5-CTA-1A-5109WP-SB-1	6/14/2001	1.6	J	mg/kg			
			OU5-CTA-1A-5109WP-SB-2	6/14/2001	1.8	J	mg/kg			
			OU5-CTA-1A-5109WP-SB-3	6/14/2001	0.91	J	mg/kg			
			OU5-CTA-1A-5109WP-SB-4	6/14/2001	1.1	J	mg/kg			
			OU5-CTA-1A-5109WP-SB-5	6/14/2001	4.5		mg/kg			
			OU5-CTA-1A-5109WP-SB-6	6/14/2001	4.5		mg/kg			
CSA	2	5109 Yuma Place							No	No
			OU5-CSA-2-5109YP-1	10/25/2001	3	J	mg/kg			
			OU5-CSA-2-5109YP-2	10/25/2001	4.1		mg/kg			
CSA	2	5109 Yuma Street							No	No
			OU5-CSA-2-5109YS-1	8/3/2001	2.4		mg/kg			
			OU5-CSA-2-5109YS-2	8/3/2001	1.6	J	mg/kg			
CTA	1A	5110 52nd Court							Yes	No
			OU5-CTA-1A-5110(52C)-1	6/21/2001	2	J	mg/kg			
			OU5-CTA-1A-5110(52C)-2	6/21/2001	1.6	J	mg/kg			
			OU5-CTA-1A-5110(52C)-3	6/21/2001	2.9		mg/kg			
			OU5-CTA-1A-5110(52C)-4	6/21/2001	1.7	J	mg/kg			
			OU5-CTA-1A-5110(52C)-SB-1	6/21/2001	3.5		mg/kg			
			OU5-CTA-1A-5110(52C)-SB-2	6/21/2001	1.6	J	mg/kg			
			OU5-CTA-1A-5110(52C)-SB-3	6/21/2001	1.8	J	mg/kg			
			OU5-CTA-1A-5110(52C)-SB-4	6/21/2001	0.77	J	mg/kg			
			OU5-CTA-1A-5110(52C)-SB-5	6/21/2001	0.38	U	mg/kg			
			OU5-CTA-1A-5110(52C)-SB-6	6/21/2001	0.41	J	mg/kg			
			OU5-CTA-1A-5110(52C)-SB-DUP15	6/21/2001	0.35	U	mg/kg	OU5-CTA-1A-5110(52C)-SB-6		
CTA	1A	5110 52nd Street							No	No
			OU5-CTA-1A-5110(52)-1	8/29/2001	2.4		mg/kg			
			OU5-CTA-1A-5110(52)-2	8/29/2001	3.5		mg/kg			
			OU5-CTA-1A-5110(52)-3	8/29/2001	2.6		mg/kg			
			OU5-CTA-1A-5110(52)-4	8/29/2001	2.9		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5110(52)-SB1	8/29/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5110(52)-SB2	8/29/2001	2.5	mg/kg			
			OU5-CTA-1A-5110(52)-SB3	8/29/2001	2 J	mg/kg			
			OU5-CTA-1A-5110(52)-SB4	8/29/2001	2.4	mg/kg			
			OU5-CTA-1A-5110(52)-SB5	8/29/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5110(52)-SB6	8/29/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5110(52)-SB7	8/29/2001	1.5 J	mg/kg			
CSA	*12*	*5110 Rockwood Parkway*						*No*	*No*
			OU5-CSA-12-5110RP-1	8/3/2001	3.3	mg/kg			
			OU5-CSA-12-5110RP-2	8/3/2001	5.3	mg/kg			
			OU5-CSA-12-5110RP-DUP40	8/3/2001	5.6	mg/kg	OU5-CSA-12-5110RP-2		
CSA	*2*	*5110 Warren Place*						*No*	*No*
			OU5-CSA-2-5110WP-1	8/3/2001	2.2 J	mg/kg			
			OU5-CSA-2-5110WP-2	8/3/2001	1.4 J	mg/kg			
CSA	*2*	*5110 Yuma Street*						*Yes*	*No*
			OU5-CSA-2-5110YS-1	7/26/2001	7.3	mg/kg			
			OU5-CSA-2-5110YS-2	7/26/2001	2.9	mg/kg			
			OU5-CSA-2-5110YS-SB-1	7/26/2001	3.4	mg/kg			
			OU5-CSA-2-5110YS-SB-2	7/26/2001	1.8 J	mg/kg			
			OU5-CSA-2-5110YS-SB-3	7/26/2001	1.5 J	mg/kg			
			OU5-CSA-2-5110YS-SB-4	7/26/2001	0.9 J	mg/kg			
			OU5-CSA-2-5110YS-SB-5	7/26/2001	1 J	mg/kg			
			OU5-CSA-2-5110YS-SB-6	7/26/2001	2.9	mg/kg			
CTA	*1A*	*5111 52nd Court*						*No*	*No*
			OU5-CTA-1A-5111(52C)-1	6/18/2001	2.9	mg/kg			
			OU5-CTA-1A-5111(52C)-2	6/18/2001	2.4	mg/kg			
			OU5-CTA-1A-5111(52C)-3	6/18/2001	2.8	mg/kg			
			OU5-CTA-1A-5111(52C)-4	6/18/2001	3.6	mg/kg			
			OU5-CTA-1A-5111(52C)-SB-1	6/18/2001	1.9	mg/kg			
			OU5-CTA-1A-5111(52C)-SB-2	6/18/2001	2	mg/kg			
			OU5-CTA-1A-5111(52C)-SB-3	6/18/2001	2.1	mg/kg			
			OU5-CTA-1A-5111(52C)-SB-4	6/18/2001	1.2	mg/kg			
			OU5-CTA-1A-5111(52C)-SB-5	6/18/2001	0.78	mg/kg			
			OU5-CTA-1A-5111(52C)-SB-6	6/18/2001	1	mg/kg			
			OU5-CTA-1A-5111(52C)-SB-DUP10	6/18/2001	0.58	mg/kg	OU5-CTA-1A-5111(52C)-SB-5		

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	2	5111 52nd Street						No	No
			OU5-CSA-2-5111(52)-1	7/20/2001	1.5 J	mg/kg			
			OU5-CSA-2-5111(52)-2	7/20/2001	3.1	mg/kg			
CSA	2	5111 Albemarle Street						No	No
			OU5-CSA-2-5111AS-1	11/5/2001	9.3	mg/kg			
			OU5-CSA-2-5111AS-2	11/5/2001	2.4	mg/kg			
CTA	1A	5111 Warren Place						No	No
			OU5-CTA-1A-5111WP-1	1/8/2002	2.7	mg/kg			
			OU5-CTA-1A-5111WP-2	1/8/2002	3	mg/kg			
			OU5-CTA-1A-5111WP-3	1/8/2002	2.4	mg/kg			
			OU5-CTA-1A-5111WP-4	1/8/2002	2.1	mg/kg			
			OU5-CTA-1A-5111WP-SB1	1/8/2002	2.4	mg/kg			
			OU5-CTA-1A-5111WP-SB2	1/8/2002	1.4	mg/kg			
			OU5-CTA-1A-5111WP-SB3	1/8/2002	1.4 J	mg/kg			
			OU5-CTA-1A-5111WP-SB4	1/8/2002	2.8	mg/kg			
			OU5-CTA-1A-5111WP-SB5	1/8/2002	1.9	mg/kg			
			OU5-CTA-1A-5111WP-SB6	1/8/2002	1.7 J	mg/kg			
CSA	2	5111 Yuma Place						No	No
			OU5-CSA-2-5111YP-1	7/6/2001	5.5	mg/kg			
			OU5-CSA-2-5111YP-2	7/6/2001	4.6	mg/kg			
CSA	2	5111 Yuma Street						No	No
			OU5-CSA-2-5111YS-1	3/22/2002	7.5	mg/kg			
			OU5-CSA-2-5111YS-2	3/22/2002	3.6 K	mg/kg			
			OU5-CSA-2-5111YS-DUP110	3/22/2002	9.5	mg/kg	OU5-CSA-2-5111YS-1		
CTA	1A	5112 52nd Court						No	No
			OU5-CTA-1A-5112(52C)-1	6/15/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5112(52C)-2	6/15/2001	2.1 J	mg/kg			
			OU5-CTA-1A-5112(52C)-3	6/15/2001	2.8	mg/kg			
			OU5-CTA-1A-5112(52C)-4	6/15/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5112(52C)-DUP06	6/15/2001	1.8 J	mg/kg	OU5-CTA-1A-5112(52C)-1		
			OU5-CTA-1A-5112(52C)-SB1	6/15/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5112(52C)-SB2	6/15/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5112(52C)-SB3	6/15/2001	3.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5112(52C)-SB4	6/15/2001	2 J	mg/kg			
			OU5-CTA-1A-5112(52C)-SB5	6/15/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5112(52C)-SB6	6/15/2001	1.4 J	mg/kg			
CTA	***1A***	***5112 52nd Street***						***No***	***No***
			OU5-CTA-1A-5112(52)-1	7/2/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5112(52)-2	7/2/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5112(52)-3	7/2/2001	1 J	mg/kg			
			OU5-CTA-1A-5112(52)-4	7/2/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5112(52)-SB-1	7/2/2001	0.88 J	mg/kg			
			OU5-CTA-1A-5112(52)-SB-2	7/2/2001	0.38 U	mg/kg			
			OU5-CTA-1A-5112(52)-SB-3	7/2/2001	0.39 U	mg/kg			
			OU5-CTA-1A-5112(52)-SB-4	7/2/2001	0.39 U	mg/kg			
			OU5-CTA-1A-5112(52)-SB-5	7/2/2001	0.39 U	mg/kg			
			OU5-CTA-1A-5112(52)-SB-6	7/2/2001	0.38 U	mg/kg			
			OU5-CTA-1A-5112(52)-SB-DUP21	7/2/2001	0.46 J	mg/kg	OU5-CTA-1A-5112(52)-SB-2		
CSA	***2***	***5112 Albemarle Street***						***No***	***No***
			OU5-CSA-2-5112AS-1	8/3/2001	2.5	mg/kg			
			OU5-CSA-2-5112AS-2	8/3/2001	3	mg/kg			
CSA	***2***	***5112 Massachusetts Avenue***						***No***	***No***
			OU5-CSA-2-5112MA-1	8/3/2001	3.5	mg/kg			
			OU5-CSA-2-5112MA-2	8/3/2001	2.9	mg/kg			
CSA	***2***	***5112 Warren Place***						***No***	***No***
			OU5-CSA-2-5112WP-1	7/20/2001	1.8 J	mg/kg			
			OU5-CSA-2-5112WP-2	7/20/2001	2.9	mg/kg			
CSA	***2***	***5112 Yuma Street***						***No***	***No***
			OU5-CSA-2-5112YS-1	9/21/2001	7.2	mg/kg			
			OU5-CSA-2-5112YS-2	9/21/2001	2 J	mg/kg			
CSA	***2***	***5113 Yuma Street***						***No***	***No***
			OU5-CSA-2-5113YS-1	2/14/2002	2.8	mg/kg			
			OU5-CSA-2-5113YS-2	2/14/2002	2.3	mg/kg			
CTA	***1A***	***5114 52nd Street***						***No***	***Yes***
			OU5-CTA-1A-5114(52)-1	7/11/2001	12.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5114(52)-2	7/11/2001	10.8		mg/kg			
			OU5-CTA-1A-5114(52)-3	7/11/2001	11.3		mg/kg			
			OU5-CTA-1A-5114(52)-4	7/11/2001	10.6		mg/kg			
			OU5-CTA-1A-5114(52)-SB-1	7/11/2001	1.7	J	mg/kg			
			OU5-CTA-1A-5114(52)-SB-2	7/11/2001	1.3	J	mg/kg			
			OU5-CTA-1A-5114(52)-SB-3	7/11/2001	3.7		mg/kg			
			OU5-CTA-1A-5114(52)-SB-4	7/11/2001	2.3		mg/kg			
			OU5-CTA-1A-5114(52)-SB-5	7/11/2001	0.8	J	mg/kg			
			OU5-CTA-1A-5114(52)-SB-6	7/11/2001	1.3	J	mg/kg			
CSA	*2*	*5114 Warren Place*							*No*	*No*
			OU5-CSA-2-5114WP-1	7/20/2001	1.9	J	mg/kg			
			OU5-CSA-2-5114WP-2	7/20/2001	2	J	mg/kg			
			OU5-CSA-2-5114WP-DUP-25	7/20/2001	2.1	J	mg/kg	OU5-CSA-2-5114WP-2		
CSA	*2*	*5114 Yuma Street*							*No*	*No*
			OU5-CSA-2-5114YS-1	10/25/2001	10.6		mg/kg			
			OU5-CSA-2-5114YS-2	10/25/2001	5.2		mg/kg			
CSA	*2*	*5115 52nd Street*							*No*	*No*
			OU5-CSA-2-5115(52)-1	11/16/2001	2.3		mg/kg			
			OU5-CSA-2-5115(52)-2	11/16/2001	2.6		mg/kg			
CTA	*1B*	*5115 Rockwood Parkway*							*No*	*No*
			OU5-CTA-1B-5115RP-1	4/24/2002	3.6		mg/kg			
			OU5-CTA-1B-5115RP-2	4/24/2002	3.2		mg/kg			
			OU5-CTA-1B-5115RP-3	4/24/2002	3.8		mg/kg			
			OU5-CTA-1B-5115RP-4	4/24/2002	3.2		mg/kg			
			OU5-CTA-1B-5115RP-DUP113	4/24/2002	5		mg/kg	OU5-CTA-1B-5115RP-3		
			OU5-CTA-1B-5115RP-SB1	4/24/2002	2.6		mg/kg			
			OU5-CTA-1B-5115RP-SB2	4/24/2002	1.3	J	mg/kg			
			OU5-CTA-1B-5115RP-SB3	4/24/2002	2.1		mg/kg			
			OU5-CTA-1B-5115RP-SB4	4/24/2002	1.8		mg/kg			
			OU5-CTA-1B-5115RP-SB5	4/24/2002	1.3	J	mg/kg			
			OU5-CTA-1B-5115RP-SB6	4/24/2002	1.8	J	mg/kg			
CTA	*1A*	*5115 Van Ness Street*							*No*	*No*
			OU5-CTA-1A-5115VNS-1	6/19/2001	2.5		mg/kg			
			OU5-CTA-1A-5115VNS-2	6/19/2001	2.9		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5115VNS-3	6/19/2001	3.6	mg/kg			
			OU5-CTA-1A-5115VNS-4	6/19/2001	2.8	mg/kg			
			OU5-CTA-1A-5115VNS-DUP08	6/19/2001	2.7	mg/kg	OU5-CTA-1A-5115VNS-2		
			OU5-CTA-1A-5115VNS-SB-DUP12	6/19/2001	0.92 J	mg/kg	OU5-CTA-1A-5115VNS-SB5		
			OU5-CTA-1A-5115VNS-SB1	6/19/2001	3	mg/kg			
			OU5-CTA-1A-5115VNS-SB2	6/19/2001	2.8	mg/kg			
			OU5-CTA-1A-5115VNS-SB3	6/19/2001	1.5 J	mg/kg			
			OU5-CTA-1A-5115VNS-SB4	6/19/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5115VNS-SB5	6/19/2001	0.99 J	mg/kg			
			OU5-CTA-1A-5115VNS-SB6	6/19/2001	1.3 J	mg/kg			
CSA	*2*	*5115 Warren Place*						*No*	*No*
			OU5-CSA-2-5115WP-1	8/3/2001	2.1 J	mg/kg			
			OU5-CSA-2-5115WP-2	8/3/2001	1.6 J	mg/kg			
CSA	*2*	*5115 Yuma Street*						*Yes*	*No*
			OU5-CSA-2-5115YS-1	10/8/2001	3	mg/kg			
			OU5-CSA-2-5115YS-2	10/8/2001	1.6 J	mg/kg			
			OU5-CSA-2-5115YS-SB-DUP81	10/8/2001	1.7 J	mg/kg	OU5-CSA-2-5115YS-SB1		
			OU5-CSA-2-5115YS-SB1	10/8/2001	3.1	mg/kg			
			OU5-CSA-2-5115YS-SB2	10/8/2001	2.4	mg/kg			
			OU5-CSA-2-5115YS-SB3	10/8/2001	1.2 J	mg/kg			
			OU5-CSA-2-5115YS-SB4	10/8/2001	1.5 J	mg/kg			
			OU5-CSA-2-5115YS-SB5	10/8/2001	3.8	mg/kg			
			OU5-CSA-2-5115YS-SB6	10/8/2001	1.9 J	mg/kg			
CTA	*1A*	*5116 52nd Street*						*No*	*No*
			OU5-CTA-1A-5116(52)-1	6/27/2001	2.5	mg/kg			
			OU5-CTA-1A-5116(52)-2	6/27/2001	3.5	mg/kg			
			OU5-CTA-1A-5116(52)-3	6/27/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5116(52)-4	6/27/2001	2.9	mg/kg			
			OU5-CTA-1A-5116(52)-SB-1	6/27/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5116(52)-SB-2	6/27/2001	1.3 J	mg/kg			
			OU5-CTA-1A-5116(52)-SB-3	6/27/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5116(52)-SB-4	6/27/2001	2.5	mg/kg			
			OU5-CTA-1A-5116(52)-SB-5	6/27/2001	0.84 J	mg/kg			
			OU5-CTA-1A-5116(52)-SB-6	6/27/2001	1.5 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1B	5116 Rockwood Parkway						No	No
			OU5-CTA-1B-5116RP-1	6/26/2001	2.2 J	mg/kg			
			OU5-CTA-1B-5116RP-2	6/26/2001	3.3	mg/kg			
			OU5-CTA-1B-5116RP-3	6/26/2001	3.7	mg/kg			
			OU5-CTA-1B-5116RP-4	6/26/2001	3.8	mg/kg			
			OU5-CTA-1B-5116RP-SB-1	6/26/2001	1.3 J	mg/kg			
			OU5-CTA-1B-5116RP-SB-2	6/26/2001	3.5	mg/kg			
			OU5-CTA-1B-5116RP-SB-3	6/26/2001	1.7 J	mg/kg			
			OU5-CTA-1B-5116RP-SB-4	6/26/2001	4.9	mg/kg			
			OU5-CTA-1B-5116RP-SB-5	6/26/2001	3.7	mg/kg			
			OU5-CTA-1B-5116RP-SB-6	6/26/2001	0.95 J	mg/kg			
CSA	2	5116 Warren Place						No	No
			OU5-CSA-2-5116WP-1	8/10/2001	1.4 J	mg/kg			
			OU5-CSA-2-5116WP-2	8/10/2001	3	mg/kg			
			OU5-CSA-2-5116WP-DUP42	8/10/2001	2.8	mg/kg	OU5-CSA-2-5116WP-2		
CSA	2	5116 Yuma Street						Yes	No
			OU5-CSA-2-5116YS-1	3/26/2002	3.4	mg/kg			
			OU5-CSA-2-5116YS-2	3/26/2002	2.8	mg/kg			
			OU5-CSA-2-5116YS-SB-DUP105	3/26/2002	3.9	mg/kg	OU5-CSA-2-5116YS-SB6		
			OU5-CSA-2-5116YS-SB1	3/26/2002	3	mg/kg			
			OU5-CSA-2-5116YS-SB2	3/26/2002	2.2	mg/kg			
			OU5-CSA-2-5116YS-SB3	3/26/2002	2.4	mg/kg			
			OU5-CSA-2-5116YS-SB4	3/26/2002	2.5	mg/kg			
			OU5-CSA-2-5116YS-SB5	3/26/2002	2	mg/kg			
			OU5-CSA-2-5116YS-SB6	3/26/2002	2.8	mg/kg			
CSA	2	5117 52nd Street						No	No
			OU5-CSA-2-5117(52)-1	7/20/2001	2.2	mg/kg			
			OU5-CSA-2-5117(52)-2	7/20/2001	2.4	mg/kg			
CSA	2	5117 Albemarle Street						Yes	No
			OU5-CSA-2-5117AS-1	8/3/2001	4	mg/kg			
			OU5-CSA-2-5117AS-2	8/3/2001	3.6	mg/kg			
			OU5-CSA-2-5117AS-SB1	11/5/2001	3.1	mg/kg			
			OU5-CSA-2-5117AS-SB2	11/5/2001	4.2	mg/kg			
			OU5-CSA-2-5117AS-SB3	11/5/2001	3.2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-2-5117AS-SB4	11/5/2001	2.7	mg/kg			
			OU5-CSA-2-5117AS-SB5	11/5/2001	0.6 J	mg/kg			
CTA	***1C***	***5117 Upton Street***						***No***	***No***
			OU5-CTA-1C-5117US-1	7/3/2001	4.1	mg/kg			
			OU5-CTA-1C-5117US-2	7/3/2001	5.1	mg/kg			
			OU5-CTA-1C-5117US-3	7/3/2001	4	mg/kg			
			OU5-CTA-1C-5117US-4	7/3/2001	4.5	mg/kg			
			OU5-CTA-1C-5117US-SB1	7/3/2001	3.6	mg/kg			
			OU5-CTA-1C-5117US-SB2	7/3/2001	2.4	mg/kg			
			OU5-CTA-1C-5117US-SB3	7/3/2001	2.3	mg/kg			
			OU5-CTA-1C-5117US-SB4	7/3/2001	3.5	mg/kg			
			OU5-CTA-1C-5117US-SB5	7/3/2001	2.8	mg/kg			
			OU5-CTA-1C-5117US-SB6	7/3/2001	2.6	mg/kg			
CSA	***2***	***5117 Warren Place***						***No***	***No***
			OU5-CSA-2-5117WP-1	11/15/2001	2.3	mg/kg			
			OU5-CSA-2-5117WP-2	11/15/2001	1.9 J	mg/kg			
CSA	***2***	***5117 Yuma Street***						***No***	***No***
			OU5-CSA-2-5117YS-1	6/11/2002	2.8	mg/kg			
			OU5-CSA-2-5117YS-2	6/11/2002	3.6	mg/kg			
CTA	***1A***	***5118 52nd Street***						***No***	***No***
			OU5-CTA-1A-5118(52)-1	11/6/2001	2.3	mg/kg			
			OU5-CTA-1A-5118(52)-2	11/6/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5118(52)-3	11/6/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5118(52)-4	11/6/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5118(52)-DUP83	11/6/2001	1.7 J	mg/kg	OU5-CTA-1A-5118(52)-2		
			OU5-CTA-1A-5118(52)-SB1	11/6/2001	0.84 J	mg/kg			
			OU5-CTA-1A-5118(52)-SB2	11/6/2001	0.75 J	mg/kg			
			OU5-CTA-1A-5118(52)-SB3	11/6/2001	0.69 J	mg/kg			
			OU5-CTA-1A-5118(52)-SB4	11/6/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5118(52)-SB5	11/6/2001	1 J	mg/kg			
			OU5-CTA-1A-5118(52)-SB6	11/6/2001	1.2 J	mg/kg			
CSA	***2***	***5118 Albemarle Street***						***No***	***No***
			OU5-CSA-2-5118AS-1	4/25/2002	5.5	mg/kg			
			OU5-CSA-2-5118AS-2	4/25/2002	4.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	2	5118 Warren Place						No	No
			OU5-CSA-2-5118WP-1	7/20/2001	1.7 J	mg/kg			
			OU5-CSA-2-5118WP-2	7/20/2001	1.7 J	mg/kg			
CSA	2	5118 Yuma Street						Yes	No
			OU5-CSA-2-5118YS-1	7/6/2001	3.6	mg/kg			
			OU5-CSA-2-5118YS-2	7/6/2001	2.9	mg/kg			
			OU5-CSA-2-5118YS-SB1	10/8/2001	2.2	mg/kg			
			OU5-CSA-2-5118YS-SB10	10/8/2001	1.6 J	mg/kg			
			OU5-CSA-2-5118YS-SB2	10/8/2001	2 J	mg/kg			
			OU5-CSA-2-5118YS-SB3	10/8/2001	1.9 J	mg/kg			
			OU5-CSA-2-5118YS-SB4	10/8/2001	2 J	mg/kg			
			OU5-CSA-2-5118YS-SB5	10/8/2001	5.9	mg/kg			
			OU5-CSA-2-5118YS-SB6	10/8/2001	2.3	mg/kg			
			OU5-CSA-2-5118YS-SB7	10/8/2001	1.2 J	mg/kg			
			OU5-CSA-2-5118YS-SB8	10/8/2001	3	mg/kg			
			OU5-CSA-2-5118YS-SB9	10/8/2001	2.5	mg/kg			
CSA	2	5119 52nd Street						No	No
			OU5-CSA-2-5119(52)-1	9/19/2001	2.8 J	mg/kg			
			OU5-CSA-2-5119(52)-2	9/19/2001	2.3 J	mg/kg			
CSA	2	5119 Warren Place						No	No
			OU5-CSA-2-5119WP-1	10/25/2001	1.9 J	mg/kg			
			OU5-CSA-2-5119WP-2	10/25/2001	1.1 J	mg/kg			
			OU5-CSA-2-5119WP-DUP79	10/25/2001	1.8 J	mg/kg	OU5-CSA-2-5119WP-2		
CSA	2	5119 Yuma Street						No	No
			OU5-CSA-2-5119YS-1	8/17/2001	3.6	mg/kg			
			OU5-CSA-2-5119YS-2	8/17/2001	4.8	mg/kg			
CTA	1A	5120 52nd Street						No	No
			OU5-CTA-1A-5120(52)-1	6/27/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5120(52)-2	6/27/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5120(52)-3	6/27/2001	2 J	mg/kg			
			OU5-CTA-1A-5120(52)-4	6/27/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5120(52)-SB-1	6/27/2001	0.87 J	mg/kg			
			OU5-CTA-1A-5120(52)-SB-2	6/27/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5120(52)-SB-3	6/27/2001	0.87 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5120(52)-SB-4	6/27/2001	0.81 J	mg/kg			
			OU5-CTA-1A-5120(52)-SB-5	6/27/2001	0.4 U	mg/kg			
			OU5-CTA-1A-5120(52)-SB-6	6/27/2001	2.4	mg/kg			
			OU5-CTA-1A-5120(52)-SBDUP20	6/27/2001	0.5 J	mg/kg	OU5-CTA-1A-5120(52)-SB-4		
CTA	*1B*	*5120 Rockwood Parkway*						*No*	*Yes*
			OU5-CTA-1B-5120RP-1	12/4/2001	8.4	mg/kg			
			OU5-CTA-1B-5120RP-2	12/4/2001	4.2	mg/kg			
			OU5-CTA-1B-5120RP-3	12/4/2001	6.5	mg/kg			
			OU5-CTA-1B-5120RP-4	12/4/2001	18.9	mg/kg			
			OU5-CTA-1B-5120RP-SB-DUP95	12/4/2001	0.42 U	mg/kg	OU5-CTA-1B-5120RP-SB3		
			OU5-CTA-1B-5120RP-SB1	12/4/2001	3	mg/kg			
			OU5-CTA-1B-5120RP-SB2	12/4/2001	0.44 U	mg/kg			
			OU5-CTA-1B-5120RP-SB3	12/4/2001	0.8 J	mg/kg			
			OU5-CTA-1B-5120RP-SB4	12/4/2001	0.74 J	mg/kg			
			OU5-CTA-1B-5120RP-SB5	12/4/2001	2.1 J	mg/kg			
			OU5-CTA-1B-5120RP-SB6	12/4/2001	2.5	mg/kg			
CTA	*1C*	*5120 Van Ness Street*						*No*	*No*
			OU5-CTA-1C-5120VNS-1	6/15/2001	3.2	mg/kg			
			OU5-CTA-1C-5120VNS-2	6/15/2001	2.9	mg/kg			
			OU5-CTA-1C-5120VNS-3	6/15/2001	3.2	mg/kg			
			OU5-CTA-1C-5120VNS-4	6/15/2001	10.7	mg/kg			
			OU5-CTA-1C-5120VNS-SB-1	6/15/2001	2.3	mg/kg			
			OU5-CTA-1C-5120VNS-SB-10	6/15/2001	0.44 U	mg/kg			
			OU5-CTA-1C-5120VNS-SB-2	6/15/2001	2.3	mg/kg			
			OU5-CTA-1C-5120VNS-SB-3	6/15/2001	3.6	mg/kg			
			OU5-CTA-1C-5120VNS-SB-4	6/15/2001	4	mg/kg			
			OU5-CTA-1C-5120VNS-SB-5	6/15/2001	1.7 J	mg/kg			
			OU5-CTA-1C-5120VNS-SB-6	6/15/2001	1.3 J	mg/kg			
			OU5-CTA-1C-5120VNS-SB-7	6/15/2001	2.1 J	mg/kg			
			OU5-CTA-1C-5120VNS-SB-8	6/15/2001	2.4 J	mg/kg			
			OU5-CTA-1C-5120VNS-SB-9	6/15/2001	0.43 U	mg/kg			
CSA	*2*	*5120 Warren Place*						*No*	*No*
			OU5-CSA-2-5120WP-1	7/20/2001	1.6 J	mg/kg			
			OU5-CSA-2-5120WP-2	7/20/2001	2 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	*2*	*5120 Yuma Street*						*No*	*No*
			OU5-CSA-2-5120YS-1	11/15/2001	7.7	mg/kg			
			OU5-CSA-2-5120YS-2	11/15/2001	4.8	mg/kg			
CTA	*1B*	*5121 Tilden Street*						*No*	*No*
			OU5-CTA-1B-5121TS-1	7/2/2002	4	mg/kg			
			OU5-CTA-1B-5121TS-2	7/2/2002	5.2	mg/kg			
			OU5-CTA-1B-5121TS-3	7/2/2002	3.9	mg/kg			
			OU5-CTA-1B-5121TS-4	7/2/2002	3.9	mg/kg			
			OU5-CTA-1B-5121TS-SB1	7/2/2002	2.8	mg/kg			
			OU5-CTA-1B-5121TS-SB2	7/2/2002	2.4	mg/kg			
			OU5-CTA-1B-5121TS-SB3	7/2/2002	3	mg/kg			
			OU5-CTA-1B-5121TS-SB4	7/2/2002	3.3	mg/kg			
			OU5-CTA-1B-5121TS-SB5	7/2/2002	2.8	mg/kg			
			OU5-CTA-1B-5121TS-SB6	7/2/2002	1.5	mg/kg			
CSA	*2*	*5121 Warren Place*						*No*	*No*
			OU5-CSA-2-5121WP-1	8/31/2001	2.7	mg/kg			
			OU5-CSA-2-5121WP-2	8/31/2001	2.4	mg/kg			
CSA	*2*	*5121 Yuma Street*						*Yes*	*No*
			OU5-CSA-2-5121YS-1	10/2/2001	5.4	mg/kg			
			OU5-CSA-2-5121YS-2	10/2/2001	2.6 J	mg/kg			
			OU5-CSA-2-5121YS-SB1	10/2/2001	1.2 J	mg/kg			
			OU5-CSA-2-5121YS-SB2	10/2/2001	1.5 J	mg/kg			
			OU5-CSA-2-5121YS-SB3	10/2/2001	3.6	mg/kg			
			OU5-CSA-2-5121YS-SB4	10/2/2001	1.1 J	mg/kg			
			OU5-CSA-2-5121YS-SB5	10/2/2001	0.94 J	mg/kg			
			OU5-CSA-2-5121YS-SB6	10/2/2001	0.56 J	mg/kg			
CTA	*1A*	*5122 52nd Street*						*No*	*No*
			OU5-CTA-1A-5122(52)-1	8/29/2002	2.7	mg/kg			
			OU5-CTA-1A-5122(52)-2	8/29/2002	2.5	mg/kg			
			OU5-CTA-1A-5122(52)-3	8/29/2002	2.9	mg/kg			
			OU5-CTA-1A-5122(52)-4	8/29/2002	3.2	mg/kg			
			OU5-CTA-1A-5122(52)-DUP117	8/29/2002	2.7	mg/kg	OU5-CTA-1A-5122(52)-2		
			OU5-CTA-1A-5122(52)-SB-DUP113	8/29/2002	0.97 J	mg/kg	OU5-CTA-1A-5122(52)-SB3		

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1A-5122(52)-SB1	8/29/2002	2		mg/kg			
			OU5-CTA-1A-5122(52)-SB2	8/29/2002	1.6		mg/kg			
			OU5-CTA-1A-5122(52)-SB3	8/29/2002	0.92	J	mg/kg			
			OU5-CTA-1A-5122(52)-SB4	8/29/2002	0.93	J	mg/kg			
			OU5-CTA-1A-5122(52)-SB5	8/29/2002	1.8		mg/kg			
			OU5-CTA-1A-5122(52)-SB6	8/29/2002	0.9	J	mg/kg			
CSA	*2*	*5122 Warren Place*							*No*	*No*
			OU5-CSA-2-5122WP-1	10/25/2001	1.3	J	mg/kg			
			OU5-CSA-2-5122WP-2	10/25/2001	1.3	J	mg/kg			
CSA	*2*	*5122 Yuma Street*							*Yes*	*No*
			OU5-CSA-2-5122YS-1	8/29/2002	4.9	\2	mg/kg			
			OU5-CSA-2-5122YS-2	8/29/2002	6.2	\2	mg/kg			
			OU5-CSA-2-5122YS-SB1	8/29/2002	2.4	\2	mg/kg			
			OU5-CSA-2-5122YS-SB2	8/29/2002	2.7	\2	mg/kg			
			OU5-CSA-2-5122YS-SB3	8/29/2002	1.3	\2	mg/kg			
			OU5-CSA-2-5122YS-SB4	8/29/2002	1.7	\2	mg/kg			
CSA	*2*	*5123 52nd Street*							*No*	*No*
			OU5-CSA-2-5123(52)-1	7/20/2001	2.6		mg/kg			
			OU5-CSA-2-5123(52)-2	7/20/2001	2.1	J	mg/kg			
CTA	*1B*	*5123 Tilden Street*							*No*	*No*
			OU5-CTA-1B-5123TS-1	9/4/2001	5.7		mg/kg			
			OU5-CTA-1B-5123TS-2	9/4/2001	7.1		mg/kg			
			OU5-CTA-1B-5123TS-3	9/4/2001	4		mg/kg			
			OU5-CTA-1B-5123TS-4	9/4/2001	5.4		mg/kg			
			OU5-CTA-1B-5123TS-SB1	9/4/2001	3		mg/kg			
			OU5-CTA-1B-5123TS-SB2	9/4/2001	2	J	mg/kg			
			OU5-CTA-1B-5123TS-SB3	9/4/2001	7.9		mg/kg			
			OU5-CTA-1B-5123TS-SB4	9/4/2001	1.6	J	mg/kg			
			OU5-CTA-1B-5123TS-SB5	9/4/2001	1.8	J	mg/kg			
			OU5-CTA-1B-5123TS-SB6	9/4/2001	1.5	J	mg/kg			
CSA	*2*	*5123 Warren Place*							*Yes*	*Yes*
			OU5-CSA-2-5123WP-1	10/22/2001	4.7		mg/kg			
			OU5-CSA-2-5123WP-2	10/22/2001	14.7	J	mg/kg			
			OU5-CSA-2-5123WP-SB1	10/22/2001	1.4	J	mg/kg			
			OU5-CSA-2-5123WP-SB2	10/22/2001	1.6	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-2-5123WP-SB3	10/22/2001	1.1 J	mg/kg			
CTA	1A	5124 52nd Street						No	No
			OU5-CTA-1A-5124(52)-1	9/17/2001	2.2	mg/kg			
			OU5-CTA-1A-5124(52)-2	9/17/2001	1.7 J	mg/kg			
			OU5-CTA-1A-5124(52)-3	9/17/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5124(52)-4	9/17/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5124(52)-DUP60	9/17/2001	1.2 J	mg/kg	OU5-CTA-1A-5124(52)-3		
			OU5-CTA-1A-5124(52)-SB1	9/17/2001	0.88 J	mg/kg			
			OU5-CTA-1A-5124(52)-SB2	9/17/2001	2.4	mg/kg			
			OU5-CTA-1A-5124(52)-SB3	9/17/2001	1.2 J	mg/kg			
			OU5-CTA-1A-5124(52)-SB4	9/17/2001	0.37 U	mg/kg			
			OU5-CTA-1A-5124(52)-SB5	9/17/2001	0.36 U	mg/kg			
			OU5-CTA-1A-5124(52)-SB6	9/17/2001	0.58 J	mg/kg			
CTA	1B	5124 Rockwood Parkway						No	No
			OU5-CTA-1B-5124RP-1	6/26/2001	3.6	mg/kg			
			OU5-CTA-1B-5124RP-2	6/26/2001	3.5	mg/kg			
			OU5-CTA-1B-5124RP-3	6/26/2001	4.9	mg/kg			
			OU5-CTA-1B-5124RP-4	6/26/2001	4	mg/kg			
			OU5-CTA-1B-5124RP-SB1	6/26/2001	5.2	mg/kg			
			OU5-CTA-1B-5124RP-SB2	6/26/2001	1.9 J	mg/kg			
			OU5-CTA-1B-5124RP-SB3	6/26/2001	2.3	mg/kg			
			OU5-CTA-1B-5124RP-SB4	6/26/2001	2.7	mg/kg			
			OU5-CTA-1B-5124RP-SB5	6/26/2001	2.4	mg/kg			
			OU5-CTA-1B-5124RP-SB6	6/26/2001	2.5	mg/kg			
			OU5-CTA-1B-5124RP-SB7	6/26/2001	2.2 J	mg/kg			
			OU5-CTA-1B-5124RP-SB8	6/26/2001	4.6	mg/kg			
CSA	2	5124 Warren Place						No	No
			OU5-CSA-2-5124WP-1	11/16/2001	2.5	mg/kg			
			OU5-CSA-2-5124WP-2	11/16/2001	1.4 J	mg/kg			
CSA	2	5125 52nd Street						No	No
			OU5-CSA-2-5125(52)-1	3/22/2002	2.3 K	mg/kg			
			OU5-CSA-2-5125(52)-2	3/22/2002	2.7 K	mg/kg			
CTA	1C	5125 Upton Street						No	Yes
			OU5-CTA-1C-5125US-1	7/3/2001	40.4	mg/kg			
			OU5-CTA-1C-5125US-2	7/3/2001	4.7	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5125US-3	7/3/2001	5.8	mg/kg			
			OU5-CTA-1C-5125US-4	7/3/2001	5	mg/kg			
			OU5-CTA-1C-5125US-SB1	7/3/2001	3.5	mg/kg			
			OU5-CTA-1C-5125US-SB2	7/3/2001	1.4 J	mg/kg			
			OU5-CTA-1C-5125US-SB3	7/3/2001	1.7 J	mg/kg			
			OU5-CTA-1C-5125US-SB4	7/3/2001	3.4	mg/kg			
			OU5-CTA-1C-5125US-SB5	7/3/2001	2.1 J	mg/kg			
			OU5-CTA-1C-5125US-SB6	7/3/2001	0.72 J	mg/kg			
			OU5-CTA-1C-5125US-SBDUP-22	7/3/2001	1.3 J	mg/kg	OU5-CTA-1C-5125US-SB3		
CSA	*2*	*5125 Warren Place*						*No*	*No*
			OU5-CSA-2-5125WP-1	10/25/2001	1.7 J	mg/kg			
			OU5-CSA-2-5125WP-2	10/25/2001	1.7 J	mg/kg			
CSA	*2*	*5125 Yuma Street*						*No*	*No*
			OU5-CSA-2-5125YS-1	10/25/2001	6.9	mg/kg			
			OU5-CSA-2-5125YS-2	10/25/2001	2.1 J	mg/kg			
CSA	*2*	*5126 Albemarle Street*						*No*	*No*
			OU5-CSA-2-5126AS-1	4/25/2002	3.3	mg/kg			
			OU5-CSA-2-5126AS-2	4/25/2002	3.8	mg/kg			
CTA	*1C*	*5126 Tilden Street*						*No*	*No*
			OU5-CTA-1C-5126TS-1	3/27/2002	3.5	mg/kg			
			OU5-CTA-1C-5126TS-2	3/27/2002	3.7	mg/kg			
			OU5-CTA-1C-5126TS-3	3/27/2002	4.1	mg/kg			
			OU5-CTA-1C-5126TS-4	3/27/2002	3.2	mg/kg			
			OU5-CTA-1C-5126TS-SB1	3/27/2002	0.76 J	mg/kg			
			OU5-CTA-1C-5126TS-SB2	3/27/2002	2.8	mg/kg			
			OU5-CTA-1C-5126TS-SB3	3/27/2002	0.96 J	mg/kg			
			OU5-CTA-1C-5126TS-SB4	3/27/2002	0.67 J	mg/kg			
			OU5-CTA-1C-5126TS-SB5	3/27/2002	0.9 J	mg/kg			
			OU5-CTA-1C-5126TS-SB6	3/27/2002	1.9	mg/kg			
CSA	*2*	*5126 Warren Place*						*No*	*No*
			OU5-CSA-2-5126WP-1	2/14/2002	1.8	mg/kg			
			OU5-CSA-2-5126WP-2	2/14/2002	1.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	2	5127 52nd Street							No	No
			OU5-CSA-2-5127(52)-1	9/19/2001	2.9	J	mg/kg			
			OU5-CSA-2-5127(52)-2	9/19/2001	2.9	J	mg/kg			
CTA	1B	5127 Tilden Street							No	No
			OU5-CTA-1B-5127TS-1	4/24/2002	3.9		mg/kg			
			OU5-CTA-1B-5127TS-2	4/24/2002	3		mg/kg			
			OU5-CTA-1B-5127TS-3	4/24/2002	4.7		mg/kg			
			OU5-CTA-1B-5127TS-4	4/24/2002	4.2		mg/kg			
			OU5-CTA-1B-5127TS-SB1	4/24/2002	2.3		mg/kg			
			OU5-CTA-1B-5127TS-SB2	4/24/2002	0.63	J	mg/kg			
			OU5-CTA-1B-5127TS-SB3	4/24/2002	1.4		mg/kg			
			OU5-CTA-1B-5127TS-SB4	4/24/2002	1.2	J	mg/kg			
			OU5-CTA-1B-5127TS-SB5	4/24/2002	1.5		mg/kg			
			OU5-CTA-1B-5127TS-SB6	4/24/2002	5.2		mg/kg			
CSA	2	5127 Warren Place							No	No
			OU5-CSA-2-5127WP-1	3/22/2002	1.9	K	mg/kg			
			OU5-CSA-2-5127WP-2	3/22/2002	1.9	K	mg/kg			
CSA	2	5127 Yuma Street							No	No
			OU5-CSA-2-5127YS-1	9/21/2001	4.6		mg/kg			
			OU5-CSA-2-5127YS-2	9/21/2001	8.6		mg/kg			
CTA	1B	5129 52nd Street							No	No
			OU5-CTA-1B-5129(52)-1	6/15/2001	1.9	J	mg/kg			
			OU5-CTA-1B-5129(52)-2	6/15/2001	2.1	J	mg/kg			
			OU5-CTA-1B-5129(52)-3	6/15/2001	2.7		mg/kg			
			OU5-CTA-1B-5129(52)-4	6/15/2001	3.4		mg/kg			
			OU5-CTA-1B-5129(52)-DUP07	6/15/2001	4		mg/kg	OU5-CTA-1B-5129(52)-2		
			OU5-CTA-1B-5129(52)-SB-1	6/15/2001	1.4	J	mg/kg			
			OU5-CTA-1B-5129(52)-SB-10	6/15/2001	1.4	J	mg/kg			
			OU5-CTA-1B-5129(52)-SB-2	6/15/2001	1.5	J	mg/kg			
			OU5-CTA-1B-5129(52)-SB-3	6/15/2001	1.1	J	mg/kg			
			OU5-CTA-1B-5129(52)-SB-4	6/15/2001	0.64	J	mg/kg			
			OU5-CTA-1B-5129(52)-SB-5	6/15/2001	1.2	J	mg/kg			
			OU5-CTA-1B-5129(52)-SB-6	6/15/2001	2.3	J	mg/kg			
			OU5-CTA-1B-5129(52)-SB-7	6/15/2001	1.2	J	mg/kg			
			OU5-CTA-1B-5129(52)-SB-8	6/15/2001	0.54	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-5129(52)-SB-9	6/15/2001	2.6	mg/kg			
			OU5-CTA-1B-5129(52)-SB-DUP08	6/15/2001	2.2 J	mg/kg	OU5-CTA-1B-5129(52)-SB-9		
CSA	*2*	*5129 Warren Place*						*No*	*No*
			OU5-CSA-2-5129WP-1	8/10/2001	2.5	mg/kg			
			OU5-CSA-2-5129WP-2	8/10/2001	2.5	mg/kg			
CSA	*2*	*5129 Yuma Street*						*No*	*No*
			OU5-CSA-2-5129YS-1	8/17/2001	2.3	mg/kg			
			OU5-CSA-2-5129YS-2	8/17/2001	3.3	mg/kg			
CTA	*1B*	*5131 52nd Street*						*No*	*No*
			OU5-CTA-1B-5131(52)-1	7/18/2001	2.2 J	mg/kg			
			OU5-CTA-1B-5131(52)-2	7/18/2001	2 J	mg/kg			
			OU5-CTA-1B-5131(52)-3	7/18/2001	1.8 J	mg/kg			
			OU5-CTA-1B-5131(52)-4	7/18/2001	3.7	mg/kg			
			OU5-CTA-1B-5131(52)-SB1	7/18/2001	2.5	mg/kg			
			OU5-CTA-1B-5131(52)-SB10	7/18/2001	1.2 J	mg/kg			
			OU5-CTA-1B-5131(52)-SB2	7/18/2001	2.4	mg/kg			
			OU5-CTA-1B-5131(52)-SB3	7/18/2001	0.42 U	mg/kg			
			OU5-CTA-1B-5131(52)-SB4	7/18/2001	2.1 J	mg/kg			
			OU5-CTA-1B-5131(52)-SB5	7/18/2001	3	mg/kg			
			OU5-CTA-1B-5131(52)-SB6	7/18/2001	4.6	mg/kg			
			OU5-CTA-1B-5131(52)-SB7	7/18/2001	4.1	mg/kg			
			OU5-CTA-1B-5131(52)-SB8	7/18/2001	1.6 J	mg/kg			
			OU5-CTA-1B-5131(52)-SB9	7/18/2001	1.6 J	mg/kg			
CSA	*2*	*5131 Warren Place*						*No*	*No*
			OU5-CSA-2-5131WP-1	8/3/2001	1.6 J	mg/kg			
			OU5-CSA-2-5131WP-2	8/3/2001	1.7 J	mg/kg			
CSA	*2*	*5131 Yuma Street*						*No*	*Yes + 1' arsenic boring*
			OU5-CSA-2-5131YS-1	8/31/2001	12.7	mg/kg			
			OU5-CSA-2-5131YS-2	8/31/2001	4.8	mg/kg			
CTA	*1B*	*5132 Rockwood Parkway*						*No*	*No*
			OU5-CTA-1B-5132RP-1	7/23/2001	3.5	mg/kg			
			OU5-CTA-1B-5132RP-2	7/23/2001	3.4	mg/kg			
			OU5-CTA-1B-5132RP-3	7/23/2001	2.4	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-5132RP-4	7/23/2001	2.6	mg/kg			
			OU5-CTA-1B-5132RP-SB-1	7/23/2001	2.2	mg/kg			
			OU5-CTA-1B-5132RP-SB-2	7/23/2001	1.3 J	mg/kg			
			OU5-CTA-1B-5132RP-SB-3	7/23/2001	1.3 J	mg/kg			
			OU5-CTA-1B-5132RP-SB-4	7/23/2001	0.99 J	mg/kg			
			OU5-CTA-1B-5132RP-SB-5	7/23/2001	1.6 J	mg/kg			
			OU5-CTA-1B-5132RP-SB-6	7/23/2001	3.7	mg/kg			
			OU5-CTA-1B-5132RP-SB-DUP35	7/23/2001	1.1 J	mg/kg	OU5-CTA-1B-5132RP-SB-2		
CTA	***1C***	***5132 Tilden Street***						***No***	***No***
			OU5-CTA-1C-5132TS-1	6/18/2001	3.5	mg/kg			
			OU5-CTA-1C-5132TS-2	6/18/2001	2.8	mg/kg			
			OU5-CTA-1C-5132TS-3	6/18/2001	3.3	mg/kg			
			OU5-CTA-1C-5132TS-4	6/18/2001	3.2	mg/kg			
			OU5-CTA-1C-5132TS-SB-1	6/18/2001	1.4	mg/kg			
			OU5-CTA-1C-5132TS-SB-2	6/18/2001	2	mg/kg			
			OU5-CTA-1C-5132TS-SB-3	6/18/2001	1.5	mg/kg			
			OU5-CTA-1C-5132TS-SB-4	6/18/2001	1	mg/kg			
			OU5-CTA-1C-5132TS-SB-5	6/18/2001	2.6	mg/kg			
			OU5-CTA-1C-5132TS-SB-6	6/18/2001	2	mg/kg			
			OU5-CTA-1C-5132TS-SB-7	6/18/2001	1.1	mg/kg			
CTA	***1B***	***5133 52nd Street***						***No***	***No***
			OU5-CTA-1B-5133(52)-1	9/7/2001	2.5	mg/kg			
			OU5-CTA-1B-5133(52)-2	9/7/2001	1.9 J	mg/kg			
			OU5-CTA-1B-5133(52)-3	9/7/2001	3	mg/kg			
			OU5-CTA-1B-5133(52)-4	9/7/2001	2.4 J	mg/kg			
			OU5-CTA-1B-5133(52)-DUP59	9/7/2001	2.4 J	mg/kg	OU5-CTA-1B-5133(52)-4		
			OU5-CTA-1B-5133(52)-SB1	9/7/2001	2.2 J	mg/kg			
			OU5-CTA-1B-5133(52)-SB2	9/7/2001	2.6	mg/kg			
			OU5-CTA-1B-5133(52)-SB3	9/7/2001	3.6	mg/kg			
			OU5-CTA-1B-5133(52)-SB4	9/7/2001	2.6	mg/kg			
			OU5-CTA-1B-5133(52)-SB5	9/7/2001	2.9	mg/kg			
			OU5-CTA-1B-5133(52)-SB6	9/7/2001	3	mg/kg			
			OU5-CTA-1B-5133(52)-SB7	9/7/2001	2.3	mg/kg			
			OU5-CTA-1B-5133(52)-SB8	9/7/2001	1.3 J	mg/kg			
			OU5-CTA-1B-5133(52)-SB9	9/7/2001	1.2 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	2	5133 Warren Place						Yes	No
			OU5-CSA-2-5133WP-1	10/22/2001	0.85 J	mg/kg			
			OU5-CSA-2-5133WP-2	10/22/2001	1.5 J	mg/kg			
			OU5-CSA-2-5133WP-SB-DUP85	10/22/2001	0.79 J	mg/kg	OU5-CSA-2-5133WP-SB6		
			OU5-CSA-2-5133WP-SB1	10/22/2001	5.6	mg/kg			
			OU5-CSA-2-5133WP-SB2	10/22/2001	0.72 J	mg/kg			
			OU5-CSA-2-5133WP-SB3	10/22/2001	1.1 J	mg/kg			
			OU5-CSA-2-5133WP-SB4	10/22/2001	1.1 J	mg/kg			
			OU5-CSA-2-5133WP-SB5	10/22/2001	1.3 J	mg/kg			
			OU5-CSA-2-5133WP-SB6	10/22/2001	0.82 J	mg/kg			
CSA	2	5133 Yuma Street						Yes	No
			OU5-CSA-2-5133YS-1	7/24/2001	6.4	mg/kg			
			OU5-CSA-2-5133YS-2	7/24/2001	4.3	mg/kg			
			OU5-CSA-2-5133YS-SB-1	7/24/2001	2.5	mg/kg			
			OU5-CSA-2-5133YS-SB-2	7/24/2001	2.5	mg/kg			
			OU5-CSA-2-5133YS-SB-3	7/24/2001	2 J	mg/kg			
			OU5-CSA-2-5133YS-SB-4	7/24/2001	0.48 J	mg/kg			
			OU5-CSA-2-5133YS-SB-DUP38	7/24/2001	2.4	mg/kg	OU5-CSA-2-5133YS-SB-3		
CTA	1B	5135 52nd Street						No	No
			OU5-CTA-1B-5135(52)-1	9/17/2001	1.8 J	mg/kg			
			OU5-CTA-1B-5135(52)-2	9/17/2001	2 J	mg/kg			
			OU5-CTA-1B-5135(52)-3	9/17/2001	2.1 J	mg/kg			
			OU5-CTA-1B-5135(52)-4	9/17/2001	2.7	mg/kg			
			OU5-CTA-1B-5135(52)-SB1	9/17/2001	0.98 J	mg/kg			
			OU5-CTA-1B-5135(52)-SB2	9/17/2001	0.39 U	mg/kg			
			OU5-CTA-1B-5135(52)-SB3	9/17/2001	3.1	mg/kg			
CTA	1B	5135 Rockwood Parkway						No	No
			OU5-CTA-1B-5135RP-1	9/4/2001	1.7 J	mg/kg			
			OU5-CTA-1B-5135RP-2	9/4/2001	3.1	mg/kg			
			OU5-CTA-1B-5135RP-3	9/4/2001	2.6	mg/kg			
			OU5-CTA-1B-5135RP-4	9/4/2001	3.1	mg/kg			
			OU5-CTA-1B-5135RP-SB1	9/4/2001	3.2	mg/kg			
			OU5-CTA-1B-5135RP-SB10	9/4/2001	2 J	mg/kg			
			OU5-CTA-1B-5135RP-SB2	9/4/2001	1.6 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-5135RP-SB3	9/4/2001	1.8 J	mg/kg			
			OU5-CTA-1B-5135RP-SB4	9/4/2001	2.2 J	mg/kg			
			OU5-CTA-1B-5135RP-SB5	9/4/2001	2.2 J	mg/kg			
			OU5-CTA-1B-5135RP-SB6	9/4/2001	2.2 J	mg/kg			
			OU5-CTA-1B-5135RP-SB7	9/4/2001	2.3 J	mg/kg			
			OU5-CTA-1B-5135RP-SB8	9/4/2001	1 J	mg/kg			
			OU5-CTA-1B-5135RP-SB9	9/4/2001	0.74 J	mg/kg			
CTA	***1B***	***5135 Tilden Street***						***No***	***No***
			OU5-CTA-1B-5135TS-1	7/23/2001	5 L	mg/kg			
			OU5-CTA-1B-5135TS-2	7/23/2001	4.3 L	mg/kg			
			OU5-CTA-1B-5135TS-3	7/23/2001	4.6 L	mg/kg			
			OU5-CTA-1B-5135TS-4	7/23/2001	4.4 L	mg/kg			
			OU5-CTA-1B-5135TS-SB-1	7/23/2001	3.4 L	mg/kg			
			OU5-CTA-1B-5135TS-SB-10	7/23/2001	1.2 JL	mg/kg			
			OU5-CTA-1B-5135TS-SB-2	7/23/2001	3.3 L	mg/kg			
			OU5-CTA-1B-5135TS-SB-3	7/23/2001	4.7 L	mg/kg			
			OU5-CTA-1B-5135TS-SB-4	7/23/2001	4.4 L	mg/kg			
			OU5-CTA-1B-5135TS-SB-5	7/23/2001	3.5 L	mg/kg			
			OU5-CTA-1B-5135TS-SB-6	7/23/2001	2.8 L	mg/kg			
			OU5-CTA-1B-5135TS-SB-7	7/23/2001	1.8 JL	mg/kg			
			OU5-CTA-1B-5135TS-SB-8	7/23/2001	2.2 JL	mg/kg			
			OU5-CTA-1B-5135TS-SB-9	7/23/2001	1.9 JL	mg/kg			
CSA	***2***	***5135 Yuma Street***						***No***	***No***
			OU5-CSA-2-5135YS-1	9/21/2001	6.3	mg/kg			
			OU5-CSA-2-5135YS-2	9/21/2001	3.1	mg/kg			
CTA	***1B***	***5137 52nd Street***						***No***	***No***
			OU5-CTA-1B-5137(52)-1	6/21/2001	1.9 J	mg/kg			
			OU5-CTA-1B-5137(52)-2	6/21/2001	2.5	mg/kg			
			OU5-CTA-1B-5137(52)-3	6/21/2001	1.4 J	mg/kg			
			OU5-CTA-1B-5137(52)-4	6/21/2001	2.5	mg/kg			
			OU5-CTA-1B-5137(52)-SB-1	6/21/2001	0.35 U	mg/kg			
			OU5-CTA-1B-5137(52)-SB-2	6/21/2001	0.38 U	mg/kg			
			OU5-CTA-1B-5137(52)-SB-3	6/21/2001	0.36 U	mg/kg			
			OU5-CTA-1B-5137(52)-SB-4	6/21/2001	0.72 J	mg/kg			
			OU5-CTA-1B-5137(52)-SB-5	6/21/2001	0.38 U	mg/kg			
			OU5-CTA-1B-5137(52)-SB-6	6/21/2001	0.73 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CTA	1A	5137 Van Ness Street						No	No
			OU5-CTA-1A-5137VNS-1	7/2/2001	5.1	mg/kg			
			OU5-CTA-1A-5137VNS-2	7/2/2001	3.1	mg/kg			
			OU5-CTA-1A-5137VNS-3	7/2/2001	1.6 J	mg/kg			
			OU5-CTA-1A-5137VNS-4	7/2/2001	1.9 J	mg/kg			
			OU5-CTA-1A-5137VNS-SB-1	7/2/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5137VNS-SB-2	7/2/2001	2.9	mg/kg			
			OU5-CTA-1A-5137VNS-SB-3	7/2/2001	5.4	mg/kg			
			OU5-CTA-1A-5137VNS-SB-4	7/2/2001	2.9	mg/kg			
			OU5-CTA-1A-5137VNS-SB-5	7/2/2001	1.1 J	mg/kg			
			OU5-CTA-1A-5137VNS-SB-6	7/2/2001	0.39 U	mg/kg			
CSA	2	5137 Yuma Street						No	No
			OU5-CSA-2-5137YS-1	10/25/2001	5.5	mg/kg			
			OU5-CSA-2-5137YS-2	10/25/2001	3.7	mg/kg			
CSA	2	5139 Yuma Street						No	No
			OU5-CSA-2-5139(YS)-1	7/20/2001	9 L	mg/kg			
			OU5-CSA-2-5139(YS)-2	7/20/2001	4.2 L	mg/kg			
CTA	1B	5140 Rockwood Parkway						No	No
			OU5-CTA-1B-5140RP-1	12/4/2001	2.1 J	mg/kg			
			OU5-CTA-1B-5140RP-2	12/4/2001	1.4 J	mg/kg			
			OU5-CTA-1B-5140RP-3	12/4/2001	1.9 J	mg/kg			
			OU5-CTA-1B-5140RP-4	12/4/2001	2.1 J	mg/kg			
			OU5-CTA-1B-5140RP-SB-DUP96	12/4/2001	0.59 J	mg/kg	OU5-CTA-1B-5140RP-SB2		
			OU5-CTA-1B-5140RP-SB1	12/4/2001	1.1 J	mg/kg			
			OU5-CTA-1B-5140RP-SB2	12/4/2001	0.75 J	mg/kg			
			OU5-CTA-1B-5140RP-SB3	12/4/2001	0.85 J	mg/kg			
			OU5-CTA-1B-5140RP-SB4	12/4/2001	0.38 U	mg/kg			
			OU5-CTA-1B-5140RP-SB5	12/4/2001	0.4 U	mg/kg			
			OU5-CTA-1B-5140RP-SB6	12/4/2001	1.3 J	mg/kg			
CTA	1C	5140 Tilden Street						No	No
			OU5-CTA-1C-5140TS-1	8/21/2001	5.6	mg/kg			
			OU5-CTA-1C-5140TS-2	8/21/2001	5.3	mg/kg			
			OU5-CTA-1C-5140TS-3	8/21/2001	4.8	mg/kg			
			OU5-CTA-1C-5140TS-4	8/21/2001	5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5140TS-SB1	8/21/2001	5.7		mg/kg			
			OU5-CTA-1C-5140TS-SB2	8/21/2001	2.5		mg/kg			
			OU5-CTA-1C-5140TS-SB3	8/21/2001	3.3		mg/kg			
			OU5-CTA-1C-5140TS-SB4	8/21/2001	2.7		mg/kg			
			OU5-CTA-1C-5140TS-SB5	8/21/2001	2.4		mg/kg			
			OU5-CTA-1C-5140TS-SB6	8/21/2001	1.7	J	mg/kg			
			OU5-CTA-1C-5140TS-SB7	8/21/2001	2	J	mg/kg			
CTA	***1B***	***5141 Tilden Street***							***No***	***No***
			OU5-CTA-1B-5141TS-1	6/26/2001	6.3		mg/kg			
			OU5-CTA-1B-5141TS-2	6/26/2001	8.1		mg/kg			
			OU5-CTA-1B-5141TS-3	6/26/2001	4.5		mg/kg			
			OU5-CTA-1B-5141TS-4	6/26/2001	5.8		mg/kg			
			OU5-CTA-1B-5141TS-SB1	6/26/2001	2.8		mg/kg			
			OU5-CTA-1B-5141TS-SB2	6/26/2001	2.5		mg/kg			
			OU5-CTA-1B-5141TS-SB3	6/26/2001	1.6	J	mg/kg			
			OU5-CTA-1B-5141TS-SB4	6/26/2001	2.3		mg/kg			
			OU5-CTA-1B-5141TS-SB5	6/26/2001	1.1	J	mg/kg			
			OU5-CTA-1B-5141TS-SB6	6/26/2001	1.6	J	mg/kg			
			OU5-CTA-1B-5141TS-SBDUP18	6/26/2001	2.2		mg/kg	OU5-CTA-1B-5141TS-SB2		
CSA	***2***	***5141 Yuma Street***							***No***	***Yes + 1' arsenic boring***
			OU5-CSA-2-5141YS-1	10/25/2001	28.1		mg/kg			
			OU5-CSA-2-5141YS-2	10/25/2001	3.8		mg/kg			
CTA	***1C***	***5142 Tilden Street***							***No***	***No***
			OU5-CTA-1C-5142TS-1	6/20/2001	3.6		mg/kg			
			OU5-CTA-1C-5142TS-2	6/20/2001	2.6		mg/kg			
			OU5-CTA-1C-5142TS-3	6/20/2001	3.6		mg/kg			
			OU5-CTA-1C-5142TS-4	6/20/2001	4.8		mg/kg			
			OU5-CTA-1C-5142TS-SB-1	6/20/2001	3.3	K	mg/kg			
			OU5-CTA-1C-5142TS-SB-2	6/20/2001	2.3	K	mg/kg			
			OU5-CTA-1C-5142TS-SB-3	6/20/2001	2.8	K	mg/kg			
			OU5-CTA-1C-5142TS-SB-4	6/20/2001	1.3	K	mg/kg			
			OU5-CTA-1C-5142TS-SB-5	6/20/2001	1.7	K	mg/kg			
			OU5-CTA-1C-5142TS-SB-6	6/20/2001	1.5	K	mg/kg			
			OU5-CTA-1C-5142TS-SB-7	6/20/2001	0.61	K	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	2	5143 Yuma Street						No	No
			OU5-CSA-2-5143YS-1	7/6/2001	5.8	mg/kg			
			OU5-CSA-2-5143YS-2	7/6/2001	2.9	mg/kg			
CTA	1B	5145 Tilden Street						No	No
			OU5-CTA-1A-5145TS-1	11/6/2001	1.4 J	mg/kg			
			OU5-CTA-1A-5145TS-2	11/6/2001	2 J	mg/kg			
			OU5-CTA-1A-5145TS-3	11/6/2001	3.6	mg/kg			
			OU5-CTA-1A-5145TS-4	11/6/2001	2.5	mg/kg			
			OU5-CTA-1A-5145TS-SB-DUP90	11/6/2001	3.3	mg/kg	OU5-CTA-1A-5145TS-SB1		
			OU5-CTA-1A-5145TS-SB1	11/6/2001	2.6	mg/kg			
			OU5-CTA-1A-5145TS-SB2	11/6/2001	1.8 J	mg/kg			
			OU5-CTA-1A-5145TS-SB3	11/6/2001	0.37 U	mg/kg			
			OU5-CTA-1A-5145TS-SB4	11/6/2001	0.37 U	mg/kg			
			OU5-CTA-1A-5145TS-SB5	11/6/2001	0.38 J	mg/kg			
			OU5-CTA-1A-5145TS-SB6	11/6/2001	0.39 J	mg/kg			
CSA	2	5145 Yuma Street						No	Yes + 1' arsenic boring
			OU5-CSA-2-5145YS-1	10/25/2001	13.1	mg/kg			
			OU5-CSA-2-5145YS-2	10/25/2001	2 J	mg/kg			
CSA	2	5147 Yuma Street						No	Yes + 1' arsenic boring
			OU5-CSA-2-5147YS-1	10/25/2001	15.2	mg/kg			
			OU5-CSA-2-5147YS-2	10/25/2001	1.9 J	mg/kg			
CTA	1C	5148 Tilden Street						No	Yes
			OU5-CTA-1C-5148TS-1	8/28/2001	6	mg/kg			
			OU5-CTA-1C-5148TS-2	8/28/2001	14.2	mg/kg			
			OU5-CTA-1C-5148TS-3	8/28/2001	4.2	mg/kg			
			OU5-CTA-1C-5148TS-4	8/28/2001	5.4	mg/kg			
			OU5-CTA-1C-5148TS-SB1	8/28/2001	2 J	mg/kg			
			OU5-CTA-1C-5148TS-SB10	8/28/2001	0.62 U	mg/kg			
			OU5-CTA-1C-5148TS-SB2	8/28/2001	2.4	mg/kg			
			OU5-CTA-1C-5148TS-SB3	8/28/2001	4.4	mg/kg			
			OU5-CTA-1C-5148TS-SB4	8/28/2001	2.7	mg/kg			
			OU5-CTA-1C-5148TS-SB5	8/28/2001	2.2 J	mg/kg			
			OU5-CTA-1C-5148TS-SB6	8/28/2001	4.5	mg/kg			
			OU5-CTA-1C-5148TS-SB7	8/28/2001	3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5148TS-SB8	8/28/2001	1.6	J	mg/kg			
			OU5-CTA-1C-5148TS-SB9	8/28/2001	0.59	U	mg/kg			
CTA	***1B***	***5149 Tilden Street***							***No***	***No***
			OU5-CTA-1B-5149TS-1	8/28/2001	3.5	J	mg/kg			
			OU5-CTA-1B-5149TS-2	8/28/2001	2.7		mg/kg			
			OU5-CTA-1B-5149TS-3	8/28/2001	7.2		mg/kg			
			OU5-CTA-1B-5149TS-4	8/28/2001	3.8		mg/kg			
			OU5-CTA-1B-5149TS-SB1	8/28/2001	4.3		mg/kg			
			OU5-CTA-1B-5149TS-SB2	8/28/2001	2.9		mg/kg			
			OU5-CTA-1B-5149TS-SB3	8/28/2001	1.4	J	mg/kg			
			OU5-CTA-1B-5149TS-SB4	8/28/2001	1.5	J	mg/kg			
			OU5-CTA-1B-5149TS-SB5	8/28/2001	1.7	J	mg/kg			
			OU5-CTA-1B-5149TS-SB6	8/28/2001	2.3	J	mg/kg			
CSA	***2***	***5149 Yuma Street***							***No***	***Yes + 1' arsenic boring***
			OU5-CSA-2-5149YS-1	9/21/2001	23		mg/kg			
			OU5-CSA-2-5149YS-2	9/21/2001	2.2	J	mg/kg			
CSA	***12***	***5150 Rockwood Parkway***							***No***	***No***
			OU5-CSA-12-5150RP-1	3/28/2002	3.8		mg/kg			
			OU5-CSA-12-5150RP-2	3/28/2002	4.9		mg/kg			
CSA	***2***	***5151 Yuma Street***							***No***	***No***
			OU5-CSA-2-5151YS-1	3/22/2002	8.2		mg/kg			
			OU5-CSA-2-5151YS-2	3/22/2002	3.2	K	mg/kg			
CTA	***1B***	***5153 Tilden Street***							***No***	***No***
			OU5-CTA-1B-5153TS-1	7/18/2001	3.5		mg/kg			
			OU5-CTA-1B-5153TS-2	7/18/2001	5.6		mg/kg			
			OU5-CTA-1B-5153TS-3	7/18/2001	3.1		mg/kg			
			OU5-CTA-1B-5153TS-4	7/18/2001	2	J	mg/kg			
			OU5-CTA-1B-5153TS-SB-1	7/18/2001	0.37	U	mg/kg			
			OU5-CTA-1B-5153TS-SB-2	7/18/2001	0.57	J	mg/kg			
			OU5-CTA-1B-5153TS-SB-3	7/18/2001	1.3	J	mg/kg			
			OU5-CTA-1B-5153TS-SB-4	7/18/2001	1.2	J	mg/kg			
			OU5-CTA-1B-5153TS-SB-5	7/18/2001	0.66	J	mg/kg			
			OU5-CTA-1B-5153TS-SB-6	7/18/2001	0.39	U	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	2	5153 Yuma Street						No	No
			OU5-CSA-2-5153YS-1	6/14/2001	2.1 J	mg/kg			
			OU5-CSA-2-5153YS-2	6/14/2001	4.7	mg/kg			
CTA	1C	5154 Tilden Street						No	No
			OU5-CTA-1C-5154TS-1	9/18/2001	3.8	mg/kg			
			OU5-CTA-1C-5154TS-2	9/18/2001	4.3	mg/kg			
			OU5-CTA-1C-5154TS-3	9/18/2001	4.8	mg/kg			
			OU5-CTA-1C-5154TS-4	9/18/2001	7.5	mg/kg			
			OU5-CTA-1C-5154TS-SB1	9/18/2001	1.2 J	mg/kg			
			OU5-CTA-1C-5154TS-SB10	9/18/2001	2.1 J	mg/kg			
			OU5-CTA-1C-5154TS-SB2	9/18/2001	1.3 J	mg/kg			
			OU5-CTA-1C-5154TS-SB3	9/18/2001	3.2	mg/kg			
			OU5-CTA-1C-5154TS-SB4	9/18/2001	2.8	mg/kg			
			OU5-CTA-1C-5154TS-SB5	9/18/2001	2.2	mg/kg			
			OU5-CTA-1C-5154TS-SB6	9/18/2001	3.2	mg/kg			
			OU5-CTA-1C-5154TS-SB7	9/18/2001	3	mg/kg			
			OU5-CTA-1C-5154TS-SB8	9/18/2001	3	mg/kg			
			OU5-CTA-1C-5154TS-SB9	9/18/2001	3.1	mg/kg			
CTA	1B	5155 Rockwood Parkway						No	No
			OU5-CTA-1B-5155RP-1	7/18/2001	2.8	mg/kg			
			OU5-CTA-1B-5155RP-2	7/18/2001	2.9	mg/kg			
			OU5-CTA-1B-5155RP-3	7/18/2001	3.8	mg/kg			
			OU5-CTA-1B-5155RP-4	7/18/2001	3	mg/kg			
			OU5-CTA-1B-5155RP-SB-1	7/18/2001	1.3 J	mg/kg			
			OU5-CTA-1B-5155RP-SB-2	7/18/2001	1.2 J	mg/kg			
			OU5-CTA-1B-5155RP-SB-3	7/18/2001	0.53 J	mg/kg			
			OU5-CTA-1B-5155RP-SB-4	7/18/2001	0.51 J	mg/kg			
			OU5-CTA-1B-5155RP-SB-5	7/18/2001	0.74 J	mg/kg			
			OU5-CTA-1B-5155RP-SB-6	7/18/2001	2.5	mg/kg			
CTA	1C	5160 Tilden Street						No	No
			OU5-CTA-1C-5160TS-1	6/13/2001	3.5	mg/kg			
			OU5-CTA-1C-5160TS-2	6/13/2001	4.3	mg/kg			
			OU5-CTA-1C-5160TS-3	6/13/2001	2.5 J	mg/kg			
			OU5-CTA-1C-5160TS-4	6/13/2001	2.6	mg/kg			
			OU5-CTA-1C-5160TS-DUP04	6/13/2001	3.1	mg/kg	OU5-CTA-1C-5160TS-2		

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5160TS-SB-1	6/13/2001	4.2	mg/kg			
			OU5-CTA-1C-5160TS-SB-2	6/13/2001	2.3 J	mg/kg			
			OU5-CTA-1C-5160TS-SB-3	6/13/2001	2.5	mg/kg			
			OU5-CTA-1C-5160TS-SB-4	6/13/2001	1.4 J	mg/kg			
			OU5-CTA-1C-5160TS-SB-5	6/13/2001	0.9 J	mg/kg			
			OU5-CTA-1C-5160TS-SB-6	6/13/2001	0.71 J	mg/kg			
			OU5-CTA-1C-5160TS-SB-7	6/13/2001	2.6	mg/kg			
CTA	*1B*	*5163 Tilden Street*						*Yes*	*No*
			OU5-CTA-1B-5163TS-1	6/19/2001	2.9	mg/kg			
			OU5-CTA-1B-5163TS-2	6/19/2001	3.7	mg/kg			
			OU5-CTA-1B-5163TS-3	6/19/2001	3.6	mg/kg			
			OU5-CTA-1B-5163TS-4	6/19/2001	3.8	mg/kg			
			OU5-CTA-1B-5163TS-DUP08	6/19/2001	3.6	mg/kg	OU5-CTA-1B-5163TS-3		
			OU5-CTA-1B-5163TS-SB-1	6/19/2001	1.9 J	mg/kg			
			OU5-CTA-1B-5163TS-SB-10	6/19/2001	1.6 J	mg/kg			
			OU5-CTA-1B-5163TS-SB-2	6/19/2001	0.93 J	mg/kg			
			OU5-CTA-1B-5163TS-SB-3	6/19/2001	2.5	mg/kg			
			OU5-CTA-1B-5163TS-SB-4	6/19/2001	3.9	mg/kg			
			OU5-CTA-1B-5163TS-SB-5	6/19/2001	4.4 J	mg/kg			
			OU5-CTA-1B-5163TS-SB-6	6/19/2001	2.9 J	mg/kg			
			OU5-CTA-1B-5163TS-SB-7	6/19/2001	3.2	mg/kg			
			OU5-CTA-1B-5163TS-SB-8	6/19/2001	3	mg/kg			
			OU5-CTA-1B-5163TS-SB-9	6/19/2001	2.3 J	mg/kg			
CTA	*1B*	*5165 Rockwood Parkway*						*No*	*No*
			OU5-CTA-1B-5165RP-1	3/19/2002	2.4	mg/kg			
			OU5-CTA-1B-5165RP-2	3/19/2002	2.7	mg/kg			
			OU5-CTA-1B-5165RP-3	3/19/2002	2.9	mg/kg			
			OU5-CTA-1B-5165RP-4	3/19/2002	3	mg/kg			
			OU5-CTA-1B-5165RP-SB1	3/19/2002	2.2	mg/kg			
			OU5-CTA-1B-5165RP-SB2	3/19/2002	1.5 J	mg/kg			
			OU5-CTA-1B-5165RP-SB3	3/19/2002	1.8	mg/kg			
			OU5-CTA-1B-5165RP-SB4	3/19/2002	2	mg/kg			
			OU5-CTA-1B-5165RP-SB5	3/19/2002	1.8	mg/kg			
			OU5-CTA-1B-5165RP-SB6	3/19/2002	2.5	mg/kg			
CTA	*1C*	*5166 Tilden Street*						*No*	*No*
			OU5-CTA-1C-5166TS-1	6/14/2001	1.9 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5166TS-2	6/14/2001	2.2 J	mg/kg			
			OU5-CTA-1C-5166TS-3	6/14/2001	3.2	mg/kg			
			OU5-CTA-1C-5166TS-4	6/14/2001	2.2 J	mg/kg			
			OU5-CTA-1C-5166TS-SB1	6/14/2001	3.7	mg/kg			
			OU5-CTA-1C-5166TS-SB10	6/14/2001	1.3 J	mg/kg			
			OU5-CTA-1C-5166TS-SB2	6/14/2001	1 J	mg/kg			
			OU5-CTA-1C-5166TS-SB3	6/14/2001	0.99 J	mg/kg			
			OU5-CTA-1C-5166TS-SB4	6/14/2001	1.1 J	mg/kg			
			OU5-CTA-1C-5166TS-SB5	6/14/2001	1.2 J	mg/kg			
			OU5-CTA-1C-5166TS-SB6	6/14/2001	0.96 J	mg/kg			
			OU5-CTA-1C-5166TS-SB7	6/14/2001	0.83 J	mg/kg			
			OU5-CTA-1C-5166TS-SB8	6/14/2001	1.4 J	mg/kg			
			OU5-CTA-1C-5166TS-SB9	6/14/2001	1.5 J	mg/kg			
			OU5-CTA-1C-5166TS-SBDUP08	6/14/2001	0.93 J	mg/kg	OU5-CTA-1C-5166TS-SB3		
CTA	*1B*	*5169 Tilden Street*						*Yes*	*No*
			OU5-CTA-1B-5169TS-1	6/26/2001	6.4	mg/kg			
			OU5-CTA-1B-5169TS-2	6/26/2001	3.8	mg/kg			
			OU5-CTA-1B-5169TS-3	6/26/2001	4.6	mg/kg			
			OU5-CTA-1B-5169TS-4	6/26/2001	5.9	mg/kg			
			OU5-CTA-1B-5169TS-SB1	6/26/2001	2.4	mg/kg			
			OU5-CTA-1B-5169TS-SB2	6/26/2001	1.8 J	mg/kg			
			OU5-CTA-1B-5169TS-SB3	6/26/2001	1.7 J	mg/kg			
			OU5-CTA-1B-5169TS-SB4	6/26/2001	1.1 J	mg/kg			
			OU5-CTA-1B-5169TS-SB5	6/26/2001	22.8	mg/kg			
			OU5-CTA-1B-5169TS-SB6	6/26/2001	4.9	mg/kg			
CTA	*1C*	*5170 Tilden Street*						*Yes*	*No*
			OU5-CTA-1C-5170TS-1	8/22/2001	6.2	mg/kg			
			OU5-CTA-1C-5170TS-2	8/22/2001	7.1	mg/kg			
			OU5-CTA-1C-5170TS-3	8/22/2001	6.6	mg/kg			
			OU5-CTA-1C-5170TS-4	8/22/2001	6	mg/kg			
			OU5-CTA-1C-5170TS-SB1	8/22/2001	2 J	mg/kg			
			OU5-CTA-1C-5170TS-SB2	8/22/2001	4.5	mg/kg			
			OU5-CTA-1C-5170TS-SB3	8/22/2001	2.8	mg/kg			
			OU5-CTA-1C-5170TS-SB4	8/22/2001	3.1	mg/kg			
			OU5-CTA-1C-5170TS-SB5	8/22/2001	2 J	mg/kg			
			OU5-CTA-1C-5170TS-SB6	8/22/2001	1.8 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1C-5170TS-SB7	8/22/2001	0.54 U	mg/kg			
			OU5-CTA-1C-5170TS-SB8	8/22/2001	0.54 U	mg/kg			
CTA	***1B***	***5175 Tilden Street***						***Yes***	***No***
			OU5-CTA-1B-5175TS-1	7/17/2001	2.5 J	mg/kg			
			OU5-CTA-1B-5175TS-2	7/17/2001	12	mg/kg			
			OU5-CTA-1B-5175TS-3	7/17/2001	4.1	mg/kg			
			OU5-CTA-1B-5175TS-4	7/17/2001	4.5	mg/kg			
			OU5-CTA-1B-5175TS-SB1	7/17/2001	1.9 J	mg/kg			
			OU5-CTA-1B-5175TS-SB2	7/17/2001	2.2 J	mg/kg			
			OU5-CTA-1B-5175TS-SB3	7/17/2001	1.5 J	mg/kg			
			OU5-CTA-1B-5175TS-SB4	7/17/2001	2.1 J	mg/kg			
			OU5-CTA-1B-5175TS-SB5	7/17/2001	2.9	mg/kg			
			OU5-CTA-1B-5175TS-SB6	7/17/2001	2.1 J	mg/kg			
CSA	***13***	***5201 Loughboro Road, Lot 100***						***No***	***No***
			OU5-CSA-13-L100-1	1/9/2002	1.6 J	mg/kg			
			OU5-CSA-13-L100-2	1/9/2002	2.6	mg/kg			
CSA	***13***	***5201 Loughboro Road, Lot 101***						***No***	***No***
			OU5-CSA-13-L101-1	1/9/2002	6.5	mg/kg			
			OU5-CSA-13-L101-2	1/9/2002	11.2	mg/kg			
CSA	***13***	***5201 Loughboro Road, Lot 102***						***No***	***No***
			OU5-CSA-13-L102-1	1/9/2002	5.9	mg/kg			
			OU5-CSA-13-L102-2	1/9/2002	7.2	mg/kg			
CSA	***13***	***5201 Loughboro Road, Lot 103***						***No***	***No***
			OU5-CSA-13-L103-1	1/9/2002	3.3	mg/kg			
			OU5-CSA-13-L103-2	1/9/2002	3.3	mg/kg			
CSA	***13***	***5201 Loughboro Road, Lot 88***						***No***	***No***
			OU5-CSA-13-L86-1	1/9/2002	2.6	mg/kg			
			OU5-CSA-13-L86-2	1/9/2002	2.4	mg/kg			
			OU5-CSA-13-L88-1	1/9/2002	4.2	mg/kg			
			OU5-CSA-13-L88-2	1/9/2002	4.1	mg/kg			
CSA	***13***	***5201 Loughboro Road, Lot 89***						***No***	***No***
			OU5-CSA-13-L89-1	1/9/2002	3	mg/kg			
			OU5-CSA-13-L89-2	1/9/2002	4.8	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	5201 Loughboro Road, Lot 90							No	No
			OU5-CSA-13-L90-1	12/5/2001	2.4		mg/kg			
			OU5-CSA-13-L90-2	12/5/2001	3.4		mg/kg			
CSA	13	5201 Loughboro Road, Lot 91							No	No
			OU5-CSA-13-L91-1	12/5/2001	2.7		mg/kg			
			OU5-CSA-13-L91-2	12/5/2001	2.3		mg/kg			
CSA	13	5201 Loughboro Road, Lot 92							No	No
			OU5-CSA-13-L92-1	12/5/2001	2.6	J	mg/kg			
			OU5-CSA-13-L92-2	12/5/2001	3.2		mg/kg			
CSA	13	5201 Loughboro Road, Lot 96							No	No
			OU5-CSA-13-L96-1	1/9/2002	4.3		mg/kg			
			OU5-CSA-13-L96-2	1/9/2002	1.9	J	mg/kg			
			OU5-CSA-13-L96-DUP102	1/9/2002	8.7		mg/kg	OU5-CSA-13-L96-1		
CSA	13	5201 Loughboro Road, Lot 97							No	No
			OU5-CSA-13-L97-1	1/9/2002	2.9		mg/kg			
			OU5-CSA-13-L97-2	1/9/2002	4.6		mg/kg			
CSA	13	5201 Loughboro Road, Lot 98							No	No
			OU5-CSA-13-L98-1	1/9/2002	4.3		mg/kg			
			OU5-CSA-13-L98-2	1/9/2002	5.9		mg/kg			
CSA	13	5201 Loughboro Road, Lot 99							No	No
			OU5-CSA-13-L99-1	1/9/2002	2.9		mg/kg			
			OU5-CSA-13-L99-2	1/9/2002	2.6		mg/kg			
CTA	1B	5201 Upton Terrace							No	No
			OU5-CTA-1B-5201UT-1	8/13/2001	2.4	J	mg/kg			
			OU5-CTA-1B-5201UT-2	8/13/2001	5.8		mg/kg			
			OU5-CTA-1B-5201UT-3	8/13/2001	2.2	J	mg/kg			
			OU5-CTA-1B-5201UT-4	8/13/2001	2.5		mg/kg			
			OU5-CTA-1B-5201UT-SB1	8/13/2001	2	J	mg/kg			
			OU5-CTA-1B-5201UT-SB2	8/13/2001	2.7		mg/kg			
			OU5-CTA-1B-5201UT-SB3	8/13/2001	0.69	U	mg/kg			
			OU5-CTA-1B-5201UT-SB4	8/13/2001	9.4		mg/kg			
			OU5-CTA-1B-5201UT-SB5	8/13/2001	7.5		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-5201UT-SB6	8/13/2001	5.1	mg/kg			
			OU5-CTA-1B-5201UT-SB7	8/13/2001	0.59 J	mg/kg			
CTA	1B	5208 Upton Terrace						No	No
			OU5-CTA-1B-5208UT-1	8/30/2001	1.8 J	mg/kg			
			OU5-CTA-1B-5208UT-2	8/30/2001	1.3 J	mg/kg			
			OU5-CTA-1B-5208UT-3	8/30/2001	5.7	mg/kg			
			OU5-CTA-1B-5208UT-4	8/30/2001	3.8	mg/kg			
			OU5-CTA-1B-5208UT-SB-DUP64	8/30/2001	0.67 J	mg/kg	OU5-CTA-1B-5208UT-SB5		
			OU5-CTA-1B-5208UT-SB1	8/30/2001	0.4 U	mg/kg			
			OU5-CTA-1B-5208UT-SB2	8/30/2001	0.39 U	mg/kg			
			OU5-CTA-1B-5208UT-SB3	8/30/2001	0.39 U	mg/kg			
			OU5-CTA-1B-5208UT-SB4	8/30/2001	1.2 J	mg/kg			
			OU5-CTA-1B-5208UT-SB5	8/30/2001	0.58 J	mg/kg			
			OU5-CTA-1B-5208UT-SB6	8/30/2001	0.38 U	mg/kg			
CTA	1B	5209 Upton Terrace						No	No
			OU5-CTA-1B-5209UT-1	3/19/2002	2.1	mg/kg			
			OU5-CTA-1B-5209UT-2	3/19/2002	1.8	mg/kg			
			OU5-CTA-1B-5209UT-3	3/19/2002	3.7	mg/kg			
			OU5-CTA-1B-5209UT-4	3/19/2002	3.3	mg/kg			
			OU5-CTA-1B-5209UT-SB-DUP103	3/19/2002	1.9	mg/kg	OU5-CTA-1B-5209UT-SB2		
			OU5-CTA-1B-5209UT-SB1	3/19/2002	3.2	mg/kg			
			OU5-CTA-1B-5209UT-SB2	3/19/2002	1.6	mg/kg			
			OU5-CTA-1B-5209UT-SB3	3/19/2002	2.1	mg/kg			
CTA	1B	5212 Upton Terrace						Yes	No
			OU5-CTA-1B-5212UT-1	7/12/2001	3.2	mg/kg			
			OU5-CTA-1B-5212UT-2	7/12/2001	4.5	mg/kg			
			OU5-CTA-1B-5212UT-3	7/12/2001	2.9	mg/kg			
			OU5-CTA-1B-5212UT-4	7/12/2001	3.7	mg/kg			
			OU5-CTA-1B-5212UT-DUP-19	7/12/2001	4.7	mg/kg	OU5-CTA-1B-5212UT-3		
			OU5-CTA-1B-5212UT-SB1	7/12/2001	3.5	mg/kg			
			OU5-CTA-1B-5212UT-SB2	7/12/2001	4.1	mg/kg			
			OU5-CTA-1B-5212UT-SB3	7/12/2001	2.2	mg/kg			
			OU5-CTA-1B-5212UT-SB4	7/12/2001	2 J	mg/kg			
			OU5-CTA-1B-5212UT-SB5	7/12/2001	0.94 J	mg/kg			
			OU5-CTA-1B-5212UT-SB6	7/12/2001	1.5 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	5220 Little Falls Road, Lot 87						No	No
			OU5-CSA-13-L87-1	1/9/2002	2.9	mg/kg			
			OU5-CSA-13-L87-2	1/9/2002	3.4	mg/kg			
CTA	1B	DC/Nat'l Park Dalecarlia Parkway, Lot 10						No	Yes
			OU5-CTA-1B-L10-1	8/20/2001	2.6 J	mg/kg			
			OU5-CTA-1B-L10-2	8/20/2001	13.8	mg/kg			
			OU5-CTA-1B-L10-3	8/20/2001	3.9	mg/kg			
			OU5-CTA-1B-L10-4	8/20/2001	2.3 J	mg/kg			
			OU5-CTA-1B-L10-SB1	8/20/2001	2.9	mg/kg			
			OU5-CTA-1B-L10-SB2	8/20/2001	4.7	mg/kg			
			OU5-CTA-1B-L10-SB3	8/20/2001	4.7	mg/kg			
			OU5-CTA-1B-L10-SB4	8/20/2001	2.6	mg/kg			
			OU5-CTA-1B-L10-SB5	8/20/2001	3.3	mg/kg			
			OU5-CTA-1B-L10-SB6	8/20/2001	0.87 J	mg/kg			
			OU5-CTA-1B-L10-SB7	8/20/2001	0.6 U	mg/kg			
CTA	1B	DC/Nat'l Park Dalecarlia Parkway, Lot 5						No	No
			OU5-CTA-1B-L5-1	8/20/2001	6.7	mg/kg			
			OU5-CTA-1B-L5-2	8/20/2001	6.1	mg/kg			
			OU5-CTA-1B-L5-3	8/20/2001	6	mg/kg			
			OU5-CTA-1B-L5-4	8/20/2001	7.9	mg/kg			
			OU5-CTA-1B-L5-SB-DUP58	8/20/2001	1.2 J	mg/kg	OU5-CTA-1B-L5-SB5		
			OU5-CTA-1B-L5-SB1	8/20/2001	4.3	mg/kg			
			OU5-CTA-1B-L5-SB2	8/20/2001	4.9	mg/kg			
			OU5-CTA-1B-L5-SB3	8/20/2001	3.6	mg/kg			
			OU5-CTA-1B-L5-SB4	8/20/2001	5.1	mg/kg			
			OU5-CTA-1B-L5-SB5	8/20/2001	1.1 J	mg/kg			
			OU5-CTA-1B-L5-SB6	8/20/2001	1.3 J	mg/kg			
CTA	1B	DC/Nat'l Park Dalecarlia Parkway, Lot 6						No	No
			OU5-CTA-1B-L6-1	8/20/2001	4.8	mg/kg			
			OU5-CTA-1B-L6-2	8/20/2001	2.9	mg/kg			
			OU5-CTA-1B-L6-3	8/20/2001	4.7	mg/kg			
			OU5-CTA-1B-L6-4	8/20/2001	4.1	mg/kg			
			OU5-CTA-1B-L6-DUP47	8/20/2001	5.8	mg/kg	OU5-CTA-1B-L6-3		
			OU5-CTA-1B-L6-SB1	8/20/2001	1.6 J	mg/kg			
			OU5-CTA-1B-L6-SB2	8/20/2001	2.3	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-L6-SB3	8/20/2001	2.1 J	mg/kg			
			OU5-CTA-1B-L6-SB4	8/20/2001	0.4 U	mg/kg			
			OU5-CTA-1B-L6-SB5	8/20/2001	0.38 U	mg/kg			
			OU5-CTA-1B-L6-SB6	8/20/2001	0.86 J	mg/kg			
CTA	1B	DC/Nat'l Park Dalecarlia Parkway, Lot 7						No	No
			OU5-CTA-1B-L7-1	8/20/2001	3.1	mg/kg			
			OU5-CTA-1B-L7-2	8/20/2001	4.6	mg/kg			
			OU5-CTA-1B-L7-3	8/20/2001	3.1	mg/kg			
			OU5-CTA-1B-L7-4	8/20/2001	3.4	mg/kg			
			OU5-CTA-1B-L7-SB1	8/20/2001	2.1 J	mg/kg			
			OU5-CTA-1B-L7-SB2	8/20/2001	1.9 J	mg/kg			
			OU5-CTA-1B-L7-SB3	8/20/2001	0.69 J	mg/kg			
			OU5-CTA-1B-L7-SB4	8/20/2001	0.87 J	mg/kg			
			OU5-CTA-1B-L7-SB5	8/20/2001	1.4 J	mg/kg			
			OU5-CTA-1B-L7-SB6	8/20/2001	0.55 J	mg/kg			
CTA	1B	DC/Nat'l Park Dalecarlia Parkway, Lot 8						No	No
			OU5-CTA-1B-L8-1	8/20/2001	2.8	mg/kg			
			OU5-CTA-1B-L8-2	8/20/2001	3.2	mg/kg			
			OU5-CTA-1B-L8-3	8/20/2001	2.2 J	mg/kg			
			OU5-CTA-1B-L8-4	8/20/2001	3	mg/kg			
			OU5-CTA-1B-L8-SB1	8/20/2001	2.3	mg/kg			
			OU5-CTA-1B-L8-SB2	8/20/2001	1.2 J	mg/kg			
			OU5-CTA-1B-L8-SB3	8/20/2001	1.3 J	mg/kg			
			OU5-CTA-1B-L8-SB4	8/20/2001	0.56 J	mg/kg			
			OU5-CTA-1B-L8-SB5	8/20/2001	0.55 J	mg/kg			
			OU5-CTA-1B-L8-SB6	8/20/2001	0.88 J	mg/kg			
CTA	1B	DC/Nat'l Park Dalecarlia Parkway, Lot 9						No	No
			OU5-CTA-1B-L9-1	8/20/2001	2 J	mg/kg			
			OU5-CTA-1B-L9-2	8/20/2001	1.8 J	mg/kg			
			OU5-CTA-1B-L9-3	8/20/2001	3.9	mg/kg			
			OU5-CTA-1B-L9-4	8/20/2001	1.8 J	mg/kg			
			OU5-CTA-1B-L9-DUP44	8/20/2001	2.8	mg/kg	OU5-CTA-1B-L9-2		
			OU5-CTA-1B-L9-SB-DUP57	8/20/2001	1.3 J	mg/kg	OU5-CTA-1B-L9-SB4		
			OU5-CTA-1B-L9-SB1	8/20/2001	2.7 J	mg/kg			
			OU5-CTA-1B-L9-SB2	8/20/2001	2.9	mg/kg			
			OU5-CTA-1B-L9-SB3	8/20/2001	2.2 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CTA-1B-L9-SB4	8/20/2001	1.4	J	mg/kg			
			OU5-CTA-1B-L9-SB5	8/20/2001	1.6	J	mg/kg			
			OU5-CTA-1B-L9-SB6	8/20/2001	3		mg/kg			
CSA	***5***	***Friendship Park 45th Street, Lot 1***							***No***	***No***
			OU5-CSA-5-L1-1	1/4/2002	3.6	J	mg/kg			
			OU5-CSA-5-L1-2	1/4/2002	4.8		mg/kg			
CSA	***5***	***Friendship Park 45th Street, Lot 16***							***Yes***	***No***
			OU5-CSA-5-L16-1	1/3/2002	2.9		mg/kg			
			OU5-CSA-5-L16-2	1/3/2002	3.3		mg/kg			
			OU5-CSA-5-L16-SBA1	1/3/2002	2.4		mg/kg			
			OU5-CSA-5-L16-SBA2	1/3/2002	2.6		mg/kg			
			OU5-CSA-5-L16-SBA3	1/3/2002	1.6	J	mg/kg			
			OU5-CSA-5-L16-SBA4	1/3/2002	2.5		mg/kg			
			OU5-CSA-5-L16-SBA5	1/3/2002	1.5	J	mg/kg			
			OU5-CSA-5-L16-SBA6	1/3/2002	0.57	J	mg/kg			
			OU5-CSA-5-L16-SBB1	1/3/2002	3.3		mg/kg			
			OU5-CSA-5-L16-SBB2	1/3/2002	3.5		mg/kg			
			OU5-CSA-5-L16-SBB3	1/3/2002	0.96	J	mg/kg			
			OU5-CSA-5-L16-SBB4	1/3/2002	1.5	J	mg/kg			
			OU5-CSA-5-L16-SBB5	1/3/2002	1.5	J	mg/kg			
CSA	***5***	***Friendship Park 45th Street, Lot 17***							***No***	***No***
			OU5-CSA-5-L17-1	1/3/2002	5.5		mg/kg			
			OU5-CSA-5-L17-2	1/3/2002	4.4		mg/kg			
CSA	***5***	***Friendship Park 45th Street, Lot 18***							***Yes***	***No***
			OU5-CSA-5-L18-1	1/3/2002	5.7		mg/kg			
			OU5-CSA-5-L18-2	1/3/2002	4.9		mg/kg			
			OU5-CSA-5-L18-SB1	1/3/2002	1.8	J	mg/kg			
			OU5-CSA-5-L18-SB2	1/3/2002	4.3		mg/kg			
			OU5-CSA-5-L18-SB3	1/3/2002	2.6		mg/kg			
			OU5-CSA-5-L18-SB4	1/3/2002	4		mg/kg			
			OU5-CSA-5-L18-SB5	1/3/2002	3.7		mg/kg			
			OU5-CSA-5-L18-SB6	1/3/2002	3		mg/kg			
			OU5-CSA-5-L18-SB7	1/3/2002	1.3	J	mg/kg			
			OU5-CSA-5-L18-SB8	1/3/2002	1.9	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	5	Friendship Park 45th Street, Lot 19							Yes	No
			OU5-CSA-5-L19-1	1/3/2002	4.1		mg/kg			
			OU5-CSA-5-L19-2	1/3/2002	3.7		mg/kg			
			OU5-CSA-5-L19-SB1	1/3/2002	3.9		mg/kg			
			OU5-CSA-5-L19-SB10	1/3/2002	0.9	J	mg/kg			
			OU5-CSA-5-L19-SB2	1/3/2002	1.4	J	mg/kg			
			OU5-CSA-5-L19-SB3	1/3/2002	3.7		mg/kg			
			OU5-CSA-5-L19-SB4	1/3/2002	3.7		mg/kg			
			OU5-CSA-5-L19-SB5	1/3/2002	3.3		mg/kg			
			OU5-CSA-5-L19-SB6	1/3/2002	3.8		mg/kg			
			OU5-CSA-5-L19-SB7	1/3/2002	2.2	J	mg/kg			
			OU5-CSA-5-L19-SB8	1/3/2002	2.1	J	mg/kg			
			OU5-CSA-5-L19-SB9	1/3/2002	1.8	J	mg/kg			
CSA	5	Friendship Park 45th Street, Lot 2							Yes	No
			OU5-CSA-5-L2-1	1/4/2002	5.6		mg/kg			
			OU5-CSA-5-L2-2	1/4/2002	4.5		mg/kg			
			OU5-CSA-5-L2-SB1	1/4/2002	4.4		mg/kg			
			OU5-CSA-5-L2-SB2	1/4/2002	6.7		mg/kg			
			OU5-CSA-5-L2-SB3	1/4/2002	4		mg/kg			
			OU5-CSA-5-L2-SB4	1/4/2002	1.7	J	mg/kg			
			OU5-CSA-5-L2-SB5	1/4/2002	0.96	J	mg/kg			
			OU5-CSA-5-L2-SB6	1/4/2002	1.9	J	mg/kg			
CSA	5	Friendship Park 45th Street, Lot 20							No	No
			OU5-CSA-5-L20-1	1/3/2002	2.8		mg/kg			
			OU5-CSA-5-L20-2	1/3/2002	2.6		mg/kg			
CSA	5	Friendship Park 45th Street, Lot 21							Yes	No
			OU5-CSA-5-L21-1	1/3/2002	2.8		mg/kg			
			OU5-CSA-5-L21-2	1/3/2002	2.9		mg/kg			
			OU5-CSA-5-L21-SB1	1/3/2002	2.3		mg/kg			
			OU5-CSA-5-L21-SB2	1/3/2002	0.47	J	mg/kg			
			OU5-CSA-5-L21-SB3	1/3/2002	0.41	J	mg/kg			
			OU5-CSA-5-L21-SB4	1/3/2002	0.6	J	mg/kg			
			OU5-CSA-5-L21-SB5	1/3/2002	0.38	U	mg/kg			
			OU5-CSA-5-L21-SB6	1/3/2002	0.71	J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	5	Friendship Park 45th Street, Lot 22							No	No
			OU5-CSA-5-L22-1	1/3/2002	4		mg/kg			
			OU5-CSA-5-L22-2	1/3/2002	3.9		mg/kg			
CSA	5	Friendship Park 45th Street, Lot 23							No	No
			OU5-CSA-5-L23-1	1/3/2002	3.5		mg/kg			
			OU5-CSA-5-L23-2	1/3/2002	3.6		mg/kg			
			OU5-CSA-5-L23-DUP99	1/3/2002	3.7		mg/kg	OU5-CSA-5-L23-1		
CSA	5	Friendship Park 45th Street, Lot 24							No	No
			OU5-CSA-5-L24-1	1/3/2002	2.9		mg/kg			
			OU5-CSA-5-L24-2	1/3/2002	3.7		mg/kg			
CSA	5	Friendship Park 45th Street, Lot 25							Yes	No
			OU5-CSA-5-L25-1	1/4/2002	3		mg/kg			
			OU5-CSA-5-L25-2	1/4/2002	7.8		mg/kg			
			OU5-CSA-5-L25-SB-DUP97	1/4/2002	2.9		mg/kg	OU5-CSA-5-L25-SBB4		
			OU5-CSA-5-L25-SB-DUP98	1/4/2002	4.4		mg/kg	OU5-CSA-5-L25-SBC5		
			OU5-CSA-5-L25-SBA1	1/4/2002	4.2		mg/kg			
			OU5-CSA-5-L25-SBA2	1/4/2002	2		mg/kg			
			OU5-CSA-5-L25-SBA3	1/4/2002	1.4	J	mg/kg			
			OU5-CSA-5-L25-SBA4	1/4/2002	1.4	J	mg/kg			
			OU5-CSA-5-L25-SBA5	1/4/2002	1.1	J	mg/kg			
			OU5-CSA-5-L25-SBA6	1/4/2002	1.3	J	mg/kg			
			OU5-CSA-5-L25-SBB1	1/4/2002	2.9	J	mg/kg			
			OU5-CSA-5-L25-SBB2	1/4/2002	5.8		mg/kg			
			OU5-CSA-5-L25-SBB3	1/4/2002	2.1		mg/kg			
			OU5-CSA-5-L25-SBB4	1/4/2002	2.3		mg/kg			
			OU5-CSA-5-L25-SBB5	1/4/2002	2.8		mg/kg			
			OU5-CSA-5-L25-SBB6	1/4/2002	0.92	J	mg/kg			
			OU5-CSA-5-L25-SBC1	1/4/2002	6.2		mg/kg			
			OU5-CSA-5-L25-SBC2	1/4/2002	2		mg/kg			
			OU5-CSA-5-L25-SBC3	1/4/2002	7.1		mg/kg			
			OU5-CSA-5-L25-SBC4	1/4/2002	2.7		mg/kg			
			OU5-CSA-5-L25-SBC5	1/4/2002	3.8		mg/kg			
			OU5-CSA-5-L25-SBC6	1/4/2002	1.7		mg/kg			
CSA	5	Friendship Park 45th Street, Lot 27							No	No
			OU5-CSA-5-L27-1	1/4/2002	4		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-5-L27-2	1/4/2002	5.1	mg/kg			
CSA	5	Friendship Park 45th Street, Lot 28						No	No
			OU5-CSA-5-L28-1	1/4/2002	4.3	mg/kg			
			OU5-CSA-5-L28-2	1/4/2002	2.8 J	mg/kg			
CSA	5	Friendship Park 45th Street, Lot 4						No	No
			OU5-CSA-5-L4-1	1/4/2002	3.8	mg/kg			
			OU5-CSA-5-L4-2	1/4/2002	4.1	mg/kg			
CSA	5	Friendship Park 45th Street, Lot 5						Yes	No
			OU5-CSA-5-L5-1	1/4/2002	5.4	mg/kg			
			OU5-CSA-5-L5-2	1/4/2002	3.5	mg/kg			
			OU5-CSA-5-L5-SB-DUP99	1/4/2002	1 J	mg/kg	OU5-CSA-5-L5-SB6		
			OU5-CSA-5-L5-SB1	1/4/2002	3.3	mg/kg			
			OU5-CSA-5-L5-SB2	1/4/2002	2.6	mg/kg			
			OU5-CSA-5-L5-SB3	1/4/2002	1.9	mg/kg			
			OU5-CSA-5-L5-SB4	1/4/2002	1.5 J	mg/kg			
			OU5-CSA-5-L5-SB5	1/4/2002	1.2 J	mg/kg			
			OU5-CSA-5-L5-SB6	1/4/2002	2.7 J	mg/kg			
CSA	5	Friendship Park 45th Street, Lot 6						No	No
			OU5-CSA-5-L6-1	1/4/2002	4.8	mg/kg			
			OU5-CSA-5-L6-2	1/4/2002	3.9	mg/kg			
CSA	5	Friendship Park 45th Street, Lot 7						No	No
			OU5-CSA-5-L7-1	1/4/2002	2.7	mg/kg			
			OU5-CSA-5-L7-2	1/4/2002	2.8	mg/kg			
CSA	3	Lot 1 , Lot 1						No	No
			OU5-CSA-3-L1-1	8/31/2001	1.7	mg/kg			
			OU5-CSA-3-L1-2	8/31/2001	2.7	mg/kg			
CSA	3	Lot 2 Massachusetts Avenue						No	No
			OU5-CSA-3-L2-1	8/27/2002	2.5	mg/kg			
			OU5-CSA-3-L2-2	8/27/2002	2	mg/kg			
CSA	3	Lot 2 Massachusetts Avenue, Lot 2						No	No
			OU5-CSA-3-L2-1	8/27/2002	2.5	mg/kg			
			OU5-CSA-3-L2-2	8/27/2002	2	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	5	park-C 45th Street, Lot 26						No	No
			OU5-CSA-5-L26-1	8/23/2001	8.1	mg/kg			
			OU5-CSA-5-L26-2	8/23/2001	4.4	mg/kg			
			OU5-CSA-5-L26-DUP47	8/23/2001	4.9	mg/kg	OU5-CSA-5-L26-2		
CSA	5	park-C 45th Street, Lot 30						No	No
			OU5-CSA-5-L30-1	8/23/2001	5.3	mg/kg			
			OU5-CSA-5-L30-2	8/23/2001	5.2	mg/kg			
CSA	5	park-C 45th Street, Lot 31						No	No
			OU5-CSA-5-L31-1	8/23/2001	4.8	mg/kg			
			OU5-CSA-5-L31-2	8/23/2001	4.6	mg/kg			
CSA	5	park-C 45th Street, Lot 32						No	No
			OU5-CSA-5-L32-1	8/23/2001	4.7	mg/kg			
			OU5-CSA-5-L32-2	8/23/2001	6.4	mg/kg			
			OU5-CSA-5-L32-DUP48	8/23/2001	6.1	mg/kg	OU5-CSA-5-L32-1		
CSA	5	Van Ness Reservoir 45th Street, Lot 10						No	No
			OU5-CSA-5-L10-1	5/22/2002	3.1	mg/kg			
			OU5-CSA-5-L10-2	5/22/2002	3.7	mg/kg			
CSA	5	Van Ness Reservoir 45th Street, Lot 11						No	No
			OU5-CSA-5-L11-1	5/22/2002	3.6	mg/kg			
			OU5-CSA-5-L11-2	5/22/2002	2.8	mg/kg			
CSA	5	Van Ness Reservoir 45th Street, Lot 12						No	No
			OU5-CSA-5-L12-1	5/22/2002	2.2	mg/kg			
			OU5-CSA-5-L12-2	5/22/2002	2.2	mg/kg			
CSA	5	Van Ness Reservoir 45th Street, Lot 13						No	No
			OU5-CSA-5-L13-1	5/22/2002	2.5	mg/kg			
			OU5-CSA-5-L13-2	5/22/2002	2.5	mg/kg			
CSA	5	Van Ness Reservoir 45th Street, Lot 14						No	No
			OU5-CSA-5-L14-1	5/22/2002	2.6	mg/kg			
			OU5-CSA-5-L14-2	5/22/2002	3	mg/kg			
CSA	5	Van Ness Reservoir 45th Street, Lot 15						Yes	Yes + 1' arsenic boring
			OU5-CSA-5-L15-1	8/16/2001	21.9	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-5-L15-2	8/16/2001	5.1		mg/kg			
			OU5-CSA-5-L15-DUP45	8/16/2001	4.5		mg/kg	OU5-CSA-5-L15-2		
			OU5-CSA-5-L15-SB1	8/16/2001	4		mg/kg			
			OU5-CSA-5-L15-SB2	8/16/2001	0.57	J	mg/kg			
			OU5-CSA-5-L15-SB3	8/16/2001	2.2		mg/kg			
			OU5-CSA-5-L15-SB4	8/16/2001	1.1	J	mg/kg			
			OU5-CSA-5-L15-SB5	8/16/2001	0.87	J	mg/kg			
			OU5-CSA-5-L15-SB6	8/16/2001	0.4	U	mg/kg			
CSA	*5*	*Van Ness Reservoir 45th Street, Lot 3*							*No*	*No*
			OU5-CSA-5-L3-1	8/7/2002	5.3	\2	mg/kg			
			OU5-CSA-5-L3-2	8/7/2002	5.1	\2	mg/kg			
CSA	*5*	*Van Ness Reservoir 45th Street, Lot 33*							*No*	*No*
			OU5-CSA-5-L33-1	5/22/2002	2.6		mg/kg			
			OU5-CSA-5-L33-2	5/22/2002	2.7		mg/kg			
CSA	*5*	*Van Ness Reservoir 45th Street, Lot 34*							*No*	*No*
			OU5-CSA-5-L34-1	5/22/2002	2.8		mg/kg			
			OU5-CSA-5-L34-2	5/22/2002	3.1		mg/kg			
CSA	*5*	*Van Ness Reservoir 45th Street, Lot 8*							*No*	*No*
			OU5-CSA-5-L8-1	5/22/2002	4		mg/kg			
			OU5-CSA-5-L8-2	5/22/2002	2.7		mg/kg			
CSA	*5*	*Van Ness Reservoir 45th Street, Lot 9*							*No*	*No*
			OU5-CSA-5-L9-1	5/22/2002	3.1		mg/kg			
			OU5-CSA-5-L9-2	5/22/2002	2.7		mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 1*							*No*	*No*
			OU5-CSA-13-L1-1	8/22/2001	0.76	J	mg/kg			
			OU5-CSA-13-L1-2	8/22/2001	2.2	J	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 10*							*No*	*No*
			OU5-CSA-13-L10-1	8/28/2001	2.7		mg/kg			
			OU5-CSA-13-L10-2	8/28/2001	2.8		mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 104*							*No*	*No*
			OU5-CSA-13-L104-1	11/20/2001	4.5		mg/kg			
			OU5-CSA-13-L104-2	11/20/2001	6.7		mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	Wash. Aqueduct , Lot 11						No	No
			OU5-CSA-13-L11-1	8/28/2001	3.5	mg/kg			
			OU5-CSA-13-L11-2	8/28/2001	3.6	mg/kg			
CSA	13	Wash. Aqueduct , Lot 12						No	No
			OU5-CSA-13-L12-1	8/28/2001	2.6	mg/kg			
			OU5-CSA-13-L12-2	8/28/2001	2.7 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 13						No	No
			OU5-CSA-13-L13-1	10/5/2001	3.9	mg/kg			
			OU5-CSA-13-L13-2	10/5/2001	3.3	mg/kg			
CSA	13	Wash. Aqueduct , Lot 14						No	No
			OU5-CSA-13-L14-1	10/5/2001	2.3 J	mg/kg			
			OU5-CSA-13-L14-2	10/5/2001	2.2 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 15						No	Yes + specialty boring
			OU5-CSA-13-L15-1	10/5/2001	26.1	mg/kg			
			OU5-CSA-13-L15-2	10/5/2001	64.4	mg/kg			
CSA	13	Wash. Aqueduct , Lot 16						No	No
			OU5-CSA-13-L16-1	10/5/2001	3.5	mg/kg			
			OU5-CSA-13-L16-2	10/5/2001	3.2 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 17						No	No
			OU5-CSA-13-L17-1	10/5/2001	4	mg/kg			
			OU5-CSA-13-L17-2	10/5/2001	4.2	mg/kg			
CSA	13	Wash. Aqueduct , Lot 18						No	No
			OU5-CSA-13-L18-1	10/5/2001	4.2	mg/kg			
			OU5-CSA-13-L18-2	10/5/2001	5.1	mg/kg			
CSA	13	Wash. Aqueduct , Lot 19						No	No
			OU5-CSA-13-L19-1	10/5/2001	8.8	mg/kg			
			OU5-CSA-13-L19-2	10/5/2001	3.1	mg/kg			
			OU5-CSA-13-L19-DUP70	10/5/2001	4	mg/kg	OU5-CSA-13-L19-1		
CSA	13	Wash. Aqueduct , Lot 2						No	No
			OU5-CSA-13-L2-1	8/22/2001	1.9 J	mg/kg			
			OU5-CSA-13-L2-2	8/22/2001	1.9 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	Wash. Aqueduct , Lot 20						No	No
			OU5-CSA-13-L20-1	10/5/2001	4.3	mg/kg			
			OU5-CSA-13-L20-2	10/5/2001	4.2	mg/kg			
CSA	13	Wash. Aqueduct , Lot 21						No	No
			OU5-CSA-13-L21-1	10/5/2001	4.5	mg/kg			
			OU5-CSA-13-L21-2	10/5/2001	4.1	mg/kg			
CSA	13	Wash. Aqueduct , Lot 22						No	No
			OU5-CSA-13-L22-1	10/5/2001	3	mg/kg			
			OU5-CSA-13-L22-2	10/5/2001	4.1	mg/kg			
CSA	13	Wash. Aqueduct , Lot 23						No	No
			OU5-CSA-13-L23-1	10/5/2001	4.2	mg/kg			
			OU5-CSA-13-L23-2	10/5/2001	2.9	mg/kg			
CSA	13	Wash. Aqueduct , Lot 24						No	No
			OU5-CSA-13-L24-1	10/5/2001	3.9	mg/kg			
			OU5-CSA-13-L24-2	10/5/2001	3.3 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 25						No	No
			OU5-CSA-13-L25-1	10/5/2001	3.8	mg/kg			
			OU5-CSA-13-L25-2	10/5/2001	3.5	mg/kg			
CSA	13	Wash. Aqueduct , Lot 26						No	No
			OU5-CSA-13-L26-1	10/5/2001	3.5	mg/kg			
			OU5-CSA-13-L26-2	10/5/2001	3.4	mg/kg			
CSA	13	Wash. Aqueduct , Lot 27						No	No
			OU5-CSA-13-L27-1	10/5/2001	2.4 J	mg/kg			
			OU5-CSA-13-L27-2	10/5/2001	2.6	mg/kg			
CSA	13	Wash. Aqueduct , Lot 28						No	No
			OU5-CSA-13-L28-1	10/10/2001	3.4	mg/kg			
			OU5-CSA-13-L28-2	10/10/2001	2.7	mg/kg			
			OU5-CSA-13-L28-DUP71	10/10/2001	3.5	mg/kg	OU5-CSA-13-L28-1		
CSA	13	Wash. Aqueduct , Lot 29						No	No
			OU5-CSA-13-L29-1	10/10/2001	3.2	mg/kg			
			OU5-CSA-13-L29-2	10/10/2001	2.9	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	Wash. Aqueduct , Lot 3						No	No
			OU5-CSA-13-L3-1	8/22/2001	2.1 J	mg/kg			
			OU5-CSA-13-L3-2	8/22/2001	2.7	mg/kg			
CSA	13	Wash. Aqueduct , Lot 30						No	No
			OU5-CSA-13-L30-1	10/10/2001	2.8	mg/kg			
			OU5-CSA-13-L30-2	10/10/2001	2.9	mg/kg			
			OU5-CSA-13-L30-DUP72	10/10/2001	2.4	mg/kg	OU5-CSA-13-L30-1		
CSA	13	Wash. Aqueduct , Lot 31						No	No
			OU5-CSA-13-L31-1	10/10/2001	2.8	mg/kg			
			OU5-CSA-13-L31-2	10/10/2001	2.2 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 32						No	No
			OU5-CSA-13-L32-1	10/10/2001	3.3	mg/kg			
			OU5-CSA-13-L32-2	10/10/2001	2 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 33						No	No
			OU5-CSA-13-L33-1	10/10/2001	1.7 J	mg/kg			
			OU5-CSA-13-L33-2	10/10/2001	1.9 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 34						No	No
			OU5-CSA-13-L34-1	10/10/2001	2.6 J	mg/kg			
			OU5-CSA-13-L34-2	10/10/2001	2.6	mg/kg			
CSA	13	Wash. Aqueduct , Lot 35						No	No
			OU5-CSA-13-L35-1	10/10/2001	1.8 J	mg/kg			
			OU5-CSA-13-L35-2	10/10/2001	3.6	mg/kg			
CSA	13	Wash. Aqueduct , Lot 36						No	No
			OU5-CSA-13-L36-1	10/10/2001	1.7 J	mg/kg			
			OU5-CSA-13-L36-2	10/10/2001	2.3 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 37						No	No
			OU5-CSA-13-L37-1	10/10/2001	2.6 J	mg/kg			
			OU5-CSA-13-L37-2	10/10/2001	1.8 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 38						No	No
			OU5-CSA-13-L38-1	10/10/2001	2 J	mg/kg			
			OU5-CSA-13-L38-2	10/10/2001	1.9 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	Wash. Aqueduct , Lot 39						Yes	No
			OU5-CSA-13-L39-1	8/9/2001	2.3	mg/kg			
			OU5-CSA-13-L39-2	8/9/2001	2.4	mg/kg			
			OU5-CSA-13-L39-SB1	8/9/2001	4.7	mg/kg			
			OU5-CSA-13-L39-SB2	8/9/2001	2.4	mg/kg			
			OU5-CSA-13-L39-SB3	8/9/2001	0.89 J	mg/kg			
			OU5-CSA-13-L39-SB4	8/9/2001	0.61 J	mg/kg			
			OU5-CSA-13-L39-SB5	8/9/2001	0.36 U	mg/kg			
			OU5-CSA-13-L39-SB6	8/9/2001	0.68 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 4						No	No
			OU5-CSA-13-L4-1	8/22/2001	2.3 J	mg/kg			
			OU5-CSA-13-L4-2	8/22/2001	2.1 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 40						No	No
			OU5-CSA-13-L40-1	10/10/2001	2.3	mg/kg			
			OU5-CSA-13-L40-2	10/10/2001	7	mg/kg			
CSA	13	Wash. Aqueduct , Lot 41						Yes	No
			OU5-CSA-13-L41-1	8/2/2001	3.4	mg/kg			
			OU5-CSA-13-L41-2	8/2/2001	3.3	mg/kg			
			OU5-CSA-13-L41-SB-1	8/2/2001	1.9 J	mg/kg			
			OU5-CSA-13-L41-SB-2	8/2/2001	2.5	mg/kg			
			OU5-CSA-13-L41-SB-3	8/2/2001	4.6	mg/kg			
			OU5-CSA-13-L41-SB-4	8/2/2001	3.1	mg/kg			
			OU5-CSA-13-L41-SB-5	8/2/2001	2.1	mg/kg			
			OU5-CSA-13-L41-SB-6	8/2/2001	2.2 J	mg/kg			
			OU5-CSA-13-L41-SB-DUP47	8/2/2001	2.9	mg/kg	OU5-CSA-13-L41-SB-5		
CSA	13	Wash. Aqueduct , Lot 42						No	No
			OU5-CSA-13-L42-1	10/10/2001	1.3 J	mg/kg			
			OU5-CSA-13-L42-2	10/10/2001	2 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 43						No	No
			OU5-CSA-13-L43-1	10/10/2001	1.3 J	mg/kg			
			OU5-CSA-13-L43-2	10/10/2001	1.1 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 44						Yes	No
			OU5-CSA-13-L44-1	8/9/2001	2 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-13-L44-2	8/9/2001	1.7 J	mg/kg			
			OU5-CSA-13-L44-SB1	8/9/2001	2.9	mg/kg			
			OU5-CSA-13-L44-SB2	8/9/2001	4.3	mg/kg			
			OU5-CSA-13-L44-SB3	8/9/2001	1.6 J	mg/kg			
			OU5-CSA-13-L44-SB4	8/9/2001	1.8 J	mg/kg			
			OU5-CSA-13-L44-SB5	8/9/2001	0.59 J	mg/kg			
			OU5-CSA-13-L44-SB6	8/9/2001	0.87 J	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 45*						*No*	*No*
			OU5-CSA-13-L45-1	10/10/2001	6.4	mg/kg			
			OU5-CSA-13-L45-2	10/10/2001	0.76 J	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 46*						*Yes*	*No*
			OU5-CSA-13-L46-1	8/2/2001	7.4	mg/kg			
			OU5-CSA-13-L46-2	8/2/2001	3.6	mg/kg			
			OU5-CSA-13-L46-SB-1	8/2/2001	4.5	mg/kg			
			OU5-CSA-13-L46-SB-2	8/2/2001	0.59 J	mg/kg			
			OU5-CSA-13-L46-SB-3	8/2/2001	2.1 J	mg/kg			
			OU5-CSA-13-L46-SB-4	8/2/2001	2.5	mg/kg			
			OU5-CSA-13-L46-SB-5	8/2/2001	2.1 J	mg/kg			
			OU5-CSA-13-L46-SB-6	8/2/2001	1.7 J	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 47*						*Yes*	*No*
			OU5-CSA-13-L47-1	8/2/2001	2.4	mg/kg			
			OU5-CSA-13-L47-2	8/2/2001	3.1	mg/kg			
			OU5-CSA-13-L47-SB-1	8/2/2001	3	mg/kg			
			OU5-CSA-13-L47-SB-2	8/2/2001	2.8	mg/kg			
			OU5-CSA-13-L47-SB-3	8/2/2001	2.8	mg/kg			
			OU5-CSA-13-L47-SB-4	8/2/2001	1.9 J	mg/kg			
			OU5-CSA-13-L47-SB-5	8/2/2001	1.7 J	mg/kg			
			OU5-CSA-13-L47-SB-6	8/2/2001	2.9	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 48*						*No*	*No*
			OU5-CSA-13-L48-1	10/11/2001	2.5	mg/kg			
			OU5-CSA-13-L48-2	10/11/2001	2.2 J	mg/kg			
			OU5-CSA-13-L48-DUP73	10/11/2001	2.7	mg/kg	OU5-CSA-13-L48-1		
CSA	*13*	*Wash. Aqueduct , Lot 49*						*No*	*No*
			OU5-CSA-13-L49-1	10/11/2001	2.9	mg/kg			
			OU5-CSA-13-L49-2	10/11/2001	2.6	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	Wash. Aqueduct , Lot 5						Yes	No
			OU5-CSA-13-L5-1	8/16/2001	1.7 J	mg/kg			
			OU5-CSA-13-L5-2	8/16/2001	1.9 J	mg/kg			
			OU5-CSA-13-L5-SB-DUP57	8/16/2001	0.91 J	mg/kg	OU5-CSA-13-L5-SB3		
			OU5-CSA-13-L5-SB1	8/16/2001	3.6	mg/kg			
			OU5-CSA-13-L5-SB2	8/16/2001	3.2	mg/kg			
			OU5-CSA-13-L5-SB3	8/16/2001	0.69 J	mg/kg			
			OU5-CSA-13-L5-SB4	8/16/2001	1 J	mg/kg			
			OU5-CSA-13-L5-SB5	8/16/2001	1 J	mg/kg			
			OU5-CSA-13-L5-SB6	8/16/2001	1.4 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 50						No	No
			OU5-CSA-13-L50-1	10/11/2001	3 J	mg/kg			
			OU5-CSA-13-L50-2	10/11/2001	1.5 J	mg/kg			
			OU5-CSA-13-L50-DUP74	10/11/2001	1.9 J	mg/kg	OU5-CSA-13-L50-2		
CSA	13	Wash. Aqueduct , Lot 51						Yes	No
			OU5-CSA-13-L51-1	8/2/2001	2.3	mg/kg			
			OU5-CSA-13-L51-2	8/2/2001	4.9	mg/kg			
			OU5-CSA-13-L51-SB-1	8/2/2001	1.4 J	mg/kg			
			OU5-CSA-13-L51-SB-2	8/2/2001	1.4 J	mg/kg			
			OU5-CSA-13-L51-SB-3	8/2/2001	2.2 J	mg/kg			
			OU5-CSA-13-L51-SB-4	8/2/2001	1.6 J	mg/kg			
			OU5-CSA-13-L51-SB-5	8/2/2001	1.2 J	mg/kg			
			OU5-CSA-13-L51-SB-6	8/2/2001	2.5 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 52						No	No
			OU5-CSA-13-L52-1	10/11/2001	2.4	mg/kg			
			OU5-CSA-13-L52-2	10/11/2001	3.2	mg/kg			
CSA	13	Wash. Aqueduct , Lot 53						No	No
			OU5-CSA-13-L53-1	10/11/2001	3.2	mg/kg			
			OU5-CSA-13-L53-2	10/11/2001	2.1 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 54						No	No
			OU5-CSA-13-L54-1	10/11/2001	2.2 J	mg/kg			
			OU5-CSA-13-L54-2	10/11/2001	2.2 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	Wash. Aqueduct , Lot 55						No	No
			OU5-CSA-13-L55-1	10/11/2001	3.3	mg/kg			
			OU5-CSA-13-L55-2	10/11/2001	1.8 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 56						No	No
			OU5-CSA-13-L56-1	10/11/2001	3.7	mg/kg			
			OU5-CSA-13-L56-2	10/11/2001	2.5	mg/kg			
CSA	13	Wash. Aqueduct , Lot 57						No	No
			OU5-CSA-13-L57-1	10/11/2001	2.6	mg/kg			
			OU5-CSA-13-L57-2	10/11/2001	3.5 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 58						No	No
			OU5-CSA-13-L58-1	10/11/2001	2.1 J	mg/kg			
			OU5-CSA-13-L58-2	10/11/2001	2.4	mg/kg			
CSA	13	Wash. Aqueduct , Lot 59						No	No
			OU5-CSA-13-L59-1	10/11/2001	4.4	mg/kg			
			OU5-CSA-13-L59-2	10/11/2001	2.2 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 6						No	No
			OU5-CSA-13-L6-1	8/22/2001	3.5	mg/kg			
			OU5-CSA-13-L6-2	8/22/2001	3.9	mg/kg			
CSA	13	Wash. Aqueduct , Lot 60						No	No
			OU5-CSA-13-L60-1	10/11/2001	1.5 J	mg/kg			
			OU5-CSA-13-L60-2	10/11/2001	2.9	mg/kg			
CSA	13	Wash. Aqueduct , Lot 61						No	No
			OU5-CSA-13-L61-1	10/11/2001	3.6	mg/kg			
			OU5-CSA-13-L61-2	10/11/2001	2.4 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 62						No	No
			OU5-CSA-13-L62-1	10/11/2001	4.6	mg/kg			
			OU5-CSA-13-L62-2	10/11/2001	11.9	mg/kg			
CSA	13	Wash. Aqueduct , Lot 63						No	No
			OU5-CSA-13-L63-1	10/11/2001	2.5	mg/kg			
			OU5-CSA-13-L63-2	10/11/2001	1.8 J	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	Wash. Aqueduct , Lot 64						No	No
			OU5-CSA-13-L64-1	11/16/2001	11.6 L	mg/kg			
			OU5-CSA-13-L64-2	11/16/2001	7.4 L	mg/kg			
CSA	13	Wash. Aqueduct , Lot 65						No	No
			OU5-CSA-13-L65-1	11/16/2001	8.3 L	mg/kg			
			OU5-CSA-13-L65-2	11/16/2001	3.5 L	mg/kg			
CSA	13	Wash. Aqueduct , Lot 66						No	No
			OU5-CSA-13-L66-1	11/16/2001	2.9 L	mg/kg			
			OU5-CSA-13-L66-2	11/16/2001	4.6 L	mg/kg			
CSA	13	Wash. Aqueduct , Lot 67						No	No
			OU5-CSA-13-L67-1	11/16/2001	3.1 L	mg/kg			
			OU5-CSA-13-L67-2	11/16/2001	3.4 L	mg/kg			
CSA	13	Wash. Aqueduct , Lot 68						No	No
			OU5-CSA-13-L68-1	11/19/2001	2.4	mg/kg			
			OU5-CSA-13-L68-2	11/19/2001	3.7	mg/kg			
CSA	13	Wash. Aqueduct , Lot 69						No	No
			OU5-CSA-13-L69-1	11/19/2001	2.6	mg/kg			
			OU5-CSA-13-L69-2	11/19/2001	1.7 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 7						No	No
			OU5-CSA-13-L7-1	8/22/2001	3.1	mg/kg			
			OU5-CSA-13-L7-2	8/22/2001	11	mg/kg			
CSA	13	Wash. Aqueduct , Lot 70						No	No
			OU5-CSA-13-L70-1	11/15/2001	6.5	mg/kg			
			OU5-CSA-13-L70-2	11/15/2001	6.5	mg/kg			
CSA	13	Wash. Aqueduct , Lot 71						Yes	No
			OU5-CSA-13-L71-1	8/9/2001	6.1	mg/kg			
			OU5-CSA-13-L71-2	8/9/2001	6.3	mg/kg			
			OU5-CSA-13-L71-SB-DUP50	8/9/2001	3.3	mg/kg	OU5-CSA-13-L71-SB10		
			OU5-CSA-13-L71-SB1	8/9/2001	3.9	mg/kg			
			OU5-CSA-13-L71-SB10	8/9/2001	1.2 J	mg/kg			
			OU5-CSA-13-L71-SB2	8/9/2001	1.6 J	mg/kg			
			OU5-CSA-13-L71-SB3	8/9/2001	4.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
			OU5-CSA-13-L71-SB4	8/9/2001	4.3	mg/kg			
			OU5-CSA-13-L71-SB5	8/9/2001	4.2	mg/kg			
			OU5-CSA-13-L71-SB6	8/9/2001	2.4	mg/kg			
			OU5-CSA-13-L71-SB7	8/9/2001	2.7	mg/kg			
			OU5-CSA-13-L71-SB8	8/9/2001	2.5	mg/kg			
			OU5-CSA-13-L71-SB9	8/9/2001	2.1	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 72*						*No*	*No*
			OU5-CSA-13-L72-1	11/19/2001	4.6	mg/kg			
			OU5-CSA-13-L72-2	11/19/2001	2.6	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 73*						*No*	*No*
			OU5-CSA-13-L73-1	11/19/2001	3.2	mg/kg			
			OU5-CSA-13-L73-2	11/19/2001	2.7 J	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 74*						*No*	*No*
			OU5-CSA-13-L74-1	11/19/2001	3.1	mg/kg			
			OU5-CSA-13-L74-2	11/19/2001	3.3	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 75*						*No*	*No*
			OU5-CSA-13-L75-1	11/19/2001	2.8	mg/kg			
			OU5-CSA-13-L75-2	11/19/2001	3.3	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 76*						*No*	*No*
			OU5-CSA-13-L76-1	11/20/2001	2.4 J	mg/kg			
			OU5-CSA-13-L76-2	11/20/2001	1.5 J	mg/kg			
			OU5-CSA-13-L76-DUP95	11/20/2001	2 J	mg/kg	OU5-CSA-13-L76-2		
CSA	*13*	*Wash. Aqueduct , Lot 77*						*No*	*No*
			OU5-CSA-13-L77-1	11/20/2001	3.9	mg/kg			
			OU5-CSA-13-L77-2	11/20/2001	6	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 78*						*No*	*No*
			OU5-CSA-13-L78-1	11/15/2001	6.5	mg/kg			
			OU5-CSA-13-L78-2	11/15/2001	4.5	mg/kg			
CSA	*13*	*Wash. Aqueduct , Lot 79*						*No*	*No*
			OU5-CSA-13-L79-1	11/15/2001	5.8	mg/kg			
			OU5-CSA-13-L79-2	11/15/2001	10.5	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	Wash. Aqueduct , Lot 8						No	No
			OU5-CSA-13-L8-1	8/28/2001	2.8	mg/kg			
			OU5-CSA-13-L8-2	8/28/2001	3.7	mg/kg			
CSA	13	Wash. Aqueduct , Lot 80						No	Yes
			OU5-CSA-13-L80-1	11/20/2001	5	mg/kg			
			OU5-CSA-13-L80-2	11/20/2001	18	mg/kg			
CSA	13	Wash. Aqueduct , Lot 81						No	Yes
			OU5-CSA-13-L81-1	11/20/2001	5	mg/kg			
			OU5-CSA-13-L81-2	11/20/2001	20	mg/kg			
CSA	13	Wash. Aqueduct , Lot 82						No	No
			OU5-CSA-13-L82-1	11/20/2001	1.8 J	mg/kg			
			OU5-CSA-13-L82-2	11/20/2001	1.9 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 83						No	No
			OU5-CSA-13-L83-1	11/20/2001	1.6 J	mg/kg			
			OU5-CSA-13-L83-2	11/20/2001	2.3 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 84						No	No
			OU5-CSA-13-L84-1	11/20/2001	2.7	mg/kg			
			OU5-CSA-13-L84-2	11/20/2001	2 J	mg/kg			
CSA	13	Wash. Aqueduct , Lot 85						No	No
			OU5-CSA-13-L85-1	11/20/2001	0.72 U	mg/kg			
			OU5-CSA-13-L85-2	11/20/2001	2.3	mg/kg			
CSA	13	Wash. Aqueduct , Lot 9						No	No
			OU5-CSA-13-L9-1	8/28/2001	2.7	mg/kg			
			OU5-CSA-13-L9-2	8/28/2001	3.4	mg/kg			
CSA	13	Wash. Aqueduct , Lot 93						No	No
			OU5-CSA-13-L93-1	11/20/2001	2.4	mg/kg			
			OU5-CSA-13-L93-2	11/20/2001	2.8	mg/kg			
CSA	13	Wash. Aqueduct , Lot 94						No	No
			OU5-CSA-13-L94-1	11/20/2001	3.4	mg/kg			
			OU5-CSA-13-L94-2	11/20/2001	3.1	mg/kg			

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match	Specialty Boring?	Grid Sampled?
CSA	13	Wash. Aqueduct , Lot 95						No	No
			OU5-CSA-13-L95-1	11/20/2001	1.3 J	mg/kg			
			OU5-CSA-13-L95-2	11/20/2001	1.5 J	mg/kg			

\1 *DATA VALIDATION QUALIFIERS*

Data validation was conducted in accordance with EPA Region III modifications to the EPA's National Functional Guidelines for data validation. Per these guidelines, data with any of the following qualifiers is still considered usable for most decision-making purposes, including risk assessment.

U *The compound was analyzed for and is not present. The associated numerical value (Practical Quantitation Limit - PQL) indicates the approximate concentration necessary to quantify the compound in the sample. In other words, the chemical level in the sample is below the level shown, which is the minimum the testing technique could have detected in the sample.*

J *The compound was detected in the sample, but the reported result is "estimated" (could not be accurately quantified) either because the reported value is less than the PQL or at least one minor Quality Control (QC) problem was found during validation. Data with a "J" qualifier is considered usable for most decision-making purposes, including risk assessment. Therefore, one should not be concerned about the "estimated" or "J" flag assigned to the sample result. The "J" qualifier may be combined with the "K" (high bias) or "L" (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined (with the "K" or "L" qualifier, the "J" qualifier indicates the reported value is less than the PQL.*

UJ *A combination of the "U" and "J" flags. The compound was analyzed for but was not detected. The PQL limit has been qualified as estimated due to a QC anomaly.*

D *The analyte was detected in the sample. The result is reported from the diluted sample run. The original analysis of the sample required a dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered "estimated" and usable for most decision-making purposes, including risk assessment.*

DJ *The J flag attached to the D indicates the result is either less than the PQL or at least one minor quality control problem was found during validation. The reported result should be considered "estimated" and usable for most decision-making purposes, including risk assessment.*

K *The analyte was detected in the sample. The reported result is considered estimated and may be biased high due to a minor QA/QC problem. The true concentration of arsenic present in the sample may be lower than the reported result. The data is considered "estimated" and usable for most decision-making purposes, including risk assessment.*

L *The analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of arsenic present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.*

UL *A combination of the "U" and "L" flags. The compound was analyzed for but was not detected. The PQL has been qualified as estimated (biased low) due to a QC anomaly.*

B *This flag indicates the reported result is greater than the method detection level (MDL) but less than 5 times (5X) the amount found in an associated field or laboratory blank. The reported result should be considered "estimated" and may be biased high due to the blank contamination. The true concentration of arsenic in the sample may be lower than the reported result. This qualifier may be combined with the "J" qualifier to indicate the reported value is less than the PQL.*

\2 ***For this sample please refer to validation report No. 11 for detailed explanation of any data qualifier.***

SPECIALTY PARAMETER SAMPLING RESULTS

ORGANIZATION PAGE

This section contains:

- Organization Page
- Geographical Groupings Map
- Lot Key
- Data Tables

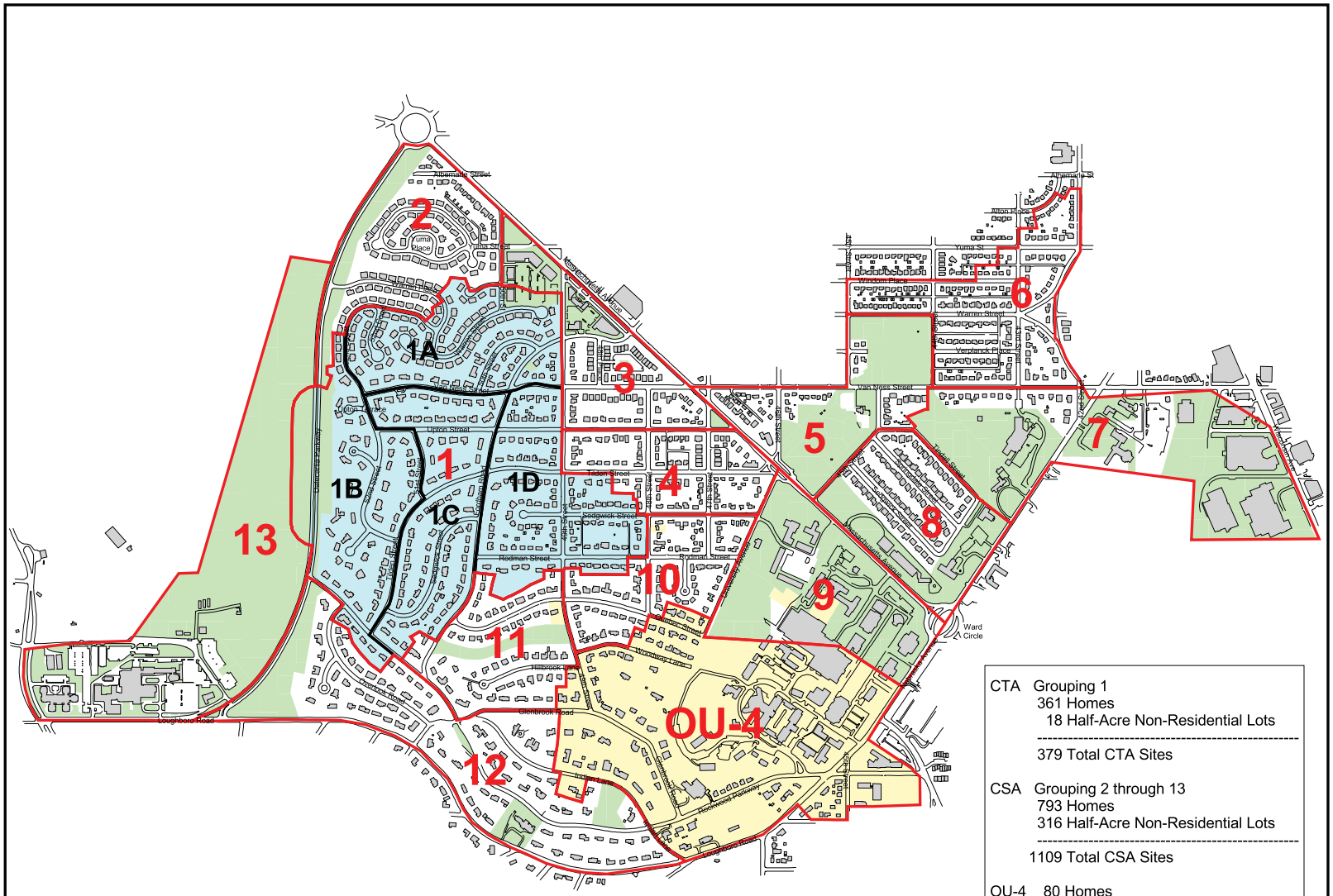
This section presents the validated results of the specialty sampling, surface and subsurface, for Operable Units 4 and 5. This is sampling for parameters other than arsenic. The arsenic results for these sites are presented in the previous section. This includes all sites (residences and lots) sampled through September 30, 2003. Approximately 93% of all sites in Spring Valley had been sampled through that date.

The Geographical Groupings map on the next page allows for the general location of a site based on its street address, name, and grouping number. The data tables are ordered numerically by house number. The sample name indicates the location on the map. For example:

OU5-CTA-1C-9999FR is a site within OU-5, a CTA site, Geographical Group 1C, house number 9999, Fordham Road.

For lots (undeveloped areas, parking lots, parks, etc.), a Lot Key is provided at the front of the data tables to locate the site. Similar to the example above, use the sample name/ID to determine the lot ID on the key. The key indicates the street address, owner's name, or property description for the lot. Since some of the lots do not have numerical street addresses, the owner's name or property description was used to alphabetically place the results on the data table.

The specific location of the sites within Spring Valley can be found on the large fold out Overview Map located in the pouch at the back of the binder. Site-specific maps are only included for those sites that exceeded the screening criteria (see arsenic grid section). **No sites had samples that exceeded the specialty parameter criteria.**



CTA Grouping 1
361 Homes
18 Half-Acre Non-Residential Lots
---
379 Total CTA Sites

CSA Grouping 2 through 13
793 Homes
316 Half-Acre Non-Residential Lots

1109 Total CSA Sites

OU-4 80 Homes
34 Half-Acre Non-Residential Lots
---
114 Total OU-4 Sites

Geographical Groupings

Spring Valley Operable Units 4 & 5
Washington D.C.

Legend

- CTA Groupings
- Groupings
- Buildings
- Roads
- Non-Residential Acreage
- CTA
- OU-4

Note:
OU-5 Acreage comprises groupings 1 through 13.

CSA is groupings 2 through 13.

Note:
- Single family houses and each townhouse count as 1 residential lot.
- Commercial and other types of buildings are not included in the residential count.
- The non-residential acreage count does not include the area of the commercial building, but does include paved parking lots and other potentially inaccessible areas. Sampling of these lots will be based on open accessible portions determined in the field.

0 1000 Feet

Scale:	1 : 10,000
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PARSONS

Spring Valley OU-4 and OU-5 Lots Key

Lot ID	Corresponding MAIN table ID	Address [1]	Owner
OU4-3401-L1 & L2	OU4-3401NA	3401 Nebraska Avenue	Metropolitian Methodist Church
OU4-4430-L3 & L4	OU4-4430NS	4430 Newark Street	District of Columbia - Horace Mann School
OU4-AU01 through AU30, AU-KREEG, & AU-WATKN	OU4-4400MA	4400 Massachusetts Avenue	American University
OU5-CTA-1A-L1 & L2	OU5-CTA-1A-4301(50)	4301 50th Street	W C & A N Miller Develop Co
OU5-CTA-1A-L3	OU5-CTA-1A-4915VNSVacant	4915 Vacant Van Ness Street	Jack D. & Irene Neal, Et Al
OU5-CTA-1B-L3 through L17	DC/Nat'l Park Grp 1B	DC/Nat'l Park Dalecarlia Pkwy	DC / National Park Service
OU5-CSA-2-L1 through L11	Dalecarlia Pkwy Lots	DP Lots Grp 2 Dalecarlia Pkwy	DC Right-of-Way
OU5-CSA-3-L2	OU5-CSA-3-L2	Lot 2 Massachusetts Avenue	DC Government
OU5-CSA-3-L3	OU5-CSA-3-4910MA	4910 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-3-L4	OU5-CSA-3-4315(50)	4315 50th Street	W C & A N Miller Develop Co
OU5-CSA-3-L5	OU5-CSA-3-L5	Lot 5 Massachusetts Avenue	DC Government
OU5-CSA-3-L6	OU5-CSA-3-4900MA	4900 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-3-L7	OU5-CSA-3-4860MA	4860 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-3-L8	OU5-CSA-3-4820MA	4820 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-5-L1, L2, L4, L5, L6, L7, L16 through L25, L27 & L28	Friendship Park	Friendship Park 45th Street	DC Department of Recreation And Parks
OU5-CSA-5-L3, L8 through L15, L33, & L34	OU5-CSA-5-Reservoir	Van Ness Res. 45th Street	United States of America - Dept of The Interior
OU5-CSA-5-L26, L30, L31, & L32	OU5-CSA-5-parkc(45)	Park-C 45th Street	United States of America - Dept of The Interior
OU5-CSA-7-L1, L2, L 7, L8, L9, L13, L14, L16, L20, L21, L22, L24, L26, L27	OU5-CSA-7-3900NA	3900 Nebraska Avenue	Royal Swedish Government
OU5-CSA-7-L3 through L6, L10, L11, L12, L15, L17, L18, L19, L23, L25	OU5-CSA-7-4000NA	4000 Nebraska Avenue	Government of Japan
OU5-CSA-7-L28 through L31, L39, L40, L41, L50, L51, L52	OU5-CSA-7-4120VNS	4120 Van Ness Street	National Presbyterian Church
OU5-CSA-7-L35 & L36	OU5-CSA-7-4000VNS	4000 Van Ness Street	Potomac Electric Power Company
OU5-CSA-7-L38, L48, & L49	OU5-CSA-7-4100WA	4100 Wisconsin Avenue	G Eckles & A E Lord Trs
OU5-CSA-7-L57, L58 & L65	OU5-CSA-7-4000WA	4000 Wisconsin Avenue	Jan Evans & C B King Jr
OU5-CSA-7-L66, L68 through L79	OU5-CSA-7-3900WA	3900 Wisconsin Avenue	Federal National Mortgage Assoc
OU5-CSA-8-L1 through L10, & L19	OU5-CSA-8-3500MA	3500 Massachusetts Avenue	American University
OU5-CSA-8-L15 through L18, & L20	OU5-CSA-8-3700NA	3700 Nebraska Avenue	American University
OU5-CSA-8-L11 through L14	OU5-CSA-8-3850NA	3850 Nebraska Avenue	Temple Baptist Church, Trs C/O Elder Moats
OU5-CSA-9-L1 through L10, L12, L13, L15, L19, L20	OU5-CSA-9-4500MA	4500 Massachusetts Avenue	Wesley Theological Seminary
OU5-CSA-9-L11, L16, L17, L18, L22-L29, L31, L33-L42, & L44-L52	OU5-CSA-9-4400MA	4400 Massachusetts Avenue	American University
OU5-CSA-11-L1 through L6	OU5-CSA-11-DC Right-of-Way	DC Right-of-Way Quebec Street	DC Right-of-Way
OU5-CSA-12-L15, L16, & L17	OU5-CSA-12-4842IL	4842 Indian Lane	John K Delaney & April Delaney
OU5-CSA-12-L18 through L21	OU5-CSA-12-4925LR	4925 Loughboro Road	Republic of Mexico
OU5-CSA-13-L1 through L85, L93, L94, L95, & L104	OU5-CSA-13-WashAqueduct	Wash. Aqueduct	Washington Aqueduct Property Lots
OU5-CSA-13-L86, L88 through L99 & L100 through L103	OU5-CSA-13-5201LR	5201 Loughboro Road	Sibley Memorial Hospital
OU5-CSA-13-L87	OU5-CSA-13-5220LF	5220 Little Falls Road	Potomac Elec Power Co

[1] Those lots without a street number address can be found alphabetically at the end of the data table using the name in this column. Please note that all lots are listed although not all receive specialty or grid sampling.

Spring Valley OU-4/OU-5 Specialty Sampling Results

Parameters other than Arsenic

Specialty Sampling Dates: 10/31/2000 - 9/30/2003 - Sorted Numerically by House Number

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result [1]	Standard [3]	Specialty boring associated with grid results?
CSA	12		3500 Overlook Court							No
				OU5-CSA-12-3500OC-SBA(0-1)	8/6/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-12-3500OC-SBA(0-1)	8/6/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-12-3500OC-SBA(0-1)	8/6/2001	ug/kg	1,4-Dithiane	110 U	78,000	
				OU5-CSA-12-3500OC-SBA(0-1)	8/6/2001	ug/kg	1,4-Oxathiane	220 U	78,000	
				OU5-CSA-12-3500OC-SBA(0-1)	8/6/2001	ug/kg	Thiodiglycol	549 U	39,100	
				OU5-CSA-12-3500OC-SBA(0-1)	8/6/2001	mg/kg	Cyanide, Total	0.18 U	160	
				OU5-CSA-12-3500OC-SBB(4-5)	8/6/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-12-3500OC-SBB(4-5)	8/6/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-12-3500OC-SBB(4-5)	8/6/2001	ug/kg	1,4-Dithiane	108 U	78,000	
				OU5-CSA-12-3500OC-SBB(4-5)	8/6/2001	ug/kg	1,4-Oxathiane	216 U	78,000	
				OU5-CSA-12-3500OC-SBB(4-5)	8/6/2001	ug/kg	Thiodiglycol	541 U	39,100	
				OU5-CSA-12-3500OC-SBB(4-5)	8/6/2001	mg/kg	Cyanide, Total	0.16 U	160	
CSA	12		3509 Overlook Court							No
				OU5-CSA-12-3509OC-SB(3-4)	11/12/2001	mg/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-12-3509OC-SB(3-4)	11/12/2001	mg/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-12-3509OC-SB(3-4)	11/12/2001	ug/kg	1,4-Dithiane	110.5 U	78,000	
				OU5-CSA-12-3509OC-SB(3-4)	11/12/2001	ug/kg	1,4-Oxathiane	221 U	78,000	
				OU5-CSA-12-3509OC-SB(3-4)	11/12/2001	ug/kg	Thiodiglycol	550 U	39,100	
				OU5-CSA-12-3509OC-SB(3-4)	11/12/2001	mg/kg	Cyanide, Total	0.16 U	160	
CSA	12		3514 Overlook Court							No
				OU5-CSA-12-3514OC-SB(3-4)	12/17/2001	ug/kg	CVAA/CVAO	40 UJ	890	
				OU5-CSA-12-3514OC-SB(3-4)	12/17/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-12-3514OC-SB(3-4)	12/17/2001	ug/kg	1,4-Dithiane	114.8 U	78,000	
				OU5-CSA-12-3514OC-SB(3-4)	12/17/2001	ug/kg	1,4-Oxathiane	229.6 U	78,000	
				OU5-CSA-12-3514OC-SB(3-4)	12/17/2001	ug/kg	Thiodiglycol	574 U	39,100	
				OU5-CSA-12-3514OC-SB(3-4)	12/17/2001	mg/kg	Cyanide, Total	0.233 U	160	
CSA	12		3519 Overlook Court							No
				OU5-CSA-12-3519OC-SBA(9-10)	9/4/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-12-3519OC-SBA(9-10)	9/4/2001	ug/kg	Sulfur Mustard	40 U	10	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-12-3519OC-SBA(9-10)	9/4/2001	ug/kg	1,4-Dithiane	114	U	78,000	
				OU5-CSA-12-3519OC-SBA(9-10)	9/4/2001	ug/kg	1,4-Oxathiane	227	U	78,000	
				OU5-CSA-12-3519OC-SBA(9-10)	9/4/2001	ug/kg	Thiodiglycol	568	U	39,100	
				OU5-CSA-12-3519OC-SBA(9-10)	9/4/2001	mg/kg	Cyanide, Total	0.16	U	160	
				OU5-CSA-12-3519OC-SBB(6-7)	9/4/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-12-3519OC-SBB(6-7)	9/4/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-12-3519OC-SBB(6-7)	9/4/2001	ug/kg	1,4-Dithiane	112	U	78,000	
				OU5-CSA-12-3519OC-SBB(6-7)	9/4/2001	ug/kg	1,4-Oxathiane	224	U	78,000	
				OU5-CSA-12-3519OC-SBB(6-7)	9/4/2001	ug/kg	Thiodiglycol	560	U	39,100	
				OU5-CSA-12-3519OC-SBB(6-7)	9/4/2001	mg/kg	Cyanide, Total	0.17	U	160	
CSA	11		3619 Fordham Road								No
				OU5-CSA-11-3619FR-SB(3.5-4.5)	10/9/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-11-3619FR-SB(3.5-4.5)	10/9/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-11-3619FR-SB(3.5-4.5)	10/9/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CSA-11-3619FR-SB(3.5-4.5)	10/9/2001	ug/kg	1,4-Oxathiane	221	U	78,000	
				OU5-CSA-11-3619FR-SB(3.5-4.5)	10/9/2001	ug/kg	Thiodiglycol	553	U	39,100	
				OU5-CSA-11-3619FR-SB(3.5-4.5)	10/9/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	11		3630 Fordham Road								No
				OU5-CSA-11-3630FR-SB(5-6)	8/1/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-11-3630FR-SB(5-6)	8/1/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-11-3630FR-SB(5-6)	8/1/2001	ug/kg	1,4-Dithiane	115	U	78,000	
				OU5-CSA-11-3630FR-SB(5-6)	8/1/2001	ug/kg	1,4-Oxathiane	230	UL	78,000	
				OU5-CSA-11-3630FR-SB(5-6)	8/1/2001	ug/kg	Thiodiglycol	575	U	39,100	
				OU5-CSA-11-3630FR-SB(5-6)	8/1/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	10		3641 49th Street								Yes
				OU5-CSA-10-3641(49)-SB(3-4)	2/20/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-3641(49)-SB(3-4)	2/20/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-3641(49)-SB(3-4)	2/20/2002	ug/kg	1,4-Dithiane	120	U	78,000	
				OU5-CSA-10-3641(49)-SB(3-4)	2/20/2002	ug/kg	1,4-Oxathiane	250	U	78,000	
				OU5-CSA-10-3641(49)-SB(3-4)	2/20/2002	ug/kg	Thiodiglycol	620	U	39,100	
				OU5-CSA-10-3641(49)-SB(3-4)	2/20/2002	mg/kg	Cyanide, Total	0.187	U	160	
CSA	10		3702 Corey Place								No
				OU5-CSA-10-3702CP-SB(4.5-5.5)	8/7/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-3702CP-SB(4.5-5.5)	8/7/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-3702CP-SB(4.5-5.5)	8/7/2001	ug/kg	1,4-Dithiane	122	U	78,000	
				OU5-CSA-10-3702CP-SB(4.5-5.5)	8/7/2001	ug/kg	1,4-Oxathiane	243	U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-10-3702CP-SB(4.5-5.5)	8/7/2001	ug/kg	Thiodiglycol	608	U	39,100	
				OU5-CSA-10-3702CP-SB(4.5-5.5)	8/7/2001	mg/kg	Cyanide, Total	0.18	U	160	
				OU5-CSA-10-3702CP-SB-DUP05	8/7/2001	mg/kg	Cyanide, Total	0.21	U	160	
CSA	10		3709 Corey Place								Yes
				OU5-CSA-10-3709CP-SB(7-8)	9/24/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-3709CP-SB(7-8)	9/24/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-3709CP-SB(7-8)	9/24/2001	ug/kg	1,4-Dithiane	118	U	78,000	
				OU5-CSA-10-3709CP-SB(7-8)	9/24/2001	ug/kg	1,4-Oxathiane	236	U	78,000	
				OU5-CSA-10-3709CP-SB(7-8)	9/24/2001	ug/kg	Thiodiglycol	590	U	39,100	
				OU5-CSA-10-3709CP-SB(7-8)	9/24/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	11		3717 Fordham Road								No
				OU5-CSA-11-3717FR-SB(7-8)	7/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-11-3717FR-SB(7-8)	7/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-11-3717FR-SB(7-8)	7/26/2001	ug/kg	1,4-Dithiane	123	U	78,000	
				OU5-CSA-11-3717FR-SB(7-8)	7/26/2001	ug/kg	1,4-Oxathiane	246	U	78,000	
				OU5-CSA-11-3717FR-SB(7-8)	7/26/2001	ug/kg	Thiodiglycol	616	U	39,100	
				OU5-CSA-11-3717FR-SB(7-8)	7/26/2001	mg/kg	Cyanide, Total	0.15	U	160	
CSA	10		3724 University Avenue								No
				OU5-CSA-10-3724UA-SB(4.5-5.5)	8/6/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-3724UA-SB(4.5-5.5)	8/6/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-3724UA-SB(4.5-5.5)	8/6/2001	ug/kg	1,4-Dithiane	112	U	78,000	
				OU5-CSA-10-3724UA-SB(4.5-5.5)	8/6/2001	ug/kg	1,4-Oxathiane	223	U	78,000	
				OU5-CSA-10-3724UA-SB(4.5-5.5)	8/6/2001	ug/kg	Thiodiglycol	558	U	39,100	
				OU5-CSA-10-3724UA-SB(4.5-5.5)	8/6/2001	mg/kg	Cyanide, Total	0.17	U	160	
CSA	11		3729 Fordham Road								No
				OU5-CSA-11-3729FR-SB(7-8)	7/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-11-3729FR-SB(7-8)	7/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-11-3729FR-SB(7-8)	7/26/2001	ug/kg	1,4-Dithiane	121	U	78,000	
				OU5-CSA-11-3729FR-SB(7-8)	7/26/2001	ug/kg	1,4-Oxathiane	242	U	78,000	
				OU5-CSA-11-3729FR-SB(7-8)	7/26/2001	ug/kg	Thiodiglycol	592	U	39,100	
				OU5-CSA-11-3729FR-SB(7-8)	7/26/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	10		3731 48th Street								No
				OU5-CSA-10-3731(48)-SB(3-4)	9/5/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-3731(48)-SB(3-4)	9/5/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-3731(48)-SB(3-4)	9/5/2001	ug/kg	1,4-Dithiane	111	U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-10-3731(48)-SB(3-4)	9/5/2001	ug/kg	1,4-Oxathiane	222	UJ	78,000	
				OU5-CSA-10-3731(48)-SB(3-4)	9/5/2001	ug/kg	Thiodiglycol	555	U	39,100	
				OU5-CSA-10-3731(48)-SB(3-4)	9/5/2001	mg/kg	Cyanide, Total	0.17	U	160	
CSA	***11***		***3735 Fordham Road***								***No***
				OU5-CSA-11-3735FR-SB(7-8)	7/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-11-3735FR-SB(7-8)	7/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-11-3735FR-SB(7-8)	7/26/2001	ug/kg	1,4-Dithiane	120	U	78,000	
				OU5-CSA-11-3735FR-SB(7-8)	7/26/2001	ug/kg	1,4-Oxathiane	239	U	78,000	
				OU5-CSA-11-3735FR-SB(7-8)	7/26/2001	ug/kg	Thiodiglycol	598	U	39,100	
				OU5-CSA-11-3735FR-SB(7-8)	7/26/2001	mg/kg	Cyanide, Total	0.19	U	160	
CTA	***1D***	***19R***	***3806 49th Street***								***No***
				OU5-CTA-1D-3806(49)-SB(4-5)	6/27/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3806(49)-SB(4-5)	6/27/2001	ug/kg	1,4-Dithiane	115	U	78,000	
				OU5-CTA-1D-3806(49)-SB(4-5)	6/27/2001	ug/kg	1,4-Oxathiane	230	U	78,000	
				OU5-CTA-1D-3806(49)-SB(4-5)	6/27/2001	ug/kg	Thiodiglycol	575	U	39,100	
CTA	***1D***	***7R***	***3807 Fordham Road***								***No***
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	1,4-Dithiane	106	U	78,000	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	1,4-Oxathiane	212	UL	78,000	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	Thiodiglycol	529	U	39,100	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	Nitroglycerine	3000	U	46,000	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1D-3807FR-SB-(2.5-3.5)	7/31/2001	mg/kg	Cyanide, Total	0.16	U	160	
CTA	***1D***	***19R***	***3809 49th Street***								***No***
				OU5-CTA-1D-3809(49)-SB(3-4)	8/14/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3809(49)-SB(3-4)	8/14/2001	ug/kg	1,4-Dithiane	152	U	78,000	
				OU5-CTA-1D-3809(49)-SB(3-4)	8/14/2001	ug/kg	1,4-Oxathiane	304	U	78,000	
				OU5-CTA-1D-3809(49)-SB(3-4)	8/14/2001	ug/kg	Thiodiglycol	761	U	39,100	
CTA	***1D***	***19R***	***3810 49th Street***								***No***
				OU5-CTA-1D-3810(49)-SB(5-6)	6/25/2001	ug/kg	Sulfur Mustard	40	U	10	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CTA-1D-3810(49)-SB(5-6)	6/25/2001	ug/kg	1,4-Dithiane	115	UL	78,000	
				OU5-CTA-1D-3810(49)-SB(5-6)	6/25/2001	ug/kg	1,4-Oxathiane	231	U	78,000	
				OU5-CTA-1D-3810(49)-SB(5-6)	6/25/2001	ug/kg	Thiodiglycol	577	U	39,100	
CTA	1D	19R	3815 49th Street								No
				OU5-CTA-1D-3815(49)-SB(5-6)	7/19/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3815(49)-SB(5-6)	7/19/2001	ug/kg	1,4-Dithiane	133	U	78,000	
				OU5-CTA-1D-3815(49)-SB(5-6)	7/19/2001	ug/kg	1,4-Oxathiane	266	U	78,000	
				OU5-CTA-1D-3815(49)-SB(5-6)	7/19/2001	ug/kg	Thiodiglycol	665	U	39,100	
				OU5-CTA-1D-3815(49)SB(5-6)DUP3	7/19/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3815(49)SB(5-6)DUP3	7/19/2001	ug/kg	1,4-Dithiane	134	U	78,000	
				OU5-CTA-1D-3815(49)SB(5-6)DUP3	7/19/2001	ug/kg	1,4-Oxathiane	268	U	78,000	
				OU5-CTA-1D-3815(49)SB(5-6)DUP3	7/19/2001	ug/kg	Thiodiglycol	670	U	39,100	
CTA	1D	19R	3816 49th Street								No
				OU5-CTA-1D-3816(49)-SB(3-4)	7/19/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3816(49)-SB(3-4)	7/19/2001	ug/kg	1,4-Dithiane	112	UJ	78,000	
				OU5-CTA-1D-3816(49)-SB(3-4)	7/19/2001	ug/kg	1,4-Oxathiane	224	UJ	78,000	
				OU5-CTA-1D-3816(49)-SB(3-4)	7/19/2001	ug/kg	Thiodiglycol	559	U	39,100	
CTA	1D	19R	3819 49th Street								No
				OU5-CTA-1D-3819(49)-SB(8-9)	6/25/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3819(49)-SB(8-9)	6/25/2001	ug/kg	1,4-Dithiane	116	UL	78,000	
				OU5-CTA-1D-3819(49)-SB(8-9)	6/25/2001	ug/kg	1,4-Oxathiane	232	U	78,000	
				OU5-CTA-1D-3819(49)-SB(8-9)	6/25/2001	ug/kg	Thiodiglycol	579	U	39,100	
CTA	1C	7R	3822 Fordham Road								No
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	1,4-Oxathiane	222	U	78,000	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	Thiodiglycol	556	U	39,100	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1C-3822FR-SB(2-3)	8/21/2001	mg/kg	Cyanide, Total	0.17	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CTA	1D	7R	3823 Fordham Road								No
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	1,4-Dithiane	111	UL	78,000	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	1,4-Oxathiane	222	U	78,000	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	Thiodiglycol	554	U	39,100	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	2,4-Dinitrotoluene	100	UL	16,000	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	2,6-Dinitrotoluene	100	UL	7,800	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	2,4,6-Trinitrotoluen	100	UL	21,000	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	Nitrobenzene	100	UL	3,900	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	Nitroglycerine	10000	UL	46,000	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	ug/kg	Tetryl	200	UL	78,000	
				OU5-CTA-1D-3823FR-SB(4-5)	6/7/2001	mg/kg	Cyanide, Total	0.25	U	160	
CTA	1B	39	3838 52nd Street								No
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	1,4-Dithiane	116	UL	78,000	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	1,4-Oxathiane	232	U	78,000	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	Thiodiglycol	579	U	39,100	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	Nitroglycerine	2500	UJ	46,000	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1B-3838(52)-SB(9-10)	6/22/2001	mg/kg	Cyanide, Total	0.28	U	160	
CSA	10		3880 University Avenue								No
				OU5-CSA-10-3880UA-SB(6.5-7.5)	7/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-3880UA-SB(6.5-7.5)	7/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-3880UA-SB(6.5-7.5)	7/26/2001	ug/kg	1,4-Dithiane	122	U	78,000	
				OU5-CSA-10-3880UA-SB(6.5-7.5)	7/26/2001	ug/kg	1,4-Oxathiane	243	U	78,000	
				OU5-CSA-10-3880UA-SB(6.5-7.5)	7/26/2001	ug/kg	Thiodiglycol	608	U	39,100	
				OU5-CSA-10-3880UA-SB(6.5-7.5)	7/26/2001	mg/kg	Cyanide, Total	0.19	U	160	
CTA	1D	19R	3900 49th Street								No
				OU5-CTA-1D-3900(49)-SB(8-9)	6/25/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3900(49)-SB(8-9)	6/25/2001	ug/kg	1,4-Dithiane	120	UL	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU5-CTA-1D-3900(49)-SB(8-9)	6/25/2001	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU5-CTA-1D-3900(49)-SB(8-9)	6/25/2001	ug/kg	Thiodiglycol	602 U	39,100	
CSA	7		3900 Nebraska Avenue, Lot 1							No
				OU5-CSA-7-L1-SB(3.5-4.5)	8/27/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-7-L1-SB(3.5-4.5)	8/27/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-7-L1-SB(3.5-4.5)	8/27/2001	ug/kg	1,4-Dithiane	147 U	78,000	
				OU5-CSA-7-L1-SB(3.5-4.5)	8/27/2001	ug/kg	1,4-Oxathiane	295 U	78,000	
				OU5-CSA-7-L1-SB(3.5-4.5)	8/27/2001	ug/kg	Thiodiglycol	737 U	39,100	
				OU5-CSA-7-L1-SB(3.5-4.5)	8/27/2001	mg/kg	Cyanide, Total	0.22 U	160	
CSA	7		3900 Nebraska Avenue, Lot 2							No
				OU5-CSA-7-L2-SBA(6-7)	8/27/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-7-L2-SBA(6-7)	8/27/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-7-L2-SBA(6-7)	8/27/2001	ug/kg	1,4-Dithiane	128 U	78,000	
				OU5-CSA-7-L2-SBA(6-7)	8/27/2001	ug/kg	1,4-Oxathiane	255 U	78,000	
				OU5-CSA-7-L2-SBA(6-7)	8/27/2001	ug/kg	Thiodiglycol	638 U	39,100	
				OU5-CSA-7-L2-SBA(6-7)	8/27/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-7-L2-SBB(3-4)	8/27/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-7-L2-SBB(3-4)	8/27/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-7-L2-SBB(3-4)	8/27/2001	ug/kg	1,4-Dithiane	123 U	78,000	
				OU5-CSA-7-L2-SBB(3-4)	8/27/2001	ug/kg	1,4-Oxathiane	246 U	78,000	
				OU5-CSA-7-L2-SBB(3-4)	8/27/2001	ug/kg	Thiodiglycol	616 U	39,100	
				OU5-CSA-7-L2-SBB(3-4)	8/27/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-7-L2-SBC(5.5-6.5)	8/27/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-7-L2-SBC(5.5-6.5)	8/27/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-7-L2-SBC(5.5-6.5)	8/27/2001	ug/kg	1,4-Dithiane	127 U	78,000	
				OU5-CSA-7-L2-SBC(5.5-6.5)	8/27/2001	ug/kg	1,4-Oxathiane	253 U	78,000	
				OU5-CSA-7-L2-SBC(5.5-6.5)	8/27/2001	ug/kg	Thiodiglycol	633 U	39,100	
				OU5-CSA-7-L2-SBC(5.5-6.5)	8/27/2001	mg/kg	Cyanide, Total	0.2 U	160	
CSA	7		3900 Nebraska Avenue, Lot 7							No
				OU5-CSA-7-L7-SB(4-5)	8/27/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-7-L7-SB(4-5)	8/27/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-7-L7-SB(4-5)	8/27/2001	ug/kg	1,4-Dithiane	118 U	78,000	
				OU5-CSA-7-L7-SB(4-5)	8/27/2001	ug/kg	1,4-Oxathiane	237 U	78,000	
				OU5-CSA-7-L7-SB(4-5)	8/27/2001	ug/kg	Thiodiglycol	591 U	39,100	
				OU5-CSA-7-L7-SB(4-5)	8/27/2001	mg/kg	Cyanide, Total	0.2 U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
CSA	4		3900 University Avenue							No
				OU5-CSA-4-3900UA-SB(5.5-6.5)	8/6/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-4-3900UA-SB(5.5-6.5)	8/6/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-4-3900UA-SB(5.5-6.5)	8/6/2001	ug/kg	1,4-Dithiane	119 U	78,000	
				OU5-CSA-4-3900UA-SB(5.5-6.5)	8/6/2001	ug/kg	1,4-Oxathiane	237 U	78,000	
				OU5-CSA-4-3900UA-SB(5.5-6.5)	8/6/2001	ug/kg	Thiodiglycol	594 U	39,100	
				OU5-CSA-4-3900UA-SB(5.5-6.5)	8/6/2001	mg/kg	Cyanide, Total	0.2 U	160	
CSA	8		3901 45th Street							No
				OU5-CSA-8-3901(45)-SB(8.5-9.5)	8/8/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-8-3901(45)-SB(8.5-9.5)	8/8/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-8-3901(45)-SB(8.5-9.5)	8/8/2001	ug/kg	1,4-Dithiane	122 U	78,000	
				OU5-CSA-8-3901(45)-SB(8.5-9.5)	8/8/2001	ug/kg	1,4-Oxathiane	244 U	78,000	
				OU5-CSA-8-3901(45)-SB(8.5-9.5)	8/8/2001	ug/kg	Thiodiglycol	611 U	39,100	
				OU5-CSA-8-3901(45)-SB(8.5-9.5)	8/8/2001	mg/kg	Cyanide, Total	0.17 U	160	
CTA	1D	7R	3901 Fordham Road							No
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	1,4-Dithiane	140.6 U	78,000	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	1,4-Oxathiane	281.3 U	78,000	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	Thiodiglycol	704 U	39,100	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	2,4-Dinitrotoluene	100 U	16,000	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	2,6-Dinitrotoluene	100 U	7,800	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	2,4,6-Trinitrotoluen	100 U	21,000	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	Nitrobenzene	100 U	3,900	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	Nitroglycerine	13000 U	46,000	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	ug/kg	Tetryl	100 U	78,000	
				OU5-CTA-1D-3901FR-SB(6.5-7.5)	12/3/2001	mg/kg	Cyanide, Total	0.227 U	160	
CSA	8		3910 44th Street							No
				OU5-CSA-8-3910(44)-SB(9-10)	12/3/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-8-3910(44)-SB(9-10)	12/3/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-8-3910(44)-SB(9-10)	12/3/2001	ug/kg	1,4-Dithiane	121.4 U	78,000	
				OU5-CSA-8-3910(44)-SB(9-10)	12/3/2001	ug/kg	1,4-Oxathiane	242.7 U	78,000	
				OU5-CSA-8-3910(44)-SB(9-10)	12/3/2001	ug/kg	Thiodiglycol	607 U	39,100	
				OU5-CSA-8-3910(44)-SB(9-10)	12/3/2001	mg/kg	Cyanide, Total	0.176 U	160	
				OU5-CSA-8-3910(44)-SB-DUP10	12/3/2001	mg/kg	Cyanide, Total	0.16 U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CSA	4		3915 48th Street								No
				OU5-CSA-4-3915(48)-SB(9-10)	8/8/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-4-3915(48)-SB(9-10)	8/8/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-4-3915(48)-SB(9-10)	8/8/2001	ug/kg	1,4-Dithiane	113	U	78,000	
				OU5-CSA-4-3915(48)-SB(9-10)	8/8/2001	ug/kg	1,4-Oxathiane	226	U	78,000	
				OU5-CSA-4-3915(48)-SB(9-10)	8/8/2001	ug/kg	Thiodiglycol	564	U	39,100	
				OU5-CSA-4-3915(48)-SB(9-10)	8/8/2001	mg/kg	Cyanide, Total	0.18	U	160	
CTA	1D	7R	3933 Fordham Road								No
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	1,4-Dithiane	107	UL	78,000	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	1,4-Oxathiane	215	U	78,000	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	Thiodiglycol	536	U	39,100	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1D-3933FR-SB(4.5-5.5)	7/5/2001	mg/kg	Cyanide, Total	0.24	U	160	
CTA	1C	7R	3940 Fordham Road								No
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	1,4-Dithiane	115	U	78,000	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	1,4-Oxathiane	230	U	78,000	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	Thiodiglycol	575	U	39,100	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	Nitrobenzene	100	UL	3,900	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1C-3940FR-SB(9-10)	7/24/2001	mg/kg	Cyanide, Total	0.2		160	
				OU5-CTA-1C-3940FR-SB-DUP01	7/24/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1C-3940FR-SB-DUP01	7/24/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1C-3940FR-SB-DUP01	7/24/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CTA-1C-3940FR-SB-DUP01	7/24/2001	ug/kg	Nitrobenzene	100	UL	3,900	
				OU5-CTA-1C-3940FR-SB-DUP01	7/24/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1C-3940FR-SB-DUP01	7/24/2001	ug/kg	Tetryl	100	U	78,000	
CSA	**7**		**4000 Nebraska Avenue, Lot 25**								**Yes**
				OU5-CSA-7-L25-SB(1-2)	2/13/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-7-L25-SB(1-2)	2/13/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-7-L25-SB(1-2)	2/13/2002	ug/kg	1,4-Dithiane	120	U	78,000	
				OU5-CSA-7-L25-SB(1-2)	2/13/2002	ug/kg	1,4-Oxathiane	250	U	78,000	
				OU5-CSA-7-L25-SB(1-2)	2/13/2002	ug/kg	Thiodiglycol	620	U	39,100	
				OU5-CSA-7-L25-SB(1-2)	2/13/2002	mg/kg	Cyanide, Total	0.198	U	160	
CSA	**4**		**4004 47th Street**								**No**
				OU5-CSA-4-4004(47)-SB(1-2)	1/8/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-4-4004(47)-SB(1-2)	1/8/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-4-4004(47)-SB(1-2)	1/8/2002	ug/kg	1,4-Dithiane	120.2	U	78,000	
				OU5-CSA-4-4004(47)-SB(1-2)	1/8/2002	ug/kg	1,4-Oxathiane	240.4	UJ	78,000	
				OU5-CSA-4-4004(47)-SB(1-2)	1/8/2002	ug/kg	Thiodiglycol	600	U	39,100	
				OU5-CSA-4-4004(47)-SB(1-2)	1/8/2002	mg/kg	Cyanide, Total	0.186	U	160	
CSA	**4**		**4007 49th Street**								**Yes**
				OU5-CSA-4-4007(49)-2-A	6/10/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-4-4007(49)-2-A	6/10/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-4-4007(49)-2-A	6/10/2002	ug/kg	1,4-Dithiane	120	U	78,000	
				OU5-CSA-4-4007(49)-2-A	6/10/2002	ug/kg	1,4-Oxathiane	240	U	78,000	
				OU5-CSA-4-4007(49)-2-A	6/10/2002	ug/kg	Thiodiglycol	610	U	39,100	
				OU5-CSA-4-4007(49)-2-A	6/10/2002	mg/kg	Cyanide, Total	0.2	U	160	
				OU5-CSA-4-4007(49)-SB(4-5)	9/24/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-4-4007(49)-SB(4-5)	9/24/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-4-4007(49)-SB(4-5)	9/24/2001	ug/kg	1,4-Dithiane	124	U	78,000	
				OU5-CSA-4-4007(49)-SB(4-5)	9/24/2001	ug/kg	1,4-Oxathiane	248	U	78,000	
				OU5-CSA-4-4007(49)-SB(4-5)	9/24/2001	ug/kg	Thiodiglycol	619	U	39,100	
				OU5-CSA-4-4007(49)-SB(4-5)	9/24/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	**7**		**4010 Van Ness Street**								**No**
				OU5-CSA-7-4010VNS-SB(3.5-4.5)	7/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-7-4010VNS-SB(3.5-4.5)	7/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-7-4010VNS-SB(3.5-4.5)	7/26/2001	ug/kg	1,4-Dithiane	118	U	78,000	
				OU5-CSA-7-4010VNS-SB(3.5-4.5)	7/26/2001	ug/kg	1,4-Oxathiane	235	U	78,000	
				OU5-CSA-7-4010VNS-SB(3.5-4.5)	7/26/2001	ug/kg	Thiodiglycol	588	U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-7-4010VNS-SB(3.5-4.5)	7/26/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	4		4012 47th Street								Yes
				OU5-CSA-4-4012(47)-SB(2.5-3.5)	2/4/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-4-4012(47)-SB(2.5-3.5)	2/4/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-4-4012(47)-SB(2.5-3.5)	2/4/2002	ug/kg	1,4-Dithiane	117.2	U	78,000	
				OU5-CSA-4-4012(47)-SB(2.5-3.5)	2/4/2002	ug/kg	1,4-Oxathiane	234.5	U	78,000	
				OU5-CSA-4-4012(47)-SB(2.5-3.5)	2/4/2002	ug/kg	Thiodiglycol	590	U	39,100	
				OU5-CSA-4-4012(47)-SB(2.5-3.5)	2/4/2002	mg/kg	Cyanide, Total	0.186	U	160	
CTA	1C	16R	4020 Fordham Road								No
				OU5-CTA-1C-4020FR-SB-(2.5-3.5)	7/31/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1C-4020FR-SB-(2.5-3.5)	7/31/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1C-4020FR-SB-(2.5-3.5)	7/31/2001	ug/kg	1,4-Dithiane	108	U	78,000	
				OU5-CTA-1C-4020FR-SB-(2.5-3.5)	7/31/2001	ug/kg	1,4-Oxathiane	216	UL	78,000	
				OU5-CTA-1C-4020FR-SB-(2.5-3.5)	7/31/2001	ug/kg	Thiodiglycol	541	U	39,100	
				OU5-CTA-1C-4020FR-SB-(2.5-3.5)	7/31/2001	mg/kg	Cyanide, Total	0.17	U	160	
CTA	1D	16R	4021 Fordham Road								No
				OU5-CTA-1D-4021FR-SB(4-5)	7/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-4021FR-SB(4-5)	7/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4021FR-SB(4-5)	7/30/2001	ug/kg	1,4-Dithiane	110	U	78,000	
				OU5-CTA-1D-4021FR-SB(4-5)	7/30/2001	ug/kg	1,4-Oxathiane	220	U	78,000	
				OU5-CTA-1D-4021FR-SB(4-5)	7/30/2001	ug/kg	Thiodiglycol	549	U	39,100	
				OU5-CTA-1D-4021FR-SB(4-5)	7/30/2001	mg/kg	Cyanide, Total	0.18	U	160	
				OU5-CTA-1D-4021FR-SB-DUP04	7/30/2001	ug/kg	Sulfur Mustard	40	U	10	
CTA	1B	39	4040 52nd Street								No
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	1,4-Dithiane	114	UJ	78,000	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	1,4-Oxathiane	229	UJ	78,000	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	Thiodiglycol	571	U	39,100	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	2,4-Dinitrotoluene	100	UJ	16,000	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	2,6-Dinitrotoluene	100	UJ	7,800	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	2,4,6-Trinitrotoluen	100	UJ	21,000	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	Nitrobenzene	100	UJ	3,900	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	Nitroglycerine	2500	UJ	46,000	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	ug/kg	Tetryl	100	UJ	78,000	
				OU5-CTA-1B-4040(52)-SB(2.5-3.5)	10/23/2001	mg/kg	Cyanide, Total	0.165	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CTA	1B	39	4050 52nd Street								No
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	1,4-Dithiane	106	U	78,000	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	1,4-Oxathiane	213	U	78,000	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	Thiodiglycol	532	U	39,100	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	Nitrobenzene	100	UL	3,900	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1B-4050(52)-SB(1-2)	7/19/2001	mg/kg	Cyanide, Total	0.21	U	160	
				OU5-CTA-1B-4050(52)-SB-DUP02	7/19/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1B-4050(52)-SB-DUP02	7/19/2001	mg/kg	Cyanide, Total	0.2	U	160	
CTA	1B	39	4054 52nd Terrace								No
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	1,4-Dithiane	109	U	78,000	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	1,4-Oxathiane	219	U	78,000	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	Thiodiglycol	547	U	39,100	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1B-4054(52T)-SB(5-6)	8/2/2001	mg/kg	Cyanide, Total	0.18	U	160	
				OU5-CTA-1B-4054(52T)-SB-DUP02	8/2/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1B-4054(52T)-SB-DUP02	8/2/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-4054(52T)-SB-DUP02	8/2/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-4054(52T)-SB-DUP02	8/2/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1B-4054(52T)-SB-DUP02	8/2/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1B-4054(52T)-SB-DUP02	8/2/2001	ug/kg	Tetryl	100	U	78,000	
CTA	1B	39	4055 52nd Terrace								No
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	CVAA/CVAO	40	U	890	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	1,4-Dithiane	110	UL	78,000	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	1,4-Oxathiane	221	U	78,000	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	Thiodiglycol	552	U	39,100	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	2,4-Dinitrotoluene	100	UL	16,000	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	Nitroglycerine	10000	U	46,000	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	ug/kg	Tetryl	200	U	78,000	
				OU5-CTA-1B-4055(52T)-SB(6-7)	6/7/2001	mg/kg	Cyanide, Total	0.26	U	160	
CTA	1B	39	4060 52nd Terrace								No
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	1,4-Dithiane	112	U	78,000	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	1,4-Oxathiane	224	U	78,000	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	Thiodiglycol	561	U	39,100	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1B-4060(52T)-SB-(8.5-9.5)	8/2/2001	mg/kg	Cyanide, Total	0.17	U	160	
				OU5-CTA-1B-4060(52T)-SB-DUP04	8/2/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CTA-1B-4060(52T)-SB-DUP04	8/2/2001	ug/kg	1,4-Oxathiane	222	U	78,000	
				OU5-CTA-1B-4060(52T)-SB-DUP04	8/2/2001	ug/kg	Thiodiglycol	556	U	39,100	
CTA	1B	39	4070 52nd Street								No
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	1,4-Dithiane	107	U	78,000	
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	1,4-Oxathiane	214	U	78,000	
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	Thiodiglycol	535	U	39,100	
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	2,4-Dinitrotoluene	100	UJ	16,000	
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	2,6-Dinitrotoluene	100	UJ	7,800	
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	2,4,6-Trinitrotoluen	100	UJ	21,000	
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	Nitrobenzene	100	UJ	3,900	
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	Nitroglycerine	2500	UJ	46,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	ug/kg	Tetryl	100	UJ	78,000	
				OU5-CTA-1B-4070(52)-SB(4.5-5.5)	10/23/2001	mg/kg	Cyanide, Total	0.174	U	160	
				OU5-CTA-1B-4070(52)-SB-DUP11	10/23/2001	ug/kg	1,4-Dithiane	106	U	78,000	
				OU5-CTA-1B-4070(52)-SB-DUP11	10/23/2001	ug/kg	1,4-Oxathiane	213	U	78,000	
				OU5-CTA-1B-4070(52)-SB-DUP11	10/23/2001	ug/kg	Thiodiglycol	532	U	39,100	
CTA	***1D***	***16R***	***4101 Fordham Road***								***No***
				OU5-CTA-1D-4101FR-SB-(4-5)	6/13/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-4101FR-SB-(4-5)	6/13/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4101FR-SB-(4-5)	6/13/2001	ug/kg	1,4-Dithiane	113	U	78,000	
				OU5-CTA-1D-4101FR-SB-(4-5)	6/13/2001	ug/kg	1,4-Oxathiane	227	UL	78,000	
				OU5-CTA-1D-4101FR-SB-(4-5)	6/13/2001	ug/kg	Thiodiglycol	567	U	39,100	
				OU5-CTA-1D-4101FR-SB-(4-5)	6/13/2001	mg/kg	Cyanide, Total	0.26	U	160	
				OU5-CTA-1D-4101FR-SB-DUP01	6/13/2001	mg/kg	Cyanide, Total	0.26	U	160	
CSA	***3***		***4105 49th Street***								***No***
				OU5-CSA-3-4105(49)-SB(7-8)	7/25/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-3-4105(49)-SB(7-8)	7/25/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-3-4105(49)-SB(7-8)	7/25/2001	ug/kg	1,4-Dithiane	124	U	78,000	
				OU5-CSA-3-4105(49)-SB(7-8)	7/25/2001	ug/kg	1,4-Oxathiane	247	U	78,000	
				OU5-CSA-3-4105(49)-SB(7-8)	7/25/2001	ug/kg	Thiodiglycol	618	U	39,100	
				OU5-CSA-3-4105(49)-SB(7-8)	7/25/2001	mg/kg	Cyanide, Total	0.2		160	
CTA	***1D***	***16R***	***4107 Fordham Road***								***No***
				OU5-CTA-1D-4107FR-SB(3-4)	7/11/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-4107FR-SB(3-4)	7/11/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4107FR-SB(3-4)	7/11/2001	ug/kg	1,4-Dithiane	115	UL	78,000	
				OU5-CTA-1D-4107FR-SB(3-4)	7/11/2001	ug/kg	1,4-Oxathiane	230	U	78,000	
				OU5-CTA-1D-4107FR-SB(3-4)	7/11/2001	ug/kg	Thiodiglycol	576	U	39,100	
				OU5-CTA-1D-4107FR-SB(3-4)	7/11/2001	mg/kg	Cyanide, Total	0.28	U	160	
CSA	***5***		***4115 45th Street***								***Yes***
				OU5-CSA-5-4115(45)-SB(9-10)	12/10/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-4115(45)-SB(9-10)	12/10/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-4115(45)-SB(9-10)	12/10/2001	ug/kg	1,4-Dithiane	125	U	78,000	
				OU5-CSA-5-4115(45)-SB(9-10)	12/10/2001	ug/kg	1,4-Oxathiane	250	U	78,000	
				OU5-CSA-5-4115(45)-SB(9-10)	12/10/2001	ug/kg	Thiodiglycol	630	U	39,100	
				OU5-CSA-5-4115(45)-SB(9-10)	12/10/2001	mg/kg	Cyanide, Total	0.174	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CSA	7		4120 Van Ness Street, Lot 41								No
				OU5-CSA-7-L41-SB(9-10)	8/14/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-7-L41-SB(9-10)	8/14/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-7-L41-SB(9-10)	8/14/2001	ug/kg	1,4-Dithiane	114	U	78,000	
				OU5-CSA-7-L41-SB(9-10)	8/14/2001	ug/kg	1,4-Oxathiane	228	U	78,000	
				OU5-CSA-7-L41-SB(9-10)	8/14/2001	ug/kg	Thiodiglycol	571	U	39,100	
				OU5-CSA-7-L41-SB(9-10)	8/14/2001	mg/kg	Cyanide, Total	0.17	U	160	
CTA	1A	16R	4200 Fordham Road								No
				OU5-CTA-1A-4200FR-SB-5	6/7/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4200FR-SB-5	6/7/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4200FR-SB-5	6/7/2001	ug/kg	1,4-Dithiane	115	UL	78,000	
				OU5-CTA-1A-4200FR-SB-5	6/7/2001	ug/kg	1,4-Oxathiane	229	U	78,000	
				OU5-CTA-1A-4200FR-SB-5	6/7/2001	ug/kg	Thiodiglycol	573	U	39,100	
				OU5-CTA-1A-4200FR-SB-5	6/7/2001	mg/kg	Cyanide, Total	0.27	U	160	
CTA	1A	16R	4201 Fordham Road								No
				OU5-CTA-1A-4201FR-SB(5-6)	6/25/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4201FR-SB(5-6)	6/25/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4201FR-SB(5-6)	6/25/2001	ug/kg	1,4-Dithiane	110	UL	78,000	
				OU5-CTA-1A-4201FR-SB(5-6)	6/25/2001	ug/kg	1,4-Oxathiane	221	U	78,000	
				OU5-CTA-1A-4201FR-SB(5-6)	6/25/2001	ug/kg	Thiodiglycol	551	U	39,100	
				OU5-CTA-1A-4201FR-SB(5-6)	6/25/2001	mg/kg	Cyanide, Total	0.26	U	160	
CTA	1A	16R	4208 50th Street								No
				OU5-CTA-1A-4208(50)-SB(8-9)	6/21/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4208(50)-SB(8-9)	6/21/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4208(50)-SB(8-9)	6/21/2001	ug/kg	1,4-Dithiane	112	UL	78,000	
				OU5-CTA-1A-4208(50)-SB(8-9)	6/21/2001	ug/kg	1,4-Oxathiane	224	U	78,000	
				OU5-CTA-1A-4208(50)-SB(8-9)	6/21/2001	ug/kg	Thiodiglycol	561	U	39,100	
				OU5-CTA-1A-4208(50)-SB(8-9)	6/21/2001	mg/kg	Cyanide, Total	0.24	U	160	
CTA	1A	16R	4209 50th Street								No
				OU5-CTA-1A-4209(50)-SB(5-6)	7/9/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4209(50)-SB(5-6)	7/9/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4209(50)-SB(5-6)	7/9/2001	ug/kg	1,4-Dithiane	110	UL	78,000	
				OU5-CTA-1A-4209(50)-SB(5-6)	7/9/2001	ug/kg	1,4-Oxathiane	221	U	78,000	
				OU5-CTA-1A-4209(50)-SB(5-6)	7/9/2001	ug/kg	Thiodiglycol	551	U	39,100	
				OU5-CTA-1A-4209(50)-SB(5-6)	7/9/2001	mg/kg	Cyanide, Total	0.25	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CTA	1A	16R	4210 Fordham Road								No
				OU5-CTA-1A-4210FR-SB-(5-6)	6/13/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4210FR-SB-(5-6)	6/13/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4210FR-SB-(5-6)	6/13/2001	ug/kg	1,4-Dithiane	108	UL	78,000	
				OU5-CTA-1A-4210FR-SB-(5-6)	6/13/2001	ug/kg	1,4-Oxathiane	216	UL	78,000	
				OU5-CTA-1A-4210FR-SB-(5-6)	6/13/2001	ug/kg	Thiodiglycol	539	U	39,100	
				OU5-CTA-1A-4210FR-SB-(5-6)	6/13/2001	mg/kg	Cyanide, Total	0.26	U	160	
				OU5-CTA-1A-4210FR-SB-DUP01	6/13/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4210FR-SB-DUP01	6/13/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4210FR-SB-DUP01	6/13/2001	ug/kg	1,4-Dithiane	108	UL	78,000	
				OU5-CTA-1A-4210FR-SB-DUP01	6/13/2001	ug/kg	1,4-Oxathiane	216	UL	78,000	
				OU5-CTA-1A-4210FR-SB-DUP01	6/13/2001	ug/kg	Thiodiglycol	541	U	39,100	
CTA	1A	16R	4214 50th Street								No
				OU5-CTA-1A-4214(50)-SB(5-6)	6/14/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4214(50)-SB(5-6)	6/14/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4214(50)-SB(5-6)	6/14/2001	ug/kg	1,4-Dithiane	116	UL	78,000	
				OU5-CTA-1A-4214(50)-SB(5-6)	6/14/2001	ug/kg	1,4-Oxathiane	231	U	78,000	
				OU5-CTA-1A-4214(50)-SB(5-6)	6/14/2001	ug/kg	Thiodiglycol	578	U	39,100	
				OU5-CTA-1A-4214(50)-SB(5-6)	6/14/2001	mg/kg	Cyanide, Total	0.25	U	160	
CTA	1A	16R	4219 50th Street								No
				OU5-CTA-1A-4219(50)-SB(4-5)	7/9/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4219(50)-SB(4-5)	7/9/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4219(50)-SB(4-5)	7/9/2001	ug/kg	1,4-Dithiane	112	UL	78,000	
				OU5-CTA-1A-4219(50)-SB(4-5)	7/9/2001	ug/kg	1,4-Oxathiane	223	U	78,000	
				OU5-CTA-1A-4219(50)-SB(4-5)	7/9/2001	ug/kg	Thiodiglycol	559	U	39,100	
				OU5-CTA-1A-4219(50)-SB(4-5)	7/9/2001	mg/kg	Cyanide, Total	0.25	U	160	
CTA	1A	16R	4220 50th Street								No
				OU5-CTA-1A-4220(50)-SB(8.5-9.5)	12/3/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4220(50)-SB(8.5-9.5)	12/3/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4220(50)-SB(8.5-9.5)	12/3/2001	ug/kg	1,4-Dithiane	110.6	U	78,000	
				OU5-CTA-1A-4220(50)-SB(8.5-9.5)	12/3/2001	ug/kg	1,4-Oxathiane	221.2	U	78,000	
				OU5-CTA-1A-4220(50)-SB(8.5-9.5)	12/3/2001	ug/kg	Thiodiglycol	553	U	39,100	
				OU5-CTA-1A-4220(50)-SB(8.5-9.5)	12/3/2001	mg/kg	Cyanide, Total	0.181	U	160	
				OU5-CTA-1A-4220(50)-SB-DUP10	12/3/2001	ug/kg	CVAA/CVAO	40	U	890	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
CTA	1A	16R	4220 Fordham Road							No
				OU5-CTA-1A-4220FR-SB(5-6)	6/22/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1A-4220FR-SB(5-6)	6/22/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1A-4220FR-SB(5-6)	6/22/2001	ug/kg	1,4-Dithiane	112 UL	78,000	
				OU5-CTA-1A-4220FR-SB(5-6)	6/22/2001	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU5-CTA-1A-4220FR-SB(5-6)	6/22/2001	ug/kg	Thiodiglycol	562 U	39,100	
				OU5-CTA-1A-4220FR-SB(5-6)	6/22/2001	mg/kg	Cyanide, Total	0.22 U	160	
CSA	6		4221 43rd Street							No
				OU5-CSA-6-4221(43)-SB(3.5-4.5)	7/2/2002	ug/kg	CVAA/CVAO	40 U \2	890	
				OU5-CSA-6-4221(43)-SB(3.5-4.5)	7/2/2002	ug/kg	Sulfur Mustard	40 U \2	10	
				OU5-CSA-6-4221(43)-SB(3.5-4.5)	7/2/2002	ug/kg	1,4-Dithiane	120 U \2	78,000	
				OU5-CSA-6-4221(43)-SB(3.5-4.5)	7/2/2002	ug/kg	1,4-Oxathiane	250 U \2	78,000	
				OU5-CSA-6-4221(43)-SB(3.5-4.5)	7/2/2002	ug/kg	Thiodiglycol	610 U \2	39,100	
				OU5-CSA-6-4221(43)-SB(3.5-4.5)	7/2/2002	mg/kg	Cyanide, Total	0.19 U \2	160	
CSA	6		4225 43rd Street							No
				OU5-CSA-6-4225(43)-SB(9-10)	9/5/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4225(43)-SB(9-10)	9/5/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4225(43)-SB(9-10)	9/5/2001	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-6-4225(43)-SB(9-10)	9/5/2001	ug/kg	1,4-Oxathiane	239 UJ	78,000	
				OU5-CSA-6-4225(43)-SB(9-10)	9/5/2001	ug/kg	Thiodiglycol	598 U	39,100	
				OU5-CSA-6-4225(43)-SB(9-10)	9/5/2001	mg/kg	Cyanide, Total	0.2 U	160	
CTA	1A	16R	4225 50th Street							No
				OU5-CTA-1A-4225(50)-SB(3-4)	7/9/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1A-4225(50)-SB(3-4)	7/9/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1A-4225(50)-SB(3-4)	7/9/2001	ug/kg	1,4-Dithiane	113 UL	78,000	
				OU5-CTA-1A-4225(50)-SB(3-4)	7/9/2001	ug/kg	1,4-Oxathiane	226 U	78,000	
				OU5-CTA-1A-4225(50)-SB(3-4)	7/9/2001	ug/kg	Thiodiglycol	566 U	39,100	
				OU5-CTA-1A-4225(50)-SB(3-4)	7/9/2001	mg/kg	Cyanide, Total	0.28 U	160	
CTA	1A	16R	4226 50th Street							No
				OU5-CTA-1A-4226(50)-SB(5-6)	6/25/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1A-4226(50)-SB(5-6)	6/25/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1A-4226(50)-SB(5-6)	6/25/2001	ug/kg	1,4-Dithiane	115 UL	78,000	
				OU5-CTA-1A-4226(50)-SB(5-6)	6/25/2001	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU5-CTA-1A-4226(50)-SB(5-6)	6/25/2001	ug/kg	Thiodiglycol	573 U	39,100	
				OU5-CTA-1A-4226(50)-SB(5-6)	6/25/2001	mg/kg	Cyanide, Total	0.27 U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CTA	1A	16R	4230 Fordham Road								No
				OU5-CTA-1A-4230FR-SB(4-5)	6/25/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4230FR-SB(4-5)	6/25/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4230FR-SB(4-5)	6/25/2001	ug/kg	1,4-Dithiane	118	UL	78,000	
				OU5-CTA-1A-4230FR-SB(4-5)	6/25/2001	ug/kg	1,4-Oxathiane	235	U	78,000	
				OU5-CTA-1A-4230FR-SB(4-5)	6/25/2001	ug/kg	Thiodiglycol	588	U	39,100	
				OU5-CTA-1A-4230FR-SB(4-5)	6/25/2001	mg/kg	Cyanide, Total	0.27	U	160	
CTA	1A	16R	4232 50th Street								No
				OU5-CTA-1A-4232(50)-SB(7-8)	7/5/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4232(50)-SB(7-8)	7/5/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4232(50)-SB(7-8)	7/5/2001	ug/kg	1,4-Dithiane	115	UL	78,000	
				OU5-CTA-1A-4232(50)-SB(7-8)	7/5/2001	ug/kg	1,4-Oxathiane	229	U	78,000	
				OU5-CTA-1A-4232(50)-SB(7-8)	7/5/2001	ug/kg	Thiodiglycol	574	U	39,100	
				OU5-CTA-1A-4232(50)-SB(7-8)	7/5/2001	mg/kg	Cyanide, Total	0.01	U	160	
CTA	1A	16R	4238 50th Street								No
				OU5-CTA-1A-4238(50)-SB(2.5-3.5)	8/21/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4238(50)-SB(2.5-3.5)	8/21/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4238(50)-SB(2.5-3.5)	8/21/2001	ug/kg	1,4-Dithiane	107	U	78,000	
				OU5-CTA-1A-4238(50)-SB(2.5-3.5)	8/21/2001	ug/kg	1,4-Oxathiane	214	U	78,000	
				OU5-CTA-1A-4238(50)-SB(2.5-3.5)	8/21/2001	ug/kg	Thiodiglycol	535	U	39,100	
				OU5-CTA-1A-4238(50)-SB(2.5-3.5)	8/21/2001	mg/kg	Cyanide, Total	0.16	U	160	
CTA	1A	16R	4240 Fordham Road								No
				OU5-CTA-1A-4240FR-SB(0-1)	10/23/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4240FR-SB(0-1)	10/23/2001	ug/kg	1,4-Dithiane	112	U	78,000	
				OU5-CTA-1A-4240FR-SB(0-1)	10/23/2001	ug/kg	1,4-Oxathiane	224	U	78,000	
				OU5-CTA-1A-4240FR-SB(0-1)	10/23/2001	ug/kg	Thiodiglycol	559	U	39,100	
				OU5-CTA-1A-4240FR-SB(0-1)	10/23/2001	mg/kg	Cyanide, Total	0.17	U	160	
CTA	1A	16R	4244 50th Street								No
				OU5-CTA-1A-4244(50)-SB(3-4)	3/27/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4244(50)-SB(3-4)	3/27/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4244(50)-SB(3-4)	3/27/2002	ug/kg	1,4-Dithiane	110	U	78,000	
				OU5-CTA-1A-4244(50)-SB(3-4)	3/27/2002	ug/kg	1,4-Oxathiane	230	U	78,000	
				OU5-CTA-1A-4244(50)-SB(3-4)	3/27/2002	ug/kg	Thiodiglycol	570	U	39,100	
				OU5-CTA-1A-4244(50)-SB(3-4)	3/27/2002	mg/kg	Cyanide, Total	0.29	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CTA	1A	16R	4246 50th Street								No
				OU5-CTA-1A-4246(50)-SB(6-7)	6/15/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-4246(50)-SB(6-7)	6/15/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-4246(50)-SB(6-7)	6/15/2001	ug/kg	1,4-Dithiane	111	UL	78,000	
				OU5-CTA-1A-4246(50)-SB(6-7)	6/15/2001	ug/kg	1,4-Oxathiane	223	U	78,000	
				OU5-CTA-1A-4246(50)-SB(6-7)	6/15/2001	ug/kg	Thiodiglycol	557	U	39,100	
				OU5-CTA-1A-4246(50)-SB(6-7)	6/15/2001	mg/kg	Cyanide, Total	0.25	U	160	
CSA	3		4255 Fordham Road								No
				OU5-CSA-3-4255FR-SB(4-5)	9/6/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-3-4255FR-SB(4-5)	9/6/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-3-4255FR-SB(4-5)	9/6/2001	ug/kg	1,4-Dithiane	115	U	78,000	
				OU5-CSA-3-4255FR-SB(4-5)	9/6/2001	ug/kg	1,4-Oxathiane	229	U	78,000	
				OU5-CSA-3-4255FR-SB(4-5)	9/6/2001	ug/kg	Thiodiglycol	573	U	39,100	
				OU5-CSA-3-4255FR-SB(4-5)	9/6/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	6		4256 Warren Street								No
				OU5-CSA-6-4256WS-SB(3-4)	7/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-6-4256WS-SB(3-4)	7/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-6-4256WS-SB(3-4)	7/30/2001	ug/kg	1,4-Dithiane	115	U	78,000	
				OU5-CSA-6-4256WS-SB(3-4)	7/30/2001	ug/kg	1,4-Oxathiane	230	U	78,000	
				OU5-CSA-6-4256WS-SB(3-4)	7/30/2001	ug/kg	Thiodiglycol	575	U	39,100	
				OU5-CSA-6-4256WS-SB(3-4)	7/30/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	6		4300 42nd Street								No
				OU5-CSA-6-4300(42)-SB-(9-10)	7/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-6-4300(42)-SB-(9-10)	7/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-6-4300(42)-SB-(9-10)	7/30/2001	ug/kg	1,4-Dithiane	103	U	78,000	
				OU5-CSA-6-4300(42)-SB-(9-10)	7/30/2001	ug/kg	1,4-Oxathiane	205	U	78,000	
				OU5-CSA-6-4300(42)-SB-(9-10)	7/30/2001	ug/kg	Thiodiglycol	514	U	39,100	
				OU5-CSA-6-4300(42)-SB-(9-10)	7/30/2001	mg/kg	Cyanide, Total	0.16	U	160	
				OU5-CSA-6-4300(42)-SB-DUP03	7/30/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	7		4300 Van Ness Street								No
				OU5-CSA-7-4300VNS-SB(5.5-6.5)	10/9/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-7-4300VNS-SB(5.5-6.5)	10/9/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-7-4300VNS-SB(5.5-6.5)	10/9/2001	ug/kg	1,4-Dithiane	113	U	78,000	
				OU5-CSA-7-4300VNS-SB(5.5-6.5)	10/9/2001	ug/kg	1,4-Oxathiane	226	U	78,000	
				OU5-CSA-7-4300VNS-SB(5.5-6.5)	10/9/2001	ug/kg	Thiodiglycol	565	U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU5-CSA-7-4300VNS-SB(5.5-6.5)	10/9/2001	mg/kg	Cyanide, Total	0.2 U	160	
CSA	6		4301 Warren Street							No
				OU5-CSA-6-4301WS-SB(6-7)	3/26/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4301WS-SB(6-7)	3/26/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4301WS-SB(6-7)	3/26/2002	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-6-4301WS-SB(6-7)	3/26/2002	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU5-CSA-6-4301WS-SB(6-7)	3/26/2002	ug/kg	Thiodiglycol	590 U	39,100	
				OU5-CSA-6-4301WS-SB(6-7)	3/26/2002	mg/kg	Cyanide, Total	0.29 U	160	
CSA	7		4304 Van Ness Street							No
				OU5-CSA-7-4304VNS-SB(4.5-5.5)	10/9/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-7-4304VNS-SB(4.5-5.5)	10/9/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-7-4304VNS-SB(4.5-5.5)	10/9/2001	ug/kg	1,4-Dithiane	136 U	78,000	
				OU5-CSA-7-4304VNS-SB(4.5-5.5)	10/9/2001	ug/kg	1,4-Oxathiane	272 U	78,000	
				OU5-CSA-7-4304VNS-SB(4.5-5.5)	10/9/2001	ug/kg	Thiodiglycol	679 U	39,100	
				OU5-CSA-7-4304VNS-SB(4.5-5.5)	10/9/2001	mg/kg	Cyanide, Total	0.24 U	160	
				OU5-CSA-7-4304VNS-SB-DUP09	10/9/2001	mg/kg	Cyanide, Total	0.24 U	160	
CSA	6		4305 Warren Street							No
				OU5-CSA-6-4305WS-SB(8.5-9.5)	8/7/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4305WS-SB(8.5-9.5)	8/7/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4305WS-SB(8.5-9.5)	8/7/2001	ug/kg	1,4-Dithiane	123 U	78,000	
				OU5-CSA-6-4305WS-SB(8.5-9.5)	8/7/2001	ug/kg	1,4-Oxathiane	245 U	78,000	
				OU5-CSA-6-4305WS-SB(8.5-9.5)	8/7/2001	ug/kg	Thiodiglycol	613 U	39,100	
				OU5-CSA-6-4305WS-SB(8.5-9.5)	8/7/2001	mg/kg	Cyanide, Total	0.19 U	160	
CSA	2		4308 50th Street							No
				OU5-CSA-2-4308(50)-SB(3-4)	3/27/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-2-4308(50)-SB(3-4)	3/27/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-2-4308(50)-SB(3-4)	3/27/2002	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-2-4308(50)-SB(3-4)	3/27/2002	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU5-CSA-2-4308(50)-SB(3-4)	3/27/2002	ug/kg	Thiodiglycol	580 U	39,100	
				OU5-CSA-2-4308(50)-SB(3-4)	3/27/2002	mg/kg	Cyanide, Total	0.29 U	160	
CSA	6		4310 44th Street							No
				OU5-CSA-6-4310(44)-SB(3.5-4.5)	5/1/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4310(44)-SB(3.5-4.5)	5/1/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4310(44)-SB(3.5-4.5)	5/1/2002	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-6-4310(44)-SB(3.5-4.5)	5/1/2002	ug/kg	1,4-Oxathiane	240 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU5-CSA-6-4310(44)-SB(3.5-4.5)	5/1/2002	ug/kg	Thiodiglycol	610 U	39,100	
				OU5-CSA-6-4310(44)-SB(3.5-4.5)	5/1/2002	mg/kg	Cyanide, Total	0.18 U	160	
CSA	3		4315 50th Street, Lot 4							No
				OU5-CSA-3-L4-SBA(3-4)	8/28/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-3-L4-SBA(3-4)	8/28/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-3-L4-SBA(3-4)	8/28/2002	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-3-L4-SBA(3-4)	8/28/2002	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU5-CSA-3-L4-SBA(3-4)	8/28/2002	ug/kg	Thiodiglycol	590 U	39,100	
				OU5-CSA-3-L4-SBA(3-4)	8/28/2002	mg/kg	Cyanide, Total	0.18 U	160	
				OU5-CSA-3-L4-SBC(5-6)	8/28/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-3-L4-SBC(5-6)	8/28/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-3-L4-SBC(5-6)	8/28/2002	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-3-L4-SBC(5-6)	8/28/2002	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU5-CSA-3-L4-SBC(5-6)	8/28/2002	ug/kg	Thiodiglycol	600 U	39,100	
				OU5-CSA-3-L4-SBC(5-6)	8/28/2002	mg/kg	Cyanide, Total	0.16 U	160	
CSA	6		4317 Warren Street							Yes
				OU5-CSA-6-4317WS-SB(4.5-5.5)	1/28/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4317WS-SB(4.5-5.5)	1/28/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4317WS-SB(4.5-5.5)	1/28/2002	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-6-4317WS-SB(4.5-5.5)	1/28/2002	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU5-CSA-6-4317WS-SB(4.5-5.5)	1/28/2002	ug/kg	Thiodiglycol	600 U	39,100	
				OU5-CSA-6-4317WS-SB(4.5-5.5)	1/28/2002	mg/kg	Cyanide, Total	0.185 U	160	
				OU5-CSA-6-4317WS-SB-DUP12	1/28/2002	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU5-CSA-6-4317WS-SB-DUP12	1/28/2002	ug/kg	Thiodiglycol	600 U	39,100	
CSA	6		4321 Verplanck Place							No
				OU5-CSA-6-4321VP-SB(6-7)	10/1/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4321VP-SB(6-7)	10/1/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4321VP-SB(6-7)	10/1/2001	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-6-4321VP-SB(6-7)	10/1/2001	ug/kg	1,4-Oxathiane	239 U	78,000	
				OU5-CSA-6-4321VP-SB(6-7)	10/1/2001	ug/kg	Thiodiglycol	598 U	39,100	
				OU5-CSA-6-4321VP-SB(6-7)	10/1/2001	mg/kg	Cyanide, Total	0.2 U	160	
CSA	6		4330 42nd Street							Yes
				OU5-CSA-6-4330(42)-SB(1-2)	11/26/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4330(42)-SB(1-2)	11/26/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4330(42)-SB(1-2)	11/26/2001	ug/kg	1,4-Dithiane	115.3 U	78,000	
				OU5-CSA-6-4330(42)-SB(1-2)	11/26/2001	ug/kg	1,4-Oxathiane	230.7 U	78,000	

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				OU5-CSA-6-4330(42)-SB(1-2)	11/26/2001	ug/kg	Thiodiglycol	580	U	39,100	
				OU5-CSA-6-4330(42)-SB(1-2)	11/26/2001	mg/kg	Cyanide, Total	0.158	U	160	
CSA	6		4332 Verplanck Place								No
				OU5-CSA-6-4332VP-SB(3-4)	10/2/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-6-4332VP-SB(3-4)	10/2/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-6-4332VP-SB(3-4)	10/2/2001	ug/kg	1,4-Dithiane	133	U	78,000	
				OU5-CSA-6-4332VP-SB(3-4)	10/2/2001	ug/kg	1,4-Oxathiane	266	U	78,000	
				OU5-CSA-6-4332VP-SB(3-4)	10/2/2001	ug/kg	Thiodiglycol	665	U	39,100	
				OU5-CSA-6-4332VP-SB(3-4)	10/2/2001	mg/kg	Cyanide, Total	0.24	U	160	
CSA	6		4333 Van Ness Street								No
				OU5-CSA-6-4333VNS-SB(4.5-5.5)	7/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-6-4333VNS-SB(4.5-5.5)	7/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-6-4333VNS-SB(4.5-5.5)	7/30/2001	ug/kg	1,4-Dithiane	108	U	78,000	
				OU5-CSA-6-4333VNS-SB(4.5-5.5)	7/30/2001	ug/kg	1,4-Oxathiane	215	U	78,000	
				OU5-CSA-6-4333VNS-SB(4.5-5.5)	7/30/2001	ug/kg	Thiodiglycol	539	U	39,100	
				OU5-CSA-6-4333VNS-SB(4.5-5.5)	7/30/2001	mg/kg	Cyanide, Total	0.17	U	160	
CSA	6		4340 Verplanck Place								No
				OU5-CSA-6-4340VP-SB(6.5-7.5)	7/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-6-4340VP-SB(6.5-7.5)	7/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-6-4340VP-SB(6.5-7.5)	7/30/2001	ug/kg	1,4-Dithiane	120	U	78,000	
				OU5-CSA-6-4340VP-SB(6.5-7.5)	7/30/2001	ug/kg	1,4-Oxathiane	240	U	78,000	
				OU5-CSA-6-4340VP-SB(6.5-7.5)	7/30/2001	ug/kg	Thiodiglycol	600	U	39,100	
				OU5-CSA-6-4340VP-SB(6.5-7.5)	7/30/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	6		4340 Windom Place								No
				OU5-CSA-6-4340WinP-SB(7.5-8.5)	8/1/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-6-4340WinP-SB(7.5-8.5)	8/1/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-6-4340WinP-SB(7.5-8.5)	8/1/2001	ug/kg	1,4-Dithiane	125	U	78,000	
				OU5-CSA-6-4340WinP-SB(7.5-8.5)	8/1/2001	ug/kg	1,4-Oxathiane	250	UL	78,000	
				OU5-CSA-6-4340WinP-SB(7.5-8.5)	8/1/2001	ug/kg	Thiodiglycol	626	U	39,100	
				OU5-CSA-6-4340WinP-SB(7.5-8.5)	8/1/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	6		4344 Verplanck Place								No
				OU5-CSA-6-4344VP-SB(6.5-7.5)	7/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-6-4344VP-SB(6.5-7.5)	7/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-6-4344VP-SB(6.5-7.5)	7/30/2001	ug/kg	1,4-Dithiane	116	U	78,000	
				OU5-CSA-6-4344VP-SB(6.5-7.5)	7/30/2001	ug/kg	1,4-Oxathiane	232	U	78,000	

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				OU5-CSA-6-4344VP-SB(6.5-7.5)	7/30/2001	ug/kg	Thiodiglycol	580 U	39,100	
				OU5-CSA-6-4344VP-SB(6.5-7.5)	7/30/2001	mg/kg	Cyanide, Total	0.18 U	160	
				OU5-CSA-6-4344VP-SB-DUP03	7/30/2001	ug/kg	CVAA/CVAO	40 U	890	
CSA	2		4350 50th Street							No
				OU5-CSA-2-4350(50)-SB(3-4)	3/19/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-2-4350(50)-SB(3-4)	3/19/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-2-4350(50)-SB(3-4)	3/19/2002	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-2-4350(50)-SB(3-4)	3/19/2002	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU5-CSA-2-4350(50)-SB(3-4)	3/19/2002	ug/kg	Thiodiglycol	580 U	39,100	
				OU5-CSA-2-4350(50)-SB(3-4)	3/19/2002	mg/kg	Cyanide, Total	0.17 U	160	
CSA	6		4353 Verplanck Place							No
				OU5-CSA-6-4353VP-SB(8-9)	10/2/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4353VP-SB(8-9)	10/2/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4353VP-SB(8-9)	10/2/2001	ug/kg	1,4-Dithiane	121 U	78,000	
				OU5-CSA-6-4353VP-SB(8-9)	10/2/2001	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU5-CSA-6-4353VP-SB(8-9)	10/2/2001	ug/kg	Thiodiglycol	603 U	39,100	
				OU5-CSA-6-4353VP-SB(8-9)	10/2/2001	mg/kg	Cyanide, Total	0.22 U	160	
OU4	OU4		4400 Massachusetts Avenue, Lot 1							No
				OU4-AU01-1	11/13/2000	ug/kg	1,4-Dithiane	112 U	78,000	
				OU4-AU01-1	11/13/2000	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU4-AU01-1	11/13/2000	ug/kg	Thiodiglycol	561 U	39,100	
				OU4-AU01-2	11/13/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU01-2	11/13/2000	ug/kg	1,4-Oxathiane	242 U	78,000	
				OU4-AU01-2	11/13/2000	ug/kg	Thiodiglycol	617 U	39,100	
				OU4-AU01-3	11/13/2000	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU01-3	11/13/2000	ug/kg	1,4-Oxathiane	249 U	78,000	
				OU4-AU01-3	11/13/2000	ug/kg	Thiodiglycol	628 U	39,100	
				OU4-AU01-4	11/13/2000	ug/kg	1,4-Dithiane	119 U	78,000	
				OU4-AU01-4	11/13/2000	ug/kg	1,4-Oxathiane	239 U	78,000	
				OU4-AU01-4	11/13/2000	ug/kg	Thiodiglycol	586 U	39,100	
				OU4-AU01-SB2	11/13/2000	ug/kg	1,4-Dithiane	104 U	78,000	
				OU4-AU01-SB2	11/13/2000	ug/kg	1,4-Oxathiane	209 U	78,000	
				OU4-AU01-SB2	11/13/2000	ug/kg	Thiodiglycol	538 U	39,100	
				OU4-AU01-SB4	11/13/2000	ug/kg	1,4-Dithiane	110 U	78,000	
				OU4-AU01-SB4	11/13/2000	ug/kg	1,4-Oxathiane	219 U	78,000	
				OU4-AU01-SB4	11/13/2000	ug/kg	Thiodiglycol	549 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU01-SB6	11/13/2000	ug/kg	1,4-Dithiane	109 U	78,000	
				OU4-AU01-SB6	11/13/2000	ug/kg	1,4-Oxathiane	217 U	78,000	
				OU4-AU01-SB6	11/13/2000	ug/kg	Thiodiglycol	533 U	39,100	
OU4	**OU4**		**4400 Massachusetts Avenue, Lot 10**							**No**
				OU4-AU10-1	11/15/2000	ug/kg	1,4-Dithiane	111 U	78,000	
				OU4-AU10-1	11/15/2000	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU4-AU10-1	11/15/2000	ug/kg	Thiodiglycol	551 U	39,100	
				OU4-AU10-2	11/15/2000	ug/kg	1,4-Dithiane	119 U	78,000	
				OU4-AU10-2	11/15/2000	ug/kg	1,4-Oxathiane	238 U	78,000	
				OU4-AU10-2	11/15/2000	ug/kg	Thiodiglycol	589 U	39,100	
				OU4-AU10-3	11/15/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU10-3	11/15/2000	ug/kg	1,4-Oxathiane	239 U	78,000	
				OU4-AU10-3	11/15/2000	ug/kg	Thiodiglycol	587 U	39,100	
				OU4-AU10-4	11/15/2000	ug/kg	1,4-Dithiane	127 U	78,000	
				OU4-AU10-4	11/15/2000	ug/kg	1,4-Oxathiane	254 U	78,000	
				OU4-AU10-4	11/15/2000	ug/kg	Thiodiglycol	617 U	39,100	
				OU4-AU10-DUP02	11/15/2000	ug/kg	1,4-Dithiane	122 U	78,000	
				OU4-AU10-DUP02	11/15/2000	ug/kg	1,4-Oxathiane	244 U	78,000	
				OU4-AU10-DUP02	11/15/2000	ug/kg	Thiodiglycol	610 U	39,100	
				OU4-AU10-SB-12	11/14/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU10-SB-12	11/14/2000	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU4-AU10-SB-12	11/14/2000	ug/kg	Thiodiglycol	574 U	39,100	
				OU4-AU10-SB10	11/14/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU10-SB10	11/14/2000	ug/kg	1,4-Oxathiane	228 U	78,000	
				OU4-AU10-SB10	11/14/2000	ug/kg	Thiodiglycol	570 U	39,100	
				OU4-AU10-SB2	11/14/2000	ug/kg	1,4-Dithiane	112 U	78,000	
				OU4-AU10-SB2	11/14/2000	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU4-AU10-SB2	11/14/2000	ug/kg	Thiodiglycol	546 U	39,100	
				OU4-AU10-SB4	11/14/2000	ug/kg	1,4-Dithiane	117 U	78,000	
				OU4-AU10-SB4	11/14/2000	ug/kg	1,4-Oxathiane	234 U	78,000	
				OU4-AU10-SB4	11/14/2000	ug/kg	Thiodiglycol	568 U	39,100	
				OU4-AU10-SB6	11/14/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU10-SB6	11/14/2000	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU4-AU10-SB6	11/14/2000	ug/kg	Thiodiglycol	568 U	39,100	
				OU4-AU10-SB8	11/14/2000	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU10-SB8	11/14/2000	ug/kg	1,4-Oxathiane	236 U	78,000	
				OU4-AU10-SB8	11/14/2000	ug/kg	Thiodiglycol	589 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
OU4	OU4		4400 Massachusetts Avenue, Lot 11							No
				OU4-AU11-SB-10	11/22/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU11-SB-10	11/22/2000	ug/kg	1,4-Oxathiane	243 U	78,000	
				OU4-AU11-SB-10	11/22/2000	ug/kg	Thiodiglycol	607 U	39,100	
				OU4-AU11-SB-8	11/22/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU11-SB-8	11/22/2000	ug/kg	1,4-Oxathiane	231 U	78,000	
				OU4-AU11-SB-8	11/22/2000	ug/kg	Thiodiglycol	595 U	39,100	
				OU4-AU11-SB2	11/22/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU11-SB2	11/22/2000	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU4-AU11-SB2	11/22/2000	ug/kg	Thiodiglycol	572 U	39,100	
				OU4-AU11-SB4	11/22/2000	ug/kg	1,4-Dithiane	113 U	78,000	
				OU4-AU11-SB4	11/22/2000	ug/kg	1,4-Oxathiane	226 U	78,000	
				OU4-AU11-SB4	11/22/2000	ug/kg	Thiodiglycol	566 U	39,100	
				OU4-AU11-SB6	11/22/2000	ug/kg	1,4-Dithiane	119 U	78,000	
				OU4-AU11-SB6	11/22/2000	ug/kg	1,4-Oxathiane	238 U	78,000	
				OU4-AU11-SB6	11/22/2000	ug/kg	Thiodiglycol	595 U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 12							No
				OU4-AU12-CDC	11/27/2000	ug/kg	1,4-Dithiane	122 U	78,000	
				OU4-AU12-CDC	11/27/2000	ug/kg	1,4-Oxathiane	244 U	78,000	
				OU4-AU12-CDC	11/27/2000	ug/kg	Thiodiglycol	490 U	39,100	
				OU4-AU12-SB-10	11/22/2000	ug/kg	1,4-Dithiane	129 U	78,000	
				OU4-AU12-SB-10	11/22/2000	ug/kg	1,4-Oxathiane	258 U	78,000	
				OU4-AU12-SB-10	11/22/2000	ug/kg	Thiodiglycol	638 U	39,100	
				OU4-AU12-SB-8	11/22/2000	ug/kg	1,4-Dithiane	132 U	78,000	
				OU4-AU12-SB-8	11/22/2000	ug/kg	1,4-Oxathiane	263 U	78,000	
				OU4-AU12-SB-8	11/22/2000	ug/kg	Thiodiglycol	658 U	39,100	
				OU4-AU12-SB2	11/22/2000	ug/kg	1,4-Dithiane	113 U	78,000	
				OU4-AU12-SB2	11/22/2000	ug/kg	1,4-Oxathiane	226 U	78,000	
				OU4-AU12-SB2	11/22/2000	ug/kg	Thiodiglycol	560 U	39,100	
				OU4-AU12-SB4	11/22/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU12-SB4	11/22/2000	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU4-AU12-SB4	11/22/2000	ug/kg	Thiodiglycol	580 U	39,100	
				OU4-AU12-SB6	11/22/2000	ug/kg	1,4-Dithiane	126 U	78,000	
				OU4-AU12-SB6	11/22/2000	ug/kg	1,4-Oxathiane	252 U	78,000	
				OU4-AU12-SB6	11/22/2000	ug/kg	Thiodiglycol	636 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
OU4	OU4		4400 Massachusetts Avenue, Lot 13							No
				OU4-AU13-1	11/15/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU13-1	11/15/2000	ug/kg	1,4-Oxathiane	239 U	78,000	
				OU4-AU13-1	11/15/2000	ug/kg	Thiodiglycol	605 U	39,100	
				OU4-AU13-2	11/15/2000	ug/kg	1,4-Dithiane	119 U	78,000	
				OU4-AU13-2	11/15/2000	ug/kg	1,4-Oxathiane	237 U	78,000	
				OU4-AU13-2	11/15/2000	ug/kg	Thiodiglycol	593 U	39,100	
				OU4-AU13-3	11/15/2000	ug/kg	1,4-Dithiane	123 U	78,000	
				OU4-AU13-3	11/15/2000	ug/kg	1,4-Oxathiane	245 U	78,000	
				OU4-AU13-3	11/15/2000	ug/kg	Thiodiglycol	613 U	39,100	
				OU4-AU13-4	11/15/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU13-4	11/15/2000	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU4-AU13-4	11/15/2000	ug/kg	Thiodiglycol	608 U	39,100	
				OU4-AU13-SB2	11/15/2000	ug/kg	1,4-Dithiane	112 U	78,000	
				OU4-AU13-SB2	11/15/2000	ug/kg	1,4-Oxathiane	224 U	78,000	
				OU4-AU13-SB2	11/15/2000	ug/kg	Thiodiglycol	560 U	39,100	
				OU4-AU13-SB4	11/15/2000	ug/kg	1,4-Dithiane	112 U	78,000	
				OU4-AU13-SB4	11/15/2000	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU4-AU13-SB4	11/15/2000	ug/kg	Thiodiglycol	570 U	39,100	
				OU4-AU13-SB6	11/15/2000	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU13-SB6	11/15/2000	ug/kg	1,4-Oxathiane	236 U	78,000	
				OU4-AU13-SB6	11/15/2000	ug/kg	Thiodiglycol	591 U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 14							No
				OU4-AU14-1	11/16/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU14-1	11/16/2000	ug/kg	1,4-Oxathiane	232 U	78,000	
				OU4-AU14-1	11/16/2000	ug/kg	Thiodiglycol	580 U	39,100	
				OU4-AU14-2	11/16/2000	ug/kg	1,4-Dithiane	111 U	78,000	
				OU4-AU14-2	11/16/2000	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU4-AU14-2	11/16/2000	ug/kg	Thiodiglycol	563 U	39,100	
				OU4-AU14-3	11/16/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU14-3	11/16/2000	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU4-AU14-3	11/16/2000	ug/kg	Thiodiglycol	574 U	39,100	
				OU4-AU14-4	11/16/2000	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU14-4	11/16/2000	ug/kg	1,4-Oxathiane	248 U	78,000	
				OU4-AU14-4	11/16/2000	ug/kg	Thiodiglycol	620 U	39,100	
				OU4-AU14-DUP03	11/16/2000	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU14-DUP03	11/16/2000	ug/kg	1,4-Oxathiane	249 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU14-DUP03	11/16/2000	ug/kg	Thiodiglycol	628 U	39,100	
				OU4-AU14-SB-DUP02	11/16/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU14-SB-DUP02	11/16/2000	ug/kg	1,4-Oxathiane	231 U	78,000	
				OU4-AU14-SB-DUP02	11/16/2000	ug/kg	Thiodiglycol	576 U	39,100	
				OU4-AU14-SB2	11/16/2000	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU14-SB2	11/16/2000	ug/kg	1,4-Oxathiane	235 U	78,000	
				OU4-AU14-SB2	11/16/2000	ug/kg	Thiodiglycol	588 U	39,100	
				OU4-AU14-SB4	11/16/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU14-SB4	11/16/2000	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU4-AU14-SB4	11/16/2000	ug/kg	Thiodiglycol	567 U	39,100	
				OU4-AU14-SB6	11/16/2000	ug/kg	1,4-Dithiane	119 U	78,000	
				OU4-AU14-SB6	11/16/2000	ug/kg	1,4-Oxathiane	238 U	78,000	
				OU4-AU14-SB6	11/16/2000	ug/kg	Thiodiglycol	600 U	39,100	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 15*							*No*
				OU4-AU15-1	11/16/2000	ug/kg	1,4-Dithiane	123 U	78,000	
				OU4-AU15-1	11/16/2000	ug/kg	1,4-Oxathiane	245 U	78,000	
				OU4-AU15-1	11/16/2000	ug/kg	Thiodiglycol	619 U	39,100	
				OU4-AU15-2	11/16/2000	ug/kg	1,4-Dithiane	125 U	78,000	
				OU4-AU15-2	11/16/2000	ug/kg	1,4-Oxathiane	251 U	78,000	
				OU4-AU15-2	11/16/2000	ug/kg	Thiodiglycol	621 U	39,100	
				OU4-AU15-3	11/16/2000	ug/kg	1,4-Dithiane	128 U	78,000	
				OU4-AU15-3	11/16/2000	ug/kg	1,4-Oxathiane	256 U	78,000	
				OU4-AU15-3	11/16/2000	ug/kg	Thiodiglycol	634 U	39,100	
				OU4-AU15-4	11/16/2000	ug/kg	1,4-Dithiane	133 U	78,000	
				OU4-AU15-4	11/16/2000	ug/kg	1,4-Oxathiane	266 U	78,000	
				OU4-AU15-4	11/16/2000	ug/kg	Thiodiglycol	646 U	39,100	
				OU4-AU15-SB2	11/16/2000	ug/kg	1,4-Dithiane	109 U	78,000	
				OU4-AU15-SB2	11/16/2000	ug/kg	1,4-Oxathiane	219 U	78,000	
				OU4-AU15-SB2	11/16/2000	ug/kg	Thiodiglycol	547 U	39,100	
				OU4-AU15-SB4	11/16/2000	ug/kg	1,4-Dithiane	110 U	78,000	
				OU4-AU15-SB4	11/16/2000	ug/kg	1,4-Oxathiane	219 U	78,000	
				OU4-AU15-SB4	11/16/2000	ug/kg	Thiodiglycol	543 U	39,100	
				OU4-AU15-SB6	11/16/2000	ug/kg	1,4-Dithiane	108 U	78,000	
				OU4-AU15-SB6	11/16/2000	ug/kg	1,4-Oxathiane	217 U	78,000	
				OU4-AU15-SB6	11/16/2000	ug/kg	Thiodiglycol	532 U	39,100	
CSA	*9*		*4400 Massachusetts Avenue, Lot 16*							*No*
				OU5-CSA-9-L16-SB(9-10)	8/15/2001	ug/kg	CVAA/CVAO	40 U	890	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU5-CSA-9-L16-SB(9-10)	8/15/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L16-SB(9-10)	8/15/2001	ug/kg	1,4-Dithiane	127 U	78,000	
				OU5-CSA-9-L16-SB(9-10)	8/15/2001	ug/kg	1,4-Oxathiane	254 U	78,000	
				OU5-CSA-9-L16-SB(9-10)	8/15/2001	ug/kg	Thiodiglycol	635 U	39,100	
				OU5-CSA-9-L16-SB(9-10)	8/15/2001	mg/kg	Cyanide, Total	0.2 U	160	
OU4	OU4		4400 Massachusetts Avenue, Lot 16							No
				OU4-AU16-1	11/16/2000	ug/kg	1,4-Dithiane	132 U	78,000	
				OU4-AU16-1	11/16/2000	ug/kg	1,4-Oxathiane	264 U	78,000	
				OU4-AU16-1	11/16/2000	ug/kg	Thiodiglycol	666 U	39,100	
				OU4-AU16-2	11/16/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU16-2	11/16/2000	ug/kg	1,4-Oxathiane	231 U	78,000	
				OU4-AU16-2	11/16/2000	ug/kg	Thiodiglycol	571 U	39,100	
				OU4-AU16-3	11/16/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU16-3	11/16/2000	ug/kg	1,4-Oxathiane	233 U	78,000	
				OU4-AU16-3	11/16/2000	ug/kg	Thiodiglycol	582 U	39,100	
				OU4-AU16-4	11/16/2000	ug/kg	1,4-Dithiane	129 U	78,000	
				OU4-AU16-4	11/16/2000	ug/kg	1,4-Oxathiane	258 U	78,000	
				OU4-AU16-4	11/16/2000	ug/kg	Thiodiglycol	644 U	39,100	
				OU4-AU16-SB2	11/16/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU16-SB2	11/16/2000	ug/kg	1,4-Oxathiane	228 U	78,000	
				OU4-AU16-SB2	11/16/2000	ug/kg	Thiodiglycol	571 U	39,100	
				OU4-AU16-SB4	11/16/2000	ug/kg	1,4-Dithiane	107 U	78,000	
				OU4-AU16-SB4	11/16/2000	ug/kg	1,4-Oxathiane	213 U	78,000	
				OU4-AU16-SB4	11/16/2000	ug/kg	Thiodiglycol	538 U	39,100	
				OU4-AU16-SB6	11/16/2000	ug/kg	1,4-Dithiane	106 U	78,000	
				OU4-AU16-SB6	11/16/2000	ug/kg	1,4-Oxathiane	213 U	78,000	
				OU4-AU16-SB6	11/16/2000	ug/kg	Thiodiglycol	532 U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 17							No
				OU4-AU17-1	11/17/2000	ug/kg	1,4-Dithiane	108 U	78,000	
				OU4-AU17-1	11/17/2000	ug/kg	1,4-Oxathiane	216 U	78,000	
				OU4-AU17-1	11/17/2000	ug/kg	Thiodiglycol	540 U	39,100	
				OU4-AU17-2	11/17/2000	ug/kg	1,4-Dithiane	117 U	78,000	
				OU4-AU17-2	11/17/2000	ug/kg	1,4-Oxathiane	234 U	78,000	
				OU4-AU17-2	11/17/2000	ug/kg	Thiodiglycol	585 U	39,100	
				OU4-AU17-3	11/17/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU17-3	11/17/2000	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU4-AU17-3	11/17/2000	ug/kg	Thiodiglycol	568 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU17-4	11/17/2000	ug/kg	1,4-Dithiane	126 U	78,000	
				OU4-AU17-4	11/17/2000	ug/kg	1,4-Oxathiane	251 U	78,000	
				OU4-AU17-4	11/17/2000	ug/kg	Thiodiglycol	616 U	39,100	
				OU4-AU17-SB-10	11/16/2000	ug/kg	1,4-Dithiane	117 U	78,000	
				OU4-AU17-SB-10	11/16/2000	ug/kg	1,4-Oxathiane	234 U	78,000	
				OU4-AU17-SB-10	11/16/2000	ug/kg	Thiodiglycol	578 U	39,100	
				OU4-AU17-SB-8	11/16/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU17-SB-8	11/16/2000	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU4-AU17-SB-8	11/16/2000	ug/kg	Thiodiglycol	576 U	39,100	
				OU4-AU17-SB2	11/16/2000	ug/kg	1,4-Dithiane	105 U	78,000	
				OU4-AU17-SB2	11/16/2000	ug/kg	1,4-Oxathiane	210 U	78,000	
				OU4-AU17-SB2	11/16/2000	ug/kg	Thiodiglycol	526 U	39,100	
				OU4-AU17-SB4	11/16/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU17-SB4	11/16/2000	ug/kg	1,4-Oxathiane	228 U	78,000	
				OU4-AU17-SB4	11/16/2000	ug/kg	Thiodiglycol	576 U	39,100	
				OU4-AU17-SB6	11/16/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU17-SB6	11/16/2000	ug/kg	1,4-Oxathiane	232 U	78,000	
				OU4-AU17-SB6	11/16/2000	ug/kg	Thiodiglycol	563 U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 18							No
				OU4-AU18-1	11/17/2000	ug/kg	1,4-Dithiane	128 U	78,000	
				OU4-AU18-1	11/17/2000	ug/kg	1,4-Oxathiane	255 U	78,000	
				OU4-AU18-1	11/17/2000	ug/kg	Thiodiglycol	653 U	39,100	
				OU4-AU18-2	11/17/2000	ug/kg	1,4-Dithiane	109 U	78,000	
				OU4-AU18-2	11/17/2000	ug/kg	1,4-Oxathiane	219 U	78,000	
				OU4-AU18-2	11/17/2000	ug/kg	Thiodiglycol	665 U	39,100	
				OU4-AU18-3	11/17/2000	ug/kg	1,4-Dithiane	125 U	78,000	
				OU4-AU18-3	11/17/2000	ug/kg	1,4-Oxathiane	250 U	78,000	
				OU4-AU18-3	11/17/2000	ug/kg	Thiodiglycol	672 U	39,100	
				OU4-AU18-4	11/17/2000	ug/kg	1,4-Dithiane	142 U	78,000	
				OU4-AU18-4	11/17/2000	ug/kg	1,4-Oxathiane	283 U	78,000	
				OU4-AU18-4	11/17/2000	ug/kg	Thiodiglycol	583 U	39,100	
				OU4-AU18-SB-10	11/17/2000	ug/kg	1,4-Dithiane	134 U	78,000	
				OU4-AU18-SB-10	11/17/2000	ug/kg	1,4-Oxathiane	269 U	78,000	
				OU4-AU18-SB-10	11/17/2000	ug/kg	Thiodiglycol	644 U	39,100	
				OU4-AU18-SB-8	11/17/2000	ug/kg	1,4-Dithiane	131 U	78,000	
				OU4-AU18-SB-8	11/17/2000	ug/kg	1,4-Oxathiane	261 U	78,000	
				OU4-AU18-SB-8	11/17/2000	ug/kg	Thiodiglycol	546 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU18-SB2	11/17/2000	ug/kg	1,4-Dithiane	109 U	78,000	
				OU4-AU18-SB2	11/17/2000	ug/kg	1,4-Oxathiane	218 U	78,000	
				OU4-AU18-SB2	11/17/2000	ug/kg	Thiodiglycol	583 U	39,100	
				OU4-AU18-SB4	11/17/2000	ug/kg	1,4-Dithiane	108 U	78,000	
				OU4-AU18-SB4	11/17/2000	ug/kg	1,4-Oxathiane	216 U	78,000	
				OU4-AU18-SB4	11/17/2000	ug/kg	Thiodiglycol	715 U	39,100	
				OU4-AU18-SB6	11/17/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU18-SB6	11/17/2000	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU4-AU18-SB6	11/17/2000	ug/kg	Thiodiglycol	556 U	39,100	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 19*							*No*
				OU4-AU19-1	11/17/2000	ug/kg	1,4-Dithiane	117 U	78,000	
				OU4-AU19-1	11/17/2000	ug/kg	1,4-Oxathiane	233 U	78,000	
				OU4-AU19-1	11/17/2000	ug/kg	Thiodiglycol	542 U	39,100	
				OU4-AU19-2	11/17/2000	ug/kg	1,4-Dithiane	130 U	78,000	
				OU4-AU19-2	11/17/2000	ug/kg	1,4-Oxathiane	259 U	78,000	
				OU4-AU19-2	11/17/2000	ug/kg	Thiodiglycol	648 U	39,100	
				OU4-AU19-3	11/17/2000	ug/kg	1,4-Dithiane	123 U	78,000	
				OU4-AU19-3	11/17/2000	ug/kg	1,4-Oxathiane	247 U	78,000	
				OU4-AU19-3	11/17/2000	ug/kg	Thiodiglycol	616 U	39,100	
				OU4-AU19-4	11/17/2000	ug/kg	1,4-Dithiane	125 U	78,000	
				OU4-AU19-4	11/17/2000	ug/kg	1,4-Oxathiane	249 U	78,000	
				OU4-AU19-4	11/17/2000	ug/kg	Thiodiglycol	629 U	39,100	
				OU4-AU19-DUP04	11/17/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU19-DUP04	11/17/2000	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU4-AU19-DUP04	11/17/2000	ug/kg	Thiodiglycol	599 U	39,100	
				OU4-AU19-SB2	11/17/2000	ug/kg	1,4-Dithiane	111 U	78,000	
				OU4-AU19-SB2	11/17/2000	ug/kg	1,4-Oxathiane	222 U	78,000	
				OU4-AU19-SB2	11/17/2000	ug/kg	Thiodiglycol	566 U	39,100	
				OU4-AU19-SB4	11/17/2000	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU19-SB4	11/17/2000	ug/kg	1,4-Oxathiane	236 U	78,000	
				OU4-AU19-SB4	11/17/2000	ug/kg	Thiodiglycol	585 U	39,100	
				OU4-AU19-SB6	11/17/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU19-SB6	11/17/2000	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU4-AU19-SB6	11/17/2000	ug/kg	Thiodiglycol	576 U	39,100	
				OU4-AU19-SB8	11/17/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU19-SB8	11/17/2000	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU4-AU19-SB8	11/17/2000	ug/kg	Thiodiglycol	568 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
OU4	OU4		4400 Massachusetts Avenue, Lot 2							No
				OU4-AU02-1	11/13/2000	ug/kg	1,4-Dithiane	127 U	78,000	
				OU4-AU02-1	11/13/2000	ug/kg	1,4-Oxathiane	253 U	78,000	
				OU4-AU02-1	11/13/2000	ug/kg	Thiodiglycol	633 U	39,100	
				OU4-AU02-2	11/13/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU02-2	11/13/2000	ug/kg	1,4-Oxathiane	228 U	78,000	
				OU4-AU02-2	11/13/2000	ug/kg	Thiodiglycol	598 U	39,100	
				OU4-AU02-3	11/13/2000	ug/kg	1,4-Dithiane	134 U	78,000	
				OU4-AU02-3	11/13/2000	ug/kg	1,4-Oxathiane	268 U	78,000	
				OU4-AU02-3	11/13/2000	ug/kg	Thiodiglycol	677 U	39,100	
				OU4-AU02-4	11/13/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU02-4	11/13/2000	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU4-AU02-4	11/13/2000	ug/kg	Thiodiglycol	612 U	39,100	
				OU4-AU02-SB2	11/13/2000	ug/kg	1,4-Dithiane	109 U	78,000	
				OU4-AU02-SB2	11/13/2000	ug/kg	1,4-Oxathiane	218 U	78,000	
				OU4-AU02-SB2	11/13/2000	ug/kg	Thiodiglycol	571 U	39,100	
				OU4-AU02-SB4	11/13/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU02-SB4	11/13/2000	ug/kg	1,4-Oxathiane	233 U	78,000	
				OU4-AU02-SB4	11/13/2000	ug/kg	Thiodiglycol	577 U	39,100	
				OU4-AU02-SB6	11/13/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU02-SB6	11/13/2000	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU4-AU02-SB6	11/13/2000	ug/kg	Thiodiglycol	588 U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 20							No
				OU4-AU20-1	11/20/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU20-1	11/20/2000	ug/kg	1,4-Oxathiane	242 U	78,000	
				OU4-AU20-1	11/20/2000	ug/kg	Thiodiglycol	604 U	39,100	
				OU4-AU20-2	11/20/2000	ug/kg	1,4-Dithiane	139 U	78,000	
				OU4-AU20-2	11/20/2000	ug/kg	1,4-Oxathiane	278 U	78,000	
				OU4-AU20-2	11/20/2000	ug/kg	Thiodiglycol	708 U	39,100	
				OU4-AU20-3	11/20/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU20-3	11/20/2000	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU4-AU20-3	11/20/2000	ug/kg	Thiodiglycol	604 U	39,100	
				OU4-AU20-4	11/20/2000	ug/kg	1,4-Dithiane	126 U	78,000	
				OU4-AU20-4	11/20/2000	ug/kg	1,4-Oxathiane	252 U	78,000	
				OU4-AU20-4	11/20/2000	ug/kg	Thiodiglycol	631 U	39,100	
				OU4-AU20-SB10	11/20/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU20-SB10	11/20/2000	ug/kg	1,4-Oxathiane	231 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU20-SB10	11/20/2000	ug/kg	Thiodiglycol	578 U	39,100	
				OU4-AU20-SB2	11/20/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU20-SB2	11/20/2000	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU4-AU20-SB2	11/20/2000	ug/kg	Thiodiglycol	556 U	39,100	
				OU4-AU20-SB4	11/20/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU20-SB4	11/20/2000	ug/kg	1,4-Oxathiane	231 U	78,000	
				OU4-AU20-SB4	11/20/2000	ug/kg	Thiodiglycol	577 U	39,100	
				OU4-AU20-SB6	11/20/2000	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU20-SB6	11/20/2000	ug/kg	1,4-Oxathiane	237 U	78,000	
				OU4-AU20-SB6	11/20/2000	ug/kg	Thiodiglycol	592 U	39,100	
				OU4-AU20-SB8	11/20/2000	ug/kg	1,4-Dithiane	104 U	78,000	
				OU4-AU20-SB8	11/20/2000	ug/kg	1,4-Oxathiane	209 U	78,000	
				OU4-AU20-SB8	11/20/2000	ug/kg	Thiodiglycol	522 U	39,100	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 21*							*No*
				OU4-AU21-1	11/20/2000	ug/kg	1,4-Dithiane	119 U	78,000	
				OU4-AU21-1	11/20/2000	ug/kg	1,4-Oxathiane	237 U	78,000	
				OU4-AU21-1	11/20/2000	ug/kg	Thiodiglycol	593 U	39,100	
				OU4-AU21-2	11/20/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU21-2	11/20/2000	ug/kg	1,4-Oxathiane	242 U	78,000	
				OU4-AU21-2	11/20/2000	ug/kg	Thiodiglycol	617 U	39,100	
				OU4-AU21-3	11/20/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU21-3	11/20/2000	ug/kg	1,4-Oxathiane	242 U	78,000	
				OU4-AU21-3	11/20/2000	ug/kg	Thiodiglycol	606 U	39,100	
				OU4-AU21-4	11/20/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU21-4	11/20/2000	ug/kg	1,4-Oxathiane	242 U	78,000	
				OU4-AU21-4	11/20/2000	ug/kg	Thiodiglycol	606 U	39,100	
				OU4-AU21-SB10	11/20/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU21-SB10	11/20/2000	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU4-AU21-SB10	11/20/2000	ug/kg	Thiodiglycol	576 U	39,100	
				OU4-AU21-SB2	11/20/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU21-SB2	11/20/2000	ug/kg	1,4-Oxathiane	228 U	78,000	
				OU4-AU21-SB2	11/20/2000	ug/kg	Thiodiglycol	569 U	39,100	
				OU4-AU21-SB4	11/20/2000	ug/kg	1,4-Dithiane	107 U	78,000	
				OU4-AU21-SB4	11/20/2000	ug/kg	1,4-Oxathiane	214 U	78,000	
				OU4-AU21-SB4	11/20/2000	ug/kg	Thiodiglycol	547 U	39,100	
				OU4-AU21-SB6	11/20/2000	ug/kg	1,4-Dithiane	102 U	78,000	
				OU4-AU21-SB6	11/20/2000	ug/kg	1,4-Oxathiane	204 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU21-SB6	11/20/2000	ug/kg	Thiodiglycol	505 U	39,100	
				OU4-AU21-SB8	11/20/2000	ug/kg	1,4-Dithiane	113 U	78,000	
				OU4-AU21-SB8	11/20/2000	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU4-AU21-SB8	11/20/2000	ug/kg	Thiodiglycol	574 U	39,100	
CSA	9		4400 Massachusetts Avenue, Lot 22							No
				OU5-CSA-9-L22-SB(6-7)	8/15/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L22-SB(6-7)	8/15/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L22-SB(6-7)	8/15/2001	ug/kg	1,4-Dithiane	117 U	78,000	
				OU5-CSA-9-L22-SB(6-7)	8/15/2001	ug/kg	1,4-Oxathiane	234 U	78,000	
				OU5-CSA-9-L22-SB(6-7)	8/15/2001	ug/kg	Thiodiglycol	586 U	39,100	
				OU5-CSA-9-L22-SB(6-7)	8/15/2001	mg/kg	Cyanide, Total	0.17 U	160	
OU4	OU4		4400 Massachusetts Avenue, Lot 22							No
				OU4-AU22-1	11/20/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU22-1	11/20/2000	ug/kg	1,4-Oxathiane	231 U	78,000	
				OU4-AU22-1	11/20/2000	ug/kg	Thiodiglycol	577 U	39,100	
				OU4-AU22-2	11/20/2000	ug/kg	1,4-Dithiane	130 U	78,000	
				OU4-AU22-2	11/20/2000	ug/kg	1,4-Oxathiane	259 U	78,000	
				OU4-AU22-2	11/20/2000	ug/kg	Thiodiglycol	648 U	39,100	
				OU4-AU22-3	11/20/2000	ug/kg	1,4-Dithiane	117 U	78,000	
				OU4-AU22-3	11/20/2000	ug/kg	1,4-Oxathiane	234 U	78,000	
				OU4-AU22-3	11/20/2000	ug/kg	Thiodiglycol	598 U	39,100	
				OU4-AU22-4	11/20/2000	ug/kg	1,4-Dithiane	117 U	78,000	
				OU4-AU22-4	11/20/2000	ug/kg	1,4-Oxathiane	234 U	78,000	
				OU4-AU22-4	11/20/2000	ug/kg	Thiodiglycol	585 U	39,100	
				OU4-AU22-SB-DUP03	11/20/2000	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU22-SB-DUP03	11/20/2000	ug/kg	1,4-Oxathiane	237 U	78,000	
				OU4-AU22-SB-DUP03	11/20/2000	ug/kg	Thiodiglycol	592 U	39,100	
				OU4-AU22-SB2	11/20/2000	ug/kg	1,4-Dithiane	113 U	78,000	
				OU4-AU22-SB2	11/20/2000	ug/kg	1,4-Oxathiane	226 U	78,000	
				OU4-AU22-SB2	11/20/2000	ug/kg	Thiodiglycol	566 U	39,100	
				OU4-AU22-SB4	11/20/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU22-SB4	11/20/2000	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU4-AU22-SB4	11/20/2000	ug/kg	Thiodiglycol	597 U	39,100	
				OU4-AU22-SB6	11/20/2000	ug/kg	1,4-Dithiane	123 U	78,000	
				OU4-AU22-SB6	11/20/2000	ug/kg	1,4-Oxathiane	246 U	78,000	
				OU4-AU22-SB6	11/20/2000	ug/kg	Thiodiglycol	603 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
CSA	9		4400 Massachusetts Avenue, Lot 23							No
				OU5-CSA-9-L23-SB(7-8)	8/15/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L23-SB(7-8)	8/15/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L23-SB(7-8)	8/15/2001	ug/kg	1,4-Dithiane	121 U	78,000	
				OU5-CSA-9-L23-SB(7-8)	8/15/2001	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU5-CSA-9-L23-SB(7-8)	8/15/2001	ug/kg	Thiodiglycol	604 U	39,100	
				OU5-CSA-9-L23-SB(7-8)	8/15/2001	mg/kg	Cyanide, Total	0.18 U	160	
OU4	OU4		4400 Massachusetts Avenue, Lot 23							No
				OU4-AU23-1	11/21/2000	ug/kg	1,4-Dithiane	125 U	78,000	
				OU4-AU23-1	11/21/2000	ug/kg	1,4-Oxathiane	250 U	78,000	
				OU4-AU23-1	11/21/2000	ug/kg	Thiodiglycol	618 U	39,100	
				OU4-AU23-2	11/21/2000	ug/kg	1,4-Dithiane	128 U	78,000	
				OU4-AU23-2	11/21/2000	ug/kg	1,4-Oxathiane	256 U	78,000	
				OU4-AU23-2	11/21/2000	ug/kg	Thiodiglycol	645 U	39,100	
				OU4-AU23-3	11/21/2000	ug/kg	1,4-Dithiane	123 U	78,000	
				OU4-AU23-3	11/21/2000	ug/kg	1,4-Oxathiane	247 U	78,000	
				OU4-AU23-3	11/21/2000	ug/kg	Thiodiglycol	630 U	39,100	
				OU4-AU23-4	11/21/2000	ug/kg	1,4-Dithiane	119 U	78,000	
				OU4-AU23-4	11/21/2000	ug/kg	1,4-Oxathiane	239 U	78,000	
				OU4-AU23-4	11/21/2000	ug/kg	Thiodiglycol	585 U	39,100	
				OU4-AU23-SB2	11/20/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU23-SB2	11/20/2000	ug/kg	1,4-Oxathiane	232 U	78,000	
				OU4-AU23-SB2	11/20/2000	ug/kg	Thiodiglycol	581 U	39,100	
				OU4-AU23-SB4	11/20/2000	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU23-SB4	11/20/2000	ug/kg	1,4-Oxathiane	248 U	78,000	
				OU4-AU23-SB4	11/20/2000	ug/kg	Thiodiglycol	620 U	39,100	
				OU4-AU23-SB6	11/20/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU23-SB6	11/20/2000	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU4-AU23-SB6	11/20/2000	ug/kg	Thiodiglycol	575 U	39,100	
				OU4-AU23-SBDUP04	11/20/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU23-SBDUP04	11/20/2000	ug/kg	1,4-Oxathiane	233 U	78,000	
				OU4-AU23-SBDUP04	11/20/2000	ug/kg	Thiodiglycol	582 U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 24							No
				OU4-AU24-1	11/21/2000	ug/kg	1,4-Dithiane	125 U	78,000	
				OU4-AU24-1	11/21/2000	ug/kg	1,4-Oxathiane	250 U	78,000	
				OU4-AU24-1	11/21/2000	ug/kg	Thiodiglycol	618 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU24-2	11/21/2000	ug/kg	1,4-Dithiane	128 U	78,000	
				OU4-AU24-2	11/21/2000	ug/kg	1,4-Oxathiane	256 U	78,000	
				OU4-AU24-2	11/21/2000	ug/kg	Thiodiglycol	645 U	39,100	
				OU4-AU24-3	11/21/2000	ug/kg	1,4-Dithiane	123 U	78,000	
				OU4-AU24-3	11/21/2000	ug/kg	1,4-Oxathiane	247 U	78,000	
				OU4-AU24-3	11/21/2000	ug/kg	Thiodiglycol	630 U	39,100	
				OU4-AU24-4	11/21/2000	ug/kg	1,4-Dithiane	119 U	78,000	
				OU4-AU24-4	11/21/2000	ug/kg	1,4-Oxathiane	239 U	78,000	
				OU4-AU24-4	11/21/2000	ug/kg	Thiodiglycol	585 U	39,100	
				OU4-AU24-SB2	11/21/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU24-SB2	11/21/2000	ug/kg	1,4-Oxathiane	232 U	78,000	
				OU4-AU24-SB2	11/21/2000	ug/kg	Thiodiglycol	860	39,100	
				OU4-AU24-SB4	11/21/2000	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU24-SB4	11/21/2000	ug/kg	1,4-Oxathiane	248 U	78,000	
				OU4-AU24-SB4	11/21/2000	ug/kg	Thiodiglycol	620 U	39,100	
				OU4-AU24-SB6	11/21/2000	ug/kg	1,4-Dithiane	111 U	78,000	
				OU4-AU24-SB6	11/21/2000	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU4-AU24-SB6	11/21/2000	ug/kg	Thiodiglycol	552 U	39,100	
				OU4-AU24-SB8	11/21/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU24-SB8	11/21/2000	ug/kg	1,4-Oxathiane	232 U	78,000	
				OU4-AU24-SB8	11/21/2000	ug/kg	Thiodiglycol	580 U	39,100	
CSA	**9**		**4400 Massachusetts Avenue, Lot 25**							**No**
				OU5-CSA-9-L25-SB(4-5)	8/16/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L25-SB(4-5)	8/16/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L25-SB(4-5)	8/16/2001	ug/kg	1,4-Dithiane	113 U	78,000	
				OU5-CSA-9-L25-SB(4-5)	8/16/2001	ug/kg	1,4-Oxathiane	226 U	78,000	
				OU5-CSA-9-L25-SB(4-5)	8/16/2001	ug/kg	Thiodiglycol	566 U	39,100	
				OU5-CSA-9-L25-SB(4-5)	8/16/2001	mg/kg	Cyanide, Total	0.16 U	160	
OU4	**OU4**		**4400 Massachusetts Avenue, Lot 25**							**No**
				OU4-AU25-1	11/21/2000	ug/kg	1,4-Dithiane	111 U	78,000	
				OU4-AU25-1	11/21/2000	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU4-AU25-1	11/21/2000	ug/kg	Thiodiglycol	568 U	39,100	
				OU4-AU25-2	11/21/2000	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU25-2	11/21/2000	ug/kg	1,4-Oxathiane	235 U	78,000	
				OU4-AU25-2	11/21/2000	ug/kg	Thiodiglycol	589 U	39,100	
				OU4-AU25-3	11/21/2000	ug/kg	1,4-Dithiane	110 U	78,000	
				OU4-AU25-3	11/21/2000	ug/kg	1,4-Oxathiane	220 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU25-3	11/21/2000	ug/kg	Thiodiglycol	560 U	39,100	
				OU4-AU25-4	11/21/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU25-4	11/21/2000	ug/kg	1,4-Oxathiane	233 U	78,000	
				OU4-AU25-4	11/21/2000	ug/kg	Thiodiglycol	570 U	39,100	
				OU4-AU25-SB10	11/21/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU25-SB10	11/21/2000	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU4-AU25-SB10	11/21/2000	ug/kg	Thiodiglycol	574 U	39,100	
				OU4-AU25-SB2	11/21/2000	ug/kg	1,4-Dithiane	110 U	78,000	
				OU4-AU25-SB2	11/21/2000	ug/kg	1,4-Oxathiane	220 U	78,000	
				OU4-AU25-SB2	11/21/2000	ug/kg	Thiodiglycol	551 U	39,100	
				OU4-AU25-SB4	11/21/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU25-SB4	11/21/2000	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU4-AU25-SB4	11/21/2000	ug/kg	Thiodiglycol	572 U	39,100	
				OU4-AU25-SB6	11/21/2000	ug/kg	1,4-Dithiane	111 U	78,000	
				OU4-AU25-SB6	11/21/2000	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU4-AU25-SB6	11/21/2000	ug/kg	Thiodiglycol	552 U	39,100	
				OU4-AU25-SB8	11/21/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU25-SB8	11/21/2000	ug/kg	1,4-Oxathiane	232 U	78,000	
				OU4-AU25-SB8	11/21/2000	ug/kg	Thiodiglycol	580 U	39,100	
				OU4-AU25-SBDUP05	11/21/2000	ug/kg	1,4-Dithiane	113 U	78,000	
				OU4-AU25-SBDUP05	11/21/2000	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU4-AU25-SBDUP05	11/21/2000	ug/kg	Thiodiglycol	563 U	39,100	
OU4	**OU4**		**4400 Massachusetts Avenue, Lot 26**							**No**
				OU4-AU26-1	11/21/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU26-1	11/21/2000	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU4-AU26-1	11/21/2000	ug/kg	Thiodiglycol	607 U	39,100	
				OU4-AU26-2	11/21/2000	ug/kg	1,4-Dithiane	113 U	78,000	
				OU4-AU26-2	11/21/2000	ug/kg	1,4-Oxathiane	226 U	78,000	
				OU4-AU26-2	11/21/2000	ug/kg	Thiodiglycol	558 U	39,100	
				OU4-AU26-3	11/21/2000	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU26-3	11/21/2000	ug/kg	1,4-Oxathiane	236 U	78,000	
				OU4-AU26-3	11/21/2000	ug/kg	Thiodiglycol	589 U	39,100	
				OU4-AU26-4	11/21/2000	ug/kg	1,4-Dithiane	141 U	78,000	
				OU4-AU26-4	11/21/2000	ug/kg	1,4-Oxathiane	283 U	78,000	
				OU4-AU26-4	11/21/2000	ug/kg	Thiodiglycol	707 U	39,100	
				OU4-AU26-DUP05	11/21/2000	ug/kg	1,4-Dithiane	128 U	78,000	
				OU4-AU26-DUP05	11/21/2000	ug/kg	1,4-Oxathiane	256 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU26-DUP05	11/21/2000	ug/kg	Thiodiglycol	640 U	39,100	
				OU4-AU26-SB10	11/21/2000	ug/kg	1,4-Dithiane	123 U	78,000	
				OU4-AU26-SB10	11/21/2000	ug/kg	1,4-Oxathiane	245 U	78,000	
				OU4-AU26-SB10	11/21/2000	ug/kg	Thiodiglycol	607 U	39,100	
				OU4-AU26-SB2	11/21/2000	ug/kg	1,4-Dithiane	110 U	78,000	
				OU4-AU26-SB2	11/21/2000	ug/kg	1,4-Oxathiane	220 U	78,000	
				OU4-AU26-SB2	11/21/2000	ug/kg	Thiodiglycol	550 U	39,100	
				OU4-AU26-SB4	11/21/2000	ug/kg	1,4-Dithiane	108 U	78,000	
				OU4-AU26-SB4	11/21/2000	ug/kg	1,4-Oxathiane	216 U	78,000	
				OU4-AU26-SB4	11/21/2000	ug/kg	Thiodiglycol	535 U	39,100	
				OU4-AU26-SB6	11/21/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU26-SB6	11/21/2000	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU4-AU26-SB6	11/21/2000	ug/kg	Thiodiglycol	560 U	39,100	
				OU4-AU26-SB8	11/21/2000	ug/kg	1,4-Dithiane	122 U	78,000	
				OU4-AU26-SB8	11/21/2000	ug/kg	1,4-Oxathiane	243 U	78,000	
				OU4-AU26-SB8	11/21/2000	ug/kg	Thiodiglycol	614 U	39,100	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 27*							*No*
				OU4-AU27-1	11/22/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU27-1	11/22/2000	ug/kg	1,4-Oxathiane	242 U	78,000	
				OU4-AU27-1	11/22/2000	ug/kg	Thiodiglycol	606 U	39,100	
				OU4-AU27-2	11/22/2000	ug/kg	1,4-Dithiane	130 U	78,000	
				OU4-AU27-2	11/22/2000	ug/kg	1,4-Oxathiane	259 U	78,000	
				OU4-AU27-2	11/22/2000	ug/kg	Thiodiglycol	642 U	39,100	
				OU4-AU27-3	11/22/2000	ug/kg	1,4-Dithiane	141 U	78,000	
				OU4-AU27-3	11/22/2000	ug/kg	1,4-Oxathiane	282 U	78,000	
				OU4-AU27-3	11/22/2000	ug/kg	Thiodiglycol	712 U	39,100	
				OU4-AU27-4	11/22/2000	ug/kg	1,4-Dithiane	134 U	78,000	
				OU4-AU27-4	11/22/2000	ug/kg	1,4-Oxathiane	269 U	78,000	
				OU4-AU27-4	11/22/2000	ug/kg	Thiodiglycol	692 U	39,100	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 28*							*No*
				OU4-AU28-1	11/22/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU28-1	11/22/2000	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU4-AU28-1	11/22/2000	ug/kg	Thiodiglycol	602 U	39,100	
				OU4-AU28-2	11/22/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU28-2	11/22/2000	ug/kg	1,4-Oxathiane	239 U	78,000	
				OU4-AU28-2	11/22/2000	ug/kg	Thiodiglycol	598 U	39,100	
				OU4-AU28-3	11/22/2000	ug/kg	1,4-Dithiane	112 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU28-3	11/22/2000	ug/kg	1,4-Oxathiane	224 U	78,000	
				OU4-AU28-3	11/22/2000	ug/kg	Thiodiglycol	544 U	39,100	
				OU4-AU28-4	11/22/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU28-4	11/22/2000	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU4-AU28-4	11/22/2000	ug/kg	Thiodiglycol	572 U	39,100	
				OU4-AU28-SB10	11/21/2000	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU28-SB10	11/21/2000	ug/kg	1,4-Oxathiane	249 U	78,000	
				OU4-AU28-SB10	11/21/2000	ug/kg	Thiodiglycol	622 U	39,100	
				OU4-AU28-SB2	11/21/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU28-SB2	11/21/2000	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU4-AU28-SB2	11/21/2000	ug/kg	Thiodiglycol	562 U	39,100	
				OU4-AU28-SB4	11/21/2000	ug/kg	1,4-Dithiane	113 U	78,000	
				OU4-AU28-SB4	11/21/2000	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU4-AU28-SB4	11/21/2000	ug/kg	Thiodiglycol	572 U	39,100	
				OU4-AU28-SB6	11/21/2000	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU28-SB6	11/21/2000	ug/kg	1,4-Oxathiane	239 U	78,000	
				OU4-AU28-SB6	11/21/2000	ug/kg	Thiodiglycol	598 U	39,100	
				OU4-AU28-SB8	11/21/2000	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU28-SB8	11/21/2000	ug/kg	1,4-Oxathiane	248 U	78,000	
				OU4-AU28-SB8	11/21/2000	ug/kg	Thiodiglycol	632 U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 29							No
				OU4-AU29-1	2/27/2001	ug/kg	1,4-Dithiane	129 U	78,000	
				OU4-AU29-1	2/27/2001	ug/kg	1,4-Oxathiane	258 U	78,000	
				OU4-AU29-1	2/27/2001	ug/kg	Thiodiglycol	644 U	39,100	
				OU4-AU29-2	2/27/2001	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU29-2	2/27/2001	ug/kg	1,4-Oxathiane	248 U	78,000	
				OU4-AU29-2	2/27/2001	ug/kg	Thiodiglycol	620 U	39,100	
				OU4-AU29-3	2/27/2001	ug/kg	1,4-Dithiane	127 U	78,000	
				OU4-AU29-3	2/27/2001	ug/kg	1,4-Oxathiane	254 U	78,000	
				OU4-AU29-3	2/27/2001	ug/kg	Thiodiglycol	628 U	39,100	
				OU4-AU29-4	2/27/2001	ug/kg	1,4-Dithiane	123 U	78,000	
				OU4-AU29-4	2/27/2001	ug/kg	1,4-Oxathiane	246 U	78,000	
				OU4-AU29-4	2/27/2001	ug/kg	Thiodiglycol	631 U	39,100	
				OU4-AU29-SB10	2/27/2001	ug/kg	1,4-Dithiane	129 U	78,000	
				OU4-AU29-SB10	2/27/2001	ug/kg	1,4-Oxathiane	258 U	78,000	
				OU4-AU29-SB10	2/27/2001	ug/kg	Thiodiglycol	646 U	39,100	
				OU4-AU29-SB2	2/27/2001	ug/kg	1,4-Dithiane	121 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU29-SB2	2/27/2001	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU4-AU29-SB2	2/27/2001	ug/kg	Thiodiglycol	604 U	39,100	
				OU4-AU29-SB4	2/27/2001	ug/kg	1,4-Dithiane	117 U	78,000	
				OU4-AU29-SB4	2/27/2001	ug/kg	1,4-Oxathiane	233 U	78,000	
				OU4-AU29-SB4	2/27/2001	ug/kg	Thiodiglycol	583 U	39,100	
				OU4-AU29-SB6	2/27/2001	ug/kg	1,4-Dithiane	122 U	78,000	
				OU4-AU29-SB6	2/27/2001	ug/kg	1,4-Oxathiane	245 U	78,000	
				OU4-AU29-SB6	2/27/2001	ug/kg	Thiodiglycol	612 U	39,100	
				OU4-AU29-SB8	2/27/2001	ug/kg	1,4-Dithiane	122 U	78,000	
				OU4-AU29-SB8	2/27/2001	ug/kg	1,4-Oxathiane	245 U	78,000	
				OU4-AU29-SB8	2/27/2001	ug/kg	Thiodiglycol	611 U	39,100	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 3*							*No*
				OU4-AU03-1	11/13/2000	ug/kg	1,4-Dithiane	125 U	78,000	
				OU4-AU03-1	11/13/2000	ug/kg	1,4-Oxathiane	251 U	78,000	
				OU4-AU03-1	11/13/2000	ug/kg	Thiodiglycol	633 U	39,100	
				OU4-AU03-2	11/13/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU03-2	11/13/2000	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU4-AU03-2	11/13/2000	ug/kg	Thiodiglycol	597 U	39,100	
				OU4-AU03-3	11/13/2000	ug/kg	1,4-Dithiane	132 U	78,000	
				OU4-AU03-3	11/13/2000	ug/kg	1,4-Oxathiane	265 U	78,000	
				OU4-AU03-3	11/13/2000	ug/kg	Thiodiglycol	642 U	39,100	
				OU4-AU03-4	11/13/2000	ug/kg	1,4-Dithiane	110 U	78,000	
				OU4-AU03-4	11/13/2000	ug/kg	1,4-Oxathiane	221 U	78,000	
				OU4-AU03-4	11/13/2000	ug/kg	Thiodiglycol	574 U	39,100	
				OU4-AU03-SB2	11/13/2000	ug/kg	1,4-Dithiane	108 U	78,000	
				OU4-AU03-SB2	11/13/2000	ug/kg	1,4-Oxathiane	216 U	78,000	
				OU4-AU03-SB2	11/13/2000	ug/kg	Thiodiglycol	535 U	39,100	
				OU4-AU03-SB4	11/13/2000	ug/kg	1,4-Dithiane	104 U	78,000	
				OU4-AU03-SB4	11/13/2000	ug/kg	1,4-Oxathiane	208 U	78,000	
				OU4-AU03-SB4	11/13/2000	ug/kg	Thiodiglycol	537 U	39,100	
				OU4-AU03-SB6	11/13/2000	ug/kg	1,4-Dithiane	111 U	78,000	
				OU4-AU03-SB6	11/13/2000	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU4-AU03-SB6	11/13/2000	ug/kg	Thiodiglycol	568 U	39,100	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 30*							*No*
				OU4-AU30-1	2/27/2001	ug/kg	1,4-Dithiane	128 U	78,000	
				OU4-AU30-1	2/27/2001	ug/kg	1,4-Oxathiane	255 U	78,000	
				OU4-AU30-1	2/27/2001	ug/kg	Thiodiglycol	631 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU30-2	2/27/2001	ug/kg	1,4-Dithiane	132 U	78,000	
				OU4-AU30-2	2/27/2001	ug/kg	1,4-Oxathiane	264 U	78,000	
				OU4-AU30-2	2/27/2001	ug/kg	Thiodiglycol	654 U	39,100	
				OU4-AU30-3	2/27/2001	ug/kg	1,4-Dithiane	122 U	78,000	
				OU4-AU30-3	2/27/2001	ug/kg	1,4-Oxathiane	244 U	78,000	
				OU4-AU30-3	2/27/2001	ug/kg	Thiodiglycol	610 U	39,100	
				OU4-AU30-4	2/27/2001	ug/kg	1,4-Dithiane	122 U	78,000	
				OU4-AU30-4	2/27/2001	ug/kg	1,4-Oxathiane	244 U	78,000	
				OU4-AU30-4	2/27/2001	ug/kg	Thiodiglycol	610 U	39,100	
				OU4-AU30-DUP-01	2/27/2001	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU30-DUP-01	2/27/2001	ug/kg	1,4-Oxathiane	236 U	78,000	
				OU4-AU30-DUP-01	2/27/2001	ug/kg	Thiodiglycol	591 U	39,100	
				OU4-AU30-SB-2	2/27/2001	ug/kg	1,4-Dithiane	125 U	78,000	
				OU4-AU30-SB-2	2/27/2001	ug/kg	1,4-Oxathiane	250 U	78,000	
				OU4-AU30-SB-2	2/27/2001	ug/kg	Thiodiglycol	625 U	39,100	
				OU4-AU30-SB-4	2/27/2001	ug/kg	1,4-Dithiane	136 U	78,000	
				OU4-AU30-SB-4	2/27/2001	ug/kg	1,4-Oxathiane	272 U	78,000	
				OU4-AU30-SB-4	2/27/2001	ug/kg	Thiodiglycol	673 U	39,100	
				OU4-AU30-SB6	2/27/2001	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU30-SB6	2/27/2001	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU4-AU30-SB6	2/27/2001	ug/kg	Thiodiglycol	600 U	39,100	
				OU4-AU30-SB8	2/27/2001	ug/kg	1,4-Dithiane	120 U	78,000	
				OU4-AU30-SB8	2/27/2001	ug/kg	1,4-Oxathiane	240 U	78,000	
				OU4-AU30-SB8	2/27/2001	ug/kg	Thiodiglycol	601 U	39,100	
				OU4-AU30-SB9	2/27/2001	ug/kg	1,4-Dithiane	132 U	78,000	
				OU4-AU30-SB9	2/27/2001	ug/kg	1,4-Oxathiane	264 U	78,000	
				OU4-AU30-SB9	2/27/2001	ug/kg	Thiodiglycol	661 U	39,100	
				OU4-AU30-SK1	2/27/2001	ug/kg	Thiodiglycol	608 U	39,100	
				OU4-AU30-SK2	2/27/2001	ug/kg	Thiodiglycol	610 U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 4							No
				OU4-AU04-1	11/14/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU04-1	11/14/2000	ug/kg	1,4-Oxathiane	231 U	78,000	
				OU4-AU04-1	11/14/2000	ug/kg	Thiodiglycol	588 U	39,100	
				OU4-AU04-2	11/14/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU04-2	11/14/2000	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU4-AU04-2	11/14/2000	ug/kg	Thiodiglycol	579 U	39,100	
				OU4-AU04-3	11/14/2000	ug/kg	1,4-Dithiane	121 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU04-3	11/14/2000	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU4-AU04-3	11/14/2000	ug/kg	Thiodiglycol	609 U	39,100	
				OU4-AU04-4	11/14/2000	ug/kg	1,4-Dithiane	111 U	78,000	
				OU4-AU04-4	11/14/2000	ug/kg	1,4-Oxathiane	222 U	78,000	
				OU4-AU04-4	11/14/2000	ug/kg	Thiodiglycol	560 U	39,100	
				OU4-AU04-DUP01	11/14/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU04-DUP01	11/14/2000	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU4-AU04-DUP01	11/14/2000	ug/kg	Thiodiglycol	587 U	39,100	
				OU4-AU04-SB2	11/13/2000	ug/kg	1,4-Dithiane	109 U	78,000	
				OU4-AU04-SB2	11/13/2000	ug/kg	1,4-Oxathiane	219 U	78,000	
				OU4-AU04-SB2	11/13/2000	ug/kg	Thiodiglycol	552 U	39,100	
				OU4-AU04-SB4	11/13/2000	ug/kg	1,4-Dithiane	116 U	78,000	
				OU4-AU04-SB4	11/13/2000	ug/kg	1,4-Oxathiane	233 U	78,000	
				OU4-AU04-SB4	11/13/2000	ug/kg	Thiodiglycol	599 U	39,100	
				OU4-AU04-SB6	11/13/2000	ug/kg	1,4-Dithiane	107 U	78,000	
				OU4-AU04-SB6	11/13/2000	ug/kg	1,4-Oxathiane	215 U	78,000	
				OU4-AU04-SB6	11/13/2000	ug/kg	Thiodiglycol	547 U	39,100	
				OU4-AU04-SB8	11/13/2000	ug/kg	1,4-Dithiane	114 U	78,000	
				OU4-AU04-SB8	11/13/2000	ug/kg	1,4-Oxathiane	228 U	78,000	
				OU4-AU04-SB8	11/13/2000	ug/kg	Thiodiglycol	570 U	39,100	
CSA	9		4400 Massachusetts Avenue, Lot 40							No
				OU5-CSA-9-L40-SBA-SB(4-5)	8/16/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L40-SBA-SB(4-5)	8/16/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L40-SBA-SB(4-5)	8/16/2001	ug/kg	1,4-Dithiane	108 U	78,000	
				OU5-CSA-9-L40-SBA-SB(4-5)	8/16/2001	ug/kg	1,4-Oxathiane	217 U	78,000	
				OU5-CSA-9-L40-SBA-SB(4-5)	8/16/2001	ug/kg	Thiodiglycol	542 U	39,100	
				OU5-CSA-9-L40-SBA-SB(4-5)	8/16/2001	mg/kg	Cyanide, Total	0.18 U	160	
				OU5-CSA-9-L40-SBB(4-5)	8/16/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L40-SBB(4-5)	8/16/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L40-SBB(4-5)	8/16/2001	ug/kg	1,4-Dithiane	111 U	78,000	
				OU5-CSA-9-L40-SBB(4-5)	8/16/2001	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU5-CSA-9-L40-SBB(4-5)	8/16/2001	ug/kg	Thiodiglycol	557 U	39,100	
				OU5-CSA-9-L40-SBB(4-5)	8/16/2001	mg/kg	Cyanide, Total	0.18 U	160	
				OU5-CSA-9-L40-SBB-DUP06	8/16/2001	ug/kg	CVAA/CVAO	40 U	890	
CSA	9		4400 Massachusetts Avenue, Lot 41							No
				OU5-CSA-9-L41-SBA(2-3)	8/16/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L41-SBA(2-3)	8/16/2001	ug/kg	Sulfur Mustard	40 U	10	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU5-CSA-9-L41-SBA(2-3)	8/16/2001	ug/kg	1,4-Dithiane	121 U	78,000	
				OU5-CSA-9-L41-SBA(2-3)	8/16/2001	ug/kg	1,4-Oxathiane	243 U	78,000	
				OU5-CSA-9-L41-SBA(2-3)	8/16/2001	ug/kg	Thiodiglycol	606 U	39,100	
				OU5-CSA-9-L41-SBA(2-3)	8/16/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-9-L41-SBB(3.5-4.5)	8/16/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L41-SBB(3.5-4.5)	8/16/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L41-SBB(3.5-4.5)	8/16/2001	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-9-L41-SBB(3.5-4.5)	8/16/2001	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU5-CSA-9-L41-SBB(3.5-4.5)	8/16/2001	ug/kg	Thiodiglycol	602 U	39,100	
				OU5-CSA-9-L41-SBB(3.5-4.5)	8/16/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-9-L41-SBB-DUP06	8/16/2001	mg/kg	Cyanide, Total	0.18 U	160	
				OU5-CSA-9-L41-SBC(3.5-4.5)	8/16/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L41-SBC(3.5-4.5)	8/16/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L41-SBC(3.5-4.5)	8/16/2001	ug/kg	1,4-Dithiane	116 U	78,000	
				OU5-CSA-9-L41-SBC(3.5-4.5)	8/16/2001	ug/kg	1,4-Oxathiane	232 U	78,000	
				OU5-CSA-9-L41-SBC(3.5-4.5)	8/16/2001	ug/kg	Thiodiglycol	581 U	39,100	
				OU5-CSA-9-L41-SBC(3.5-4.5)	8/16/2001	mg/kg	Cyanide, Total	0.17 U	160	
				OU5-CSA-9-L41-SBD(3-4)	8/16/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L41-SBD(3-4)	8/16/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L41-SBD(3-4)	8/16/2001	ug/kg	1,4-Dithiane	114 U	78,000	
				OU5-CSA-9-L41-SBD(3-4)	8/16/2001	ug/kg	1,4-Oxathiane	228 U	78,000	
				OU5-CSA-9-L41-SBD(3-4)	8/16/2001	ug/kg	Thiodiglycol	570 U	39,100	
				OU5-CSA-9-L41-SBD(3-4)	8/16/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-9-L41-SBD-DUP07	8/16/2001	ug/kg	1,4-Dithiane	112 U	78,000	
				OU5-CSA-9-L41-SBD-DUP07	8/16/2001	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU5-CSA-9-L41-SBD-DUP07	8/16/2001	ug/kg	Thiodiglycol	562 U	39,100	
CSA	**9**		**4400 Massachusetts Avenue, Lot 42**							**No**
				OU5-CSA-9-L42-SB(5-6)	8/16/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L42-SB(5-6)	8/16/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L42-SB(5-6)	8/16/2001	ug/kg	1,4-Dithiane	119 U	78,000	
				OU5-CSA-9-L42-SB(5-6)	8/16/2001	ug/kg	1,4-Oxathiane	237 U	78,000	
				OU5-CSA-9-L42-SB(5-6)	8/16/2001	ug/kg	Thiodiglycol	592 U	39,100	
				OU5-CSA-9-L42-SB(5-6)	8/16/2001	mg/kg	Cyanide, Total	0.2 U	160	
CSA	**9**		**4400 Massachusetts Avenue, Lot 44**							**No**
				OU5-CSA-9-L44-SB(4-5)	1/8/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-9-L44-SB(4-5)	1/8/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-9-L44-SB(4-5)	1/8/2002	ug/kg	1,4-Dithiane	127.6 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-9-L44-SB(4-5)	1/8/2002	ug/kg	1,4-Oxathiane	255.1	UJ	78,000	
				OU5-CSA-9-L44-SB(4-5)	1/8/2002	ug/kg	Thiodiglycol	640	U	39,100	
				OU5-CSA-9-L44-SB(4-5)	1/8/2002	mg/kg	Cyanide, Total	0.194	U	160	
CSA	*9*		*4400 Massachusetts Avenue, Lot 47*								*No*
				OU5-CSA-9-L47-SB(5-6)	8/15/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-9-L47-SB(5-6)	8/15/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-9-L47-SB(5-6)	8/15/2001	ug/kg	1,4-Dithiane	115	U	78,000	
				OU5-CSA-9-L47-SB(5-6)	8/15/2001	ug/kg	1,4-Oxathiane	230	U	78,000	
				OU5-CSA-9-L47-SB(5-6)	8/15/2001	ug/kg	Thiodiglycol	576	U	39,100	
				OU5-CSA-9-L47-SB(5-6)	8/15/2001	mg/kg	Cyanide, Total	0.18	U	160	
				OU5-CSA-9-L47-SB-DUP07	8/15/2001	ug/kg	Sulfur Mustard	40	U	10	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 5*								*No*
				OU4-AU05-1	11/14/2000	ug/kg	1,4-Dithiane	112	U	78,000	
				OU4-AU05-1	11/14/2000	ug/kg	1,4-Oxathiane	223	U	78,000	
				OU4-AU05-1	11/14/2000	ug/kg	Thiodiglycol	547	U	39,100	
				OU4-AU05-2	11/14/2000	ug/kg	1,4-Dithiane	116	U	78,000	
				OU4-AU05-2	11/14/2000	ug/kg	1,4-Oxathiane	232	U	78,000	
				OU4-AU05-2	11/14/2000	ug/kg	Thiodiglycol	603	U	39,100	
				OU4-AU05-3	11/14/2000	ug/kg	1,4-Dithiane	130	U	78,000	
				OU4-AU05-3	11/14/2000	ug/kg	1,4-Oxathiane	259	U	78,000	
				OU4-AU05-3	11/14/2000	ug/kg	Thiodiglycol	642	U	39,100	
				OU4-AU05-4	11/14/2000	ug/kg	1,4-Dithiane	137	U	78,000	
				OU4-AU05-4	11/14/2000	ug/kg	1,4-Oxathiane	273	U	78,000	
				OU4-AU05-4	11/14/2000	ug/kg	Thiodiglycol	677	U	39,100	
				OU4-AU05-SB-8	11/14/2000	ug/kg	1,4-Dithiane	107	U	78,000	
				OU4-AU05-SB-8	11/14/2000	ug/kg	1,4-Oxathiane	214	U	78,000	
				OU4-AU05-SB-8	11/14/2000	ug/kg	Thiodiglycol	524	U	39,100	
				OU4-AU05-SB10	11/14/2000	ug/kg	1,4-Dithiane	110	U	78,000	
				OU4-AU05-SB10	11/14/2000	ug/kg	1,4-Oxathiane	220	U	78,000	
				OU4-AU05-SB10	11/14/2000	ug/kg	Thiodiglycol	556	U	39,100	
				OU4-AU05-SB2	11/14/2000	ug/kg	1,4-Dithiane	106	U	78,000	
				OU4-AU05-SB2	11/14/2000	ug/kg	1,4-Oxathiane	212	U	78,000	
				OU4-AU05-SB2	11/14/2000	ug/kg	Thiodiglycol	530	U	39,100	
				OU4-AU05-SB4	11/14/2000	ug/kg	1,4-Dithiane	107	U	78,000	
				OU4-AU05-SB4	11/14/2000	ug/kg	1,4-Oxathiane	214	U	78,000	
				OU4-AU05-SB4	11/14/2000	ug/kg	Thiodiglycol	534	U	39,100	
				OU4-AU05-SB6	11/14/2000	ug/kg	1,4-Dithiane	110	U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU4-AU05-SB6	11/14/2000	ug/kg	1,4-Oxathiane	220	U	78,000	
				OU4-AU05-SB6	11/14/2000	ug/kg	Thiodiglycol	555	U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 6								No
				OU4-AU06-1	11/14/2000	ug/kg	1,4-Dithiane	118	U	78,000	
				OU4-AU06-1	11/14/2000	ug/kg	1,4-Oxathiane	236	U	78,000	
				OU4-AU06-1	11/14/2000	ug/kg	Thiodiglycol	589	U	39,100	
				OU4-AU06-2	11/14/2000	ug/kg	1,4-Dithiane	137	U	78,000	
				OU4-AU06-2	11/14/2000	ug/kg	1,4-Oxathiane	273	U	78,000	
				OU4-AU06-2	11/14/2000	ug/kg	Thiodiglycol	2100		39,100	
				OU4-AU06-3	11/14/2000	ug/kg	1,4-Dithiane	116	U	78,000	
				OU4-AU06-3	11/14/2000	ug/kg	1,4-Oxathiane	232	U	78,000	
				OU4-AU06-3	11/14/2000	ug/kg	Thiodiglycol	585	U	39,100	
				OU4-AU06-4	11/14/2000	ug/kg	1,4-Dithiane	117	U	78,000	
				OU4-AU06-4	11/14/2000	ug/kg	1,4-Oxathiane	234	U	78,000	
				OU4-AU06-4	11/14/2000	ug/kg	Thiodiglycol	579	U	39,100	
				OU4-AU06-SB-DUP01	11/14/2000	ug/kg	1,4-Dithiane	114	U	78,000	
				OU4-AU06-SB-DUP01	11/14/2000	ug/kg	1,4-Oxathiane	228	U	78,000	
				OU4-AU06-SB-DUP01	11/14/2000	ug/kg	Thiodiglycol	569	U	39,100	
				OU4-AU06-SB2	11/14/2000	ug/kg	1,4-Dithiane	109	U	78,000	
				OU4-AU06-SB2	11/14/2000	ug/kg	1,4-Oxathiane	218	U	78,000	
				OU4-AU06-SB2	11/14/2000	ug/kg	Thiodiglycol	555	U	39,100	
				OU4-AU06-SB4	11/14/2000	ug/kg	1,4-Dithiane	113	U	78,000	
				OU4-AU06-SB4	11/14/2000	ug/kg	1,4-Oxathiane	227	U	78,000	
				OU4-AU06-SB4	11/14/2000	ug/kg	Thiodiglycol	572	U	39,100	
				OU4-AU06-SB6	11/14/2000	ug/kg	1,4-Dithiane	115	U	78,000	
				OU4-AU06-SB6	11/14/2000	ug/kg	1,4-Oxathiane	230	U	78,000	
				OU4-AU06-SB6	11/14/2000	ug/kg	Thiodiglycol	593	U	39,100	
OU4	OU4		4400 Massachusetts Avenue, Lot 7								No
				OU4-AU07-1	11/14/2000	ug/kg	1,4-Dithiane	123	U	78,000	
				OU4-AU07-1	11/14/2000	ug/kg	1,4-Oxathiane	246	U	78,000	
				OU4-AU07-1	11/14/2000	ug/kg	Thiodiglycol	616	U	39,100	
				OU4-AU07-2	11/14/2000	ug/kg	1,4-Dithiane	128	U	78,000	
				OU4-AU07-2	11/14/2000	ug/kg	1,4-Oxathiane	255	U	78,000	
				OU4-AU07-2	11/14/2000	ug/kg	Thiodiglycol	632	U	39,100	
				OU4-AU07-3	11/14/2000	ug/kg	1,4-Dithiane	118	U	78,000	
				OU4-AU07-3	11/14/2000	ug/kg	1,4-Oxathiane	236	U	78,000	
				OU4-AU07-3	11/14/2000	ug/kg	Thiodiglycol	584	U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU07-4	11/14/2000	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU07-4	11/14/2000	ug/kg	1,4-Oxathiane	248 U	78,000	
				OU4-AU07-4	11/14/2000	ug/kg	Thiodiglycol	603 U	39,100	
				OU4-AU07-SB2	11/14/2000	ug/kg	1,4-Dithiane	115 U	78,000	
				OU4-AU07-SB2	11/14/2000	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU4-AU07-SB2	11/14/2000	ug/kg	Thiodiglycol	584 U	39,100	
				OU4-AU07-SB3	11/14/2000	ug/kg	1,4-Dithiane	107 U	78,000	
				OU4-AU07-SB3	11/14/2000	ug/kg	1,4-Oxathiane	214 U	78,000	
				OU4-AU07-SB3	11/14/2000	ug/kg	Thiodiglycol	513 U	39,100	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 8*							*No*
				OU4-AU08-1	11/15/2000	ug/kg	1,4-Dithiane	124 U	78,000	
				OU4-AU08-1	11/15/2000	ug/kg	1,4-Oxathiane	248 U	78,000	
				OU4-AU08-1	11/15/2000	ug/kg	Thiodiglycol	614 U	39,100	
				OU4-AU08-2	11/15/2000	ug/kg	1,4-Dithiane	119 U	78,000	
				OU4-AU08-2	11/15/2000	ug/kg	1,4-Oxathiane	238 U	78,000	
				OU4-AU08-2	11/15/2000	ug/kg	Thiodiglycol	619 U	39,100	
				OU4-AU08-3	11/15/2000	ug/kg	1,4-Dithiane	122 U	78,000	
				OU4-AU08-3	11/15/2000	ug/kg	1,4-Oxathiane	243 U	78,000	
				OU4-AU08-3	11/15/2000	ug/kg	Thiodiglycol	608 U	39,100	
				OU4-AU08-4	11/15/2000	ug/kg	1,4-Dithiane	125 U	78,000	
				OU4-AU08-4	11/15/2000	ug/kg	1,4-Oxathiane	249 U	78,000	
				OU4-AU08-4	11/15/2000	ug/kg	Thiodiglycol	611 U	39,100	
				OU4-AU08-SB2	11/15/2000	ug/kg	1,4-Dithiane	110 U	78,000	
				OU4-AU08-SB2	11/15/2000	ug/kg	1,4-Oxathiane	220 U	78,000	
				OU4-AU08-SB2	11/15/2000	ug/kg	Thiodiglycol	545 U	39,100	
				OU4-AU08-SB4	11/15/2000	ug/kg	1,4-Dithiane	104 U	78,000	
				OU4-AU08-SB4	11/15/2000	ug/kg	1,4-Oxathiane	209 U	78,000	
				OU4-AU08-SB4	11/15/2000	ug/kg	Thiodiglycol	528 U	39,100	
				OU4-AU08-SB6	11/15/2000	ug/kg	1,4-Dithiane	107 U	78,000	
				OU4-AU08-SB6	11/15/2000	ug/kg	1,4-Oxathiane	213 U	78,000	
				OU4-AU08-SB6	11/15/2000	ug/kg	Thiodiglycol	528 U	39,100	
OU4	*OU4*		*4400 Massachusetts Avenue, Lot 9*							*No*
				OU4-AU09-1	11/15/2000	ug/kg	1,4-Dithiane	134 U	78,000	
				OU4-AU09-1	11/15/2000	ug/kg	1,4-Oxathiane	268 U	78,000	
				OU4-AU09-1	11/15/2000	ug/kg	Thiodiglycol	664 U	39,100	
				OU4-AU09-2	11/15/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU4-AU09-2	11/15/2000	ug/kg	1,4-Oxathiane	243 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU4-AU09-2	11/15/2000	ug/kg	Thiodiglycol	601 U	39,100	
				OU4-AU09-3	11/15/2000	ug/kg	1,4-Dithiane	118 U	78,000	
				OU4-AU09-3	11/15/2000	ug/kg	1,4-Oxathiane	237 U	78,000	
				OU4-AU09-3	11/15/2000	ug/kg	Thiodiglycol	574 U	39,100	
				OU4-AU09-4	11/15/2000	ug/kg	1,4-Dithiane	113 U	78,000	
				OU4-AU09-4	11/15/2000	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU4-AU09-4	11/15/2000	ug/kg	Thiodiglycol	563 U	39,100	
				OU4-AU09-SB2	11/15/2000	ug/kg	1,4-Dithiane	111 U	78,000	
				OU4-AU09-SB2	11/15/2000	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU4-AU09-SB2	11/15/2000	ug/kg	Thiodiglycol	557 U	39,100	
				OU4-AU09-SB4	11/15/2000	ug/kg	1,4-Dithiane	102 U	78,000	
				OU4-AU09-SB4	11/15/2000	ug/kg	1,4-Oxathiane	205 U	78,000	
				OU4-AU09-SB4	11/15/2000	ug/kg	Thiodiglycol	512 U	39,100	
				OU4-AU09-SB6	11/15/2000	ug/kg	1,4-Dithiane	104 U	78,000	
				OU4-AU09-SB6	11/15/2000	ug/kg	1,4-Oxathiane	207 U	78,000	
				OU4-AU09-SB6	11/15/2000	ug/kg	Thiodiglycol	513 U	39,100	
CSA	*6*		*4409 Warren Street*							*No*
				OU5-CSA-6-4409WS-SB(8.5-9.5)	8/7/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4409WS-SB(8.5-9.5)	8/7/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4409WS-SB(8.5-9.5)	8/7/2001	ug/kg	1,4-Dithiane	136 U	78,000	
				OU5-CSA-6-4409WS-SB(8.5-9.5)	8/7/2001	ug/kg	1,4-Oxathiane	271 U	78,000	
				OU5-CSA-6-4409WS-SB(8.5-9.5)	8/7/2001	ug/kg	Thiodiglycol	678 U	39,100	
				OU5-CSA-6-4409WS-SB(8.5-9.5)	8/7/2001	mg/kg	Cyanide, Total	0.21 U	160	
CSA	*6*		*4410 42nd Street*							*No*
				OU5-CSA-6-4410(42)-SB(8.5-9.5)	8/7/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4410(42)-SB(8.5-9.5)	8/7/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4410(42)-SB(8.5-9.5)	8/7/2001	ug/kg	1,4-Dithiane	116 U	78,000	
				OU5-CSA-6-4410(42)-SB(8.5-9.5)	8/7/2001	ug/kg	1,4-Oxathiane	232 U	78,000	
				OU5-CSA-6-4410(42)-SB(8.5-9.5)	8/7/2001	ug/kg	Thiodiglycol	580 U	39,100	
				OU5-CSA-6-4410(42)-SB(8.5-9.5)	8/7/2001	mg/kg	Cyanide, Total	0.19 U	160	
CSA	*6*		*4420 Windom Place*							*No*
				OU5-CSA-6-4420WinP-SB(3-4)	10/9/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-6-4420WinP-SB(3-4)	10/9/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-6-4420WinP-SB(3-4)	10/9/2001	ug/kg	1,4-Dithiane	124 U	78,000	
				OU5-CSA-6-4420WinP-SB(3-4)	10/9/2001	ug/kg	1,4-Oxathiane	249 U	78,000	
				OU5-CSA-6-4420WinP-SB(3-4)	10/9/2001	ug/kg	Thiodiglycol	622 U	39,100	

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				OU5-CSA-6-4420WinP-SB(3-4)	10/9/2001	mg/kg	Cyanide, Total	0.22	U	160	
				OU5-CSA-6-4420WinP-SB-DUP09	10/9/2001	ug/kg	CVAA/CVAO	40	U	890	
CSA	6		4422 42nd Street								No
				OU5-CSA-6-4422(42)-SB(9-10)	8/14/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-6-4422(42)-SB(9-10)	8/14/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-6-4422(42)-SB(9-10)	8/14/2001	ug/kg	1,4-Dithiane	121	U	78,000	
				OU5-CSA-6-4422(42)-SB(9-10)	8/14/2001	ug/kg	1,4-Oxathiane	241	U	78,000	
				OU5-CSA-6-4422(42)-SB(9-10)	8/14/2001	ug/kg	Thiodiglycol	604	U	39,100	
				OU5-CSA-6-4422(42)-SB(9-10)	8/14/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	5		4425 Upton Street								No
				OU5-CSA-5-4425US-SB(4.5-5.5)	11/12/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-4425US-SB(4.5-5.5)	11/12/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-4425US-SB(4.5-5.5)	11/12/2001	ug/kg	1,4-Dithiane	114.3	U	78,000	
				OU5-CSA-5-4425US-SB(4.5-5.5)	11/12/2001	ug/kg	1,4-Oxathiane	228.6	U	78,000	
				OU5-CSA-5-4425US-SB(4.5-5.5)	11/12/2001	ug/kg	Thiodiglycol	570	U	39,100	
				OU5-CSA-5-4425US-SB(4.5-5.5)	11/12/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	8		4427 Springdale Street								Yes
				OU5-CSA-8-4427SS-SB(4.5-5.5)	1/14/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-8-4427SS-SB(4.5-5.5)	1/14/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-8-4427SS-SB(4.5-5.5)	1/14/2002	ug/kg	1,4-Dithiane	115.7	U	78,000	
				OU5-CSA-8-4427SS-SB(4.5-5.5)	1/14/2002	ug/kg	1,4-Oxathiane	231.5	U	78,000	
				OU5-CSA-8-4427SS-SB(4.5-5.5)	1/14/2002	ug/kg	Thiodiglycol	580	U	39,100	
				OU5-CSA-8-4427SS-SB(4.5-5.5)	1/14/2002	mg/kg	Cyanide, Total	0.181	U	160	
CSA	8		4434 Springdale Street								No
				OU5-CSA-8-4434SS-SB(2-3)	12/4/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-8-4434SS-SB(2-3)	12/4/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-8-4434SS-SB(2-3)	12/4/2001	ug/kg	1,4-Dithiane	120.8	UJ	78,000	
				OU5-CSA-8-4434SS-SB(2-3)	12/4/2001	ug/kg	1,4-Oxathiane	241.5	UJ	78,000	
				OU5-CSA-8-4434SS-SB(2-3)	12/4/2001	ug/kg	Thiodiglycol	604	U	39,100	
				OU5-CSA-8-4434SS-SB(2-3)	12/4/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	8		4438 Tindall Street								Yes
				OU5-CSA-8-4438TinS-SB(4-5)	9/24/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-8-4438TinS-SB(4-5)	9/24/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-8-4438TinS-SB(4-5)	9/24/2001	ug/kg	1,4-Dithiane	122	U	78,000	
				OU5-CSA-8-4438TinS-SB(4-5)	9/24/2001	ug/kg	1,4-Oxathiane	243	U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU5-CSA-8-4438TinS-SB(4-5)	9/24/2001	ug/kg	Thiodiglycol	608 U	39,100	
				OU5-CSA-8-4438TinS-SB(4-5)	9/24/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-8-4438TinS-SB-DUP08	9/24/2001	mg/kg	Cyanide, Total	0.19 U	160	
CSA	8		4442 Tindall Street							Yes
				OU5-CSA-8-4442TinS-SB(3-4)	2/20/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-8-4442TinS-SB(3-4)	2/20/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-8-4442TinS-SB(3-4)	2/20/2002	ug/kg	1,4-Dithiane	150 U	78,000	
				OU5-CSA-8-4442TinS-SB(3-4)	2/20/2002	ug/kg	1,4-Oxathiane	300 U	78,000	
				OU5-CSA-8-4442TinS-SB(3-4)	2/20/2002	ug/kg	Thiodiglycol	750 U	39,100	
				OU5-CSA-8-4442TinS-SB(3-4)	2/20/2002	mg/kg	Cyanide, Total	0.222 U	160	
CSA	8		4443 Springdale Street							No
				OU5-CSA-8-4443SS-SB(7-8)	10/1/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-8-4443SS-SB(7-8)	10/1/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-8-4443SS-SB(7-8)	10/1/2001	ug/kg	1,4-Dithiane	124 U	78,000	
				OU5-CSA-8-4443SS-SB(7-8)	10/1/2001	ug/kg	1,4-Oxathiane	248 U	78,000	
				OU5-CSA-8-4443SS-SB(7-8)	10/1/2001	ug/kg	Thiodiglycol	621 U	39,100	
				OU5-CSA-8-4443SS-SB(7-8)	10/1/2001	mg/kg	Cyanide, Total	0.21 U	160	
CSA	8		4446 Tindall Street							Yes
				OU5-CSA-8-4446TinS-SB(4-5)	9/24/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-8-4446TinS-SB(4-5)	9/24/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-8-4446TinS-SB(4-5)	9/24/2001	ug/kg	1,4-Dithiane	119 U	78,000	
				OU5-CSA-8-4446TinS-SB(4-5)	9/24/2001	ug/kg	1,4-Oxathiane	238 U	78,000	
				OU5-CSA-8-4446TinS-SB(4-5)	9/24/2001	ug/kg	Thiodiglycol	595 U	39,100	
				OU5-CSA-8-4446TinS-SB(4-5)	9/24/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-8-4446TinS-SB-DUP09	9/24/2001	ug/kg	Sulfur Mustard	40 U	10	
CSA	8		4448 Springdale Street							No
				OU5-CSA-8-4448SS-SB(4-5)	10/9/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-8-4448SS-SB(4-5)	10/9/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-8-4448SS-SB(4-5)	10/9/2001	ug/kg	1,4-Dithiane	113 U	78,000	
				OU5-CSA-8-4448SS-SB(4-5)	10/9/2001	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU5-CSA-8-4448SS-SB(4-5)	10/9/2001	ug/kg	Thiodiglycol	567 U	39,100	
				OU5-CSA-8-4448SS-SB(4-5)	10/9/2001	mg/kg	Cyanide, Total	0.2 U	160	
CSA	8		4453 Sedgwick Street							No
				OU5-CSA-8-4453SegS-SB(8-9)	7/30/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-8-4453SegS-SB(8-9)	7/30/2001	ug/kg	Sulfur Mustard	40 U	10	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-8-4453SegS-SB(8-9)	7/30/2001	ug/kg	1,4-Dithiane	116	U	78,000	
				OU5-CSA-8-4453SegS-SB(8-9)	7/30/2001	ug/kg	1,4-Oxathiane	232	U	78,000	
				OU5-CSA-8-4453SegS-SB(8-9)	7/30/2001	ug/kg	Thiodiglycol	580	U	39,100	
				OU5-CSA-8-4453SegS-SB(8-9)	7/30/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	*8*		*4456 Springdale Street*								*Yes*
				OU5-CSA-8-4456SS-SB(1.5-2.5)	11/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-8-4456SS-SB(1.5-2.5)	11/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-8-4456SS-SB(1.5-2.5)	11/26/2001	ug/kg	1,4-Dithiane	111.4	U	78,000	
				OU5-CSA-8-4456SS-SB(1.5-2.5)	11/26/2001	ug/kg	1,4-Oxathiane	222.7	U	78,000	
				OU5-CSA-8-4456SS-SB(1.5-2.5)	11/26/2001	ug/kg	Thiodiglycol	560	U	39,100	
				OU5-CSA-8-4456SS-SB(1.5-2.5)	11/26/2001	mg/kg	Cyanide, Total	0.177	U	160	
CSA	*9*		*4500 Massachusetts Avenue, Lot 15*								*No*
				OU5-CSA-9-L15-SBA(4-5)	8/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-9-L15-SBA(4-5)	8/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-9-L15-SBA(4-5)	8/30/2001	ug/kg	1,4-Dithiane	121	U	78,000	
				OU5-CSA-9-L15-SBA(4-5)	8/30/2001	ug/kg	1,4-Oxathiane	243	UJ	78,000	
				OU5-CSA-9-L15-SBA(4-5)	8/30/2001	ug/kg	Thiodiglycol	607	U	39,100	
				OU5-CSA-9-L15-SBA(4-5)	8/30/2001	mg/kg	Cyanide, Total	0.2	U	160	
				OU5-CSA-9-L15-SBB(2-3)	8/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-9-L15-SBB(2-3)	8/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-9-L15-SBB(2-3)	8/30/2001	ug/kg	1,4-Dithiane	109	U	78,000	
				OU5-CSA-9-L15-SBB(2-3)	8/30/2001	ug/kg	1,4-Oxathiane	217	UJ	78,000	
				OU5-CSA-9-L15-SBB(2-3)	8/30/2001	ug/kg	Thiodiglycol	543	U	39,100	
				OU5-CSA-9-L15-SBB(2-3)	8/30/2001	mg/kg	Cyanide, Total	0.16	U	160	
CSA	*9*		*4500 Massachusetts Avenue, Lot 20*								*No*
				OU5-CSA-9-L20-SB(3-4)	8/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-9-L20-SB(3-4)	8/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-9-L20-SB(3-4)	8/30/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CSA-9-L20-SB(3-4)	8/30/2001	ug/kg	1,4-Oxathiane	222	UJ	78,000	
				OU5-CSA-9-L20-SB(3-4)	8/30/2001	ug/kg	Thiodiglycol	554	U	39,100	
				OU5-CSA-9-L20-SB(3-4)	8/30/2001	mg/kg	Cyanide, Total	0.16	U	160	
CSA	*10*		*4615 Rodman Street*								*Yes*
				OU5-CSA-10-4615RS-SB(2.5-3.5)	2/20/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-4615RS-SB(2.5-3.5)	2/20/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-4615RS-SB(2.5-3.5)	2/20/2002	ug/kg	1,4-Dithiane	160	U	78,000	
				OU5-CSA-10-4615RS-SB(2.5-3.5)	2/20/2002	ug/kg	1,4-Oxathiane	310	U	78,000	

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				OU5-CSA-10-4615RS-SB(2.5-3.5)	2/20/2002	ug/kg	Thiodiglycol	780	U	39,100	
				OU5-CSA-10-4615RS-SB(2.5-3.5)	2/20/2002	mg/kg	Cyanide, Total	0.262	U	160	
				OU5-CSA-10-4615RS-SB-DUP11	2/20/2002	mg/kg	Cyanide, Total	0.241	U	160	
CSA	4		4615 Sedgwick Street								No
				OU5-CSA-4-4615SegS-SB(3.5-4.5)	11/12/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-4-4615SegS-SB(3.5-4.5)	11/12/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-4-4615SegS-SB(3.5-4.5)	11/12/2001	ug/kg	1,4-Dithiane	115.9	U	78,000	
				OU5-CSA-4-4615SegS-SB(3.5-4.5)	11/12/2001	ug/kg	1,4-Oxathiane	231.7	U	78,000	
				OU5-CSA-4-4615SegS-SB(3.5-4.5)	11/12/2001	ug/kg	Thiodiglycol	580	U	39,100	
				OU5-CSA-4-4615SegS-SB(3.5-4.5)	11/12/2001	mg/kg	Cyanide, Total	0.17	U	160	
CSA	5		4651 Massachusetts Avenue								Yes
				OU5-CSA-5-4651MA-SB(3-4)	2/20/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-4651MA-SB(3-4)	2/20/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-4651MA-SB(3-4)	2/20/2002	ug/kg	1,4-Dithiane	130	U	78,000	
				OU5-CSA-5-4651MA-SB(3-4)	2/20/2002	ug/kg	1,4-Oxathiane	260	U	78,000	
				OU5-CSA-5-4651MA-SB(3-4)	2/20/2002	ug/kg	Thiodiglycol	660	U	39,100	
				OU5-CSA-5-4651MA-SB(3-4)	2/20/2002	mg/kg	Cyanide, Total	0.178	U	160	
CSA	3		4700 Massachusetts Avenue								No
				OU5-CSA-3-4700MA-SB(7.5-8.5)	10/8/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-3-4700MA-SB(7.5-8.5)	10/8/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-3-4700MA-SB(7.5-8.5)	10/8/2001	ug/kg	1,4-Dithiane	112	U	78,000	
				OU5-CSA-3-4700MA-SB(7.5-8.5)	10/8/2001	ug/kg	1,4-Oxathiane	224	U	78,000	
				OU5-CSA-3-4700MA-SB(7.5-8.5)	10/8/2001	ug/kg	Thiodiglycol	560	U	39,100	
				OU5-CSA-3-4700MA-SB(7.5-8.5)	10/8/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	10		4701 Rodman Street								No
				OU5-CSA-10-4701RS-SB(7-8)	8/6/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-4701RS-SB(7-8)	8/6/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-4701RS-SB(7-8)	8/6/2001	ug/kg	1,4-Dithiane	118	U	78,000	
				OU5-CSA-10-4701RS-SB(7-8)	8/6/2001	ug/kg	1,4-Oxathiane	236	U	78,000	
				OU5-CSA-10-4701RS-SB(7-8)	8/6/2001	ug/kg	Thiodiglycol	589	U	39,100	
				OU5-CSA-10-4701RS-SB(7-8)	8/6/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	3		4701 Upton Street								No
				OU5-CSA-3-4701US-SB(9-10)	10/1/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-3-4701US-SB(9-10)	10/1/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-3-4701US-SB(9-10)	10/1/2001	ug/kg	1,4-Dithiane	123	U	78,000	

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				OU5-CSA-3-4701US-SB(9-10)	10/1/2001	ug/kg	1,4-Oxathiane	246 U	78,000	
				OU5-CSA-3-4701US-SB(9-10)	10/1/2001	ug/kg	Thiodiglycol	614 U	39,100	
				OU5-CSA-3-4701US-SB(9-10)	10/1/2001	mg/kg	Cyanide, Total	0.18 U	160	
CSA	**3**		**4705 Upton Street**							**No**
				OU5-CSA-3-4705US-SB(9-10)	10/1/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-3-4705US-SB(9-10)	10/1/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-3-4705US-SB(9-10)	10/1/2001	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-3-4705US-SB(9-10)	10/1/2001	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU5-CSA-3-4705US-SB(9-10)	10/1/2001	ug/kg	Thiodiglycol	601 U	39,100	
				OU5-CSA-3-4705US-SB(9-10)	10/1/2001	mg/kg	Cyanide, Total	0.19 U	160	
CSA	**10**		**4722 Rodman Street**							**No**
				OU5-CSA-10-4722RS-SBA(2-3)	8/6/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4722RS-SBA(2-3)	8/6/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4722RS-SBA(2-3)	8/6/2001	ug/kg	1,4-Dithiane	111 U	78,000	
				OU5-CSA-10-4722RS-SBA(2-3)	8/6/2001	ug/kg	1,4-Oxathiane	223 U	78,000	
				OU5-CSA-10-4722RS-SBA(2-3)	8/6/2001	ug/kg	Thiodiglycol	556 U	39,100	
				OU5-CSA-10-4722RS-SBA(2-3)	8/6/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-10-4722RS-SBB(3-4)	8/6/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4722RS-SBB(3-4)	8/6/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4722RS-SBB(3-4)	8/6/2001	ug/kg	1,4-Dithiane	108 U	78,000	
				OU5-CSA-10-4722RS-SBB(3-4)	8/6/2001	ug/kg	1,4-Oxathiane	217 U	78,000	
				OU5-CSA-10-4722RS-SBB(3-4)	8/6/2001	ug/kg	Thiodiglycol	542 U	39,100	
				OU5-CSA-10-4722RS-SBB(3-4)	8/6/2001	mg/kg	Cyanide, Total	0.16 U	160	
CSA	**4**		**4728 Upton Street**							**No**
				OU5-CSA-4-4728US-SB(7-8)	8/14/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-4-4728US-SB(7-8)	8/14/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-4-4728US-SB(7-8)	8/14/2001	ug/kg	1,4-Dithiane	103 U	78,000	
				OU5-CSA-4-4728US-SB(7-8)	8/14/2001	ug/kg	1,4-Oxathiane	207 U	78,000	
				OU5-CSA-4-4728US-SB(7-8)	8/14/2001	ug/kg	Thiodiglycol	517 U	39,100	
				OU5-CSA-4-4728US-SB(7-8)	8/14/2001	mg/kg	Cyanide, Total	0.15 U	160	
CSA	**10**		**4732 Sedgwick Street**							**No**
				OU5-CSA-10-4732SegS-SB(5.5-6.5)	9/18/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4732SegS-SB(5.5-6.5)	9/18/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4732SegS-SB(5.5-6.5)	9/18/2001	ug/kg	1,4-Dithiane	113 U	78,000	
				OU5-CSA-10-4732SegS-SB(5.5-6.5)	9/18/2001	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU5-CSA-10-4732SegS-SB(5.5-6.5)	9/18/2001	ug/kg	Thiodiglycol	563 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU5-CSA-10-4732SegS-SB(5.5-6.5)	9/18/2001	mg/kg	Cyanide, Total	0.17 U	160	
				OU5-CSA-10-4732SegS-SB-DUP08	9/18/2001	ug/kg	CVAA/CVAO	40 U	890	
CSA	3		4732 Van Ness Street							No
				OU5-CSA-3-4732VNS-SB(5.5-6.5)	7/26/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-3-4732VNS-SB(5.5-6.5)	7/26/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-3-4732VNS-SB(5.5-6.5)	7/26/2001	ug/kg	1,4-Dithiane	132 U	78,000	
				OU5-CSA-3-4732VNS-SB(5.5-6.5)	7/26/2001	ug/kg	1,4-Oxathiane	264 U	78,000	
				OU5-CSA-3-4732VNS-SB(5.5-6.5)	7/26/2001	ug/kg	Thiodiglycol	659 U	39,100	
				OU5-CSA-3-4732VNS-SB(5.5-6.5)	7/26/2001	mg/kg	Cyanide, Total	0.22 U	160	
CSA	10		4800 Quebec Street							No
				OU5-CSA-10-4800QS-SB(3.5-4.5)	7/26/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4800QS-SB(3.5-4.5)	7/26/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4800QS-SB(3.5-4.5)	7/26/2001	ug/kg	1,4-Dithiane	107 U	78,000	
				OU5-CSA-10-4800QS-SB(3.5-4.5)	7/26/2001	ug/kg	1,4-Oxathiane	214 U	78,000	
				OU5-CSA-10-4800QS-SB(3.5-4.5)	7/26/2001	ug/kg	Thiodiglycol	536 U	39,100	
				OU5-CSA-10-4800QS-SB(3.5-4.5)	7/26/2001	mg/kg	Cyanide, Total	0.23 U	160	
CSA	10		4801 Quebec Street							No
				OU5-CSA-10-4801QS-SBA(9-10)	8/29/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4801QS-SBA(9-10)	8/29/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4801QS-SBA(9-10)	8/29/2001	ug/kg	1,4-Dithiane	134 U	78,000	
				OU5-CSA-10-4801QS-SBA(9-10)	8/29/2001	ug/kg	1,4-Oxathiane	269 UJ	78,000	
				OU5-CSA-10-4801QS-SBA(9-10)	8/29/2001	ug/kg	Thiodiglycol	672 U	39,100	
				OU5-CSA-10-4801QS-SBA(9-10)	8/29/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-10-4801QS-SBA-DUP08	8/29/2001	ug/kg	1,4-Dithiane	118 U	78,000	
				OU5-CSA-10-4801QS-SBA-DUP08	8/29/2001	ug/kg	1,4-Oxathiane	236 UJ	78,000	
				OU5-CSA-10-4801QS-SBA-DUP08	8/29/2001	ug/kg	Thiodiglycol	590 U	39,100	
				OU5-CSA-10-4801QS-SBB(8-9)	8/29/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4801QS-SBB(8-9)	8/29/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4801QS-SBB(8-9)	8/29/2001	ug/kg	1,4-Dithiane	126 U	78,000	
				OU5-CSA-10-4801QS-SBB(8-9)	8/29/2001	ug/kg	1,4-Oxathiane	251 UJ	78,000	
				OU5-CSA-10-4801QS-SBB(8-9)	8/29/2001	ug/kg	Thiodiglycol	628 U	39,100	
				OU5-CSA-10-4801QS-SBB(8-9)	8/29/2001	mg/kg	Cyanide, Total	0.19 U	160	
CSA	4		4801 Tilden Street							No
				OU5-CSA-4-4801TS-SB(5.5-6.5)	10/8/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-4-4801TS-SB(5.5-6.5)	10/8/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-4-4801TS-SB(5.5-6.5)	10/8/2001	ug/kg	1,4-Dithiane	109 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-4-4801TS-SB(5.5-6.5)	10/8/2001	ug/kg	1,4-Oxathiane	218	U	78,000	
				OU5-CSA-4-4801TS-SB(5.5-6.5)	10/8/2001	ug/kg	Thiodiglycol	544	U	39,100	
				OU5-CSA-4-4801TS-SB(5.5-6.5)	10/8/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	3		4803 Van Ness Street								No
				OU5-CSA-3-4803VNS-SB(3-4)	8/6/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-3-4803VNS-SB(3-4)	8/6/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-3-4803VNS-SB(3-4)	8/6/2001	ug/kg	1,4-Dithiane	123	U	78,000	
				OU5-CSA-3-4803VNS-SB(3-4)	8/6/2001	ug/kg	1,4-Oxathiane	245	U	78,000	
				OU5-CSA-3-4803VNS-SB(3-4)	8/6/2001	ug/kg	Thiodiglycol	614	U	39,100	
				OU5-CSA-3-4803VNS-SB(3-4)	8/6/2001	mg/kg	Cyanide, Total	0.17	U	160	
CSA	3		4809 Upton Street								No
				OU5-CSA-3-4809US-SB(3-4)	8/22/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-3-4809US-SB(3-4)	8/22/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-3-4809US-SB(3-4)	8/22/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CSA-3-4809US-SB(3-4)	8/22/2001	ug/kg	1,4-Oxathiane	222	UJ	78,000	
				OU5-CSA-3-4809US-SB(3-4)	8/22/2001	ug/kg	Thiodiglycol	555	U	39,100	
				OU5-CSA-3-4809US-SB(3-4)	8/22/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	4		4812 Tilden Street								No
				OU5-CSA-4-4812TS-SB(0.5-1.5)	8/27/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-4-4812TS-SB(0.5-1.5)	8/27/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-4-4812TS-SB(0.5-1.5)	8/27/2001	ug/kg	1,4-Dithiane	116	U	78,000	
				OU5-CSA-4-4812TS-SB(0.5-1.5)	8/27/2001	ug/kg	1,4-Oxathiane	231	U	78,000	
				OU5-CSA-4-4812TS-SB(0.5-1.5)	8/27/2001	ug/kg	Thiodiglycol	578	U	39,100	
				OU5-CSA-4-4812TS-SB(0.5-1.5)	8/27/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	10		4813 Quebec Street								No
				OU5-CSA-10-4813QS-SB(4.5-5.5)	7/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-4813QS-SB(4.5-5.5)	7/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-4813QS-SB(4.5-5.5)	7/26/2001	ug/kg	1,4-Dithiane	127	U	78,000	
				OU5-CSA-10-4813QS-SB(4.5-5.5)	7/26/2001	ug/kg	1,4-Oxathiane	255	U	78,000	
				OU5-CSA-10-4813QS-SB(4.5-5.5)	7/26/2001	ug/kg	Thiodiglycol	637	U	39,100	
				OU5-CSA-10-4813QS-SB(4.5-5.5)	7/26/2001	mg/kg	Cyanide, Total	0.2	U	160	
CSA	10		4813 Woodway Lane								No
				OU5-CSA-10-4813WL-SBA(8-9)	7/25/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-4813WL-SBA(8-9)	7/25/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-4813WL-SBA(8-9)	7/25/2001	ug/kg	1,4-Dithiane	122	U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU5-CSA-10-4813WL-SBA(8-9)	7/25/2001	ug/kg	1,4-Oxathiane	243 U	78,000	
				OU5-CSA-10-4813WL-SBA(8-9)	7/25/2001	ug/kg	Thiodiglycol	609 U	39,100	
				OU5-CSA-10-4813WL-SBA(8-9)	7/25/2001	mg/kg	Cyanide, Total	0.19	160	
				OU5-CSA-10-4813WL-SBB(2-3)	7/25/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4813WL-SBB(2-3)	7/25/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4813WL-SBB(2-3)	7/25/2001	ug/kg	1,4-Dithiane	112 U	78,000	
				OU5-CSA-10-4813WL-SBB(2-3)	7/25/2001	ug/kg	1,4-Oxathiane	224 U	78,000	
				OU5-CSA-10-4813WL-SBB(2-3)	7/25/2001	ug/kg	Thiodiglycol	560 U	39,100	
				OU5-CSA-10-4813WL-SBB(2-3)	7/25/2001	mg/kg	Cyanide, Total	0.19	160	
CTA	*1D*	*19R*	*4814 Sedgwick Street*							*No*
				OU5-CTA-1D-4814SegS-SB-(4.5-5.5)	8/2/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4814SegS-SB-(4.5-5.5)	8/2/2001	ug/kg	1,4-Dithiane	126 U	78,000	
				OU5-CTA-1D-4814SegS-SB-(4.5-5.5)	8/2/2001	ug/kg	1,4-Oxathiane	253 U	78,000	
				OU5-CTA-1D-4814SegS-SB-(4.5-5.5)	8/2/2001	ug/kg	Thiodiglycol	632 U	39,100	
CSA	*4*		*4820 Upton Street*							*No*
				OU5-CSA-4-4820US-SB(4.5-5.5)	8/7/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-4-4820US-SB(4.5-5.5)	8/7/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-4-4820US-SB(4.5-5.5)	8/7/2001	ug/kg	1,4-Dithiane	113 U	78,000	
				OU5-CSA-4-4820US-SB(4.5-5.5)	8/7/2001	ug/kg	1,4-Oxathiane	226 U	78,000	
				OU5-CSA-4-4820US-SB(4.5-5.5)	8/7/2001	ug/kg	Thiodiglycol	565 U	39,100	
				OU5-CSA-4-4820US-SB(4.5-5.5)	8/7/2001	mg/kg	Cyanide, Total	0.17 U	160	
				OU5-CSA-4-4820US-SB-DUP05	8/7/2001	ug/kg	CVAA/CVAO	40 U	890	
CTA	*1D*	*19R*	*4821 Rodman Street*							*No*
				OU5-CTA-1D-4821RS-SB(4-5)	8/14/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4821RS-SB(4-5)	8/14/2001	ug/kg	1,4-Dithiane	116 U	78,000	
				OU5-CTA-1D-4821RS-SB(4-5)	8/14/2001	ug/kg	1,4-Oxathiane	233 U	78,000	
				OU5-CTA-1D-4821RS-SB(4-5)	8/14/2001	ug/kg	Thiodiglycol	582 U	39,100	
CSA	*10*		*4825 Quebec Street*							*No*
				OU5-CSA-10-4825QS-SB(9-10)	9/6/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4825QS-SB(9-10)	9/6/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4825QS-SB(9-10)	9/6/2001	ug/kg	1,4-Dithiane	146 U	78,000	
				OU5-CSA-10-4825QS-SB(9-10)	9/6/2001	ug/kg	1,4-Oxathiane	292 U	78,000	
				OU5-CSA-10-4825QS-SB(9-10)	9/6/2001	ug/kg	Thiodiglycol	731 U	39,100	
				OU5-CSA-10-4825QS-SB(9-10)	9/6/2001	mg/kg	Cyanide, Total	0.22 U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
CTA	1D	19R	4825 Rodman Street							No
				OU5-CTA-1D-4825RS-SB(5-6)	7/11/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4825RS-SB(5-6)	7/11/2001	ug/kg	1,4-Dithiane	113 UL	78,000	
				OU5-CTA-1D-4825RS-SB(5-6)	7/11/2001	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU5-CTA-1D-4825RS-SB(5-6)	7/11/2001	ug/kg	Thiodiglycol	567 U	39,100	
CSA	10		4825 Woodway Lane							No
				OU5-CSA-10-4825WL-SB(2-3)	10/22/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4825WL-SB(2-3)	10/22/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4825WL-SB(2-3)	10/22/2001	ug/kg	1,4-Dithiane	62 U	78,000	
				OU5-CSA-10-4825WL-SB(2-3)	10/22/2001	ug/kg	1,4-Oxathiane	125 U	78,000	
				OU5-CSA-10-4825WL-SB(2-3)	10/22/2001	ug/kg	Thiodiglycol	620 U	39,100	
				OU5-CSA-10-4825WL-SB(2-3)	10/22/2001	mg/kg	Cyanide, Total	0.19 U	160	
CTA	1D	19R	4826 Sedgwick Street							No
				OU5-CTA-1D-4826(SegS)-SB(4-5)	7/10/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4826(SegS)-SB(4-5)	7/10/2001	ug/kg	1,4-Dithiane	119 UL	78,000	
				OU5-CTA-1D-4826(SegS)-SB(4-5)	7/10/2001	ug/kg	1,4-Oxathiane	239 U	78,000	
				OU5-CTA-1D-4826(SegS)-SB(4-5)	7/10/2001	ug/kg	Thiodiglycol	597 U	39,100	
CTA	1D	19R	4827 Sedgwick Street							No
				OU5-CTA-1D-4827SegS-SB(2-3)	8/29/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4827SegS-SB(2-3)	8/29/2001	ug/kg	1,4-Dithiane	122 U	78,000	
				OU5-CTA-1D-4827SegS-SB(2-3)	8/29/2001	ug/kg	1,4-Oxathiane	243 UJ	78,000	
				OU5-CTA-1D-4827SegS-SB(2-3)	8/29/2001	ug/kg	Thiodiglycol	608 U	39,100	
CSA	10		4831 Quebec Street							No
				OU5-CSA-10-4831QS-SBA(4-5)	9/7/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4831QS-SBA(4-5)	9/7/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4831QS-SBA(4-5)	9/7/2001	ug/kg	1,4-Dithiane	152 U	78,000	
				OU5-CSA-10-4831QS-SBA(4-5)	9/7/2001	ug/kg	1,4-Oxathiane	304 U	78,000	
				OU5-CSA-10-4831QS-SBA(4-5)	9/7/2001	ug/kg	Thiodiglycol	761 U	39,100	
				OU5-CSA-10-4831QS-SBA(4-5)	9/7/2001	mg/kg	Cyanide, Total	0.23 U	160	
				OU5-CSA-10-4831QS-SBA-DUP07	9/7/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-10-4831QS-SBB(1-2)	9/7/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-10-4831QS-SBB(1-2)	9/7/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-10-4831QS-SBB(1-2)	9/7/2001	ug/kg	1,4-Dithiane	113 U	78,000	
				OU5-CSA-10-4831QS-SBB(1-2)	9/7/2001	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU5-CSA-10-4831QS-SBB(1-2)	9/7/2001	ug/kg	Thiodiglycol	563 U	39,100	

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				OU5-CSA-10-4831QS-SBB(1-2)	9/7/2001	mg/kg	Cyanide, Total	0.18 U	160	
				OU5-CSA-10-4831QS-SBB-DUP07	9/7/2001	ug/kg	CVAA/CVAO	40 U	890	
CTA	1D	19R	4831 Sedgwick Street							No
				OU5-CTA-1D-4831SegS-SB(4-5)	7/10/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4831SegS-SB(4-5)	7/10/2001	ug/kg	1,4-Dithiane	132 UL	78,000	
				OU5-CTA-1D-4831SegS-SB(4-5)	7/10/2001	ug/kg	1,4-Oxathiane	264 U	78,000	
				OU5-CTA-1D-4831SegS-SB(4-5)	7/10/2001	ug/kg	Thiodiglycol	659 U	39,100	
CSA	3		4832 Van Ness Street							No
				OU5-CSA-3-4832VNS-SB(4.5-5.5)	8/7/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-3-4832VNS-SB(4.5-5.5)	8/7/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-3-4832VNS-SB(4.5-5.5)	8/7/2001	ug/kg	1,4-Dithiane	124 U	78,000	
				OU5-CSA-3-4832VNS-SB(4.5-5.5)	8/7/2001	ug/kg	1,4-Oxathiane	249 U	78,000	
				OU5-CSA-3-4832VNS-SB(4.5-5.5)	8/7/2001	ug/kg	Thiodiglycol	621 U	39,100	
				OU5-CSA-3-4832VNS-SB(4.5-5.5)	8/7/2001	mg/kg	Cyanide, Total	0.19 U	160	
CTA	1D	19R	4833 Rodman Street							No
				OU5-CTA-1D-4833(RS)-SB(5-6)	7/10/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4833(RS)-SB(5-6)	7/10/2001	ug/kg	1,4-Dithiane	106 UL	78,000	
				OU5-CTA-1D-4833(RS)-SB(5-6)	7/10/2001	ug/kg	1,4-Oxathiane	212 U	78,000	
				OU5-CTA-1D-4833(RS)-SB(5-6)	7/10/2001	ug/kg	Thiodiglycol	531 U	39,100	
CTA	1D	19R	4834 Sedgwick Street							No
				OU5-CTA-1D-4834(SegS)-SB-(9-10)	7/10/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4834(SegS)-SB-(9-10)	7/10/2001	ug/kg	1,4-Dithiane	115 UL	78,000	
				OU5-CTA-1D-4834(SegS)-SB-(9-10)	7/10/2001	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU5-CTA-1D-4834(SegS)-SB-(9-10)	7/10/2001	ug/kg	Thiodiglycol	576 U	39,100	
OU3	OU3		4835 Glenbrook Road							No
				OU3 MTL-4835GR-1	10/31/2000	ug/kg	1,4-Dithiane	132 U	78,000	
				OU3 MTL-4835GR-1	10/31/2000	ug/kg	1,4-Oxathiane	264 U	78,000	
				OU3 MTL-4835GR-1	10/31/2000	ug/kg	Thiodiglycol	934 J	39,100	
				OU3 MTL-4835GR-2	10/31/2000	ug/kg	1,4-Dithiane	121 U	78,000	
				OU3 MTL-4835GR-2	10/31/2000	ug/kg	1,4-Oxathiane	241 U	78,000	
				OU3 MTL-4835GR-2	10/31/2000	ug/kg	Thiodiglycol	792 J	39,100	
				OU3 MTL-4835GR-3	10/31/2000	ug/kg	1,4-Dithiane	132 U	78,000	
				OU3 MTL-4835GR-3	10/31/2000	ug/kg	1,4-Oxathiane	264 U	78,000	
				OU3 MTL-4835GR-3	10/31/2000	ug/kg	Thiodiglycol	1190 J	39,100	
				OU3 MTL-4835GR-4	10/31/2000	ug/kg	1,4-Dithiane	145 U	78,000	

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				OU3 MTL-4835GR-4	10/31/2000	ug/kg	1,4-Oxathiane	289	U	78,000	
				OU3 MTL-4835GR-4	10/31/2000	ug/kg	Thiodiglycol	905	J	39,100	
				OU3 MTL-4835GR-SB-(0-2)	10/31/2000	ug/kg	1,4-Dithiane	117	U	78,000	
				OU3 MTL-4835GR-SB-(0-2)	10/31/2000	ug/kg	1,4-Oxathiane	234	U	78,000	
				OU3 MTL-4835GR-SB-(0-2)	10/31/2000	ug/kg	Thiodiglycol	586	U	39,100	
				OU3 MTL-4835GR-SB-(2-4)	10/31/2000	ug/kg	1,4-Dithiane	115	U	78,000	
				OU3 MTL-4835GR-SB-(2-4)	10/31/2000	ug/kg	1,4-Oxathiane	230	U	78,000	
				OU3 MTL-4835GR-SB-(2-4)	10/31/2000	ug/kg	Thiodiglycol	575	U	39,100	
				OU3 MTL-4835GR-SB-(4-6)	10/31/2000	ug/kg	1,4-Dithiane	113	U	78,000	
				OU3 MTL-4835GR-SB-(4-6)	10/31/2000	ug/kg	1,4-Oxathiane	225	U	78,000	
				OU3 MTL-4835GR-SB-(4-6)	10/31/2000	ug/kg	Thiodiglycol	579	U	39,100	
CTA	1D	19R	4835 Sedgwick Street								No
				OU5-CTA-1D-4835SegS-SB(7-8)	7/10/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4835SegS-SB(7-8)	7/10/2001	ug/kg	1,4-Dithiane	134	UL	78,000	
				OU5-CTA-1D-4835SegS-SB(7-8)	7/10/2001	ug/kg	1,4-Oxathiane	268	U	78,000	
				OU5-CTA-1D-4835SegS-SB(7-8)	7/10/2001	ug/kg	Thiodiglycol	669	U	39,100	
CTA	1D	19R	4840 Sedgwick Street								No
				OU5-CTA-1D-4840SegS-SB(5-6)	7/10/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4840SegS-SB(5-6)	7/10/2001	ug/kg	1,4-Dithiane	122	UL	78,000	
				OU5-CTA-1D-4840SegS-SB(5-6)	7/10/2001	ug/kg	1,4-Oxathiane	243	U	78,000	
				OU5-CTA-1D-4840SegS-SB(5-6)	7/10/2001	ug/kg	Thiodiglycol	609	U	39,100	
CTA	1D	19R	4841 Rodman Street								No
				OU5-CTA-1D-4841RS-SB(3-4)	7/31/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-4841RS-SB(3-4)	7/31/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4841RS-SB(3-4)	7/31/2001	ug/kg	1,4-Dithiane	110	U	78,000	
				OU5-CTA-1D-4841RS-SB(3-4)	7/31/2001	ug/kg	1,4-Oxathiane	220	UL	78,000	
				OU5-CTA-1D-4841RS-SB(3-4)	7/31/2001	ug/kg	Thiodiglycol	550	U	39,100	
CTA	1D	19R	4841 Sedgwick Street								No
				OU5-CTA-1D-4841SegS-SB(6-7)	7/5/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4841SegS-SB(6-7)	7/5/2001	ug/kg	1,4-Dithiane	122	UL	78,000	
				OU5-CTA-1D-4841SegS-SB(6-7)	7/5/2001	ug/kg	1,4-Oxathiane	243	U	78,000	
				OU5-CTA-1D-4841SegS-SB(6-7)	7/5/2001	ug/kg	Thiodiglycol	609	U	39,100	
				OU5-CTA-1D-4841SegS-SB-DUP02	7/5/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4841SegS-SB-DUP02	7/5/2001	ug/kg	1,4-Dithiane	121	UL	78,000	
				OU5-CTA-1D-4841SegS-SB-DUP02	7/5/2001	ug/kg	1,4-Oxathiane	242	U	78,000	
				OU5-CTA-1D-4841SegS-SB-DUP02	7/5/2001	ug/kg	Thiodiglycol	605	U	39,100	

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CSA	10		4844 Quebec Street								No
				OU5-CSA-10-4844QS-SB-(2.5-3.5)	7/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-10-4844QS-SB-(2.5-3.5)	7/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-10-4844QS-SB-(2.5-3.5)	7/26/2001	ug/kg	1,4-Dithiane	117	U	78,000	
				OU5-CSA-10-4844QS-SB-(2.5-3.5)	7/26/2001	ug/kg	1,4-Oxathiane	233	U	78,000	
				OU5-CSA-10-4844QS-SB-(2.5-3.5)	7/26/2001	ug/kg	Thiodiglycol	583	U	39,100	
				OU5-CSA-10-4844QS-SB-(2.5-3.5)	7/26/2001	mg/kg	Cyanide, Total	0.2	U	160	
CTA	1D	19R	4847 Sedgwick Street								No
				OU5-CTA-1D-4847SegS-SB(9-10)	7/10/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4847SegS-SB(9-10)	7/10/2001	ug/kg	1,4-Dithiane	131	UL	78,000	
				OU5-CTA-1D-4847SegS-SB(9-10)	7/10/2001	ug/kg	1,4-Oxathiane	262	U	78,000	
				OU5-CTA-1D-4847SegS-SB(9-10)	7/10/2001	ug/kg	Thiodiglycol	655	U	39,100	
CSA	3		4849 Upton Street								No
				OU5-CSA-3-4849US-SB(7-8)	7/30/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-3-4849US-SB(7-8)	7/30/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-3-4849US-SB(7-8)	7/30/2001	ug/kg	1,4-Dithiane	123	U	78,000	
				OU5-CSA-3-4849US-SB(7-8)	7/30/2001	ug/kg	1,4-Oxathiane	245	U	78,000	
				OU5-CSA-3-4849US-SB(7-8)	7/30/2001	ug/kg	Thiodiglycol	613	U	39,100	
				OU5-CSA-3-4849US-SB(7-8)	7/30/2001	mg/kg	Cyanide, Total	0.19	U	160	
				OU5-CSA-3-4849US-SB-DUP04	7/30/2001	ug/kg	1,4-Dithiane	122	U	78,000	
				OU5-CSA-3-4849US-SB-DUP04	7/30/2001	ug/kg	1,4-Oxathiane	245	U	78,000	
				OU5-CSA-3-4849US-SB-DUP04	7/30/2001	ug/kg	Thiodiglycol	612	U	39,100	
CSA	12		4850 Rockwood Parkway								Yes
				OU5-CSA-12-4850RP-SB(3.5-4.5)	2/20/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-12-4850RP-SB(3.5-4.5)	2/20/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-12-4850RP-SB(3.5-4.5)	2/20/2002	ug/kg	1,4-Dithiane	120	UL	78,000	
				OU5-CSA-12-4850RP-SB(3.5-4.5)	2/20/2002	ug/kg	1,4-Oxathiane	240	UL	78,000	
				OU5-CSA-12-4850RP-SB(3.5-4.5)	2/20/2002	ug/kg	Thiodiglycol	600	U	39,100	
				OU5-CSA-12-4850RP-SB(3.5-4.5)	2/20/2002	mg/kg	Cyanide, Total	0.194	U	160	
				OU5-CSA-12-4850RP-SB-DUP11	2/20/2002	ug/kg	CVAA/CVAO	40	U	890	
CTA	1D	19R	4850 Sedgwick Street								No
				OU5-CTA-1D-4850SegS-SB(4-5)	8/21/2001	ug/kg	1,4-Dithiane	118	U	78,000	
				OU5-CTA-1D-4850SegS-SB(4-5)	8/21/2001	ug/kg	1,4-Oxathiane	236	U	78,000	
				OU5-CTA-1D-4850SegS-SB(4-5)	8/21/2001	ug/kg	Thiodiglycol	591	U	39,100	

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CTA	1D	19R	4853 Sedgwick Street							No
				OU5-CTA-1D-4853SegS-SB(8-9)	7/11/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4853SegS-SB(8-9)	7/11/2001	ug/kg	1,4-Dithiane	125 UL	78,000	
				OU5-CTA-1D-4853SegS-SB(8-9)	7/11/2001	ug/kg	1,4-Oxathiane	251 U	78,000	
				OU5-CTA-1D-4853SegS-SB(8-9)	7/11/2001	ug/kg	Thiodiglycol	626 U	39,100	
CTA	1D	19R	4856 Sedgwick Street							No
				OU5-CTA-1D-4856SegS-SB(7-8)	7/10/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4856SegS-SB(7-8)	7/10/2001	ug/kg	1,4-Dithiane	125 UL	78,000	
				OU5-CTA-1D-4856SegS-SB(7-8)	7/10/2001	ug/kg	1,4-Oxathiane	250 U	78,000	
				OU5-CTA-1D-4856SegS-SB(7-8)	7/10/2001	ug/kg	Thiodiglycol	625 U	39,100	
CSA	3		4860 Massachusetts Avenue, Lot 7							No
				OU5-CSA-3-L7-SB(9-10)	8/29/2002	ug/kg	CVAA/CVAO	40 U \2	890	
				OU5-CSA-3-L7-SB(9-10)	8/29/2002	ug/kg	Sulfur Mustard	40 U \2	10	
				OU5-CSA-3-L7-SB(9-10)	8/29/2002	ug/kg	1,4-Dithiane	120 U \2	78,000	
				OU5-CSA-3-L7-SB(9-10)	8/29/2002	ug/kg	1,4-Oxathiane	250 U \2	78,000	
				OU5-CSA-3-L7-SB(9-10)	8/29/2002	ug/kg	Thiodiglycol	620 U \2	39,100	
				OU5-CSA-3-L7-SB(9-10)	8/29/2002	mg/kg	Cyanide, Total	0.18 U \2	160	
CSA	3		4900 Massachusetts Avenue, Lot 6							No
				OU5-CSA-3-L6-SBB(3-4)	8/28/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-3-L6-SBB(3-4)	8/28/2002	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-3-L6-SBB(3-4)	8/28/2002	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-3-L6-SBB(3-4)	8/28/2002	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU5-CSA-3-L6-SBB(3-4)	8/28/2002	ug/kg	Thiodiglycol	580 U	39,100	
				OU5-CSA-3-L6-SBB(3-4)	8/28/2002	mg/kg	Cyanide, Total	0.17 U	160	
CTA	1D	19R	4900 Sedgwick Street							No
				OU5-CTA-1D-4900SegS-SB(3-4)	7/2/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4900SegS-SB(3-4)	7/2/2001	ug/kg	1,4-Dithiane	126 UL	78,000	
				OU5-CTA-1D-4900SegS-SB(3-4)	7/2/2001	ug/kg	1,4-Oxathiane	252 U	78,000	
				OU5-CTA-1D-4900SegS-SB(3-4)	7/2/2001	ug/kg	Thiodiglycol	630 U	39,100	
CSA	11		4901 Hillbrook Lane							No
				OU5-CSA-11-4901HL-SB(3-4)	9/6/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-11-4901HL-SB(3-4)	9/6/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-11-4901HL-SB(3-4)	9/6/2001	ug/kg	1,4-Dithiane	106 U	78,000	
				OU5-CSA-11-4901HL-SB(3-4)	9/6/2001	ug/kg	1,4-Oxathiane	211 U	78,000	
				OU5-CSA-11-4901HL-SB(3-4)	9/6/2001	ug/kg	Thiodiglycol	529 U	39,100	

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				OU5-CSA-11-4901HL-SB(3-4)	9/6/2001	mg/kg	Cyanide, Total	0.15	U	160	
CTA	1D	19R	4910 Sedgwick Street								No
				OU5-CTA-1D-4910SegS-SB(6-7)	6/25/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4910SegS-SB(6-7)	6/25/2001	ug/kg	1,4-Dithiane	111	UL	78,000	
				OU5-CTA-1D-4910SegS-SB(6-7)	6/25/2001	ug/kg	1,4-Oxathiane	221	U	78,000	
				OU5-CTA-1D-4910SegS-SB(6-7)	6/25/2001	ug/kg	Thiodiglycol	553	U	39,100	
CSA	11		4911 Quebec Street								No
				OU5-CSA-11-4911QS-SB(4-5)	9/6/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-11-4911QS-SB(4-5)	9/6/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-11-4911QS-SB(4-5)	9/6/2001	ug/kg	1,4-Dithiane	114	U	78,000	
				OU5-CSA-11-4911QS-SB(4-5)	9/6/2001	ug/kg	1,4-Oxathiane	227	U	78,000	
				OU5-CSA-11-4911QS-SB(4-5)	9/6/2001	ug/kg	Thiodiglycol	568	U	39,100	
				OU5-CSA-11-4911QS-SB(4-5)	9/6/2001	mg/kg	Cyanide, Total	0.18	U	160	
CTA	1D	19R	4911 Sedgwick Street								No
				OU5-CTA-1D-4911SegS-SB(9-10)	6/19/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4911SegS-SB(9-10)	6/19/2001	ug/kg	1,4-Dithiane	117	UL	78,000	
				OU5-CTA-1D-4911SegS-SB(9-10)	6/19/2001	ug/kg	1,4-Oxathiane	234	U	78,000	
				OU5-CTA-1D-4911SegS-SB(9-10)	6/19/2001	ug/kg	Thiodiglycol	584	U	39,100	
CSA	11		4912 Quebec Street								No
				OU5-CSA-11-4912QS-SB(2-3)	8/1/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-11-4912QS-SB(2-3)	8/1/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-11-4912QS-SB(2-3)	8/1/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CSA-11-4912QS-SB(2-3)	8/1/2001	ug/kg	1,4-Oxathiane	223	UL	78,000	
				OU5-CSA-11-4912QS-SB(2-3)	8/1/2001	ug/kg	Thiodiglycol	557	U	39,100	
				OU5-CSA-11-4912QS-SB(2-3)	8/1/2001	mg/kg	Cyanide, Total	0.19	U	160	
CTA	1A	16R	4915 Van Ness Street								No
				OU5-CTA-1A-4915VNS-SB(3-4)	11/12/2001	ug/kg	1,4-Dithiane	137	U	78,000	
				OU5-CTA-1A-4915VNS-SB(3-4)	11/12/2001	ug/kg	1,4-Oxathiane	274	U	78,000	
				OU5-CTA-1A-4915VNS-SB(3-4)	11/12/2001	ug/kg	Thiodiglycol	680	U	39,100	
				OU5-CTA-1A-4915VNS-SB(3-4)	11/12/2001	mg/kg	Cyanide, Total	0.2	U	160	
CTA	1D	16R	4920 Van Ness Street								No
				OU5-CTA-1D-4920VNS-(3.5-4.5)	5/1/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-4920VNS-(3.5-4.5)	5/1/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4920VNS-(3.5-4.5)	5/1/2002	ug/kg	1,4-Dithiane	110	U	78,000	
				OU5-CTA-1D-4920VNS-(3.5-4.5)	5/1/2002	ug/kg	1,4-Oxathiane	220	U	78,000	

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				OU5-CTA-1D-4920VNS-(3.5-4.5)	5/1/2002	ug/kg	Thiodiglycol	540	U	39,100	
				OU5-CTA-1D-4920VNS-(3.5-4.5)	5/1/2002	mg/kg	Cyanide, Total	0.16	U	160	
CSA	**11**		**4921 Quebec Street**								**No**
				OU5-CSA-11-4921QS-SBA(9-10)	9/5/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-11-4921QS-SBA(9-10)	9/5/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-11-4921QS-SBA(9-10)	9/5/2001	ug/kg	1,4-Dithiane	115	U	78,000	
				OU5-CSA-11-4921QS-SBA(9-10)	9/5/2001	ug/kg	1,4-Oxathiane	230	UJ	78,000	
				OU5-CSA-11-4921QS-SBA(9-10)	9/5/2001	ug/kg	Thiodiglycol	574	U	39,100	
				OU5-CSA-11-4921QS-SBA(9-10)	9/5/2001	mg/kg	Cyanide, Total	0.17	U	160	
				OU5-CSA-11-4921QS-SBB(7-8)	9/5/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-11-4921QS-SBB(7-8)	9/5/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-11-4921QS-SBB(7-8)	9/5/2001	ug/kg	1,4-Dithiane	120	U	78,000	
				OU5-CSA-11-4921QS-SBB(7-8)	9/5/2001	ug/kg	1,4-Oxathiane	240	UJ	78,000	
				OU5-CSA-11-4921QS-SBB(7-8)	9/5/2001	ug/kg	Thiodiglycol	600	U	39,100	
				OU5-CSA-11-4921QS-SBB(7-8)	9/5/2001	mg/kg	Cyanide, Total	0.18	U	160	
CTA	**1D**	**16R**	**4921 Tilden Street**								**No**
				OU5-CTA-1D-4921TS-SB(1.5-2.5)	7/23/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-4921TS-SB(1.5-2.5)	7/23/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4921TS-SB(1.5-2.5)	7/23/2001	ug/kg	1,4-Dithiane	114	U	78,000	
				OU5-CTA-1D-4921TS-SB(1.5-2.5)	7/23/2001	ug/kg	1,4-Oxathiane	229	U	78,000	
				OU5-CTA-1D-4921TS-SB(1.5-2.5)	7/23/2001	ug/kg	Thiodiglycol	572	U	39,100	
				OU5-CTA-1D-4921TS-SB(1.5-2.5)	7/23/2001	mg/kg	Cyanide, Total	0.21	U	160	
CTA	**1D**	**16R**	**4925 Upton Street**								**No**
				OU5-CTA-1D-4925US-SB-(5-6)	6/8/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-4925US-SB-(5-6)	6/8/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4925US-SB-(5-6)	6/8/2001	ug/kg	1,4-Dithiane	111	UL	78,000	
				OU5-CTA-1D-4925US-SB-(5-6)	6/8/2001	ug/kg	1,4-Oxathiane	221	UL	78,000	
				OU5-CTA-1D-4925US-SB-(5-6)	6/8/2001	ug/kg	Thiodiglycol	554	U	39,100	
				OU5-CTA-1D-4925US-SB-(5-6)	6/8/2001	mg/kg	Cyanide, Total	0.26	U	160	
CTA	**1D**	**16R**	**4926 Upton Street**								**No**
				OU5-CTA-1D-4926US-SB(5-6)	6/7/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1D-4926US-SB(5-6)	6/7/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1D-4926US-SB(5-6)	6/7/2001	ug/kg	1,4-Dithiane	110	UL	78,000	
				OU5-CTA-1D-4926US-SB(5-6)	6/7/2001	ug/kg	1,4-Oxathiane	220	U	78,000	
				OU5-CTA-1D-4926US-SB(5-6)	6/7/2001	ug/kg	Thiodiglycol	550	U	39,100	
				OU5-CTA-1D-4926US-SB(5-6)	6/7/2001	mg/kg	Cyanide, Total	0.25	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
CTA	1D	16R	4931 Upton Street							No
				OU5-CTA-1D-4931US-SB(5-6)	8/13/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1D-4931US-SB(5-6)	8/13/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4931US-SB(5-6)	8/13/2001	ug/kg	1,4-Dithiane	100 U	78,000	
				OU5-CTA-1D-4931US-SB(5-6)	8/13/2001	ug/kg	1,4-Oxathiane	200 U	78,000	
				OU5-CTA-1D-4931US-SB(5-6)	8/13/2001	ug/kg	Thiodiglycol	571 U	39,100	
				OU5-CTA-1D-4931US-SB(5-6)	8/13/2001	mg/kg	Cyanide, Total	0.17 U	160	
CTA	1D	16R	4934 Upton Street							No
				OU5-CTA-1D-4934US-SBA(1.5-2.5)	11/5/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1D-4934US-SBA(1.5-2.5)	11/5/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4934US-SBA(1.5-2.5)	11/5/2001	ug/kg	1,4-Dithiane	113 U	78,000	
				OU5-CTA-1D-4934US-SBA(1.5-2.5)	11/5/2001	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU5-CTA-1D-4934US-SBA(1.5-2.5)	11/5/2001	ug/kg	Thiodiglycol	563 U	39,100	
				OU5-CTA-1D-4934US-SBA(1.5-2.5)	11/5/2001	mg/kg	Cyanide, Total	0.17 U	160	
				OU5-CTA-1D-4934US-SBB(2.5-3.5)	11/5/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1D-4934US-SBB(2.5-3.5)	11/5/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4934US-SBB(2.5-3.5)	11/5/2001	ug/kg	1,4-Dithiane	116 U	78,000	
				OU5-CTA-1D-4934US-SBB(2.5-3.5)	11/5/2001	ug/kg	1,4-Oxathiane	232 U	78,000	
				OU5-CTA-1D-4934US-SBB(2.5-3.5)	11/5/2001	ug/kg	Thiodiglycol	580 U	39,100	
				OU5-CTA-1D-4934US-SBB(2.5-3.5)	11/5/2001	mg/kg	Cyanide, Total	0.18 U	160	
CSA	11		4935 Hillbrook Lane							No
				OU5-CSA-11-4935HL-SB(4.5-5.5)	8/6/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-11-4935HL-SB(4.5-5.5)	8/6/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-11-4935HL-SB(4.5-5.5)	8/6/2001	ug/kg	1,4-Dithiane	108 U	78,000	
				OU5-CSA-11-4935HL-SB(4.5-5.5)	8/6/2001	ug/kg	1,4-Oxathiane	217 U	78,000	
				OU5-CSA-11-4935HL-SB(4.5-5.5)	8/6/2001	ug/kg	Thiodiglycol	542 U	39,100	
				OU5-CSA-11-4935HL-SB(4.5-5.5)	8/6/2001	mg/kg	Cyanide, Total	0.17 U	160	
CTA	1D		4936 Rodman Street							No
				OU5-CTA-1D-4936RS-SB(3-4)	7/30/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1D-4936RS-SB(3-4)	7/30/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4936RS-SB(3-4)	7/30/2001	ug/kg	1,4-Dithiane	114 U	78,000	
				OU5-CTA-1D-4936RS-SB(3-4)	7/30/2001	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU5-CTA-1D-4936RS-SB(3-4)	7/30/2001	ug/kg	Thiodiglycol	568 U	39,100	
				OU5-CTA-1D-4936RS-SB(3-4)	7/30/2001	mg/kg	Cyanide, Total	0.18 U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
CTA	1D	16R	4937 Tilden Street							No
				OU5-CTA-1D-4937TS-SB(2-3)	11/5/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1D-4937TS-SB(2-3)	11/5/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4937TS-SB(2-3)	11/5/2001	ug/kg	1,4-Dithiane	114 U	78,000	
				OU5-CTA-1D-4937TS-SB(2-3)	11/5/2001	ug/kg	1,4-Oxathiane	228 U	78,000	
				OU5-CTA-1D-4937TS-SB(2-3)	11/5/2001	ug/kg	Thiodiglycol	569 U	39,100	
				OU5-CTA-1D-4937TS-SB(2-3)	11/5/2001	mg/kg	Cyanide, Total	0.18 U	160	
CSA	11		4939 Quebec Street							No
				OU5-CSA-11-4939QS-SB(8-9)	8/2/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-11-4939QS-SB(8-9)	8/2/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-11-4939QS-SB(8-9)	8/2/2001	ug/kg	1,4-Dithiane	115 U	78,000	
				OU5-CSA-11-4939QS-SB(8-9)	8/2/2001	ug/kg	1,4-Oxathiane	231 U	78,000	
				OU5-CSA-11-4939QS-SB(8-9)	8/2/2001	ug/kg	Thiodiglycol	576 U	39,100	
				OU5-CSA-11-4939QS-SB(8-9)	8/2/2001	mg/kg	Cyanide, Total	0.18 U	160	
CTA	1D	16R	4941 Tilden Street							No
				OU5-CTA-1D-4941TS-SB-(3.5-4.5)	7/31/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1D-4941TS-SB-(3.5-4.5)	7/31/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1D-4941TS-SB-(3.5-4.5)	7/31/2001	ug/kg	1,4-Dithiane	107 U	78,000	
				OU5-CTA-1D-4941TS-SB-(3.5-4.5)	7/31/2001	ug/kg	1,4-Oxathiane	215 UL	78,000	
				OU5-CTA-1D-4941TS-SB-(3.5-4.5)	7/31/2001	ug/kg	Thiodiglycol	536 U	39,100	
				OU5-CTA-1D-4941TS-SB-(3.5-4.5)	7/31/2001	mg/kg	Cyanide, Total	0.18 U	160	
CSA	11		4944 Quebec Street							Yes
				OU5-CSA-11-4944QS-SB(3.5-4.5)	1/28/2002	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-11-4944QS-SB(3.5-4.5)	1/28/2002	ug/kg	1,4-Dithiane	120 U	78,000	
				OU5-CSA-11-4944QS-SB(3.5-4.5)	1/28/2002	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU5-CSA-11-4944QS-SB(3.5-4.5)	1/28/2002	ug/kg	Thiodiglycol	580 U	39,100	
				OU5-CSA-11-4944QS-SB(3.5-4.5)	1/28/2002	mg/kg	Cyanide, Total	0.169 U	160	
				OU5-CSA-11-4944QS-SB-DUP12	1/28/2002	ug/kg	Sulfur Mustard	40 U	10	
CSA	11		4960 Hillbrook Lane							No
				OU5-CSA-11-4960HL-SB(4.5-5.5)	8/6/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-11-4960HL-SB(4.5-5.5)	8/6/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-11-4960HL-SB(4.5-5.5)	8/6/2001	ug/kg	1,4-Dithiane	108 U	78,000	
				OU5-CSA-11-4960HL-SB(4.5-5.5)	8/6/2001	ug/kg	1,4-Oxathiane	215 U	78,000	
				OU5-CSA-11-4960HL-SB(4.5-5.5)	8/6/2001	ug/kg	Thiodiglycol	538 U	39,100	
				OU5-CSA-11-4960HL-SB(4.5-5.5)	8/6/2001	mg/kg	Cyanide, Total	0.16 U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
CSA	11		4985 Rockwood Parkway							No
				OU5-CSA-11-4985RP-SB(3.5-4.5)	8/7/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-11-4985RP-SB(3.5-4.5)	8/7/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-11-4985RP-SB(3.5-4.5)	8/7/2001	ug/kg	1,4-Dithiane	113 U	78,000	
				OU5-CSA-11-4985RP-SB(3.5-4.5)	8/7/2001	ug/kg	1,4-Oxathiane	226 U	78,000	
				OU5-CSA-11-4985RP-SB(3.5-4.5)	8/7/2001	ug/kg	Thiodiglycol	564 U	39,100	
				OU5-CSA-11-4985RP-SB(3.5-4.5)	8/7/2001	mg/kg	Cyanide, Total	0.19 U	160	
				OU5-CSA-11-4985RP-SB-DUP06	8/7/2001	ug/kg	Sulfur Mustard	40 U	10	
CTA	1A	16R	4992 Warren Street							No
				OU5-CTA-1A-4992WS-SB(3.5-4.5)	8/9/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1A-4992WS-SB(3.5-4.5)	8/9/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1A-4992WS-SB(3.5-4.5)	8/9/2001	ug/kg	1,4-Dithiane	110 U	78,000	
				OU5-CTA-1A-4992WS-SB(3.5-4.5)	8/9/2001	ug/kg	1,4-Oxathiane	220 U	78,000	
				OU5-CTA-1A-4992WS-SB(3.5-4.5)	8/9/2001	ug/kg	Thiodiglycol	551 U	39,100	
				OU5-CTA-1A-4992WS-SB(3.5-4.5)	8/9/2001	mg/kg	Cyanide, Total	0.15 U	160	
CTA	1A	16R	4996 Warren Street							No
				OU5-CTA-1A-4996WS-SB(0-1)	9/17/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1A-4996WS-SB(0-1)	9/17/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1A-4996WS-SB(0-1)	9/17/2001	ug/kg	1,4-Dithiane	111 U	78,000	
				OU5-CTA-1A-4996WS-SB(0-1)	9/17/2001	ug/kg	1,4-Oxathiane	222 U	78,000	
				OU5-CTA-1A-4996WS-SB(0-1)	9/17/2001	ug/kg	Thiodiglycol	556 U	39,100	
				OU5-CTA-1A-4996WS-SB(0-1)	9/17/2001	mg/kg	Cyanide, Total	0.18 U	160	
CSA	11		5001 Rockwood Parkway							No
				OU5-CSA-11-5001RP-SB(3.5-4.5)	8/7/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-11-5001RP-SB(3.5-4.5)	8/7/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-11-5001RP-SB(3.5-4.5)	8/7/2001	ug/kg	1,4-Dithiane	111 U	78,000	
				OU5-CSA-11-5001RP-SB(3.5-4.5)	8/7/2001	ug/kg	1,4-Oxathiane	221 U	78,000	
				OU5-CSA-11-5001RP-SB(3.5-4.5)	8/7/2001	ug/kg	Thiodiglycol	553 U	39,100	
				OU5-CSA-11-5001RP-SB(3.5-4.5)	8/7/2001	mg/kg	Cyanide, Total	0.18 U	160	
CTA	1C	7R	5001 Sedgwick Street							No
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	1,4-Dithiane	105 U	78,000	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	1,4-Oxathiane	210 U	78,000	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	Thiodiglycol	525 U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	2,6-Dinitrotoluene	200	U	7,800	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1C-5001SegS-SB(3-4)	7/23/2001	mg/kg	Cyanide, Total	0.2	U	160	
CTA	*1C*	*16R*	*5001 Upton Street*								*No*
				OU5-CTA-1C-5001US-SB-3	6/11/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1C-5001US-SB-3	6/11/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1C-5001US-SB-3	6/11/2001	ug/kg	1,4-Dithiane	111	UL	78,000	
				OU5-CTA-1C-5001US-SB-3	6/11/2001	ug/kg	1,4-Oxathiane	222	UL	78,000	
				OU5-CTA-1C-5001US-SB-3	6/11/2001	ug/kg	Thiodiglycol	500	U	39,100	
				OU5-CTA-1C-5001US-SB-3	6/11/2001	mg/kg	Cyanide, Total	0.28	U	160	
CTA	*1A*	*16R*	*5001 Van Ness Street*								*No*
				OU5-CTA-1A-5001VNS-SB(2.5-3.5)	7/3/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5001VNS-SB(2.5-3.5)	7/3/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5001VNS-SB(2.5-3.5)	7/3/2001	ug/kg	1,4-Dithiane	110	UL	78,000	
				OU5-CTA-1A-5001VNS-SB(2.5-3.5)	7/3/2001	ug/kg	1,4-Oxathiane	220	U	78,000	
				OU5-CTA-1A-5001VNS-SB(2.5-3.5)	7/3/2001	ug/kg	Thiodiglycol	549	U	39,100	
				OU5-CTA-1A-5001VNS-SB(2.5-3.5)	7/3/2001	mg/kg	Cyanide, Total	0.24	U	160	
CTA	*1A*	*16R*	*5002 Warren Street*								*No*
				OU5-CTA-1A-5002WS-SB-(8-9)	8/2/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5002WS-SB-(8-9)	8/2/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5002WS-SB-(8-9)	8/2/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CTA-1A-5002WS-SB-(8-9)	8/2/2001	ug/kg	1,4-Oxathiane	222	U	78,000	
				OU5-CTA-1A-5002WS-SB-(8-9)	8/2/2001	ug/kg	Thiodiglycol	556	U	39,100	
				OU5-CTA-1A-5002WS-SB-(8-9)	8/2/2001	mg/kg	Cyanide, Total	0.19	U	160	
CTA	*1A*	*16R*	*5004 Warren Street*								*No*
				OU5-CTA-1A-5004WS-SB(5.5-6.5)	6/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5004WS-SB(5.5-6.5)	6/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5004WS-SB(5.5-6.5)	6/26/2001	ug/kg	1,4-Dithiane	120	UL	78,000	
				OU5-CTA-1A-5004WS-SB(5.5-6.5)	6/26/2001	ug/kg	1,4-Oxathiane	241	U	78,000	
				OU5-CTA-1A-5004WS-SB(5.5-6.5)	6/26/2001	ug/kg	Thiodiglycol	602	U	39,100	
				OU5-CTA-1A-5004WS-SB(5.5-6.5)	6/26/2001	mg/kg	Cyanide, Total	0.29	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CSA	2		5006 Massachusetts Avenue								No
				OU5-CSA-2-5006MA-SB(1.5-2.5)	3/26/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5006MA-SB(1.5-2.5)	3/26/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5006MA-SB(1.5-2.5)	3/26/2002	ug/kg	1,4-Dithiane	120	U	78,000	
				OU5-CSA-2-5006MA-SB(1.5-2.5)	3/26/2002	ug/kg	1,4-Oxathiane	240	U	78,000	
				OU5-CSA-2-5006MA-SB(1.5-2.5)	3/26/2002	ug/kg	Thiodiglycol	590	U	39,100	
				OU5-CSA-2-5006MA-SB(1.5-2.5)	3/26/2002	mg/kg	Cyanide, Total	0.29	U	160	
CTA	1A	16R	5006 Warren Street								No
				OU5-CTA-1A-5006WS-SB(3-4)	6/14/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5006WS-SB(3-4)	6/14/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5006WS-SB(3-4)	6/14/2001	ug/kg	1,4-Dithiane	113	UL	78,000	
				OU5-CTA-1A-5006WS-SB(3-4)	6/14/2001	ug/kg	1,4-Oxathiane	227	U	78,000	
				OU5-CTA-1A-5006WS-SB(3-4)	6/14/2001	ug/kg	Thiodiglycol	567	U	39,100	
				OU5-CTA-1A-5006WS-SB(3-4)	6/14/2001	mg/kg	Cyanide, Total	0.23	U	160	
CTA	1A	16R	5008 Warren Street								No
				OU5-CTA-1A-5008WS-SB(1-2)	7/31/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5008WS-SB(1-2)	7/31/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5008WS-SB(1-2)	7/31/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CTA-1A-5008WS-SB(1-2)	7/31/2001	ug/kg	1,4-Oxathiane	222	UL	78,000	
				OU5-CTA-1A-5008WS-SB(1-2)	7/31/2001	ug/kg	Thiodiglycol	555	U	39,100	
				OU5-CTA-1A-5008WS-SB(1-2)	7/31/2001	mg/kg	Cyanide, Total	0.16	U	160	
CSA	2		5010 Massachusetts Avenue								No
				OU5-CSA-2-5010MA-SB(4.5-5.5)	11/12/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5010MA-SB(4.5-5.5)	11/12/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5010MA-SB(4.5-5.5)	11/12/2001	ug/kg	1,4-Dithiane	110.4	U	78,000	
				OU5-CSA-2-5010MA-SB(4.5-5.5)	11/12/2001	ug/kg	1,4-Oxathiane	220.8	U	78,000	
				OU5-CSA-2-5010MA-SB(4.5-5.5)	11/12/2001	ug/kg	Thiodiglycol	550	U	39,100	
				OU5-CSA-2-5010MA-SB(4.5-5.5)	11/12/2001	mg/kg	Cyanide, Total	0.16	U	160	
CTA	1C	16R	5010 Van Ness Street								No
				OU5-CTA-1C-5010 VNS-SB(4-5)	6/14/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1C-5010 VNS-SB(4-5)	6/14/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1C-5010 VNS-SB(4-5)	6/14/2001	ug/kg	1,4-Dithiane	112	UL	78,000	
				OU5-CTA-1C-5010 VNS-SB(4-5)	6/14/2001	ug/kg	1,4-Oxathiane	224	U	78,000	
				OU5-CTA-1C-5010 VNS-SB(4-5)	6/14/2001	ug/kg	Thiodiglycol	561	U	39,100	
				OU5-CTA-1C-5010 VNS-SB(4-5)	6/14/2001	mg/kg	Cyanide, Total	0.25	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CTA	1C	7R	5011 Sedgwick Street								No
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	1,4-Dithiane	112	UL	78,000	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	1,4-Oxathiane	224	U	78,000	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	Thiodiglycol	559	U	39,100	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	Nitroglycerine	2500	UJ	46,000	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1C-5011SegS-SB(2-3)	6/21/2001	mg/kg	Cyanide, Total	0.22	U	160	
CTA	1A	15R	5011 Warren Street								No
				OU5-CTA-1A-5011WS-SB-3	6/8/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5011WS-SB-3	6/8/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5011WS-SB-3	6/8/2001	ug/kg	1,4-Dithiane	109	UL	78,000	
				OU5-CTA-1A-5011WS-SB-3	6/8/2001	ug/kg	1,4-Oxathiane	219	UL	78,000	
				OU5-CTA-1A-5011WS-SB-3	6/8/2001	ug/kg	Thiodiglycol	547	U	39,100	
				OU5-CTA-1A-5011WS-SB-3	6/8/2001	mg/kg	Cyanide, Total	0.26	U	160	
CSA	2		5012 Massachusetts Avenue								No
				OU5-CSA-2-5012MA-SB(3.5-4.5)	3/20/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5012MA-SB(3.5-4.5)	3/20/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5012MA-SB(3.5-4.5)	3/20/2002	ug/kg	1,4-Dithiane	140	U	78,000	
				OU5-CSA-2-5012MA-SB(3.5-4.5)	3/20/2002	ug/kg	1,4-Oxathiane	290	U	78,000	
				OU5-CSA-2-5012MA-SB(3.5-4.5)	3/20/2002	ug/kg	Thiodiglycol	720	U	39,100	
				OU5-CSA-2-5012MA-SB(3.5-4.5)	3/20/2002	mg/kg	Cyanide, Total	0.21	U	160	
CTA	1A	15R	5013 Warren Street								No
				OU5-CTA-1A-5013WS-SB(0.5-1.5)	6/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5013WS-SB(0.5-1.5)	6/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5013WS-SB(0.5-1.5)	6/26/2001	ug/kg	1,4-Dithiane	122	UL	78,000	
				OU5-CTA-1A-5013WS-SB(0.5-1.5)	6/26/2001	ug/kg	1,4-Oxathiane	244	U	78,000	
				OU5-CTA-1A-5013WS-SB(0.5-1.5)	6/26/2001	ug/kg	Thiodiglycol	611	U	39,100	
				OU5-CTA-1A-5013WS-SB(0.5-1.5)	6/26/2001	mg/kg	Cyanide, Total	0.29	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CTA	1A	16R	5015 Van Ness Street								No
				OU5-CTA-1A-5015VNS-SB-(3-4)	6/8/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5015VNS-SB-(3-4)	6/8/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5015VNS-SB-(3-4)	6/8/2001	ug/kg	1,4-Dithiane	109	UL	78,000	
				OU5-CTA-1A-5015VNS-SB-(3-4)	6/8/2001	ug/kg	1,4-Oxathiane	218	UL	78,000	
				OU5-CTA-1A-5015VNS-SB-(3-4)	6/8/2001	ug/kg	Thiodiglycol	546	U	39,100	
				OU5-CTA-1A-5015VNS-SB-(3-4)	6/8/2001	mg/kg	Cyanide, Total	0.24	U	160	
CTA	1A	15R	5015 Warren Street								No
				OU5-CTA-1A-5015WS-SB-(5-6)	6/8/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5015WS-SB-(5-6)	6/8/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5015WS-SB-(5-6)	6/8/2001	ug/kg	1,4-Dithiane	107	UL	78,000	
				OU5-CTA-1A-5015WS-SB-(5-6)	6/8/2001	ug/kg	1,4-Oxathiane	214	UL	78,000	
				OU5-CTA-1A-5015WS-SB-(5-6)	6/8/2001	ug/kg	Thiodiglycol	535	U	39,100	
				OU5-CTA-1A-5015WS-SB-(5-6)	6/8/2001	mg/kg	Cyanide, Total	0.23	U	160	
CSA	2		5028 Massachusetts Avenue								No
				OU5-CSA-2-5028MA-SB(3-4)	3/26/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5028MA-SB(3-4)	3/26/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5028MA-SB(3-4)	3/26/2002	ug/kg	1,4-Dithiane	120	U	78,000	
				OU5-CSA-2-5028MA-SB(3-4)	3/26/2002	ug/kg	1,4-Oxathiane	240	U	78,000	
				OU5-CSA-2-5028MA-SB(3-4)	3/26/2002	ug/kg	Thiodiglycol	610	U	39,100	
				OU5-CSA-2-5028MA-SB(3-4)	3/26/2002	mg/kg	Cyanide, Total	0.3	U	160	
CTA	1C	38	5035 Rockwood Parkway								No
				OU5-CTA-1C-5035RP-SB(5-6)	6/26/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1C-5035RP-SB(5-6)	6/26/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1C-5035RP-SB(5-6)	6/26/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1C-5035RP-SB(5-6)	6/26/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1C-5035RP-SB(5-6)	6/26/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1C-5035RP-SB(5-6)	6/26/2001	ug/kg	Tetryl	100	U	78,000	
CSA	12		5041 Loughboro Road								Yes
				OU5-CSA-12-5041LR-SB(2-3)	11/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-12-5041LR-SB(2-3)	11/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-12-5041LR-SB(2-3)	11/26/2001	ug/kg	1,4-Dithiane	104.8	U	78,000	
				OU5-CSA-12-5041LR-SB(2-3)	11/26/2001	ug/kg	1,4-Oxathiane	209.6	U	78,000	
				OU5-CSA-12-5041LR-SB(2-3)	11/26/2001	ug/kg	Thiodiglycol	520	U	39,100	
				OU5-CSA-12-5041LR-SB(2-3)	11/26/2001	mg/kg	Cyanide, Total	0.146	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
CSA	12		5068 Overlook Road								No
				OU5-CSA-12-5068OR-SB(1.5-2.5)	11/19/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-12-5068OR-SB(1.5-2.5)	11/19/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-12-5068OR-SB(1.5-2.5)	11/19/2001	ug/kg	1,4-Dithiane	143.9	U	78,000	
				OU5-CSA-12-5068OR-SB(1.5-2.5)	11/19/2001	ug/kg	1,4-Oxathiane	287.8	U	78,000	
				OU5-CSA-12-5068OR-SB(1.5-2.5)	11/19/2001	ug/kg	Thiodiglycol	830	U	39,100	
				OU5-CSA-12-5068OR-SB(1.5-2.5)	11/19/2001	mg/kg	Cyanide, Total	0.14	U	160	
CTA	1C	38	5068 Sedgwick Street								No
				OU5-CTA-1C-5068SegS-SB(2-3)	7/19/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1C-5068SegS-SB(2-3)	7/19/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1C-5068SegS-SB(2-3)	7/19/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1C-5068SegS-SB(2-3)	7/19/2001	ug/kg	Nitrobenzene	100	UL	3,900	
				OU5-CTA-1C-5068SegS-SB(2-3)	7/19/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1C-5068SegS-SB(2-3)	7/19/2001	ug/kg	Tetryl	100	U	78,000	
CTA	1C	38	5074 Sedgwick Street								No
				OU5-CTA-1C-5074SegS-SB(3-4)	7/19/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1C-5074SegS-SB(3-4)	7/19/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1C-5074SegS-SB(3-4)	7/19/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1C-5074SegS-SB(3-4)	7/19/2001	ug/kg	Nitrobenzene	100	UL	3,900	
				OU5-CTA-1C-5074SegS-SB(3-4)	7/19/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1C-5074SegS-SB(3-4)	7/19/2001	ug/kg	Tetryl	100	U	78,000	
CSA	2		5100 Massachusetts Avenue								No
				OU5-CSA-2-5100MA-SB(3-4)	8/13/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5100MA-SB(3-4)	8/13/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5100MA-SB(3-4)	8/13/2001	ug/kg	1,4-Dithiane	100	U	78,000	
				OU5-CSA-2-5100MA-SB(3-4)	8/13/2001	ug/kg	1,4-Oxathiane	200	U	78,000	
				OU5-CSA-2-5100MA-SB(3-4)	8/13/2001	ug/kg	Thiodiglycol	582	U	39,100	
				OU5-CSA-2-5100MA-SB(3-4)	8/13/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	2		5100 Yuma Place								No
				OU5-CSA-2-5100YP-SB(5-6)	12/3/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5100YP-SB(5-6)	12/3/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5100YP-SB(5-6)	12/3/2001	ug/kg	1,4-Dithiane	113.6	U	78,000	
				OU5-CSA-2-5100YP-SB(5-6)	12/3/2001	ug/kg	1,4-Oxathiane	227.3	U	78,000	
				OU5-CSA-2-5100YP-SB(5-6)	12/3/2001	ug/kg	Thiodiglycol	568	U	39,100	
				OU5-CSA-2-5100YP-SB(5-6)	12/3/2001	mg/kg	Cyanide, Total	0.16	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
CSA	2		5100 Yuma Street							No
				OU5-CSA-2-5100YS-SB(2-3)	8/9/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-2-5100YS-SB(2-3)	8/9/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-2-5100YS-SB(2-3)	8/9/2001	ug/kg	1,4-Dithiane	119 U	78,000	
				OU5-CSA-2-5100YS-SB(2-3)	8/9/2001	ug/kg	1,4-Oxathiane	238 U	78,000	
				OU5-CSA-2-5100YS-SB(2-3)	8/9/2001	ug/kg	Thiodiglycol	594 U	39,100	
				OU5-CSA-2-5100YS-SB(2-3)	8/9/2001	mg/kg	Cyanide, Total	0.2 U	160	
CSA	2		5101 Yuma Court							No
				OU5-CSA-2-5101YC-SB(3-4)	9/18/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-2-5101YC-SB(3-4)	9/18/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-2-5101YC-SB(3-4)	9/18/2001	ug/kg	1,4-Dithiane	115 U	78,000	
				OU5-CSA-2-5101YC-SB(3-4)	9/18/2001	ug/kg	1,4-Oxathiane	230 U	78,000	
				OU5-CSA-2-5101YC-SB(3-4)	9/18/2001	ug/kg	Thiodiglycol	575 U	39,100	
				OU5-CSA-2-5101YC-SB(3-4)	9/18/2001	mg/kg	Cyanide, Total	0.17 U	160	
				OU5-CSA-2-5101YC-SB-DUP09	9/18/2001	ug/kg	1,4-Dithiane	112 U	78,000	
				OU5-CSA-2-5101YC-SB-DUP09	9/18/2001	ug/kg	1,4-Oxathiane	225 U	78,000	
				OU5-CSA-2-5101YC-SB-DUP09	9/18/2001	ug/kg	Thiodiglycol	562 U	39,100	
CSA	2		5101 Yuma Place							No
				OU5-CSA-2-5101YP-SB(2.5-3.5)	7/19/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-2-5101YP-SB(2.5-3.5)	7/19/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-2-5101YP-SB(2.5-3.5)	7/19/2001	ug/kg	1,4-Dithiane	111 U	78,000	
				OU5-CSA-2-5101YP-SB(2.5-3.5)	7/19/2001	ug/kg	1,4-Oxathiane	222 U	78,000	
				OU5-CSA-2-5101YP-SB(2.5-3.5)	7/19/2001	ug/kg	Thiodiglycol	555 U	39,100	
				OU5-CSA-2-5101YP-SB(2.5-3.5)	7/19/2001	mg/kg	Cyanide, Total	0.22 U	160	
CTA	1A	15R	5103 Warren Place							No
				OU5-CTA-1A-5103WP-SB(0-1)	8/13/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CTA-1A-5103WP-SB(0-1)	8/13/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CTA-1A-5103WP-SB(0-1)	8/13/2001	ug/kg	1,4-Dithiane	100 U	78,000	
				OU5-CTA-1A-5103WP-SB(0-1)	8/13/2001	ug/kg	1,4-Oxathiane	200 U	78,000	
				OU5-CTA-1A-5103WP-SB(0-1)	8/13/2001	ug/kg	Thiodiglycol	552 U	39,100	
				OU5-CTA-1A-5103WP-SB(0-1)	8/13/2001	mg/kg	Cyanide, Total	0.18 U	160	
CSA	2		5103 Yuma Place							No
				OU5-CSA-2-5103YP-SB(0.5-1.5)	9/4/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-2-5103YP-SB(0.5-1.5)	9/4/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-2-5103YP-SB(0.5-1.5)	9/4/2001	ug/kg	1,4-Dithiane	114 U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-2-5103YP-SB(0.5-1.5)	9/4/2001	ug/kg	1,4-Oxathiane	228	U	78,000	
				OU5-CSA-2-5103YP-SB(0.5-1.5)	9/4/2001	ug/kg	Thiodiglycol	569	U	39,100	
				OU5-CSA-2-5103YP-SB(0.5-1.5)	9/4/2001	mg/kg	Cyanide, Total	0.16	U	160	
CTA	**1A**	**15R**	**5105 Warren Place**								**No**
				OU5-CTA-1A-5105WP-SB(0-1)	10/1/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5105WP-SB(0-1)	10/1/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5105WP-SB(0-1)	10/1/2001	ug/kg	1,4-Dithiane	129	U	78,000	
				OU5-CTA-1A-5105WP-SB(0-1)	10/1/2001	ug/kg	1,4-Oxathiane	258	U	78,000	
				OU5-CTA-1A-5105WP-SB(0-1)	10/1/2001	ug/kg	Thiodiglycol	644	U	39,100	
				OU5-CTA-1A-5105WP-SB(0-1)	10/1/2001	mg/kg	Cyanide, Total	0.21	U	160	
CSA	**2**		**5105 Yuma Place**								**No**
				OU5-CSA-2-5105YP-SB(3-4)	8/29/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5105YP-SB(3-4)	8/29/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5105YP-SB(3-4)	8/29/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CSA-2-5105YP-SB(3-4)	8/29/2001	ug/kg	1,4-Oxathiane	222	UJ	78,000	
				OU5-CSA-2-5105YP-SB(3-4)	8/29/2001	ug/kg	Thiodiglycol	556	U	39,100	
				OU5-CSA-2-5105YP-SB(3-4)	8/29/2001	mg/kg	Cyanide, Total	0.17	U	160	
CTA	**1A**	**13**	**5106 52nd Court**								**No**
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	1,4-Dithiane	113	UL	78,000	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	1,4-Oxathiane	226	U	78,000	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	Thiodiglycol	566	U	39,100	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1A-5106(52C)-SB(7.5-8.5)	7/5/2001	mg/kg	Cyanide, Total	0.26	U	160	
CSA	**2**		**5106 Massachusetts Avenue**								**No**
				OU5-CSA-2-5106MA-SB(4-5)	8/29/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5106MA-SB(4-5)	8/29/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5106MA-SB(4-5)	8/29/2001	ug/kg	1,4-Dithiane	115	U	78,000	
				OU5-CSA-2-5106MA-SB(4-5)	8/29/2001	ug/kg	1,4-Oxathiane	230	UJ	78,000	
				OU5-CSA-2-5106MA-SB(4-5)	8/29/2001	ug/kg	Thiodiglycol	576	U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-2-5106MA-SB(4-5)	8/29/2001	mg/kg	Cyanide, Total	0.2	U	160	
				OU5-CSA-2-5106MA-SB-DUP08	8/29/2001	ug/kg	Sulfur Mustard	40	U	10	
CTA	1A	13	5107 52nd Court								No
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	1,4-Dithiane	106	UL	78,000	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	1,4-Oxathiane	212	U	78,000	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	Thiodiglycol	530	U	39,100	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1A-5107(52C)-SBA(5-6)	6/18/2001	mg/kg	Cyanide, Total	0.24	U	160	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	1,4-Dithiane	111	UL	78,000	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	1,4-Oxathiane	222	U	78,000	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	Thiodiglycol	554	U	39,100	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	Nitrobenzene	100	UL	3,900	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1A-5107(52C)-SBB(5-6)	6/18/2001	mg/kg	Cyanide, Total	0.22	U	160	
CTA	1A	13	5108 52nd Court								No
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	1,4-Dithiane	110.1	U	78,000	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	1,4-Oxathiane	220.3	U	78,000	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	Thiodiglycol	550	U	39,100	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	2,6-Dinitrotoluene	100	UJ	7,800	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	Nitrobenzene	100	U	3,900	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1A-5108(52C)-SBA(2-3)	11/6/2001	mg/kg	Cyanide, Total	0.166	U	160	
CTA	1A	13	5110 52nd Court								No
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	1,4-Dithiane	106	UL	78,000	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	1,4-Oxathiane	212	U	78,000	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	Thiodiglycol	531	U	39,100	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	Nitroglycerine	2500	UJ	46,000	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1A-5110(52C)-SB(5-6)	6/21/2001	mg/kg	Cyanide, Total	0.25	U	160	
CSA	2		5110 Yuma Street								No
				OU5-CSA-2-5110YS-SB(3-4)	7/26/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5110YS-SB(3-4)	7/26/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5110YS-SB(3-4)	7/26/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CSA-2-5110YS-SB(3-4)	7/26/2001	ug/kg	1,4-Oxathiane	223	U	78,000	
				OU5-CSA-2-5110YS-SB(3-4)	7/26/2001	ug/kg	Thiodiglycol	556	U	39,100	
				OU5-CSA-2-5110YS-SB(3-4)	7/26/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	2		5115 Yuma Street								No
				OU5-CSA-2-5115YS-SB(3.5-4.5)	10/8/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5115YS-SB(3.5-4.5)	10/8/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5115YS-SB(3.5-4.5)	10/8/2001	ug/kg	1,4-Dithiane	133	U	78,000	
				OU5-CSA-2-5115YS-SB(3.5-4.5)	10/8/2001	ug/kg	1,4-Oxathiane	266	U	78,000	
				OU5-CSA-2-5115YS-SB(3.5-4.5)	10/8/2001	ug/kg	Thiodiglycol	666	U	39,100	
				OU5-CSA-2-5115YS-SB(3.5-4.5)	10/8/2001	mg/kg	Cyanide, Total	0.22	U	160	
				OU5-CSA-2-5115YS-SB-DUP10	10/8/2001	ug/kg	Sulfur Mustard	40	U	10	
CSA	2		5116 Yuma Street								No
				OU5-CSA-2-5116YS-SB(3.5-4.5)	3/26/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5116YS-SB(3.5-4.5)	3/26/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5116YS-SB(3.5-4.5)	3/26/2002	ug/kg	1,4-Dithiane	130	U	78,000	
				OU5-CSA-2-5116YS-SB(3.5-4.5)	3/26/2002	ug/kg	1,4-Oxathiane	260	U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
				OU5-CSA-2-5116YS-SB(3.5-4.5)	3/26/2002	ug/kg	Thiodiglycol	650 U	39,100	
				OU5-CSA-2-5116YS-SB(3.5-4.5)	3/26/2002	mg/kg	Cyanide, Total	0.32 U	160	
CSA	2		5117 Albemarle Street							No
				OU5-CSA-2-5117AS-SB(3.5-4.5)	11/5/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-2-5117AS-SB(3.5-4.5)	11/5/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-2-5117AS-SB(3.5-4.5)	11/5/2001	ug/kg	1,4-Dithiane	111 U	78,000	
				OU5-CSA-2-5117AS-SB(3.5-4.5)	11/5/2001	ug/kg	1,4-Oxathiane	221 U	78,000	
				OU5-CSA-2-5117AS-SB(3.5-4.5)	11/5/2001	ug/kg	Thiodiglycol	553 U	39,100	
				OU5-CSA-2-5117AS-SB(3.5-4.5)	11/5/2001	mg/kg	Cyanide, Total	0.17 U	160	
CSA	2		5118 Yuma Street							No
				OU5-CSA-2-5118YS-SB(9-10)	10/8/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-2-5118YS-SB(9-10)	10/8/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-2-5118YS-SB(9-10)	10/8/2001	ug/kg	1,4-Dithiane	114 U	78,000	
				OU5-CSA-2-5118YS-SB(9-10)	10/8/2001	ug/kg	1,4-Oxathiane	229 U	78,000	
				OU5-CSA-2-5118YS-SB(9-10)	10/8/2001	ug/kg	Thiodiglycol	572 U	39,100	
				OU5-CSA-2-5118YS-SB(9-10)	10/8/2001	mg/kg	Cyanide, Total	0.2 U	160	
				OU5-CSA-2-5118YS-SB-DUP10	10/8/2001	ug/kg	1,4-Dithiane	114 U	78,000	
				OU5-CSA-2-5118YS-SB-DUP10	10/8/2001	ug/kg	1,4-Oxathiane	228 U	78,000	
				OU5-CSA-2-5118YS-SB-DUP10	10/8/2001	ug/kg	Thiodiglycol	569 U	39,100	
CSA	2		5121 Yuma Street							No
				OU5-CSA-2-5121YS-SB(3-4)	10/2/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-2-5121YS-SB(3-4)	10/2/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-2-5121YS-SB(3-4)	10/2/2001	ug/kg	1,4-Dithiane	113 U	78,000	
				OU5-CSA-2-5121YS-SB(3-4)	10/2/2001	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU5-CSA-2-5121YS-SB(3-4)	10/2/2001	ug/kg	Thiodiglycol	567 U	39,100	
				OU5-CSA-2-5121YS-SB(3-4)	10/2/2001	mg/kg	Cyanide, Total	0.17 U	160	
CSA	2		5122 Yuma Street							No
				OU5-CSA-2-5122YS-SB(3-4)	8/29/2002	ug/kg	CVAA/CVAO	40 U \2	890	
				OU5-CSA-2-5122YS-SB(3-4)	8/29/2002	ug/kg	Sulfur Mustard	40 U \2	10	
				OU5-CSA-2-5122YS-SB(3-4)	8/29/2002	ug/kg	1,4-Dithiane	110 U \2	78,000	
				OU5-CSA-2-5122YS-SB(3-4)	8/29/2002	ug/kg	1,4-Oxathiane	230 U \2	78,000	
				OU5-CSA-2-5122YS-SB(3-4)	8/29/2002	ug/kg	Thiodiglycol	560 U \2	39,100	
				OU5-CSA-2-5122YS-SB(3-4)	8/29/2002	mg/kg	Cyanide, Total	0.17 U \2	160	
CSA	2		5123 Warren Place							No
				OU5-CSA-2-5123WP-SB(1-2)	10/22/2001	ug/kg	CVAA/CVAO	40 U	890	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-2-5123WP-SB(1-2)	10/22/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5123WP-SB(1-2)	10/22/2001	ug/kg	1,4-Dithiane	110	U	78,000	
				OU5-CSA-2-5123WP-SB(1-2)	10/22/2001	ug/kg	1,4-Oxathiane	221	U	78,000	
				OU5-CSA-2-5123WP-SB(1-2)	10/22/2001	ug/kg	Thiodiglycol	550	U	39,100	
				OU5-CSA-2-5123WP-SB(1-2)	10/22/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	*2*		*5133 Warren Place*								*No*
				OU5-CSA-2-5133WP-SB(3-4)	10/22/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5133WP-SB(3-4)	10/22/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5133WP-SB(3-4)	10/22/2001	ug/kg	1,4-Dithiane	111	U	78,000	
				OU5-CSA-2-5133WP-SB(3-4)	10/22/2001	ug/kg	1,4-Oxathiane	222	U	78,000	
				OU5-CSA-2-5133WP-SB(3-4)	10/22/2001	ug/kg	Thiodiglycol	560	U	39,100	
				OU5-CSA-2-5133WP-SB(3-4)	10/22/2001	mg/kg	Cyanide, Total	0.19	U	160	
CSA	*2*		*5133 Yuma Street*								*No*
				OU5-CSA-2-5133YS-SB(2-3)	7/25/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-2-5133YS-SB(2-3)	7/25/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-2-5133YS-SB(2-3)	7/25/2001	ug/kg	1,4-Dithiane	109	U	78,000	
				OU5-CSA-2-5133YS-SB(2-3)	7/25/2001	ug/kg	1,4-Oxathiane	218	U	78,000	
				OU5-CSA-2-5133YS-SB(2-3)	7/25/2001	ug/kg	Thiodiglycol	544	U	39,100	
				OU5-CSA-2-5133YS-SB(2-3)	7/25/2001	mg/kg	Cyanide, Total	0.2		160	
CTA	*1B*	*38*	*5163 Tilden Street*								*No*
				OU5-CTA-1B-5163TS-SB(9-10)	6/19/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1B-5163TS-SB(9-10)	6/19/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-5163TS-SB(9-10)	6/19/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-5163TS-SB(9-10)	6/19/2001	ug/kg	Nitrobenzene	100	UL	3,900	
				OU5-CTA-1B-5163TS-SB(9-10)	6/19/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1B-5163TS-SB(9-10)	6/19/2001	ug/kg	Tetryl	100	U	78,000	
CTA	*1B*	*38*	*5169 Tilden Street*								*No*
				OU5-CTA-1B-5169TS-SB(5-6)	6/26/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1B-5169TS-SB(5-6)	6/26/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-5169TS-SB(5-6)	6/26/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-5169TS-SB(5-6)	6/26/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1B-5169TS-SB(5-6)	6/26/2001	ug/kg	Nitroglycerine	2500	UJ	46,000	
				OU5-CTA-1B-5169TS-SB(5-6)	6/26/2001	ug/kg	Tetryl	100	U	78,000	
CTA	*1C*	*38*	*5170 Tilden Street*								*No*
				OU5-CTA-1C-5170TS-SB(7-8)	8/22/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CTA-1C-5170TS-SB(7-8)	8/22/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1C-5170TS-SB(7-8)	8/22/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1C-5170TS-SB(7-8)	8/22/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1C-5170TS-SB(7-8)	8/22/2001	ug/kg	Nitroglycerine	2500	UL	46,000	
				OU5-CTA-1C-5170TS-SB(7-8)	8/22/2001	ug/kg	Tetryl	100	U	78,000	
CTA	**1B**	**38**	**5175 Tilden Street**								**No**
				OU5-CTA-1B-5175(TS)-SB(5-6)	7/17/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1B-5175(TS)-SB(5-6)	7/17/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-5175(TS)-SB(5-6)	7/17/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-5175(TS)-SB(5-6)	7/17/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1B-5175(TS)-SB(5-6)	7/17/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1B-5175(TS)-SB(5-6)	7/17/2001	ug/kg	Tetryl	100	U	78,000	
CTA	**1B**	**39**	**5212 Upton Terrace**								**No**
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	1,4-Dithiane	111	UL	78,000	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	1,4-Oxathiane	222	U	78,000	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	Thiodiglycol	554	U	39,100	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	2,4-Dinitrotoluene	100	U	16,000	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	2,6-Dinitrotoluene	100	U	7,800	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	2,4,6-Trinitrotoluen	100	U	21,000	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	Nitrobenzene	100	U	3,900	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	Nitroglycerine	2500	U	46,000	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	ug/kg	Tetryl	100	U	78,000	
				OU5-CTA-1B-5212(UT)-(5-6)	7/12/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	**5**		**Friendship Park 45th Street, Lot 16**								**No**
				OU5-CSA-5-L16-SBA(3.5-4.5)	1/3/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L16-SBA(3.5-4.5)	1/3/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L16-SBA(3.5-4.5)	1/3/2002	ug/kg	1,4-Dithiane	118.3	U	78,000	
				OU5-CSA-5-L16-SBA(3.5-4.5)	1/3/2002	ug/kg	1,4-Oxathiane	236.7	U	78,000	
				OU5-CSA-5-L16-SBA(3.5-4.5)	1/3/2002	ug/kg	Thiodiglycol	590	U	39,100	
				OU5-CSA-5-L16-SBA(3.5-4.5)	1/3/2002	mg/kg	Cyanide, Total	0.279	U	160	
				OU5-CSA-5-L16-SBB(4-5)	1/3/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L16-SBB(4-5)	1/3/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L16-SBB(4-5)	1/3/2002	ug/kg	1,4-Dithiane	120.5	U	78,000	
				OU5-CSA-5-L16-SBB(4-5)	1/3/2002	ug/kg	1,4-Oxathiane	241	U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-5-L16-SBB(4-5)	1/3/2002	ug/kg	Thiodiglycol	600	U	39,100	
				OU5-CSA-5-L16-SBB(4-5)	1/3/2002	mg/kg	Cyanide, Total	0.287	U	160	
CSA	5		Friendship Park 45th Street, Lot 18								No
				OU5-CSA-5-L18-SB(5.5-6.5)	1/3/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L18-SB(5.5-6.5)	1/3/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L18-SB(5.5-6.5)	1/3/2002	ug/kg	1,4-Dithiane	129	U	78,000	
				OU5-CSA-5-L18-SB(5.5-6.5)	1/3/2002	ug/kg	1,4-Oxathiane	257.4	U	78,000	
				OU5-CSA-5-L18-SB(5.5-6.5)	1/3/2002	ug/kg	Thiodiglycol	640	U	39,100	
				OU5-CSA-5-L18-SB(5.5-6.5)	1/3/2002	mg/kg	Cyanide, Total	0.298	U	160	
CSA	5		Friendship Park 45th Street, Lot 19								No
				OU5-CSA-5-L19-SB(7.5-8.5)	1/3/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L19-SB(7.5-8.5)	1/3/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L19-SB(7.5-8.5)	1/3/2002	ug/kg	1,4-Dithiane	125	U	78,000	
				OU5-CSA-5-L19-SB(7.5-8.5)	1/3/2002	ug/kg	1,4-Oxathiane	250	U	78,000	
				OU5-CSA-5-L19-SB(7.5-8.5)	1/3/2002	ug/kg	Thiodiglycol	630	U	39,100	
				OU5-CSA-5-L19-SB(7.5-8.5)	1/3/2002	mg/kg	Cyanide, Total	0.292	U	160	
CSA	5		Friendship Park 45th Street, Lot 2								No
				OU5-CSA-5-L2-SB(3-4)	1/4/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L2-SB(3-4)	1/4/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L2-SB(3-4)	1/4/2002	ug/kg	1,4-Dithiane	127.6	U	78,000	
				OU5-CSA-5-L2-SB(3-4)	1/4/2002	ug/kg	1,4-Oxathiane	255.1	U	78,000	
				OU5-CSA-5-L2-SB(3-4)	1/4/2002	ug/kg	Thiodiglycol	640	U	39,100	
				OU5-CSA-5-L2-SB(3-4)	1/4/2002	mg/kg	Cyanide, Total	0.223	U	160	
CSA	5		Friendship Park 45th Street, Lot 21								No
				OU5-CSA-5-L21-SB(3.5-4.5)	1/3/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L21-SB(3.5-4.5)	1/3/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L21-SB(3.5-4.5)	1/3/2002	ug/kg	1,4-Dithiane	112.5	U	78,000	
				OU5-CSA-5-L21-SB(3.5-4.5)	1/3/2002	ug/kg	1,4-Oxathiane	225	U	78,000	
				OU5-CSA-5-L21-SB(3.5-4.5)	1/3/2002	ug/kg	Thiodiglycol	560	U	39,100	
				OU5-CSA-5-L21-SB(3.5-4.5)	1/3/2002	mg/kg	Cyanide, Total	0.276	U	160	
CSA	5		Friendship Park 45th Street, Lot 25								No
				OU5-CSA-5-L25-SBA(1.5-2.5)	1/4/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L25-SBA(1.5-2.5)	1/4/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L25-SBA(1.5-2.5)	1/4/2002	ug/kg	1,4-Dithiane	117.8	U	78,000	
				OU5-CSA-5-L25-SBA(1.5-2.5)	1/4/2002	ug/kg	1,4-Oxathiane	235.6	U	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-5-L25-SBA(1.5-2.5)	1/4/2002	ug/kg	Thiodiglycol	590	U	39,100	
				OU5-CSA-5-L25-SBA(1.5-2.5)	1/4/2002	mg/kg	Cyanide, Total	0.188	U	160	
				OU5-CSA-5-L25-SBB(1.5-2.5)	1/4/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L25-SBB(1.5-2.5)	1/4/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L25-SBB(1.5-2.5)	1/4/2002	ug/kg	1,4-Dithiane	114.5	U	78,000	
				OU5-CSA-5-L25-SBB(1.5-2.5)	1/4/2002	ug/kg	1,4-Oxathiane	229.1	U	78,000	
				OU5-CSA-5-L25-SBB(1.5-2.5)	1/4/2002	ug/kg	Thiodiglycol	570	U	39,100	
				OU5-CSA-5-L25-SBB(1.5-2.5)	1/4/2002	mg/kg	Cyanide, Total	0.171	U	160	
				OU5-CSA-5-L25-SBC(2-3)	1/4/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L25-SBC(2-3)	1/4/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L25-SBC(2-3)	1/4/2002	ug/kg	1,4-Dithiane	116.7	U	78,000	
				OU5-CSA-5-L25-SBC(2-3)	1/4/2002	ug/kg	1,4-Oxathiane	233.4	U	78,000	
				OU5-CSA-5-L25-SBC(2-3)	1/4/2002	ug/kg	Thiodiglycol	580	U	39,100	
				OU5-CSA-5-L25-SBC(2-3)	1/4/2002	mg/kg	Cyanide, Total	0.18	U	160	
CSA	***5***		***Friendship Park 45th Street, Lot 5***								***No***
				OU5-CSA-5-L5-SB(2-3)	1/4/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L5-SB(2-3)	1/4/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L5-SB(2-3)	1/4/2002	ug/kg	1,4-Dithiane	122.5	U	78,000	
				OU5-CSA-5-L5-SB(2-3)	1/4/2002	ug/kg	1,4-Oxathiane	245.1	U	78,000	
				OU5-CSA-5-L5-SB(2-3)	1/4/2002	ug/kg	Thiodiglycol	610	U	39,100	
				OU5-CSA-5-L5-SB(2-3)	1/4/2002	mg/kg	Cyanide, Total	0.195	U	160	
CSA	***5***		***Van Ness Reservoir 45th Street, Lot 15***								***No***
				OU5-CSA-5-L15-SB(2-3)	8/16/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-5-L15-SB(2-3)	8/16/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-5-L15-SB(2-3)	8/16/2001	ug/kg	1,4-Dithiane	112	U	78,000	
				OU5-CSA-5-L15-SB(2-3)	8/16/2001	ug/kg	1,4-Oxathiane	224	U	78,000	
				OU5-CSA-5-L15-SB(2-3)	8/16/2001	ug/kg	Thiodiglycol	561	U	39,100	
				OU5-CSA-5-L15-SB(2-3)	8/16/2001	mg/kg	Cyanide, Total	0.18	U	160	
CSA	***13***		***Wash. Aqueduct , Lot 15***								***Yes***
				OU5-CSA-13-L15-SB(3-4)	2/13/2002	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-13-L15-SB(3-4)	2/13/2002	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-13-L15-SB(3-4)	2/13/2002	ug/kg	1,4-Dithiane	130	U	78,000	
				OU5-CSA-13-L15-SB(3-4)	2/13/2002	ug/kg	1,4-Oxathiane	260	U	78,000	
				OU5-CSA-13-L15-SB(3-4)	2/13/2002	ug/kg	Thiodiglycol	650	U	39,100	
				OU5-CSA-13-L15-SB(3-4)	2/13/2002	mg/kg	Cyanide, Total	0.2	U	160	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?
CSA	13		Wash. Aqueduct , Lot 39							No
				OU5-CSA-13-L39-SB(3.5-4.5)	8/9/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-13-L39-SB(3.5-4.5)	8/9/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-13-L39-SB(3.5-4.5)	8/9/2001	ug/kg	1,4-Dithiane	108 U	78,000	
				OU5-CSA-13-L39-SB(3.5-4.5)	8/9/2001	ug/kg	1,4-Oxathiane	217 U	78,000	
				OU5-CSA-13-L39-SB(3.5-4.5)	8/9/2001	ug/kg	Thiodiglycol	542 U	39,100	
				OU5-CSA-13-L39-SB(3.5-4.5)	8/9/2001	mg/kg	Cyanide, Total	0.18 U	160	
CSA	13		Wash. Aqueduct , Lot 41							No
				OU5-CSA-13-L41-SB(4-5)	8/2/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-13-L41-SB(4-5)	8/2/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-13-L41-SB(4-5)	8/2/2001	ug/kg	1,4-Dithiane	113 U	78,000	
				OU5-CSA-13-L41-SB(4-5)	8/2/2001	ug/kg	1,4-Oxathiane	227 U	78,000	
				OU5-CSA-13-L41-SB(4-5)	8/2/2001	ug/kg	Thiodiglycol	567 U	39,100	
				OU5-CSA-13-L41-SB(4-5)	8/2/2001	mg/kg	Cyanide, Total	0.18 U	160	
CSA	13		Wash. Aqueduct , Lot 44							No
				OU5-CSA-13-L44-SB(4-5)	8/9/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-13-L44-SB(4-5)	8/9/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-13-L44-SB(4-5)	8/9/2001	ug/kg	1,4-Dithiane	109 U	78,000	
				OU5-CSA-13-L44-SB(4-5)	8/9/2001	ug/kg	1,4-Oxathiane	218 U	78,000	
				OU5-CSA-13-L44-SB(4-5)	8/9/2001	ug/kg	Thiodiglycol	546 U	39,100	
				OU5-CSA-13-L44-SB(4-5)	8/9/2001	mg/kg	Cyanide, Total	0.15 U	160	
CSA	13		Wash. Aqueduct , Lot 46							No
				OU5-CSA-13-L46-SB(2.5-3.5)	8/2/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-13-L46-SB(2.5-3.5)	8/2/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-13-L46-SB(2.5-3.5)	8/2/2001	ug/kg	1,4-Dithiane	116 U	78,000	
				OU5-CSA-13-L46-SB(2.5-3.5)	8/2/2001	ug/kg	1,4-Oxathiane	231 U	78,000	
				OU5-CSA-13-L46-SB(2.5-3.5)	8/2/2001	ug/kg	Thiodiglycol	578 U	39,100	
				OU5-CSA-13-L46-SB(2.5-3.5)	8/2/2001	mg/kg	Cyanide, Total	0.18 U	160	
				OU5-CSA-13-L46-SB-DUP05	8/2/2001	ug/kg	1,4-Dithiane	135 U	78,000	
				OU5-CSA-13-L46-SB-DUP05	8/2/2001	ug/kg	1,4-Oxathiane	271 U	78,000	
				OU5-CSA-13-L46-SB-DUP05	8/2/2001	ug/kg	Thiodiglycol	677 U	39,100	
CSA	13		Wash. Aqueduct , Lot 47							No
				OU5-CSA-13-L47-SB(4-5)	8/2/2001	ug/kg	CVAA/CVAO	40 U	890	
				OU5-CSA-13-L47-SB(4-5)	8/2/2001	ug/kg	Sulfur Mustard	40 U	10	
				OU5-CSA-13-L47-SB(4-5)	8/2/2001	ug/kg	1,4-Dithiane	127 UL	78,000	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1		Standard \3	Specialty boring associated with grid results?
				OU5-CSA-13-L47-SB(4-5)	8/2/2001	ug/kg	1,4-Oxathiane	254	UL	78,000	
				OU5-CSA-13-L47-SB(4-5)	8/2/2001	ug/kg	Thiodiglycol	634	U	39,100	
				OU5-CSA-13-L47-SB(4-5)	8/2/2001	mg/kg	Cyanide, Total	0.21	U	160	
				OU5-CSA-13-L47-SB-DUP04	8/2/2001	ug/kg	CVAA/CVAO	40	U	890	
CSA	13		Wash. Aqueduct , Lot 5								No
				OU5-CSA-13-L5-SB(2-3)	8/16/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-13-L5-SB(2-3)	8/16/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-13-L5-SB(2-3)	8/16/2001	ug/kg	1,4-Dithiane	113	U	78,000	
				OU5-CSA-13-L5-SB(2-3)	8/16/2001	ug/kg	1,4-Oxathiane	226	U	78,000	
				OU5-CSA-13-L5-SB(2-3)	8/16/2001	ug/kg	Thiodiglycol	566	U	39,100	
				OU5-CSA-13-L5-SB(2-3)	8/16/2001	mg/kg	Cyanide, Total	0.17	U	160	
CSA	13		Wash. Aqueduct , Lot 51								No
				OU5-CSA-13-L51-SB(5-6)	8/2/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-13-L51-SB(5-6)	8/2/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-13-L51-SB(5-6)	8/2/2001	ug/kg	1,4-Dithiane	123	U	78,000	
				OU5-CSA-13-L51-SB(5-6)	8/2/2001	ug/kg	1,4-Oxathiane	246	U	78,000	
				OU5-CSA-13-L51-SB(5-6)	8/2/2001	ug/kg	Thiodiglycol	614	U	39,100	
				OU5-CSA-13-L51-SB(5-6)	8/2/2001	mg/kg	Cyanide, Total	0.21	U	160	
				OU5-CSA-13-L51-SB-DUP05	8/2/2001	ug/kg	Sulfur Mustard	40	U	10	
CSA	13		Wash. Aqueduct , Lot 71								No
				OU5-CSA-13-L71-SB(9-10)	8/9/2001	ug/kg	CVAA/CVAO	40	U	890	
				OU5-CSA-13-L71-SB(9-10)	8/9/2001	ug/kg	Sulfur Mustard	40	U	10	
				OU5-CSA-13-L71-SB(9-10)	8/9/2001	ug/kg	1,4-Dithiane	109	U	78,000	
				OU5-CSA-13-L71-SB(9-10)	8/9/2001	ug/kg	1,4-Oxathiane	218	U	78,000	
				OU5-CSA-13-L71-SB(9-10)	8/9/2001	ug/kg	Thiodiglycol	546	U	39,100	
				OU5-CSA-13-L71-SB(9-10)	8/9/2001	mg/kg	Cyanide, Total	0.17	U	160	
				OU5-CSA-13-L71-SB-DUP06	8/9/2001	ug/kg	1,4-Dithiane	110	U	78,000	
				OU5-CSA-13-L71-SB-DUP06	8/9/2001	ug/kg	1,4-Oxathiane	219	U	78,000	
				OU5-CSA-13-L71-SB-DUP06	8/9/2001	ug/kg	Thiodiglycol	548	U	39,100	

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?

\1 Data Validation Qualifiers

Data validation was conducted in accordance with EPA Region III modifications to the EPA's National Functional Guidelines for data validation. Per these guidelines, data with any of the following qualifiers is still considered usable for most decision-making purposes, including risk assessment.

U The compound was analyzed for and is not present. The associated numerical value (Practical Quantitation Limit - PQL) indicates the approximate concentration necessary to quantify the compound in the sample. In other words, the chemical level in the sample is below the level shown, which is the minimum the testing technique could have detected in the sample.

J The compound was detected in the sample, but the reported result is "estimated" (could not be accurately quantified) either because the reported value is less than the PQL or at least one minor Quality Control (QC) problem was found during validation. Data with a "J" qualifier is considered usable for most decision-making purposes, including risk assessment. Therefore, one should not be concerned about the "estimated" or "J" flag assigned to the sample result. The "J" qualifier may be combined with the "K" (high bias) or "L" (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined (with the "K" or "L" qualifier, the "J" qualifier indicates the reported value is less than the PQL.

UJ A combination of the "U" and "J" flags. The compound was analyzed for but was not detected. The PQL limit has been qualified as estimated due to a QC anomaly.

D The analyte was detected in the sample. The result is reported from the diluted sample run. The original analysis of the sample required a dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered "estimated" and usable for most decision-making purposes, including risk assessment.

DJ The J flag attached to the D indicates the result is either less than the PQL or at least one minor quality control problem was found during validation. The reported result should be considered "estimated" and usable for most decision-making purposes, including risk assessment.

K The analyte was detected in the sample. The reported result is considered estimated and may be biased high due to a minor QA/QC problem. The true concentration of arsenic present in the sample may be lower than the reported result. The data is considered "estimated" and usable for most decision-making purposes, including risk assessment.

L The analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of arsenic present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

UL A combination of the "U" and "L" flags. The compound was analyzed for but was not detected. The PQL has been qualified as estimated (biased low) due to a QC anomaly.

B This flag indicates the reported result is greater than the method detection level (MDL) but less than 5 times (5X) the amount found in an associated field or laboratory blank. The reported result should be considered "estimated" and may be biased high due to the blank contamination. The true concentration of arsenic in the sample may be lower than the reported result. This qualifier may be combined with the "J" qualifier to indicate the reported value is less than the PQL.

\2 For this sample please refer to validation report No. 11 for detailed explanation of any data qualifier.

Area	Group	POI	Address	Sample ID	Sample Date	Units	Parameter	Result \1	Standard \3	Specialty boring associated with grid results?

\3 Standard

The results for these chemicals are compared to a standard as an indication of unacceptable health risk. For most chemicals, the standard is the US Environmental Protection Agency's published Risk-Based Concentrations (RBCs). However, RBCs were specifically calculated for the 1995 Remedial Investigation for three compounds that did not have published EPA RBCs. Those are CVAA/CVAO, Thiodiglycol, and 1,4-Oxathiane. In accordance with standard practice, the RBC for those chemicals that are non-carcinogens is adjusted downward by a factor of 10 to account for the cumulative effect of several compounds possibly present in a sample. For Sulfur Mustard, the standard shown is the US Army Center for Health Promotion and Preventive Medicine (USACHPPM) Health-Based Environmental Screening Level (HBESL).

ARSENIC GRID SAMPLING RESULTS

ORGANIZATION PAGE

This section contains:

- Organization Page
- Site Grid Map (Overview)
- Site-specific Grid Maps
- Lot Key
- Data Tables

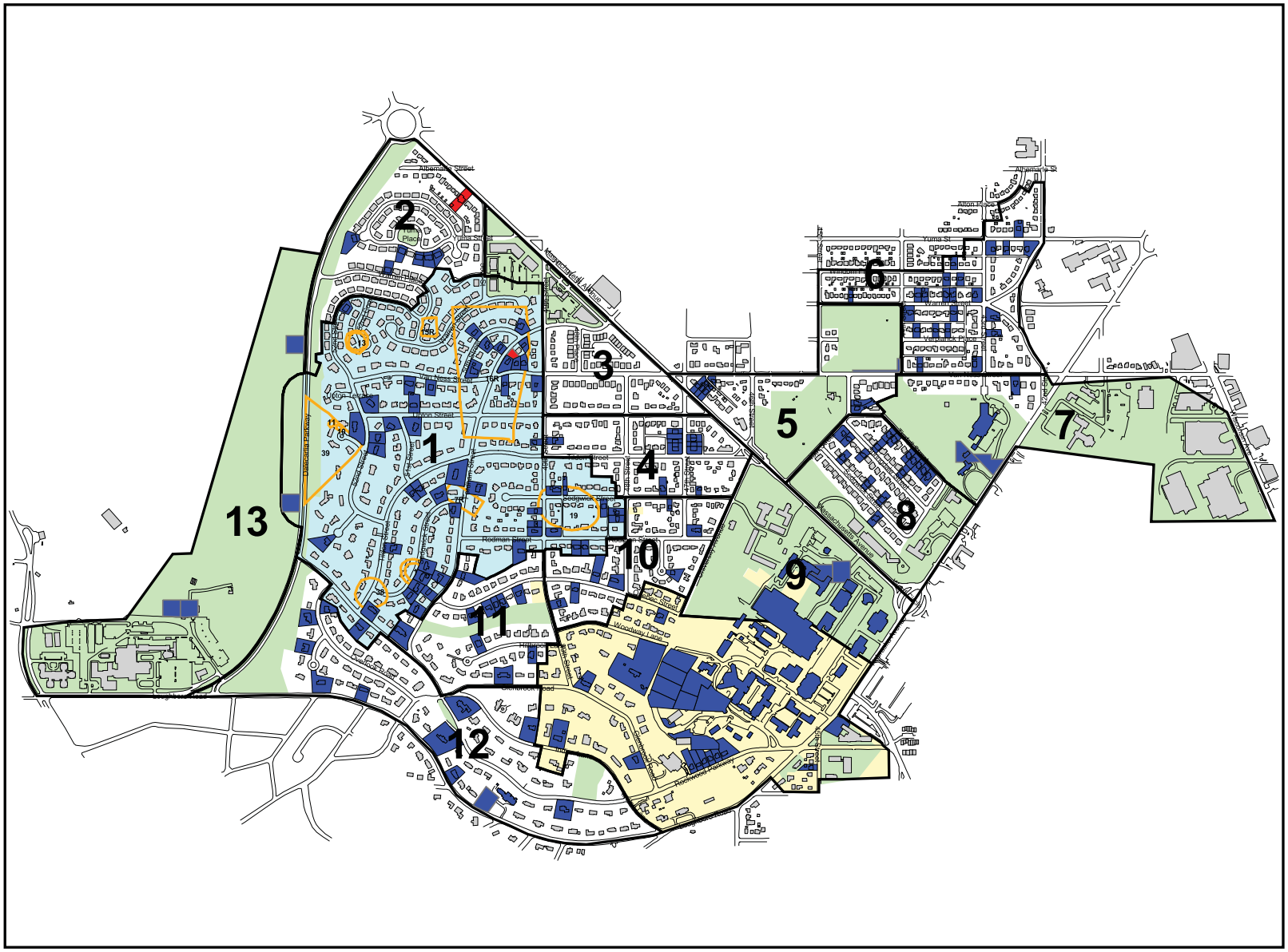
This section presents the validated results of the arsenic grid sampling for Operable Units 4 and 5. This includes all sites (residences and lots) sampled through September 30, 2003. Approximately 99% of all sites that exceeded the screening criteria had been sampled through that date.

The Site Grid Map (Overview) on the next page allows for the general location of a site based on its street address, name, and grouping number. Site-specific maps are also included for each grid sampled site. The data tables are ordered numerically by house number. The sample name indicates the general location on the Site Grid map as well as individual grid locations on the site-specific map. For example:

OU5-CTA-1C-9999FR (40, 120) is a site within OU-5, Geographical Group 1C, house number 9999, Fordham Road. The actual sampled grid is located at x=40 and y=120 on the site-specific map.

For lots (undeveloped areas, parking lots, parks, etc.), a Lot Key is provided at the front of the data tables to locate the site.

The specific location of the sites within Spring Valley can also be found on the large fold out Overview Map located in the pouch at the back of the binder.



Site Grid Map (Overview)

173 Sites Gridded
(or to be Gridded)

(Validated and Preliminary Results through 9/30/03)

Spring Valley Operable Unit 4 & 5
Washington D.C.

Legend

- Grid Sampled Property
- Property to be Grid Sampled
- Groupings
- POIs
- Buildings
- Roads
- Non-Residential Acreage
- CTA
- Sampled Area (OU-4)

Notes:

OU-5 Acreage comprises groupings 1 through 13.

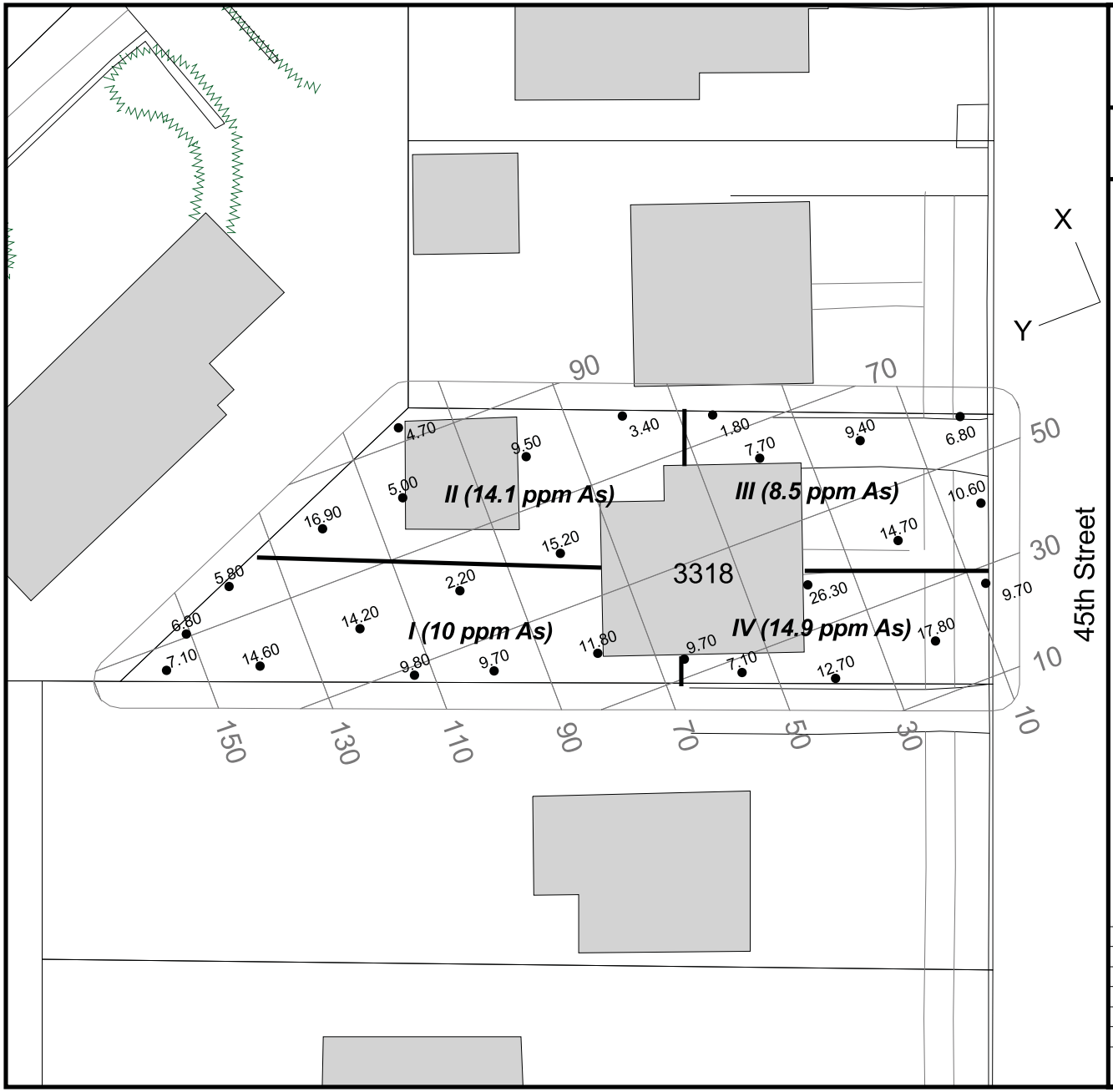
CSA is groupings 2 through 13.

A site needed to exceed 12.6 ppm arsenic in order to warrant grid sampling.

0 1000 Feet

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Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/01/2002
Figure Number:	X-X
Page Number:	X-X

PARSONS



Final Grid Sampling Results
3318 45th St (OU-4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

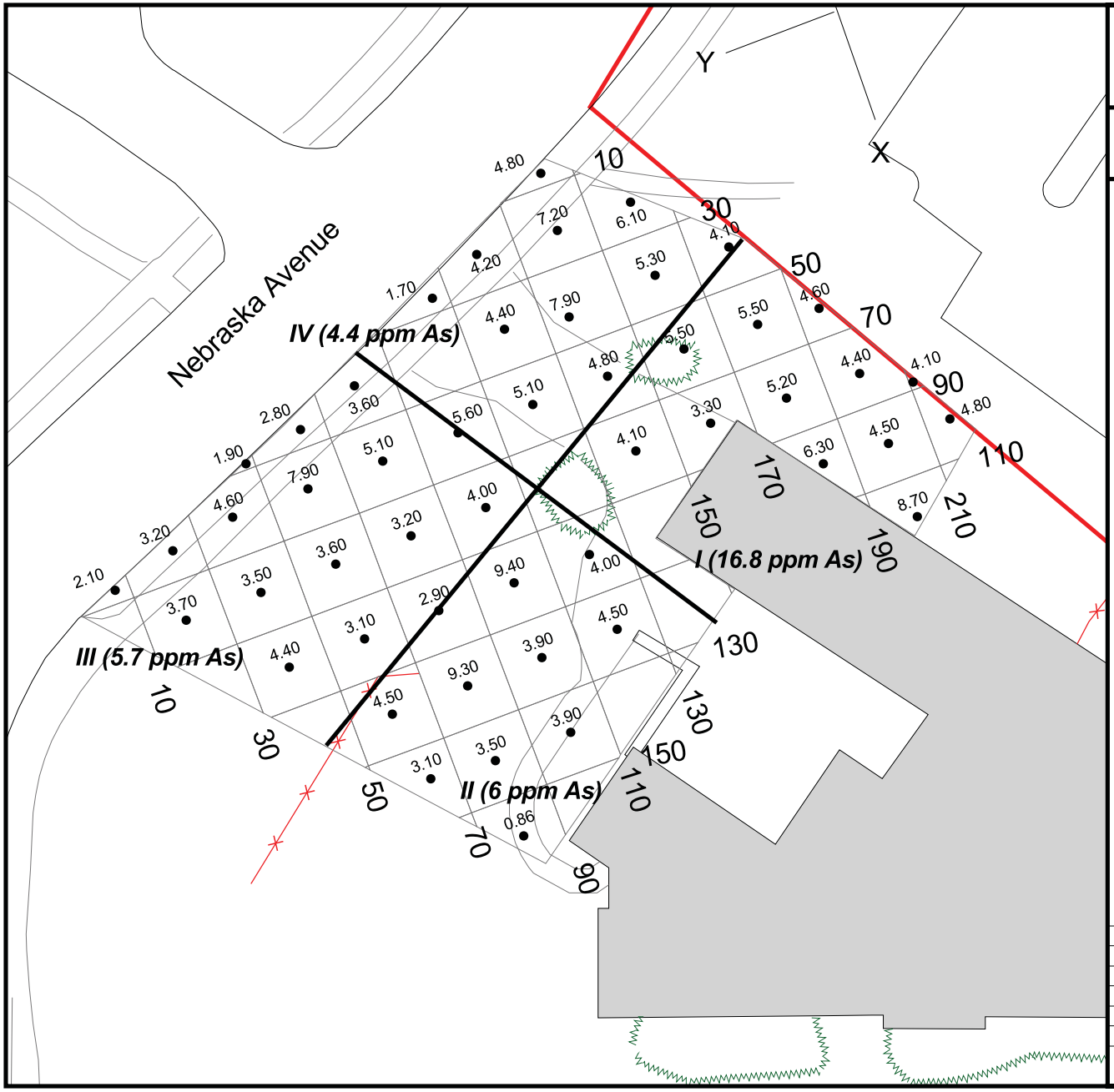
Half Sampled on 4/13/01
Grid Sampled on 9/5/02

30 0 30 Feet

1 inch = 30 feet

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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	02/05/2003
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3401 Nebraska Ave

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- SV Boundary

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 4/18/01
Grid Sampled on 9/13/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3514 Overlook Ln (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

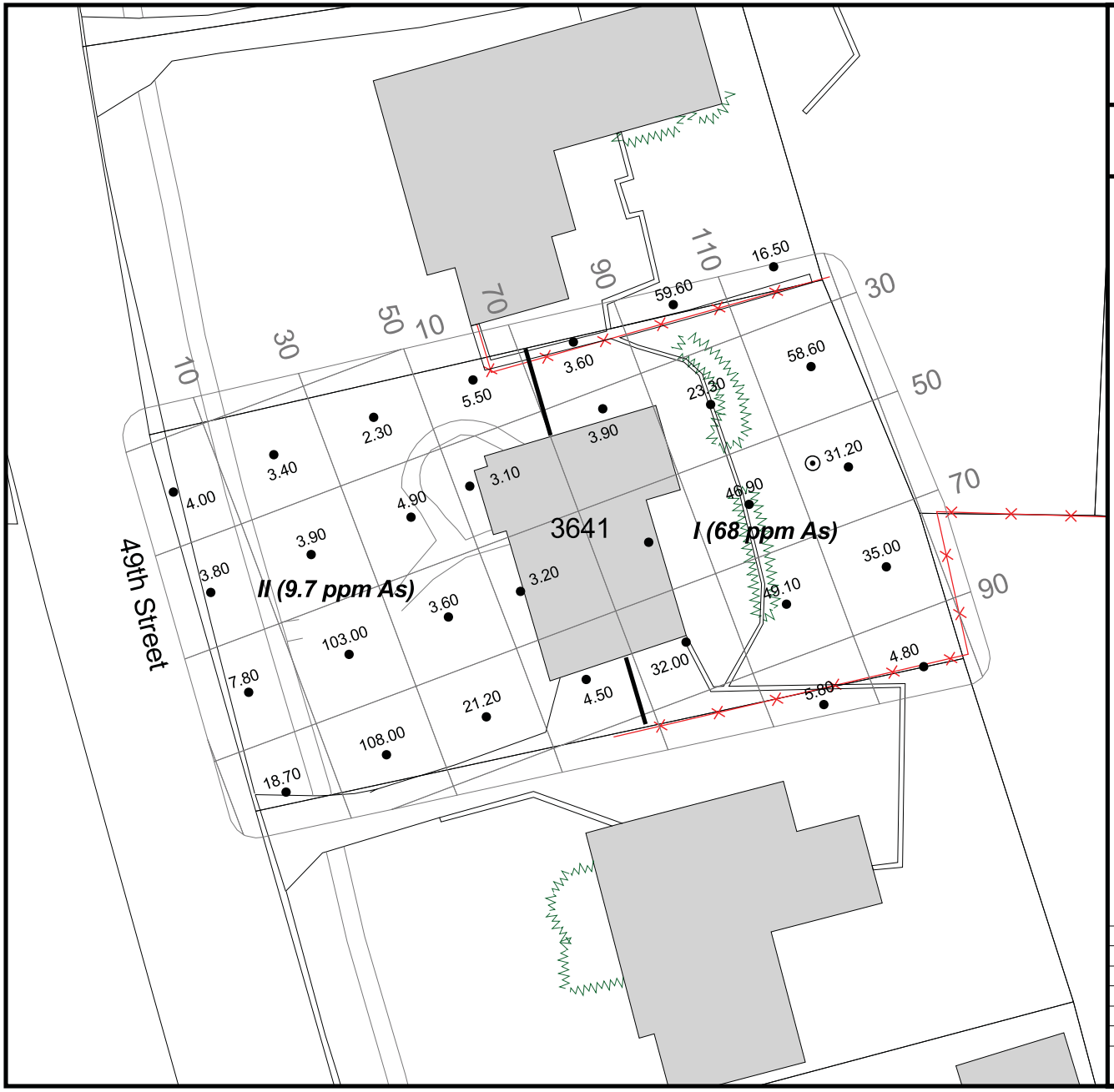
Half Sampled on 7/20/01
Grid Sampled on 1/14/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3641 49th St (CSA 10)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/23/01
Grid Sampled on 11/7/01

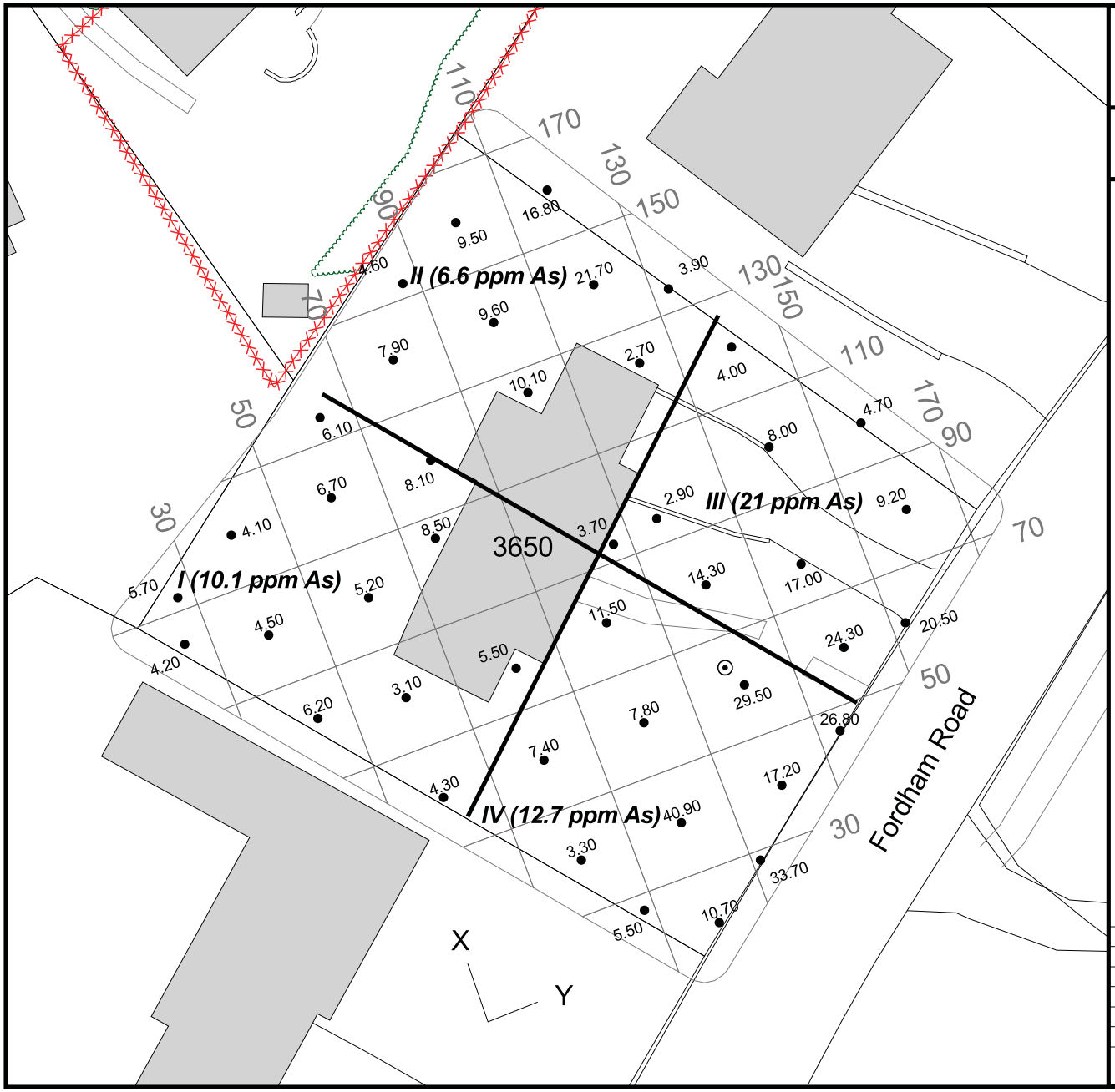
30 0 30 Feet

1 inch = 30 feet

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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
3650 Fordham Rd (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 6/6/01
Grid Sampled on 1/15/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3706 Fordham Rd (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

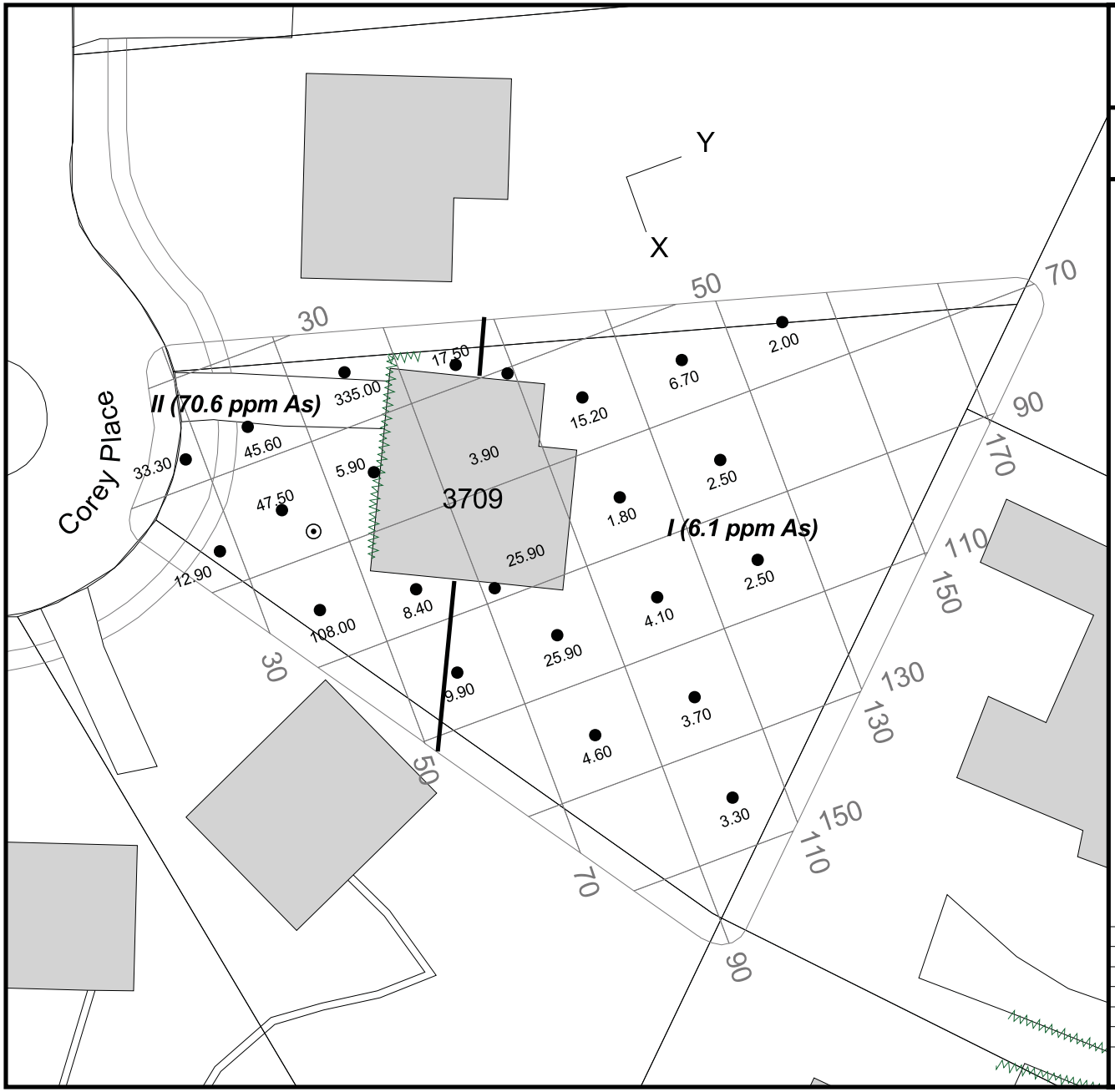
Quadrant Sampled on 6/6/01
Grid Sampled on 11/29/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3709 Corey Pl (CSA 10)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/13/01
Grid Sampled on 9/28/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3717 Fordham Rd (CSA 11)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

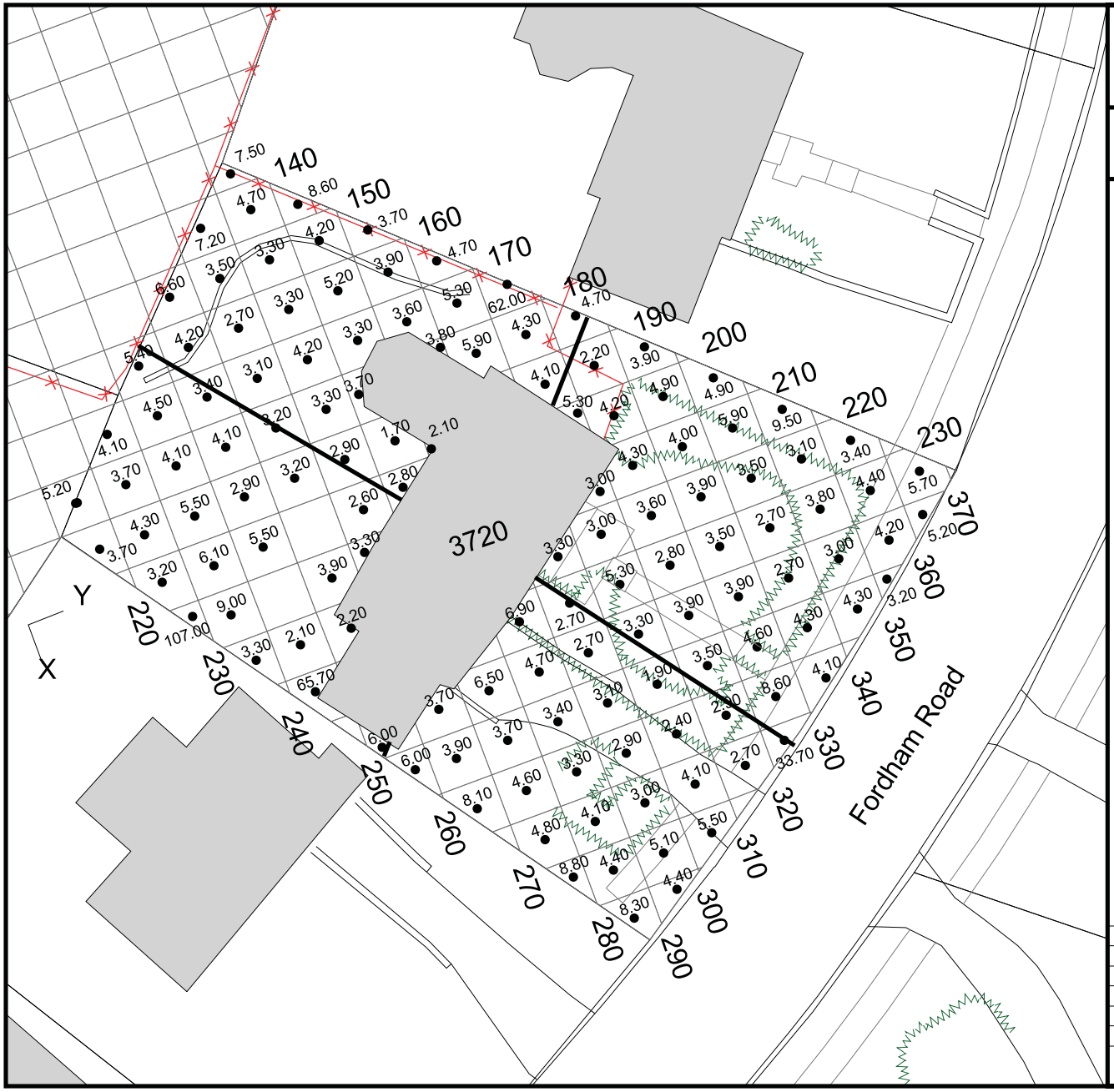
Half Sampled on 7/24/01
Grid Sampled on 1/14/02

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3720 Fordham Rd (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- Buildings
- 10' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 4/4/01
Grid Sampled on 2/26/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3800 52nd St (CTA 1B)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 9/18/01
Grid Sampled on 12/10/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3806 49th St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 6/27/01
Grid Sampled on 1/16/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3812 48th St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 8/1/01
Grid Sampled on 9/10/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3816 48th St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/11/01
Grid Sampled on 12/14/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3816 49th St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/19/01
Grid Sampled on 12/20/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3822 Fordham Rd (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

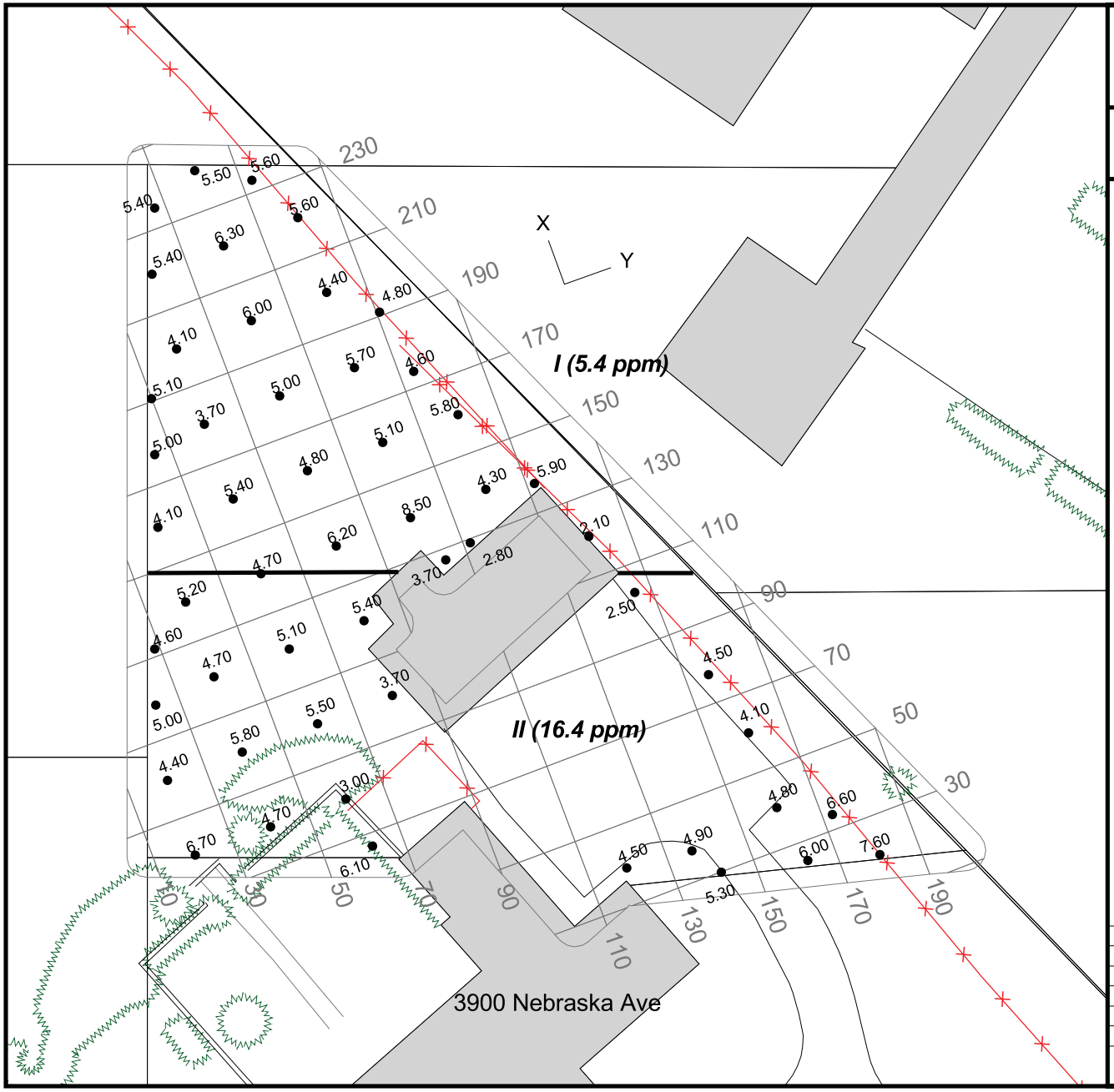
Quadrant Sampled on 8/21/01
Grid Sampled on 1/8/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU5-CSA-7-L16 (CSA 7)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Non-Residential Lots
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

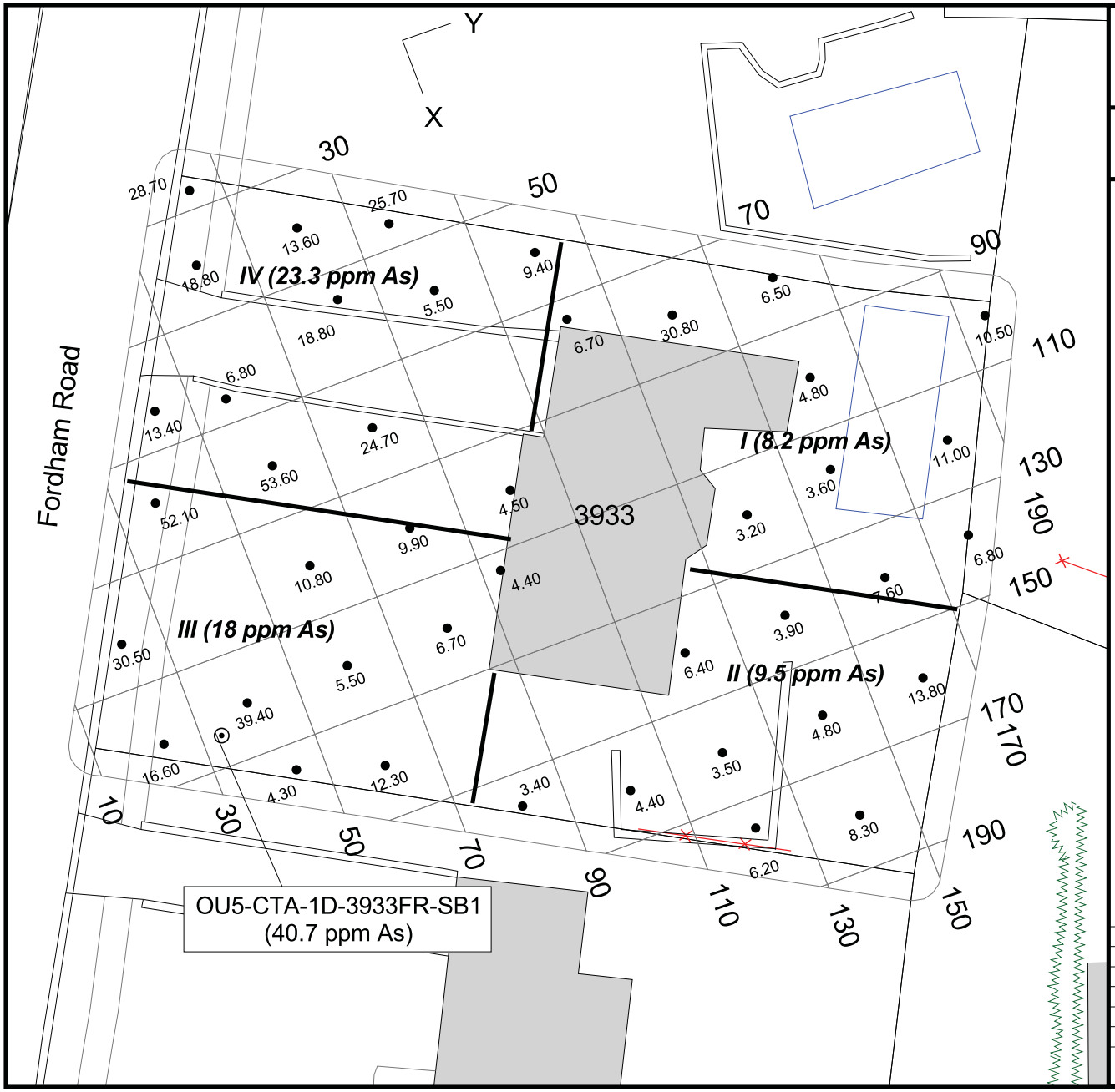
Half Sampled on 8/27/01
Grid Sampled on 2/8/02

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3933 Fordham Rd (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/5/01
Grid Sampled on 10/17/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
3940 Fordham Rd (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/24/01
Grid Sampled on 1/15/02

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4000 & 4004 47th St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

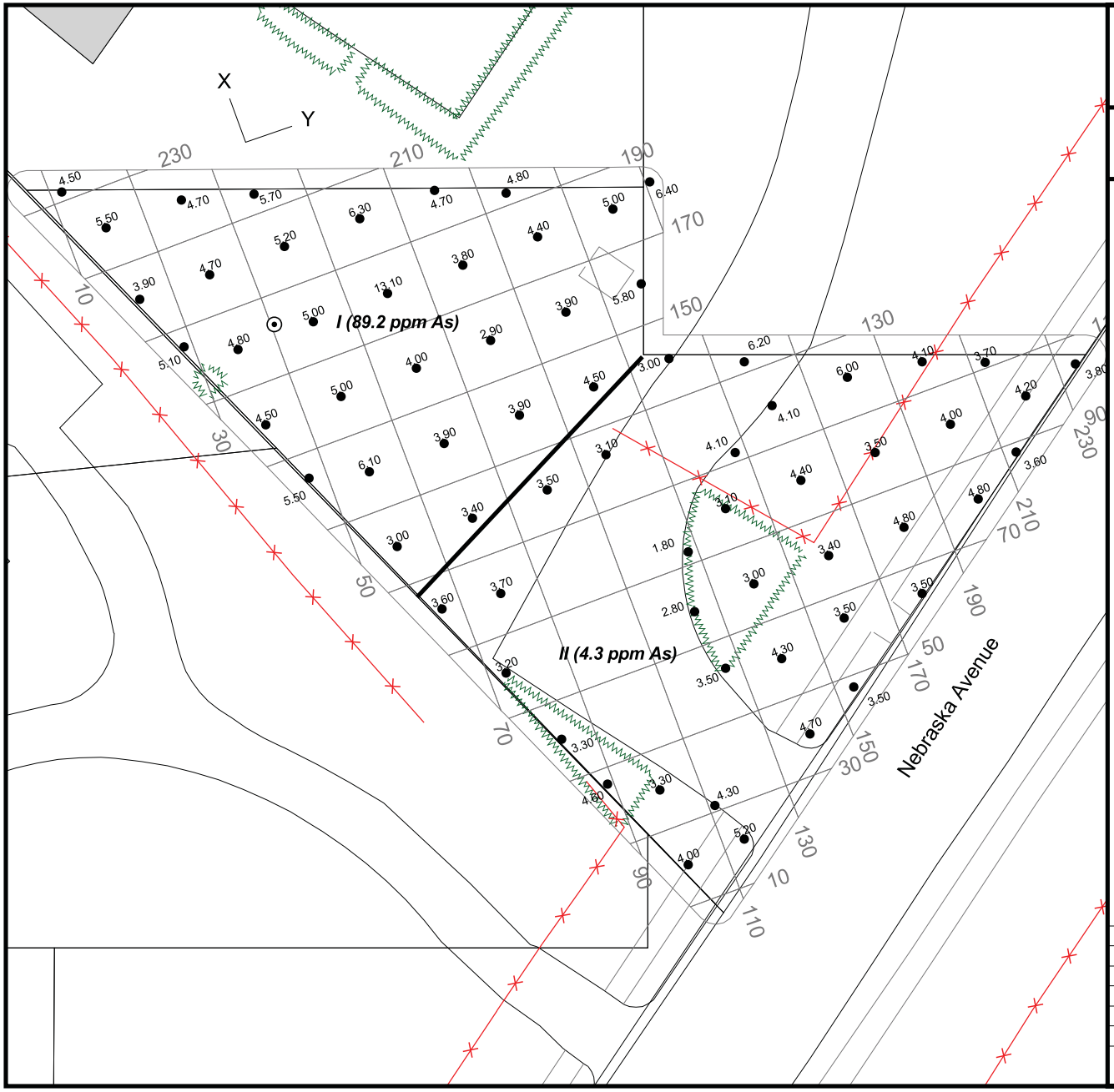
4000 47th St Half Sampled on 10/24/01
4004 47th St Half Sampled on 1/8/02
Grid Sampled on 2/4/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU5-CSA-7-L25 (CSA 7)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Non-Residential Lots
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

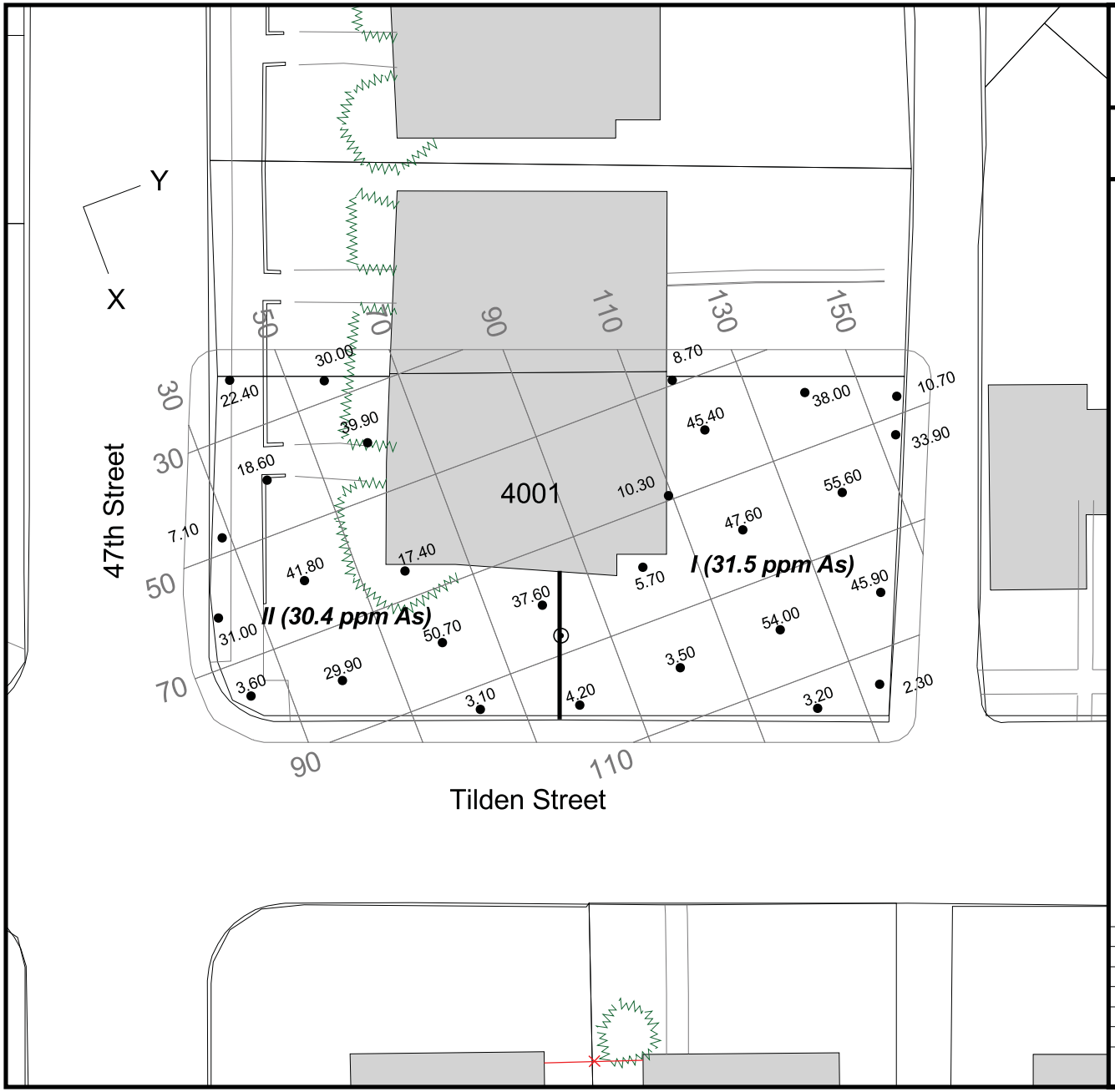
Half Sampled on 11/7/01
Grid Sampled on 2/15/02

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4001 47th St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

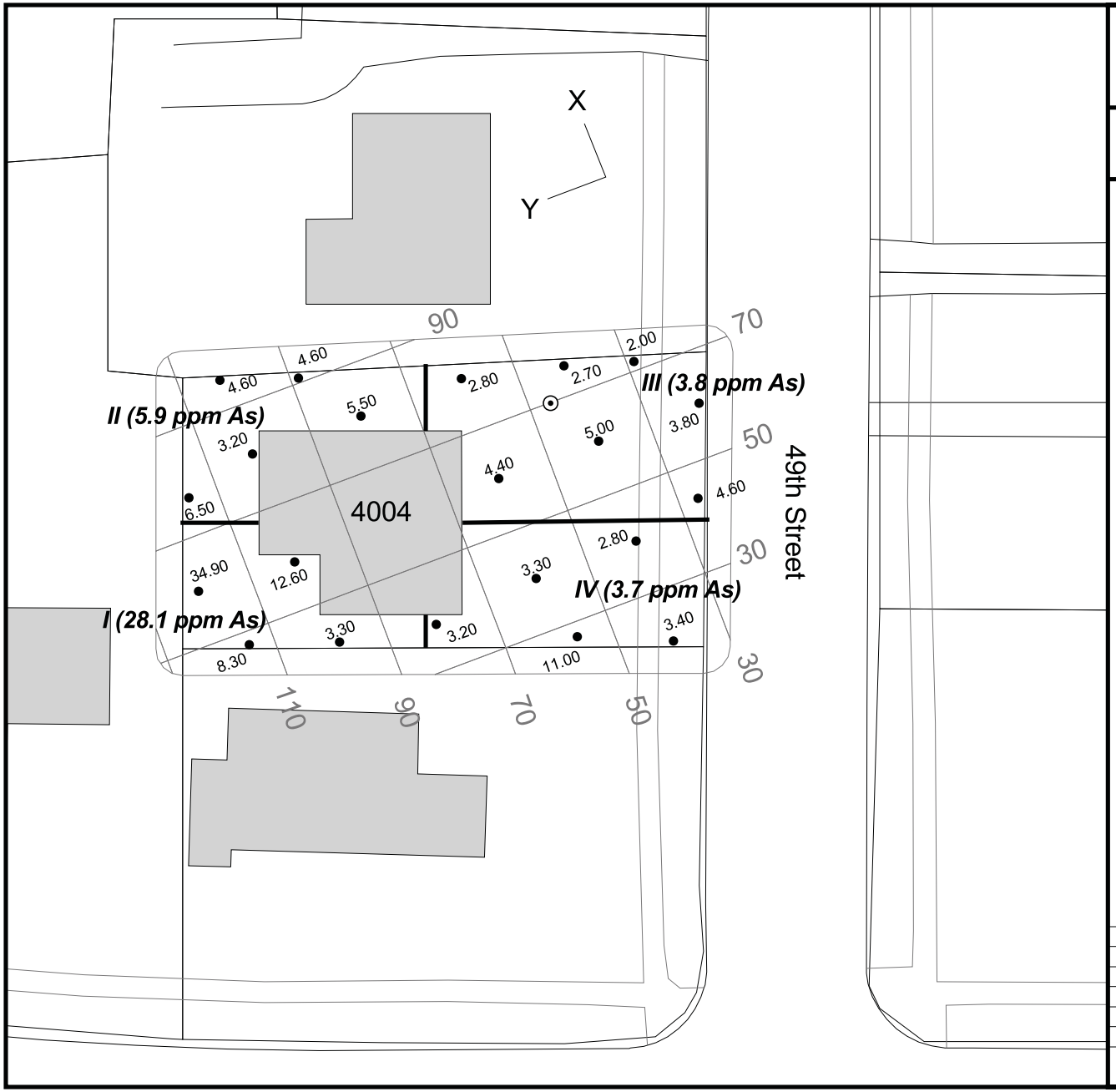
Half Sampled on 11/14/01
Grid Sampled on 2/5/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4004 49th St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

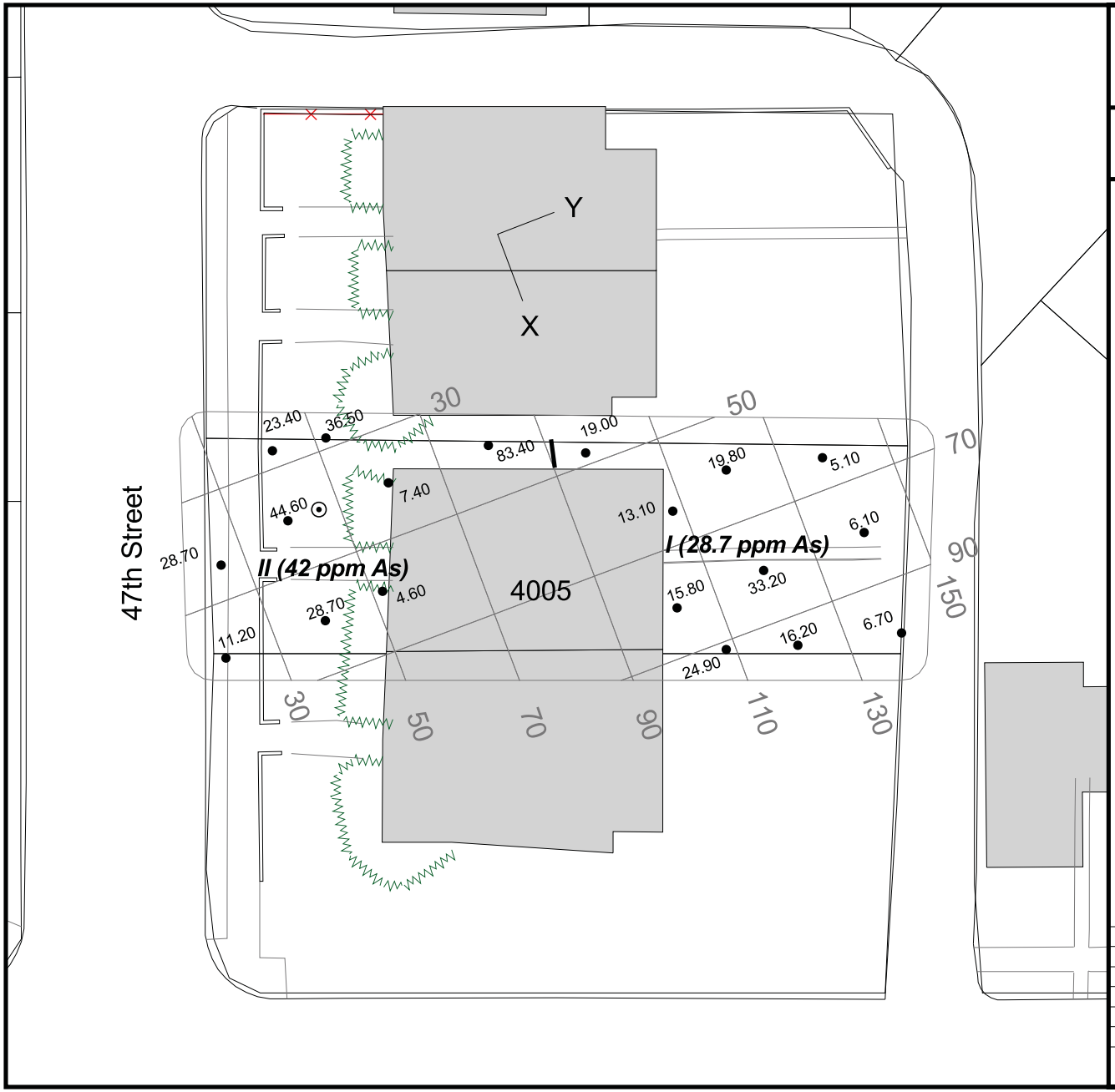
Quadrant Sampled on 9/5/01
Grid Sampled on 1/16/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4005 47th St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 10/24/01
Grid Sampled on 2/5/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
4005 52nd St (CTA 1B)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 6/11/01
Grid Sampled on 11/14/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4007 49th St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

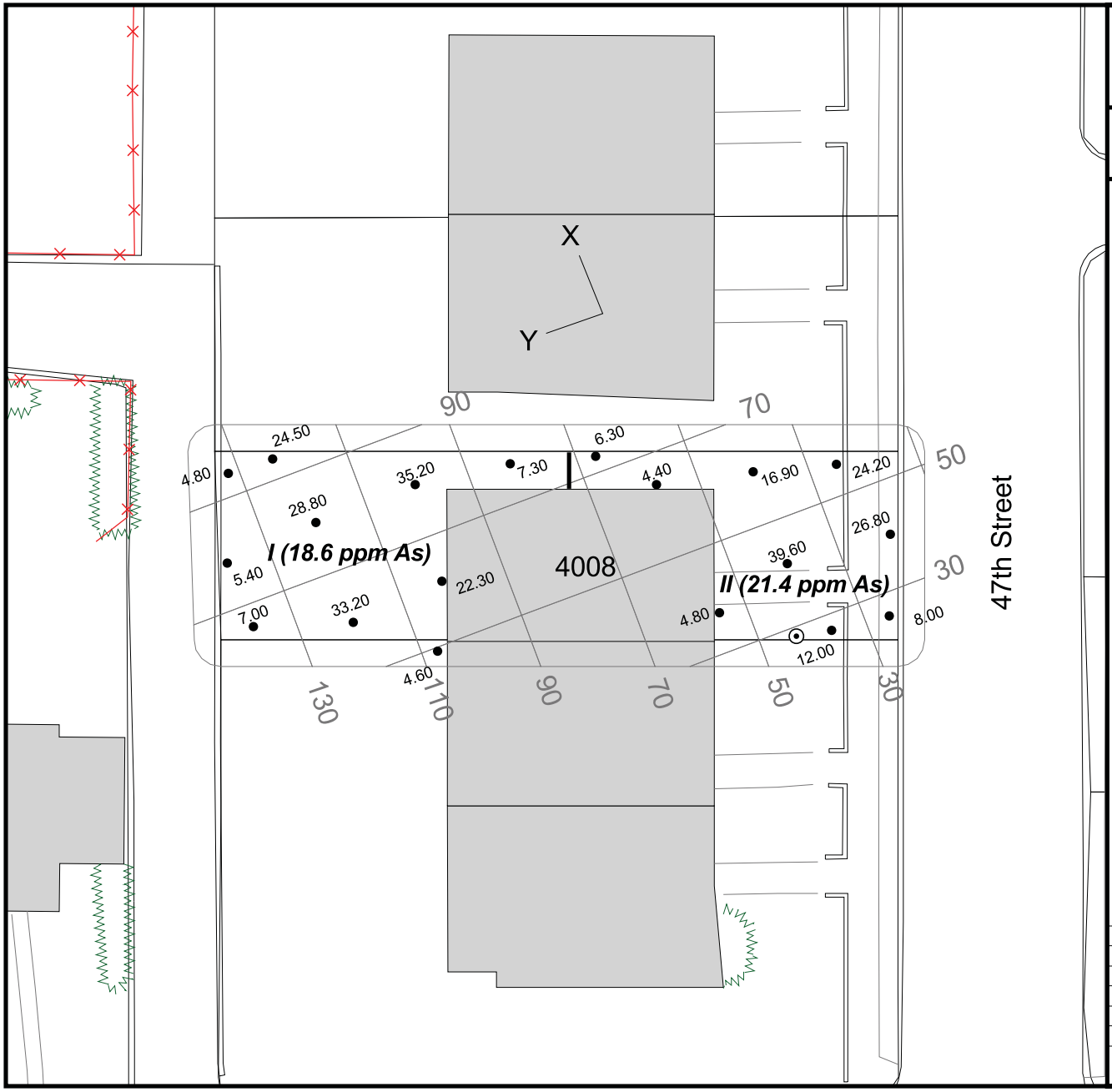
Half Sampled on 6/29/01
Grid Sampled on 9/26/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4008 47th St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

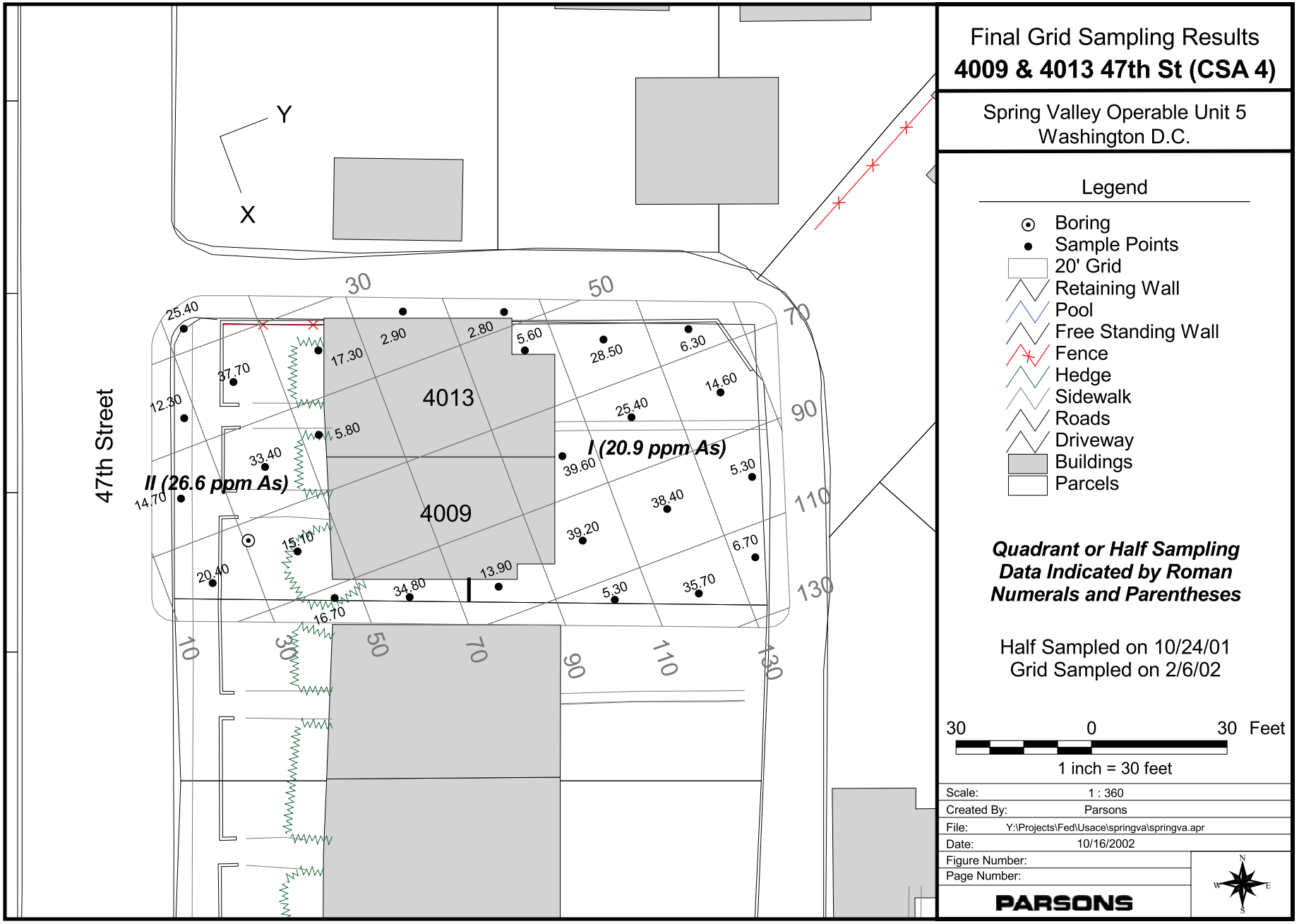
Half Sampled on 10/24/01
Grid Sampled on 2/7/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4009 & 4013 47th St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 10/24/01
Grid Sampled on 2/6/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4012 47th St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 10/24/01
Grid Sampled on 2/1/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4015 52nd St (CTA 1B)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

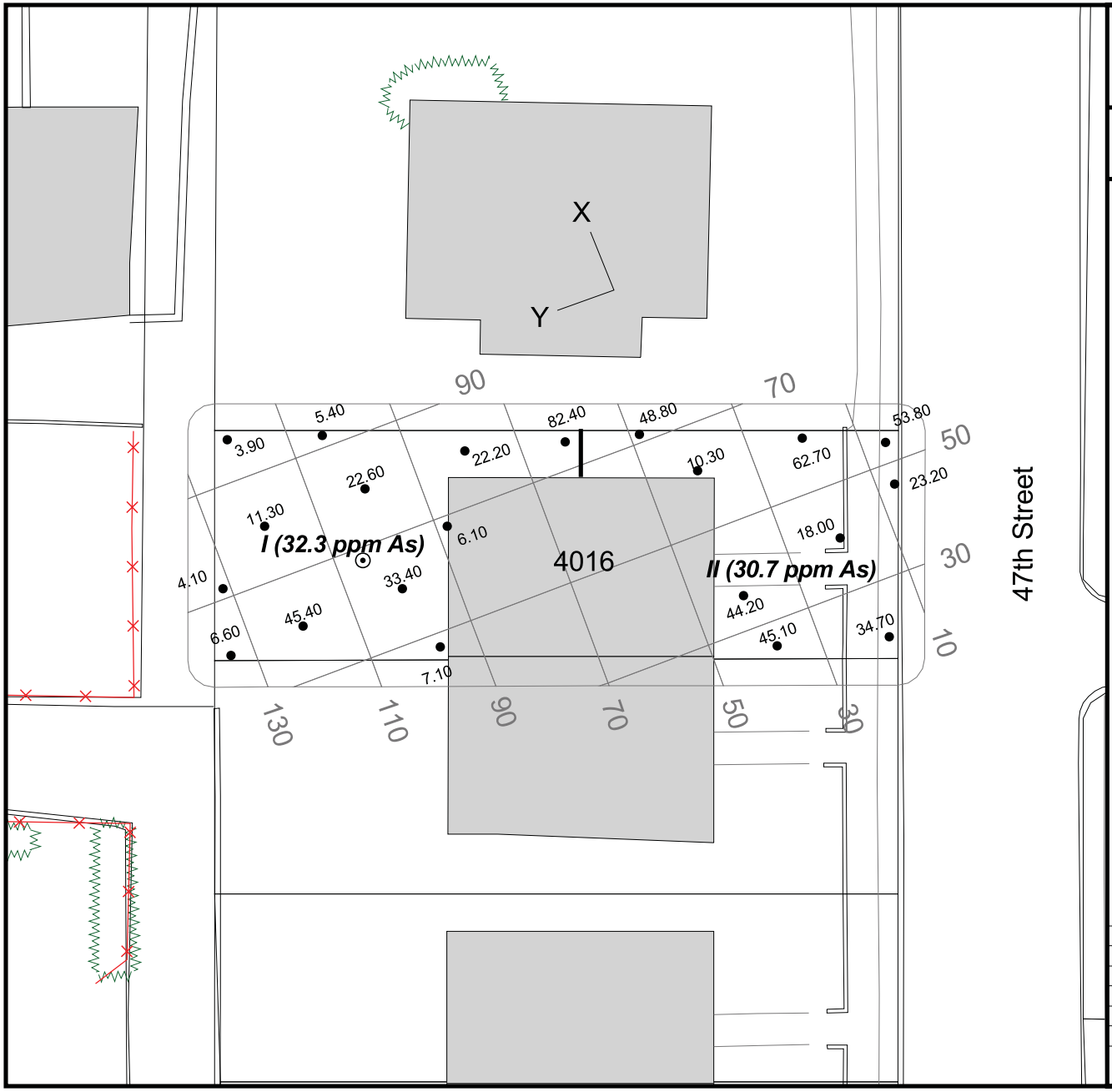
Quadrant Sampled on 6/8/01
Grid Sampled on 11/12/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4016 47th St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

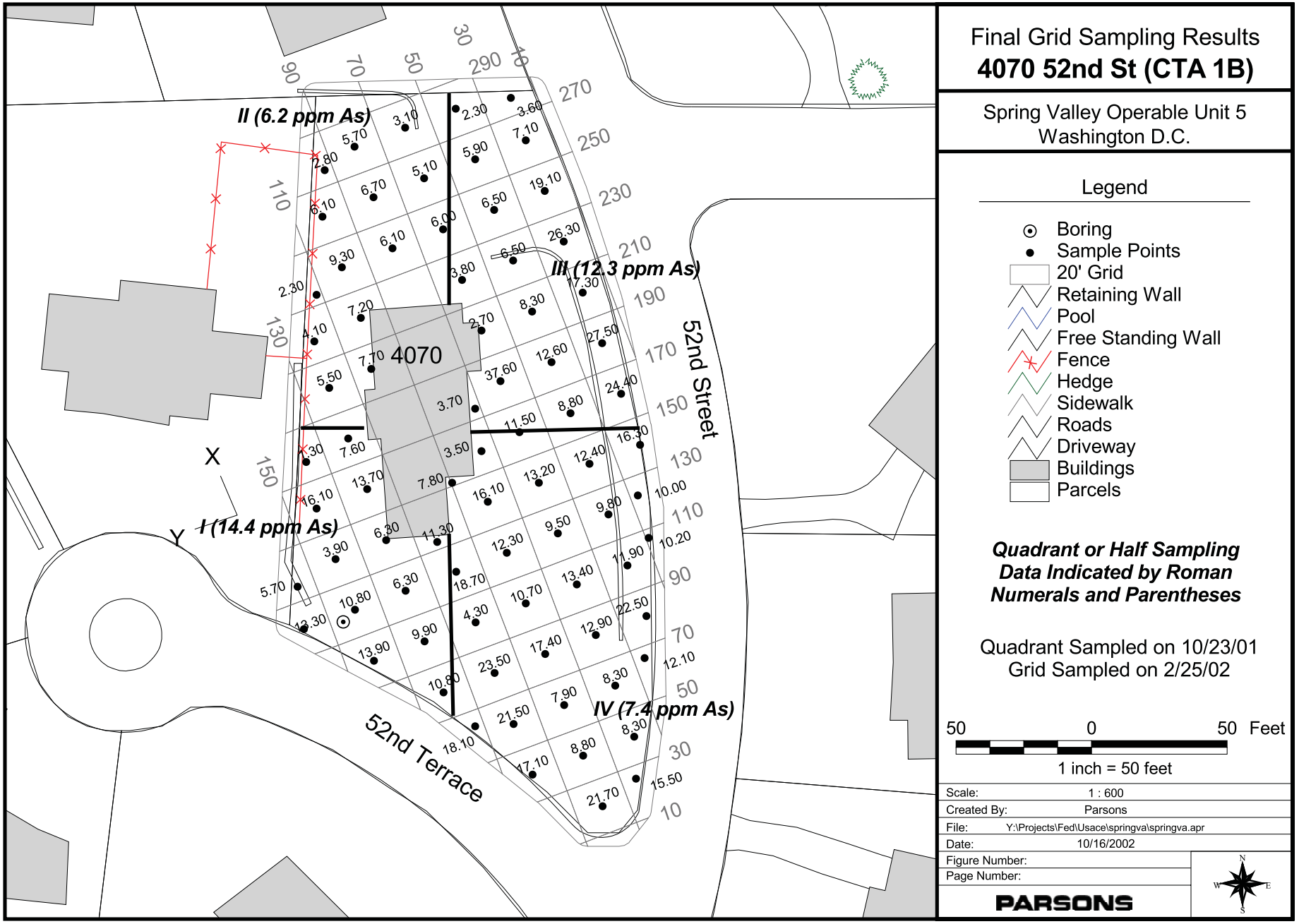
Half Sampled on 10/24/01
Grid Sampled on 2/1/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4070 52nd St (CTA 1B)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

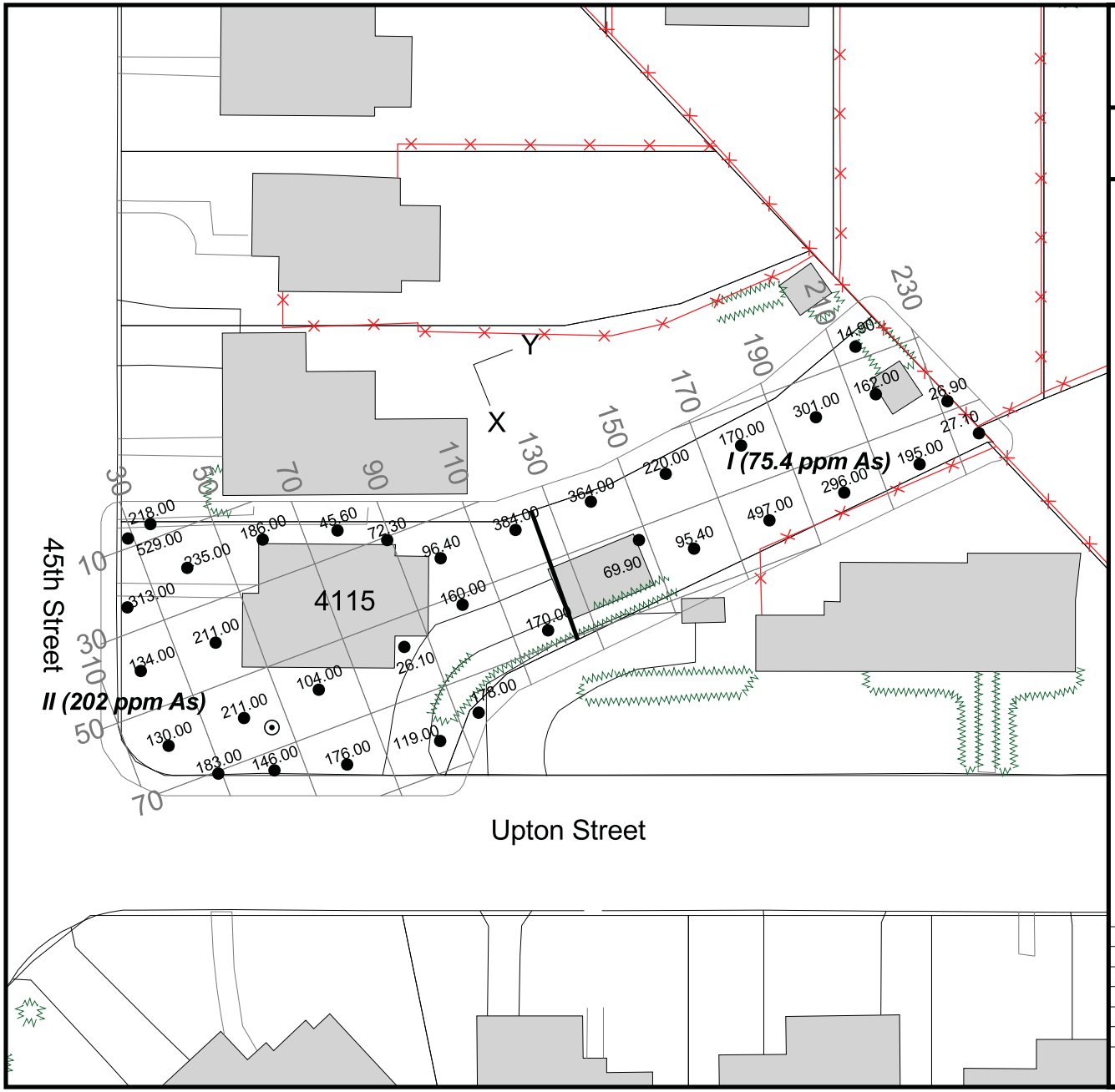
Quadrant Sampled on 10/23/01
Grid Sampled on 2/25/02

50 0 50 Feet

1 inch = 50 feet

Scale:	1 : 600
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4115 45th St (CSA 5)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 11/14/01
Grid Sampled on 12/12/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4118 49th St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

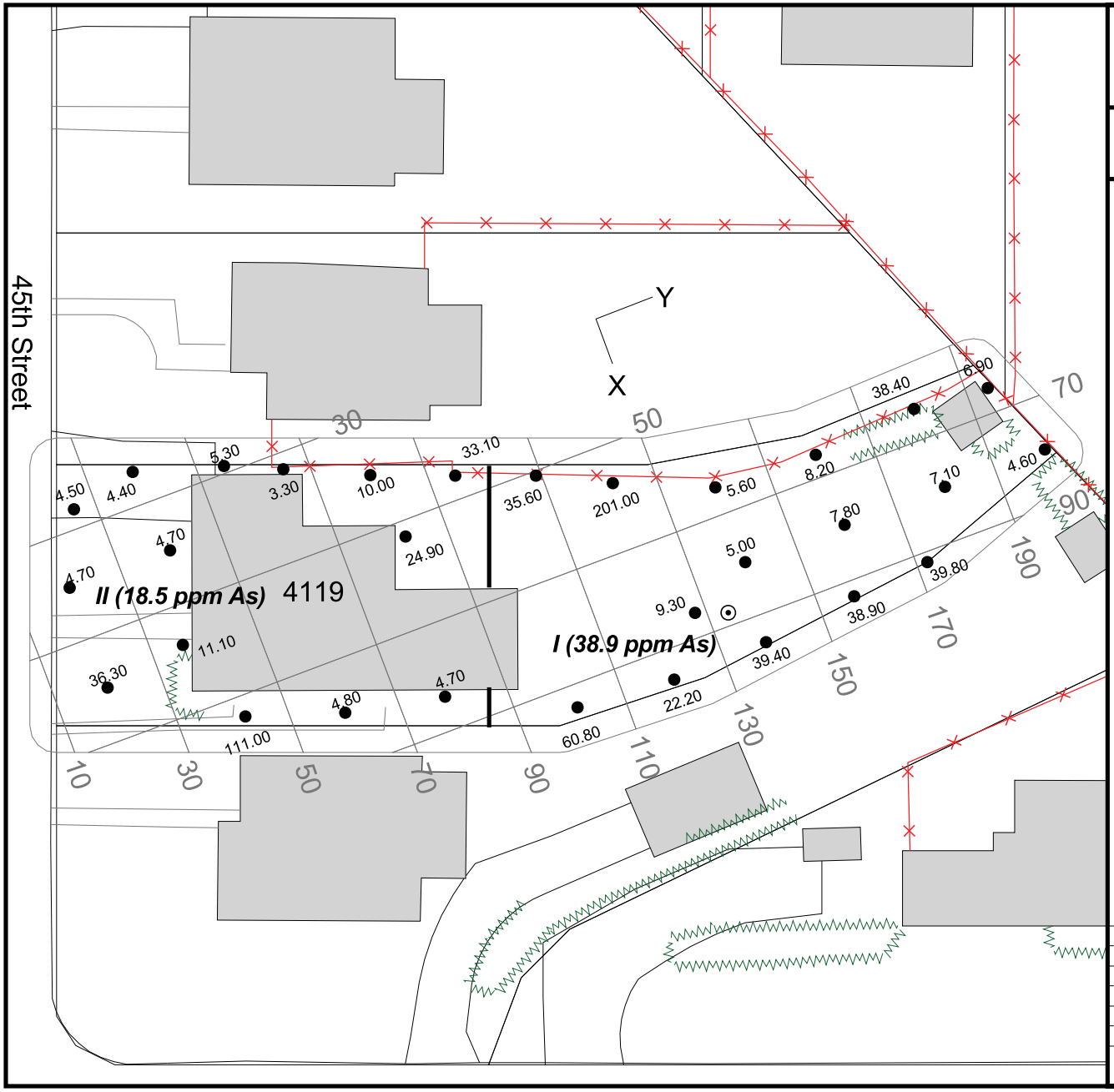
Quadrant Sampled on 8/28/01
Grid Sampled on 12/18/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4119 45th St (CSA 5)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

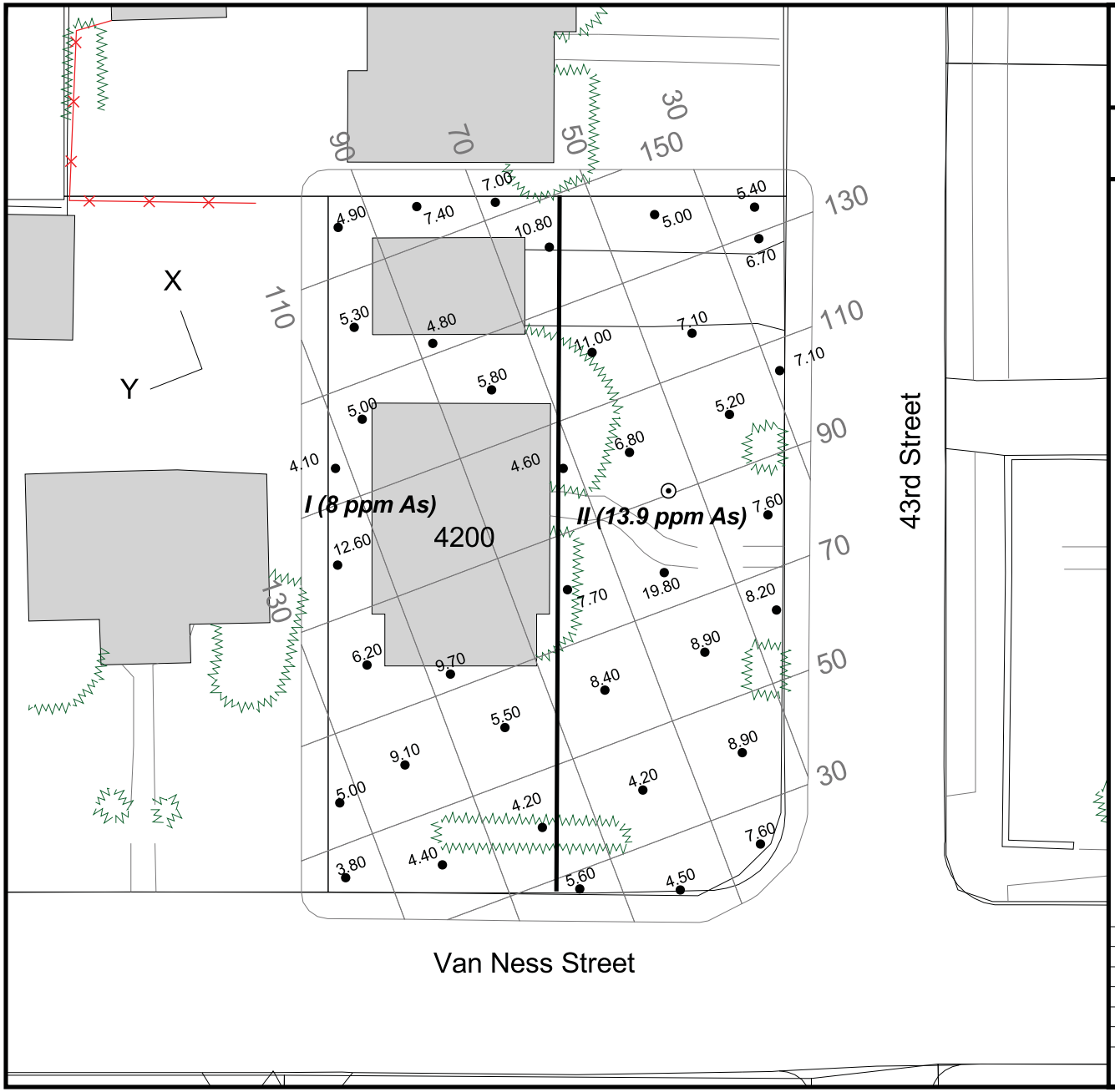
Half Sampled on 8/23/01
Grid Sampled on 1/11/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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Final Grid Sampling Results
4200 43rd St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

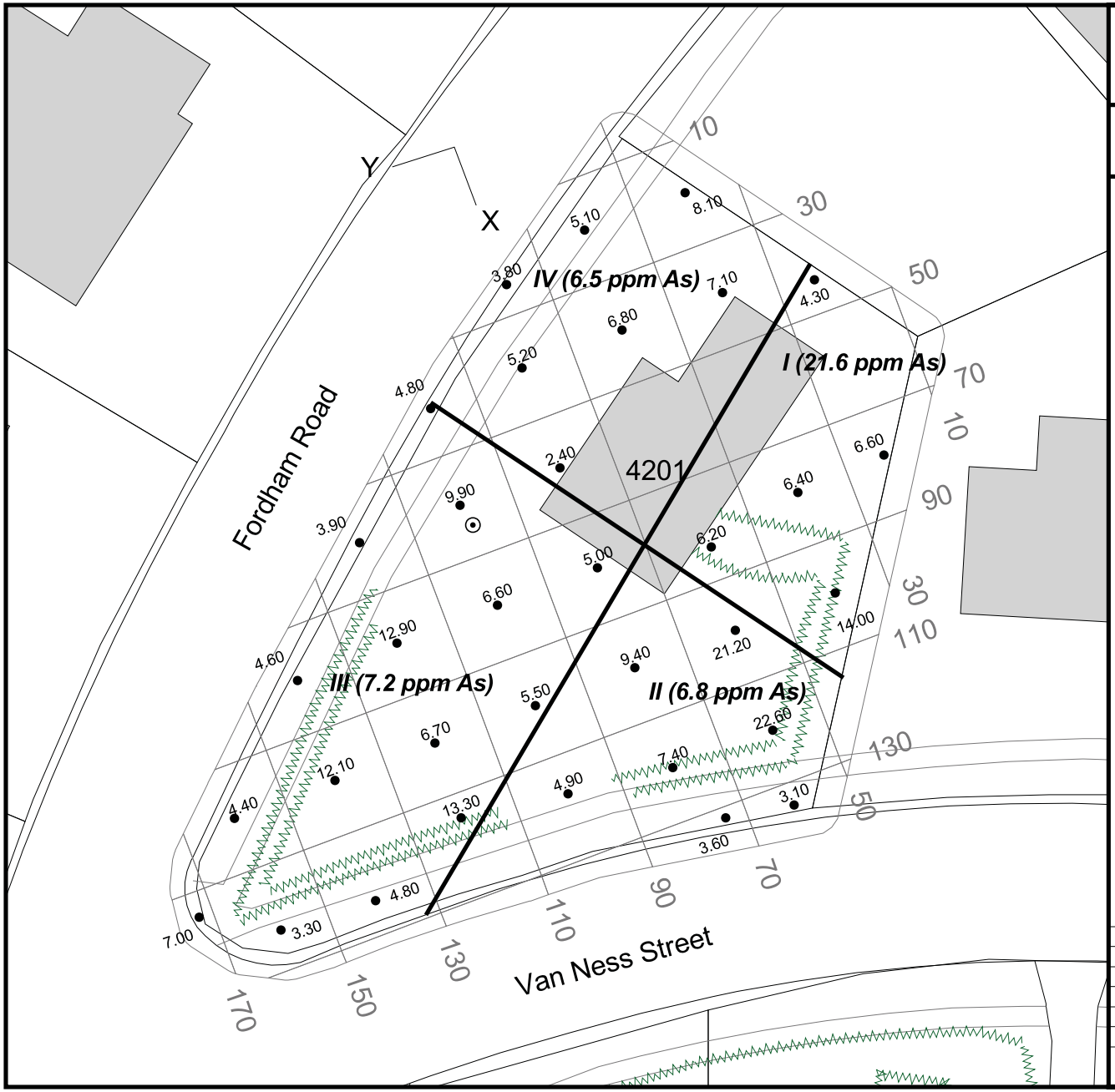
Half Sampled on 7/13/01
Grid Sampled on 1/17/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4201 Fordham Rd (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

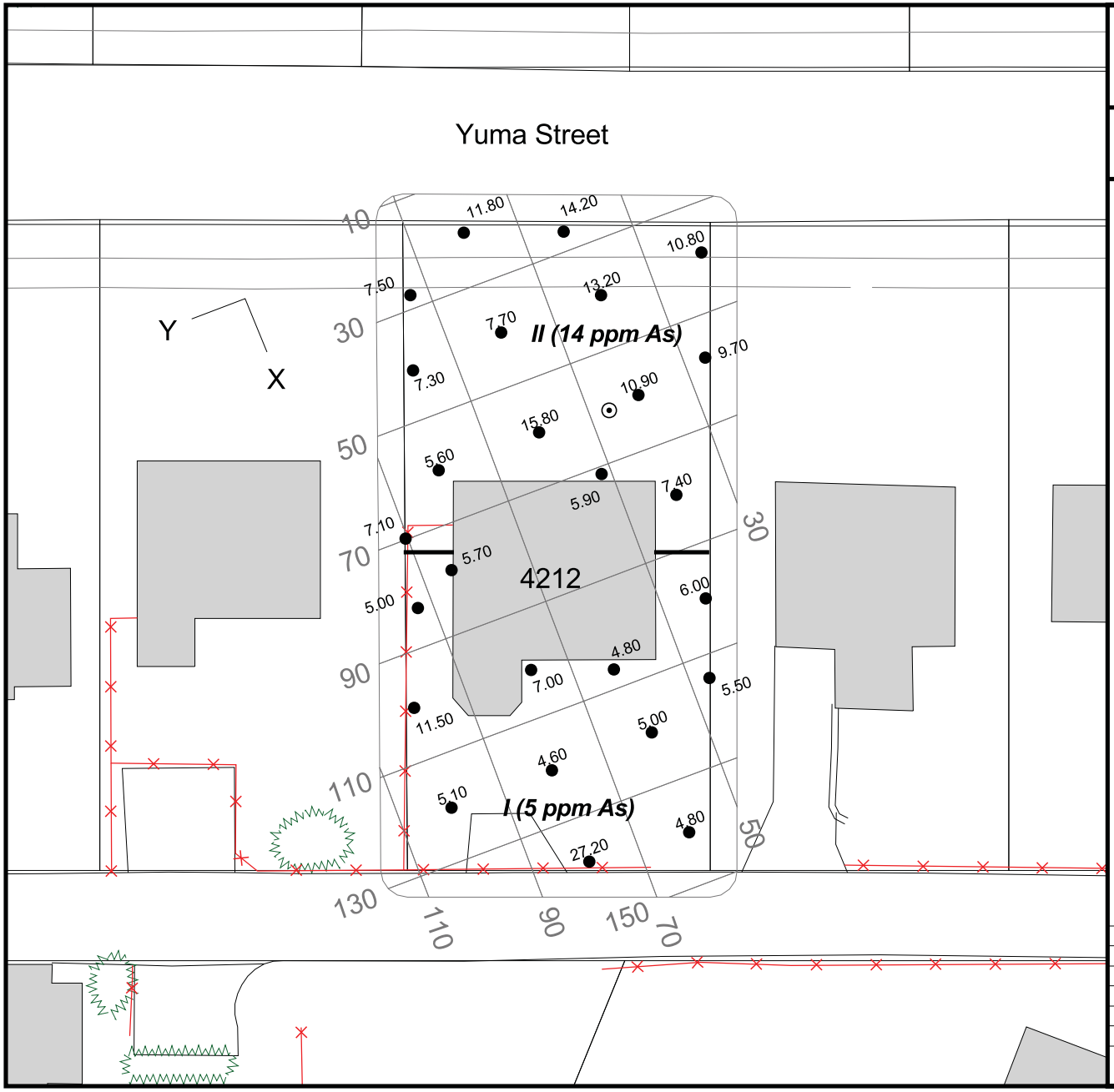
Quadrant Sampled on 6/25/01
Grid Sampled on 1/7/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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Final Grid Sampling Results
4212 Yuma St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

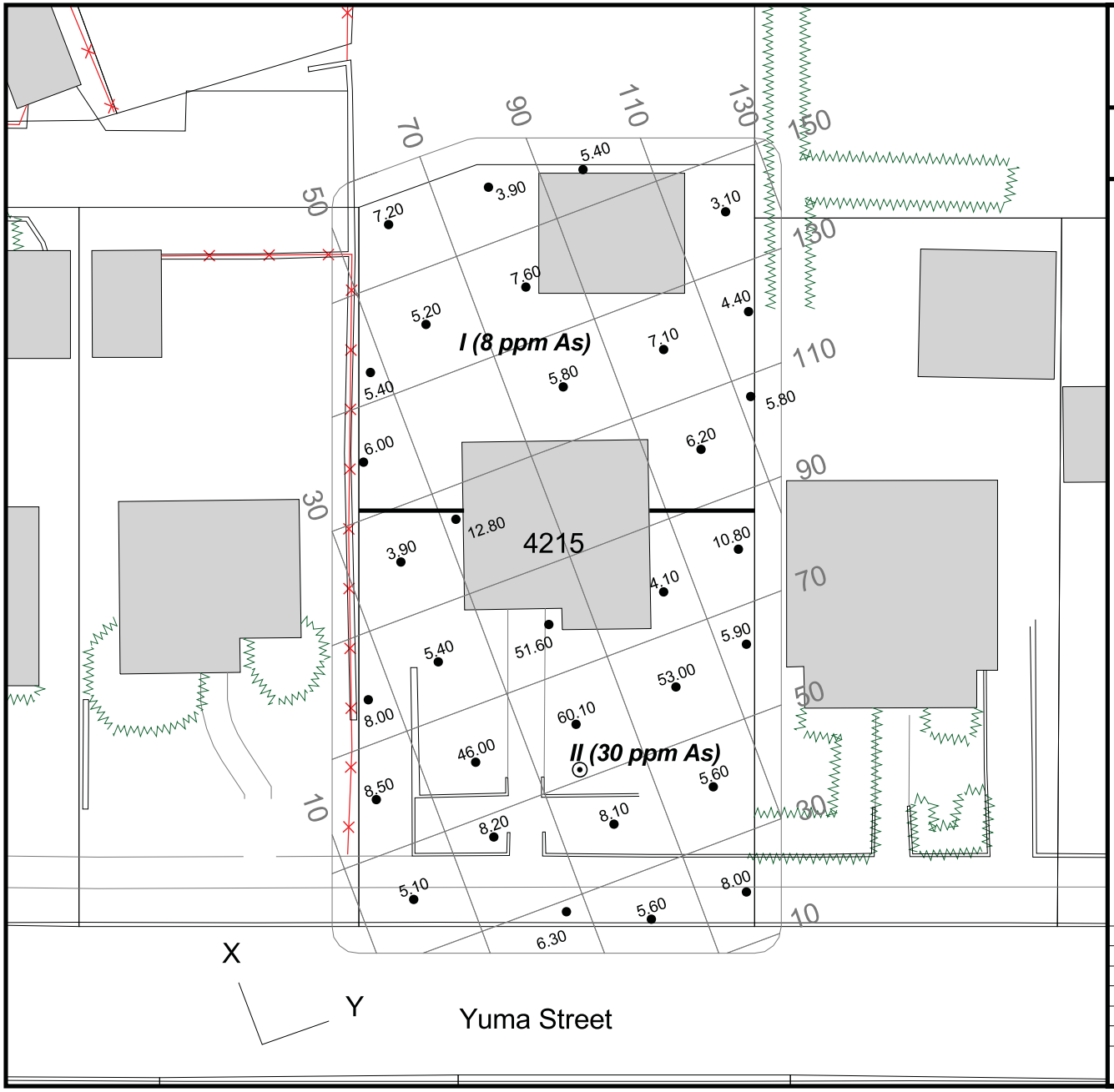
Half Sampled on 9/21/01
Grid Sampled on 1/24/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4215 Yuma St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

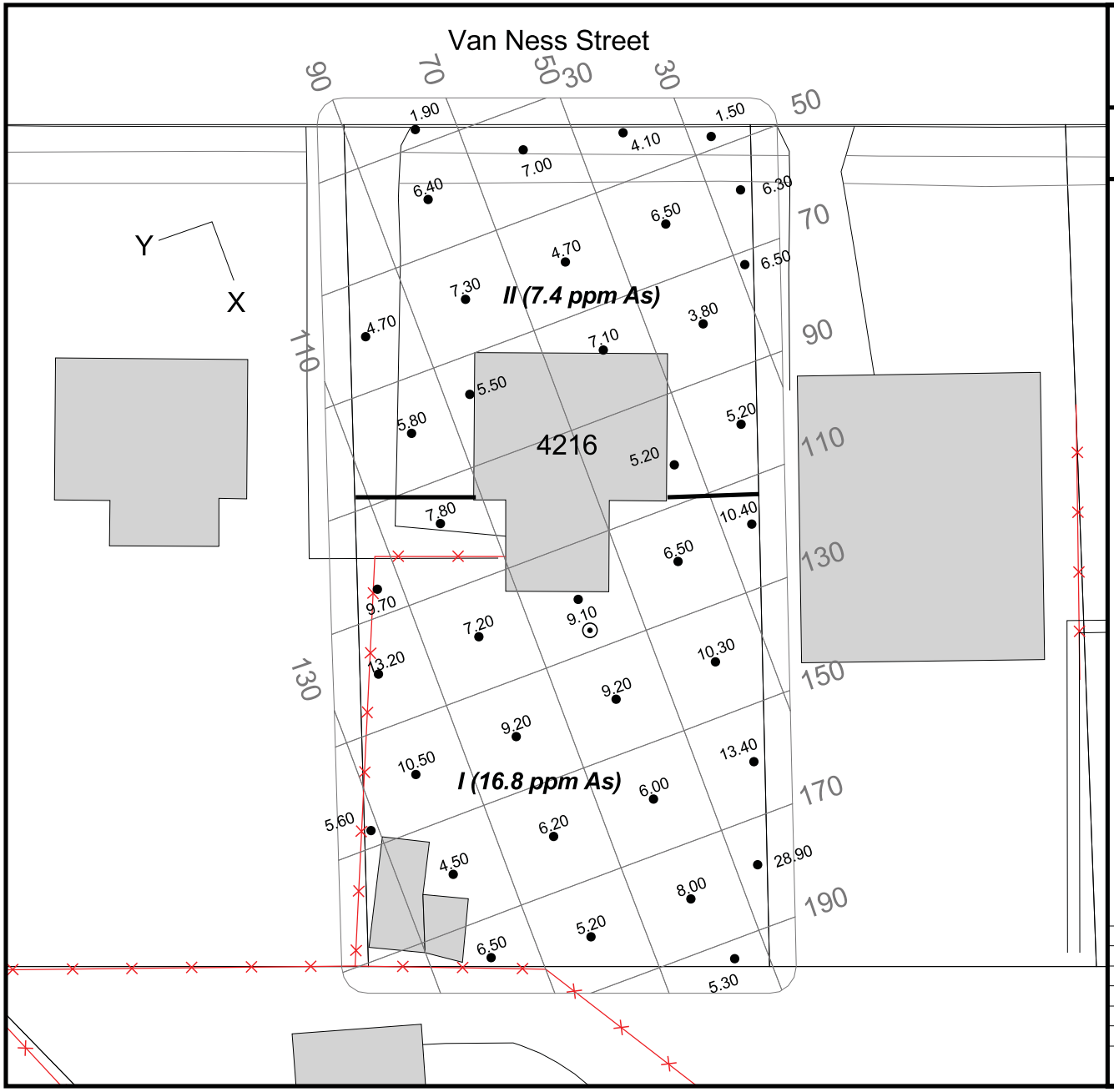
Half Sampled on 9/21/01
Grid Sampled on 2/27/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4216 Van Ness St (CSA 7)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 10/12/01
Grid Sampled on 1/28/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4219 50th St (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

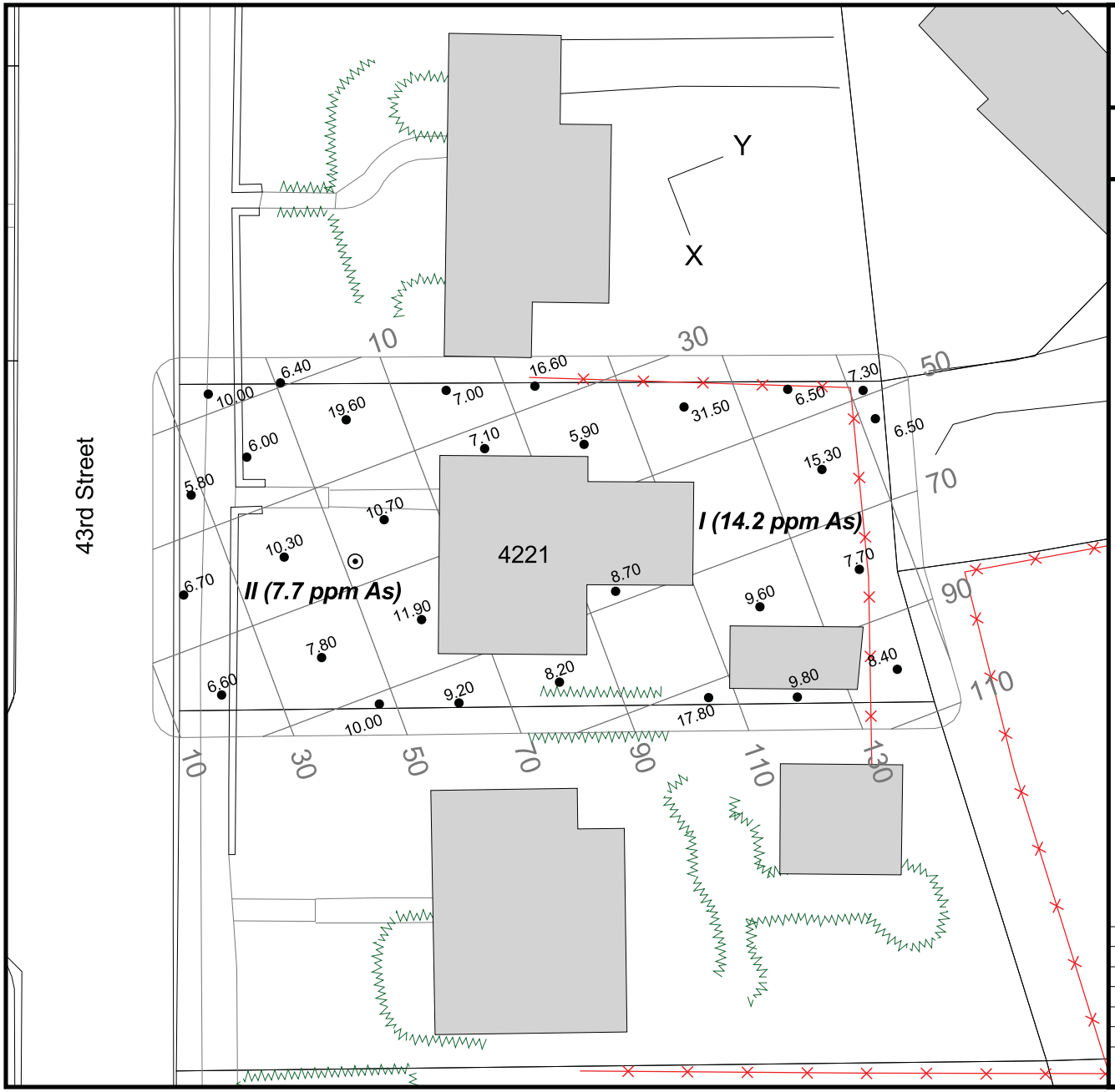
Quadrant Sampled on 7/9/01
Grid Sampled on 9/26/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4221 43rd St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- Buildings
- 20' Grid
- Retaining Wall
- Free Standing Wall
- Fence
- Hedge
- Stairs
- Sidewalk
- Roads
- Driveway
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/2/02
Grid Sampled on 11/7/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4226 50th Street (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

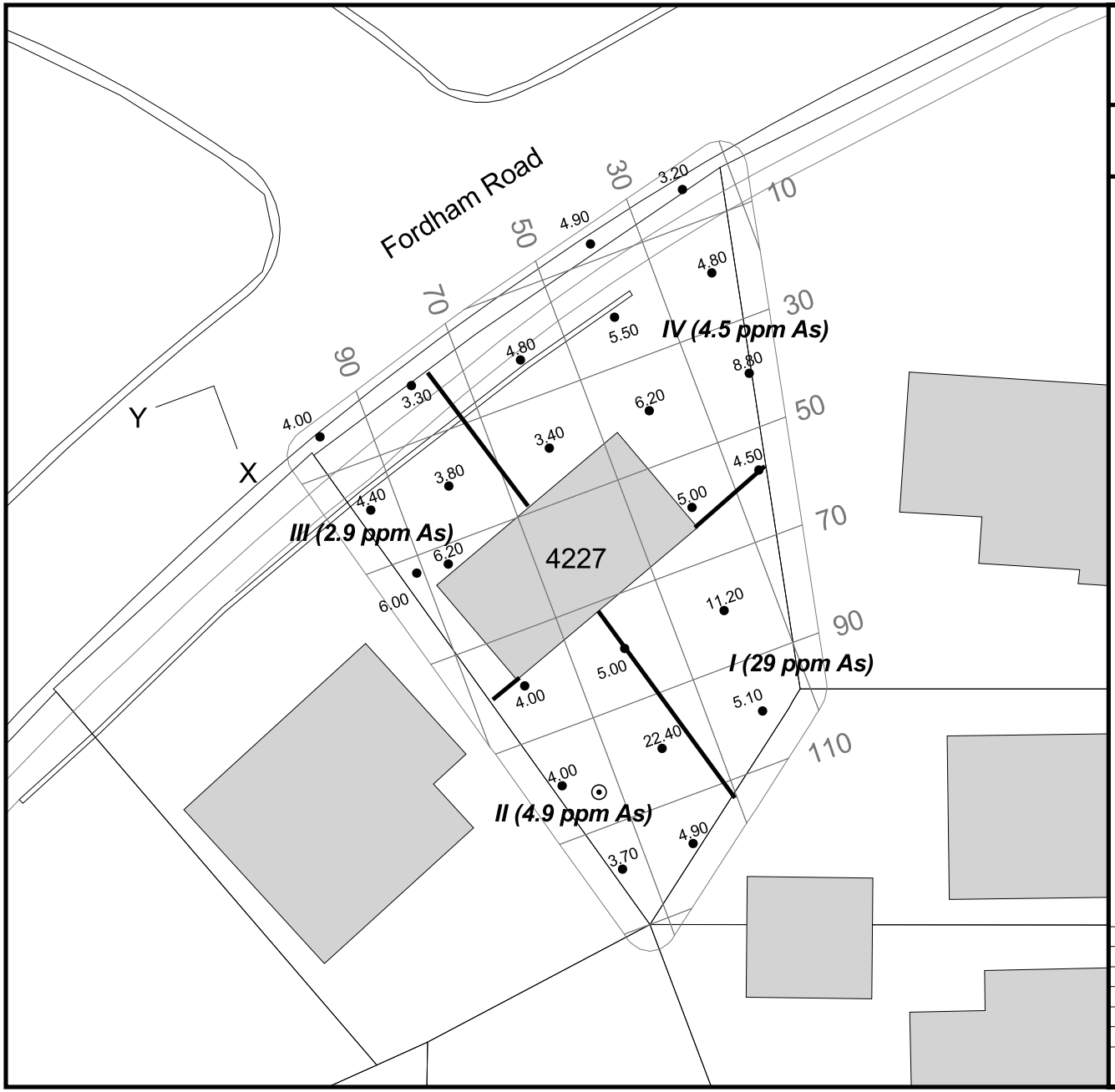
Quadrant Sampled on 6/25/01
Grid Sampled on 11/19/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

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Final Grid Sampling Results
4227 Fordham Rd (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

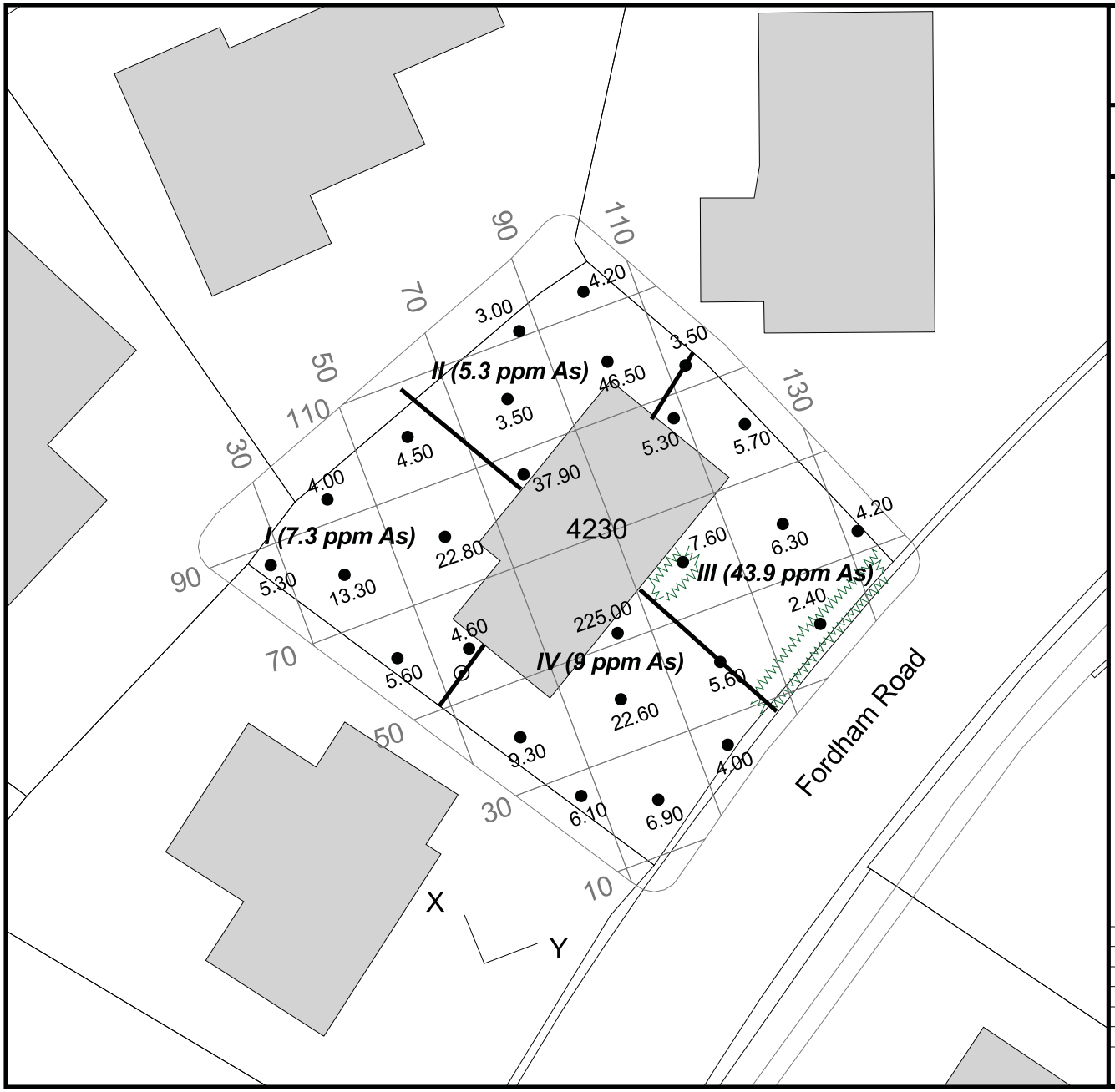
Quadrant Sampled on 6/7/01
Grid Sampled on 12/28/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4230 Fordham Rd (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

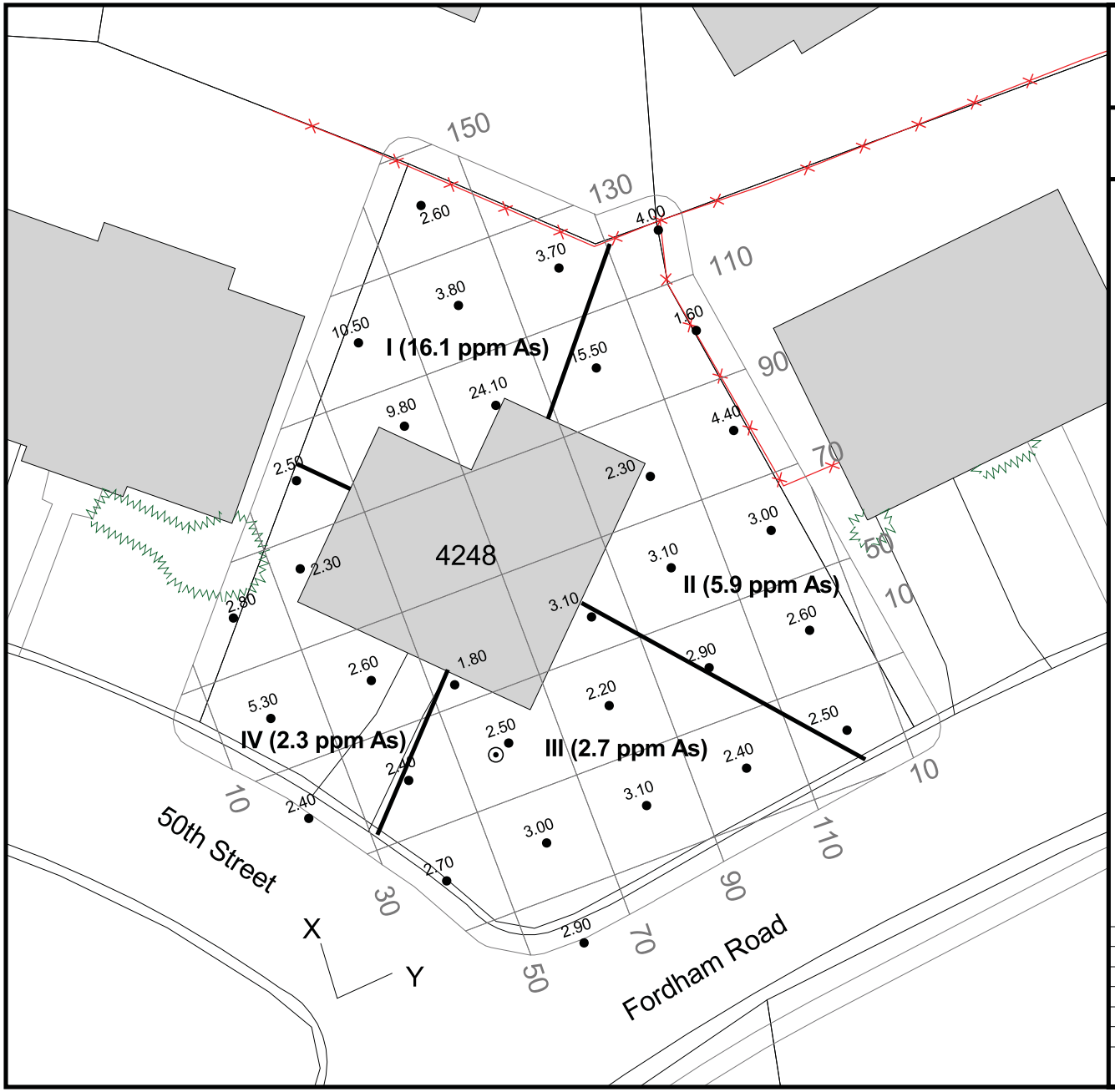
Quadrant Sampled on 6/25/01
Grid Sampled on 10/15/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4248 50th St (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

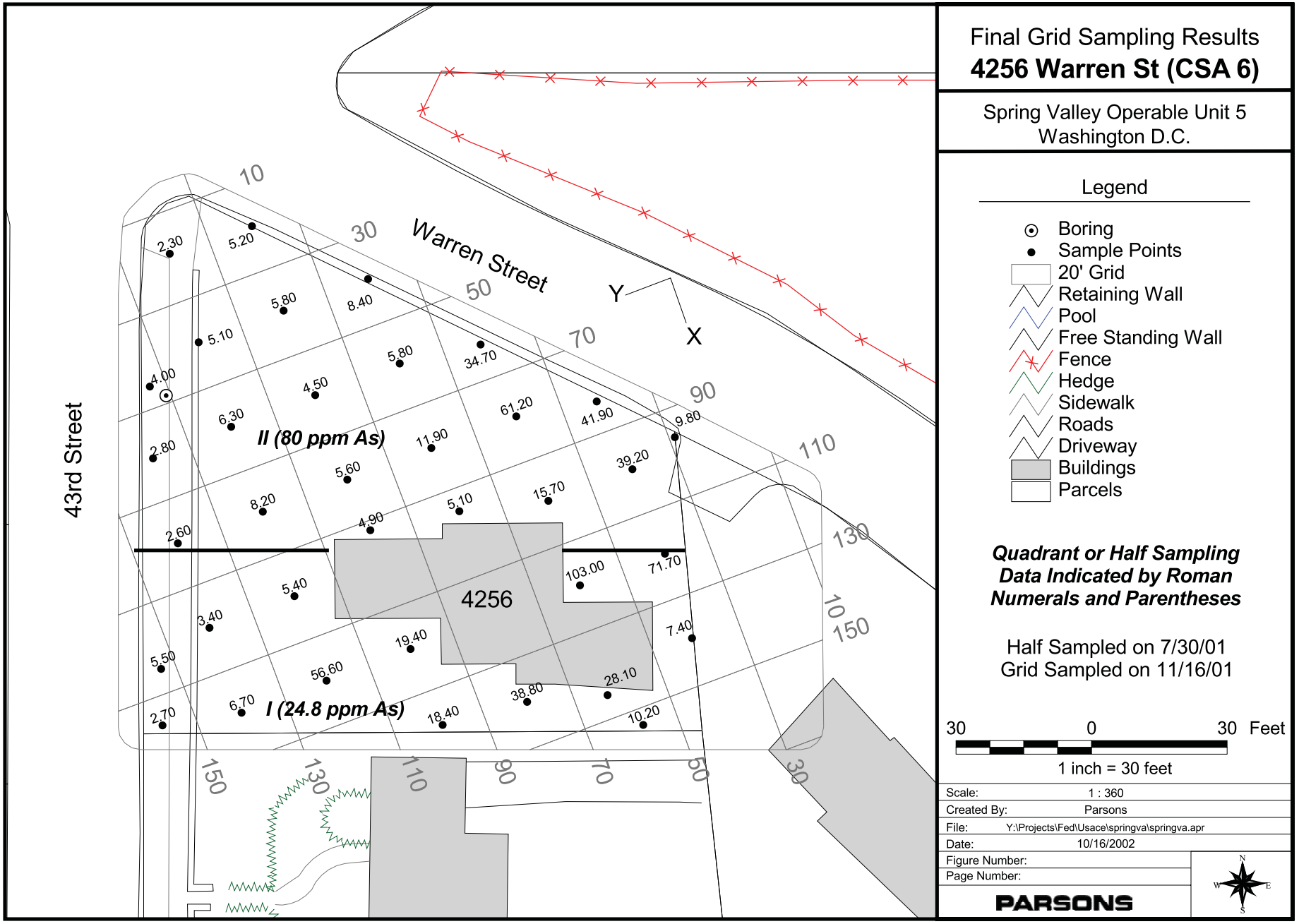
Quadrant Sampled on 6/25/01
Grid Sampled on 11/15/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

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Final Grid Sampling Results
4256 Warren St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/30/01
Grid Sampled on 11/16/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

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Final Grid Sampling Results
4301 Warren St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

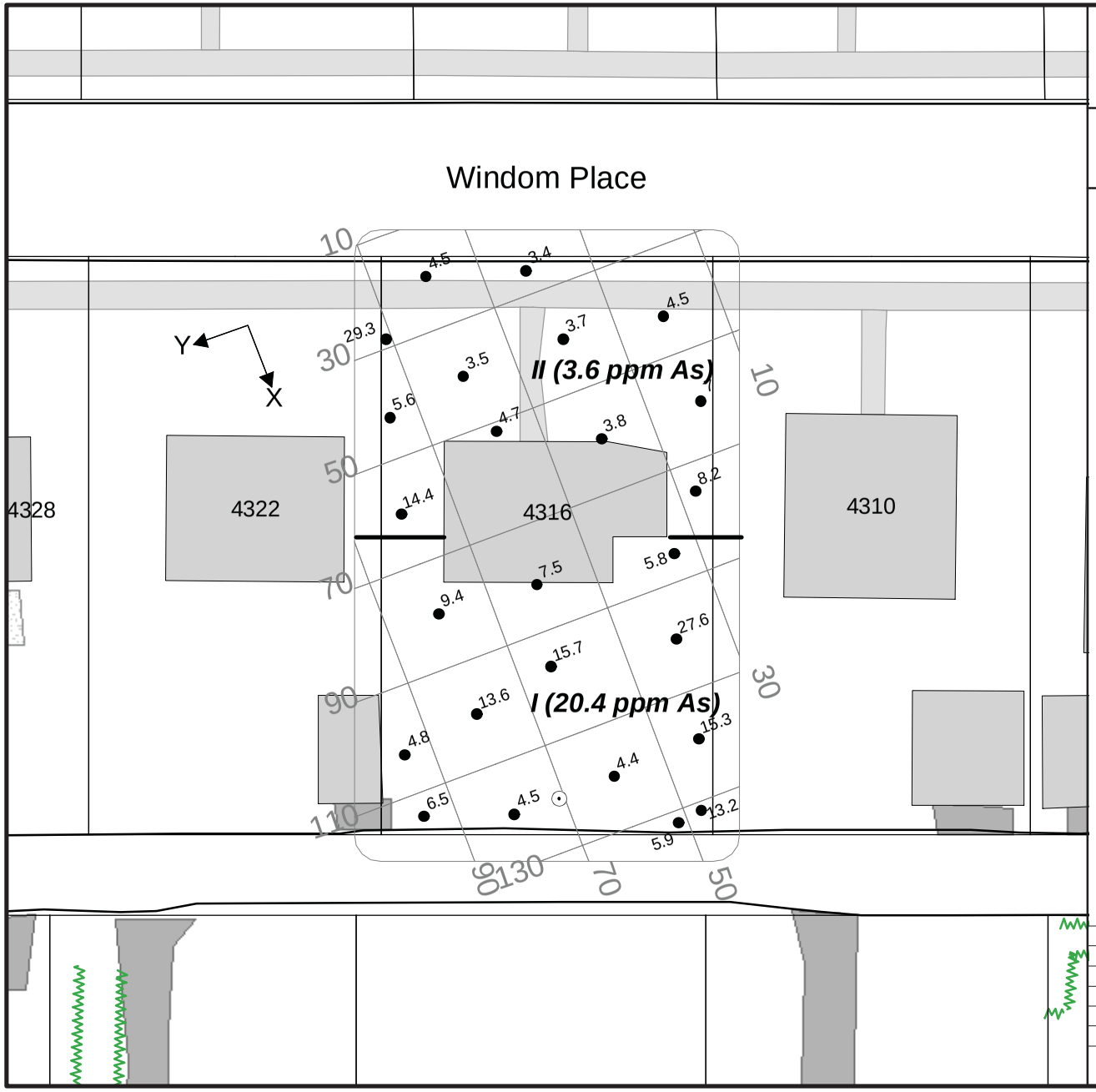
Half Sampled on 3/26/02
Grid Sampled on 12/18/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	2/5/2003
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4316 Windom Pl (CSA 6)

Spring Valley Operable Unit 5
Washington, DC

Legend

- Boring
- Sample Points
- 20' Grid
- Road
- Property Boundary
- Building
- Hedge
- Retaining Wall
- Sidewalk
- Deck/Porch
- Driveway

Quadrant of Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 6/11/2002
Grid Sampled on 6/3/2003

30 15 0 30 Feet

1 inch equals 30 feet

Scale:	1:360
Created By:	Parsons
File:	20031124 4316 Windom Pl Grid Sampling Results.mxd
Date:	11/24/2003
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4317 Warren St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

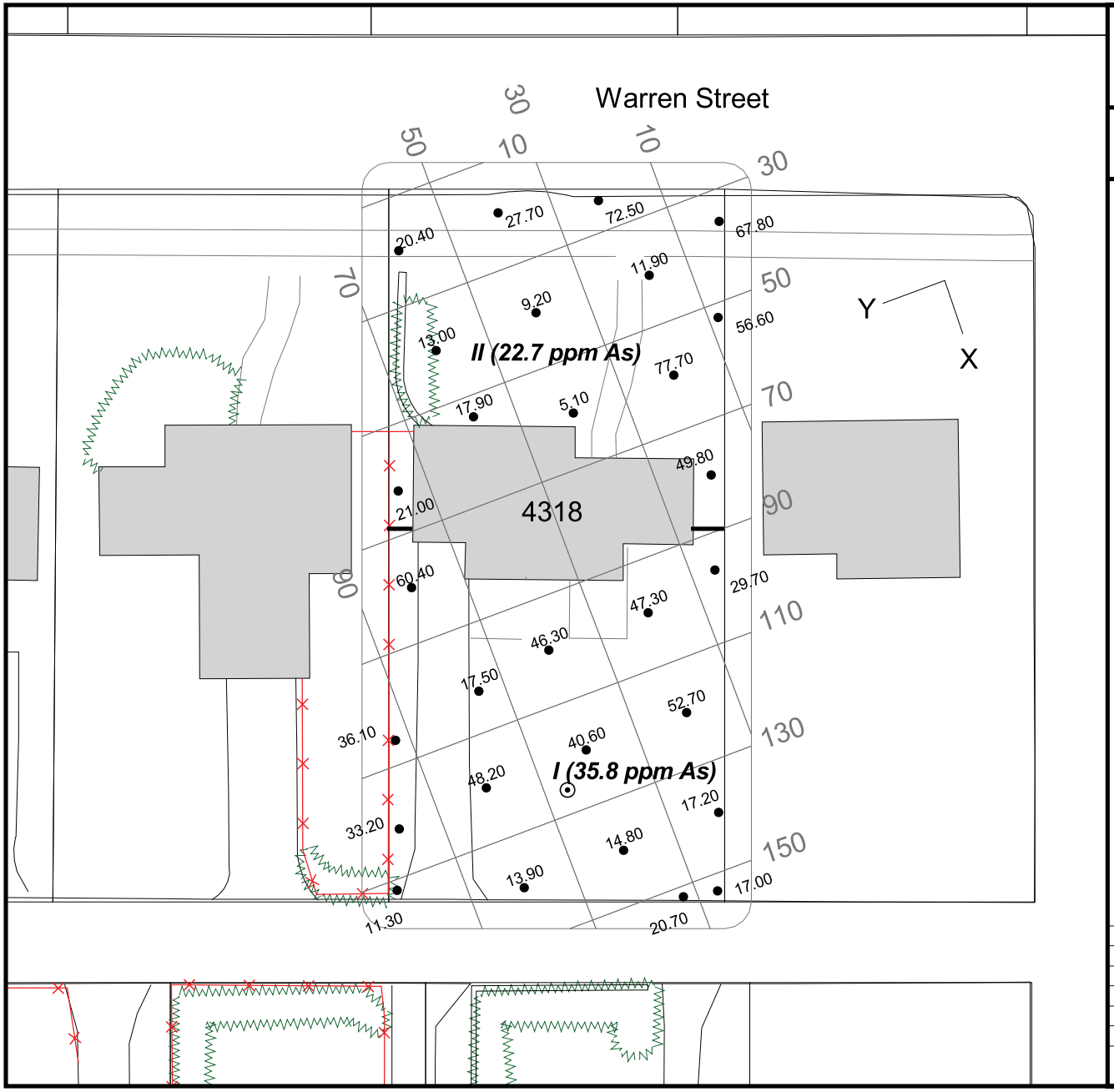
Half Sampled on 11/14/01
Grid Sampled on 1/30/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4318 Warren St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

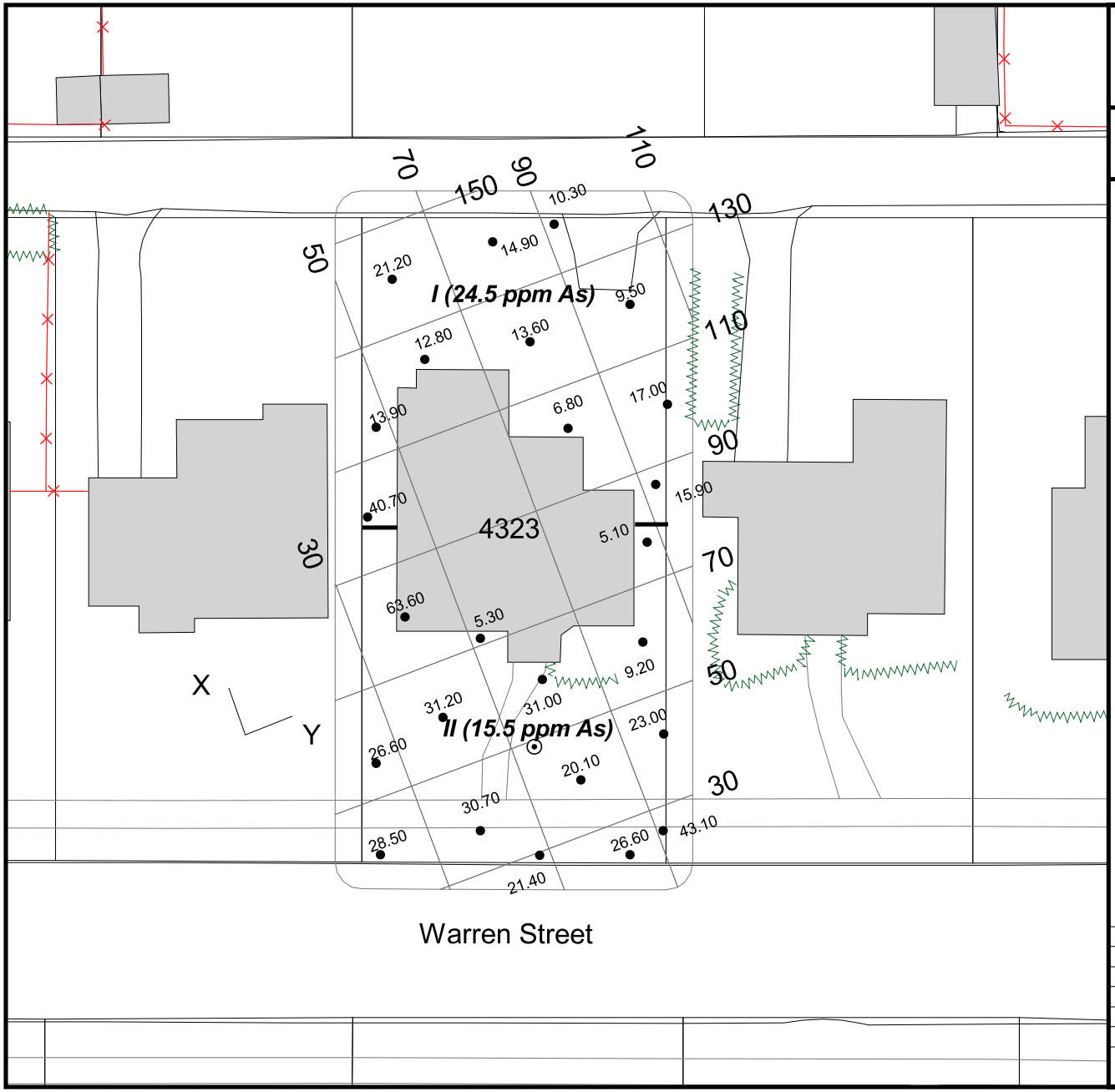
Half Sampled on 8/24/01
Grid Sampled on 2/15/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4323 Warren St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

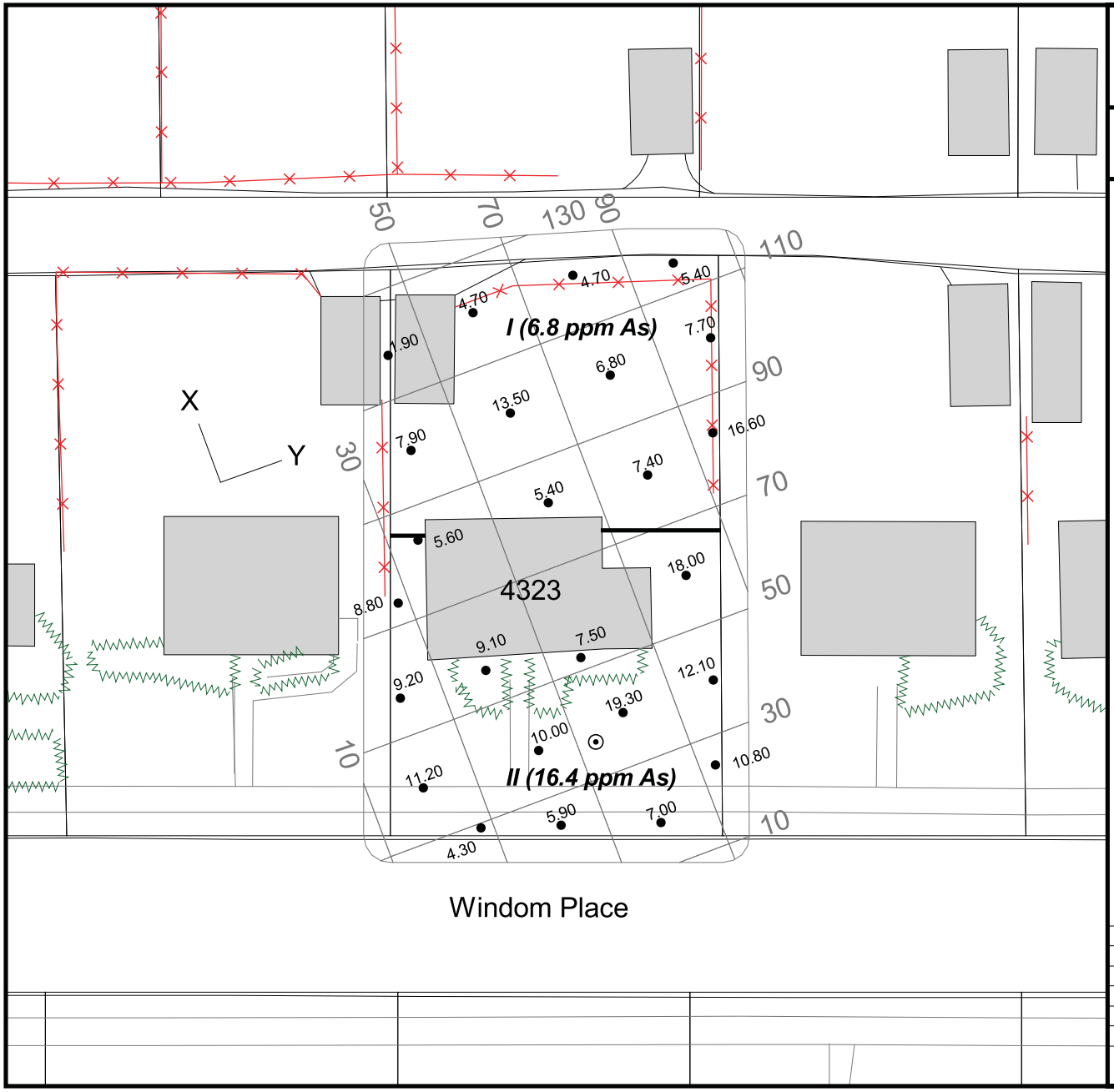
Half Sampled on 7/27/01
Grid Sampled on 10/18/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4323 Windom Pl (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Stream
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/24/01
Grid Sampled on 2/22/02

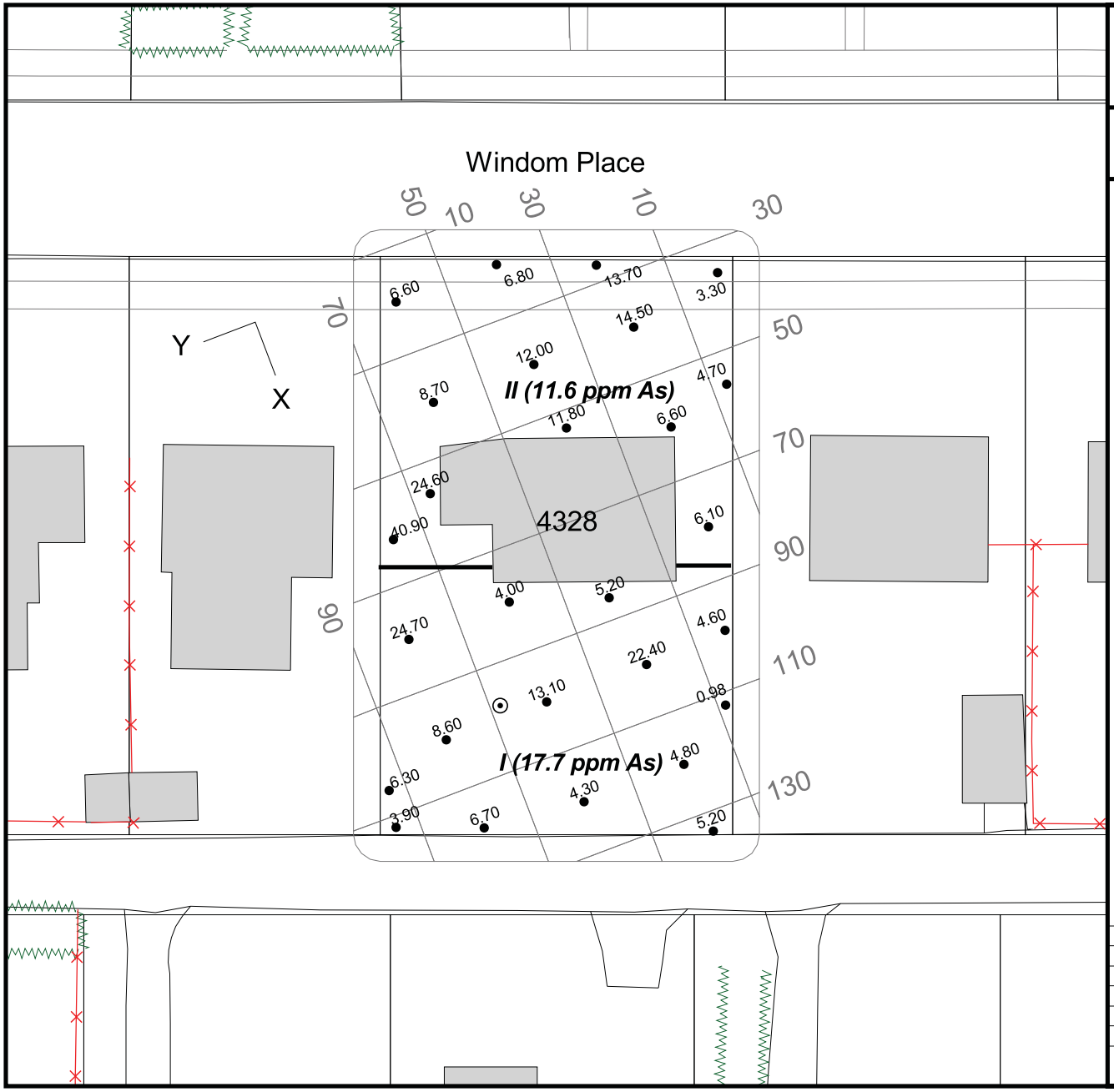
30 0 30 Feet

1 inch = 30 feet

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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
4328 Windom Pl (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- Grid Sampling
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/24/01
Grid Sampled on 12/12/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4329 Verplanck Pl (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

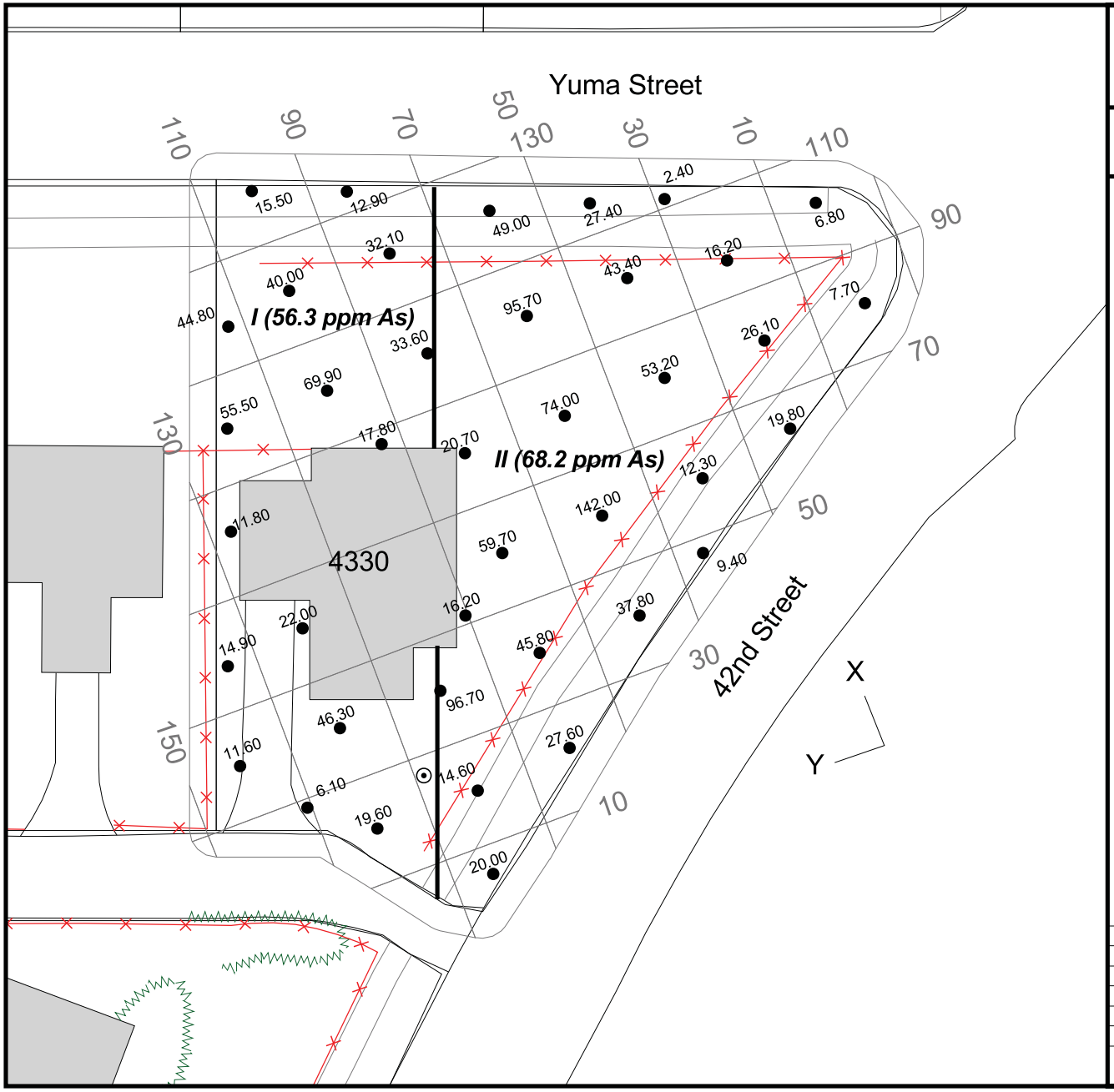
Half Sampled on 7/20/01
Grid Sampled on 11/27/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4330 42nd St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

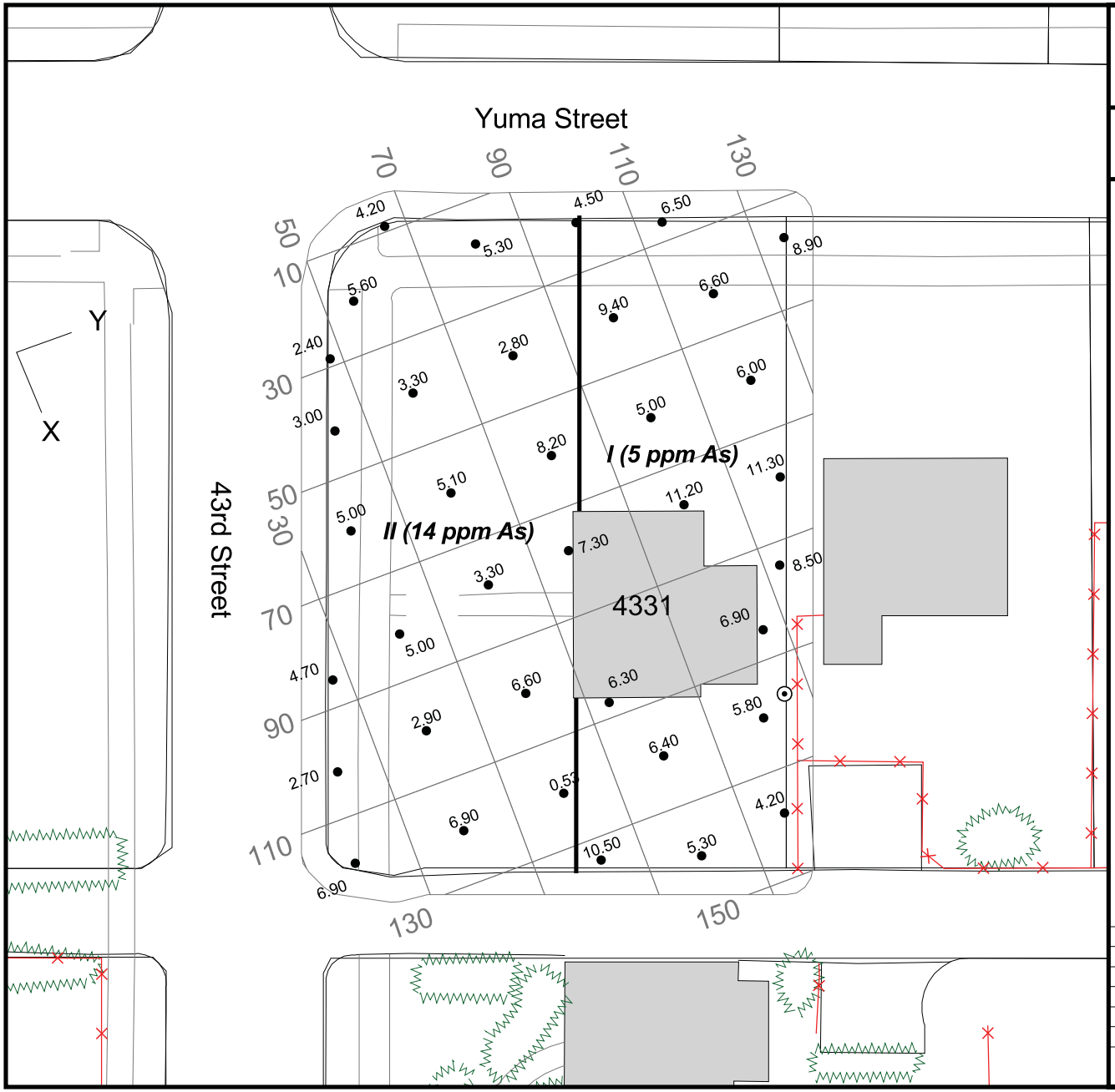
Half Sampled on 8/17/01
Grid Sampled on 11/21/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4331 43rd St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

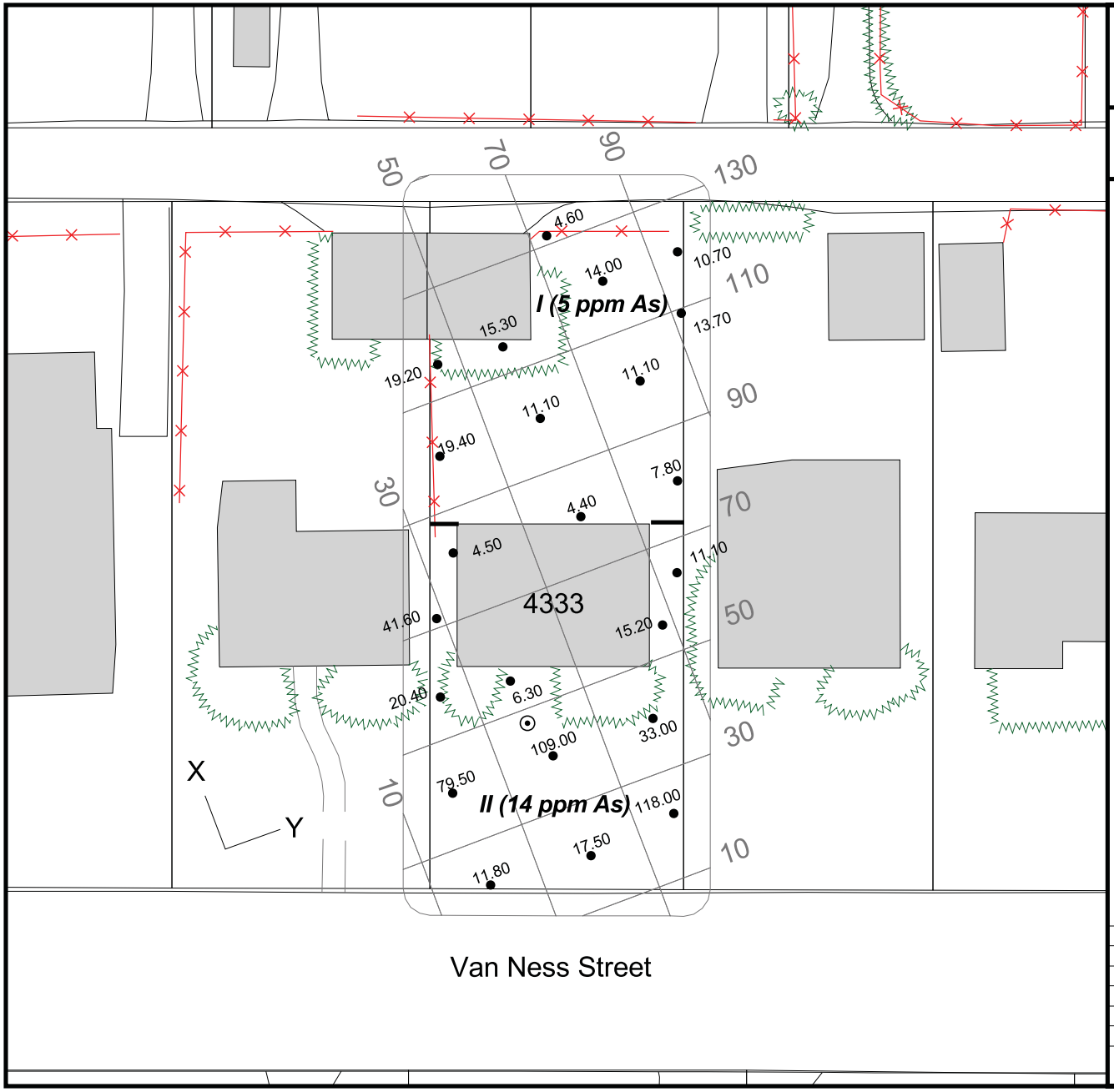
Half Sampled on 7/20/01
Grid Sampled on 1/25/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4333 Van Ness St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/30/01
Grid Sampled on 1/24/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4337 Verplanck Pl (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/25/01
Grid Sampled on 11/28/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
4341 Warren St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/24/01
Grid Sampled on 1/11/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4347 Warren St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

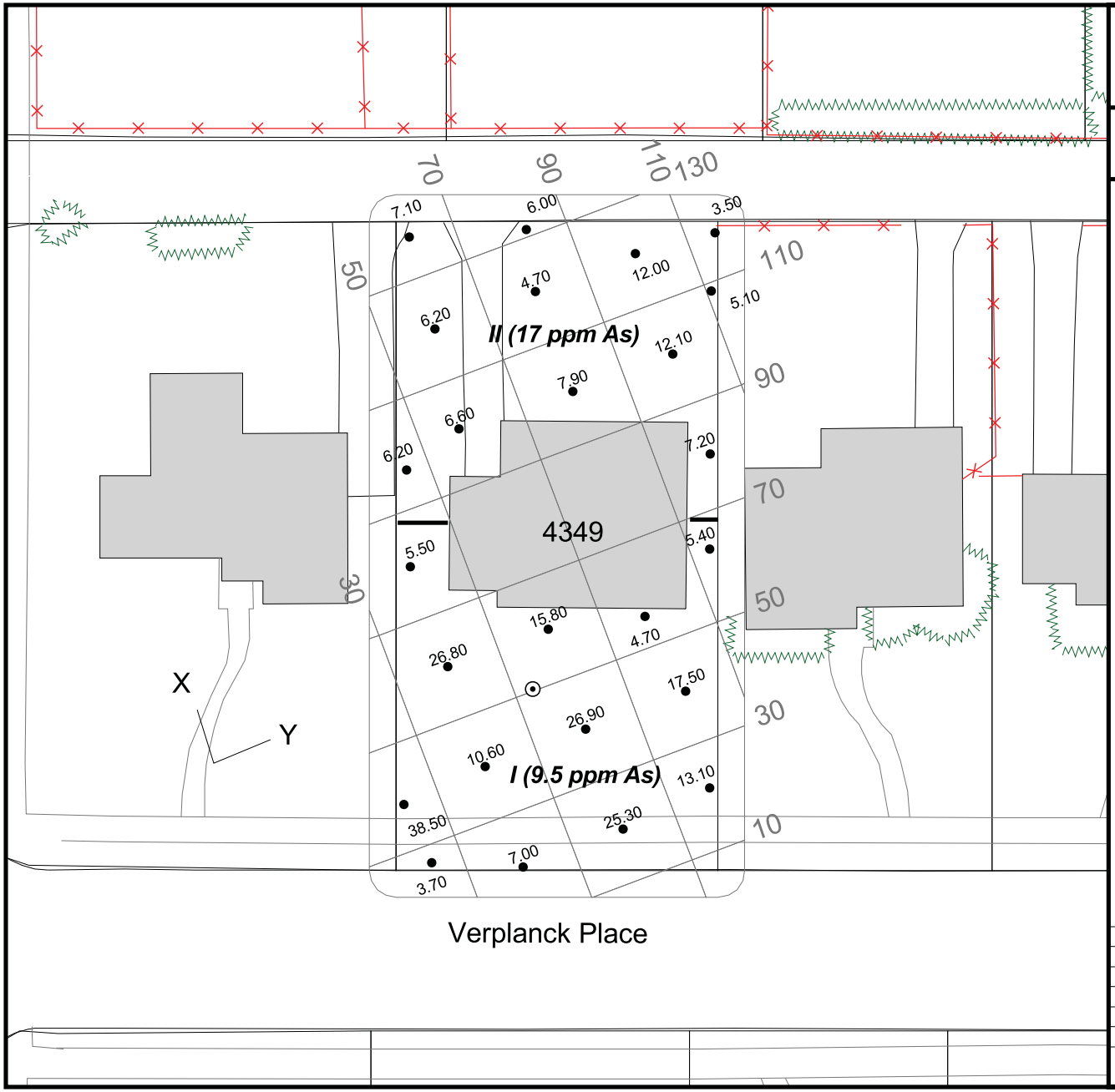
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Grid Sampled on 1/29/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4349 Verplanck Pl (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/23/01
Grid Sampled on 12/14/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4354 Warren St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Stream
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

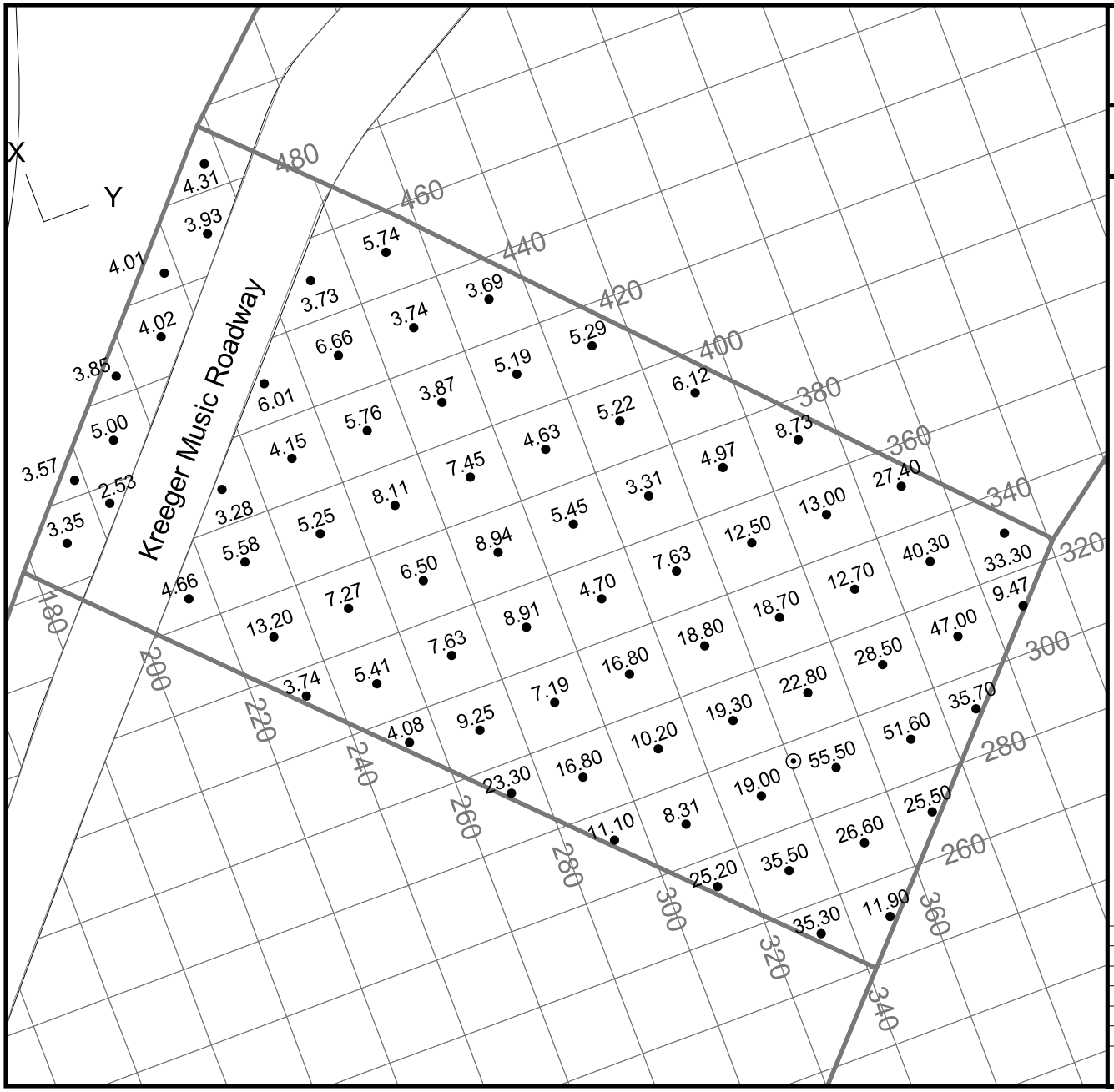
Half Sampled on 11/4/01
Grid Sampled on 2/21/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

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Final Grid Sampling Results
OU4-AU10

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

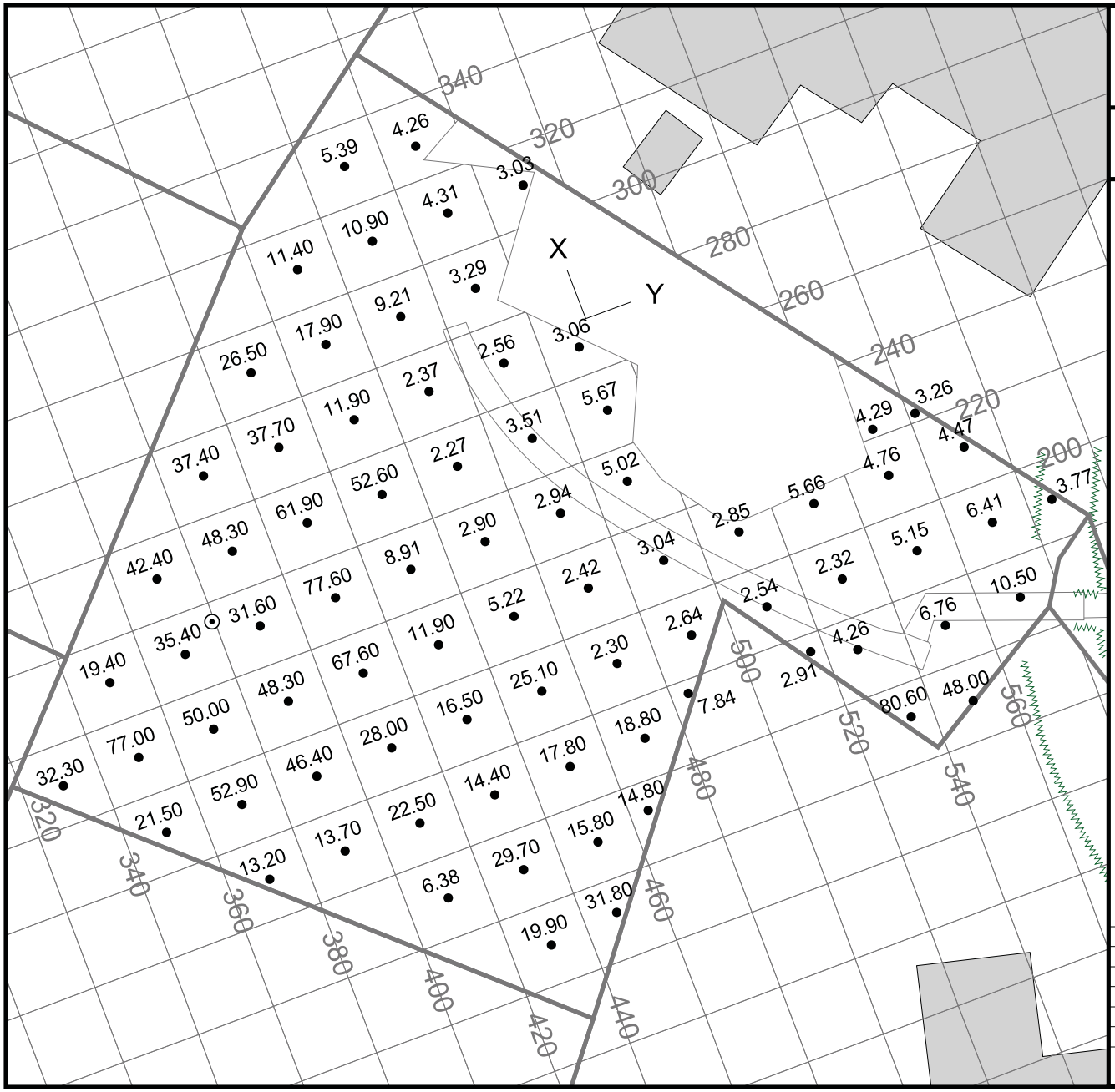
Quadrant Sampled on 11/15/00
Grid Sampled on 3/14/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU4-AU11

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 11/16/00
Grid Sampled on 3/19/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU4-AU12

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 11/22/00
Grid Sampled on 1/4/01

50 0 50 Feet

1 inch = 50 feet

Scale:	1 : 600
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU4-CDC

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

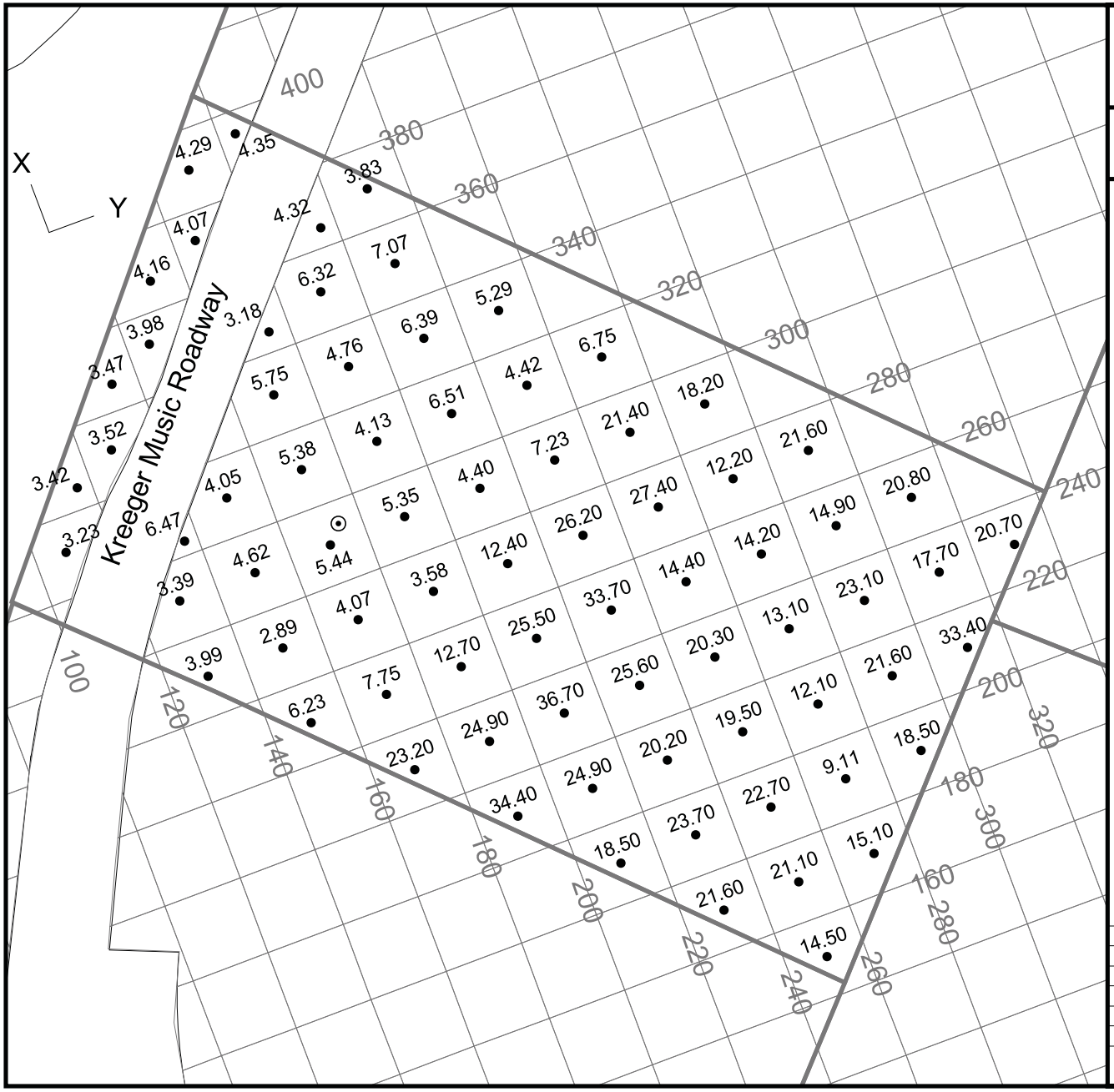
Quadrant Sampled on 11/22/00
Grid Sampled on 1/4/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
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Date:	02/18/2003
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU4-AU13

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

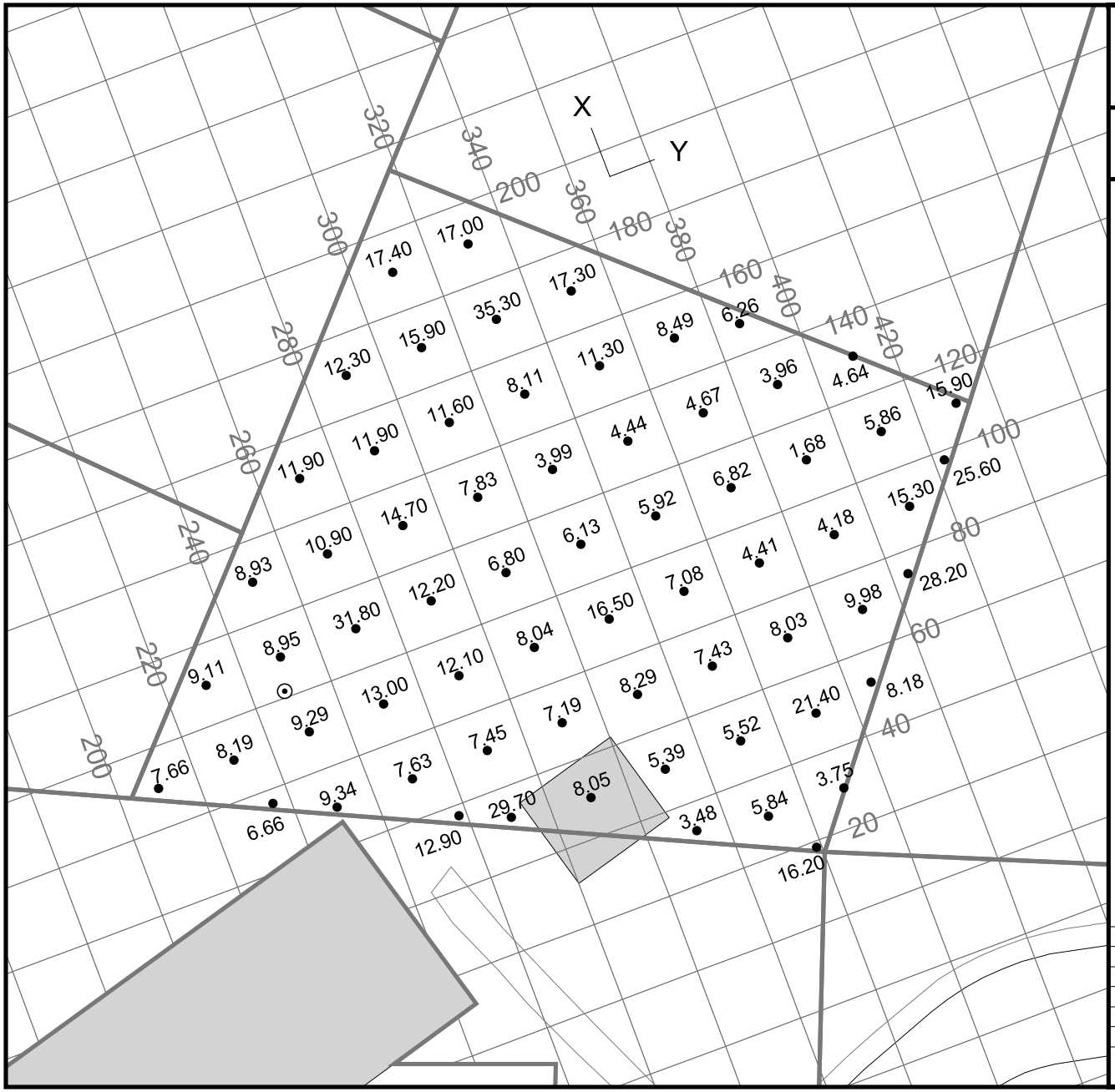
Quadrant Sampled on 11/15/00
Grid Sampled on 3/15/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU4-AU14

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

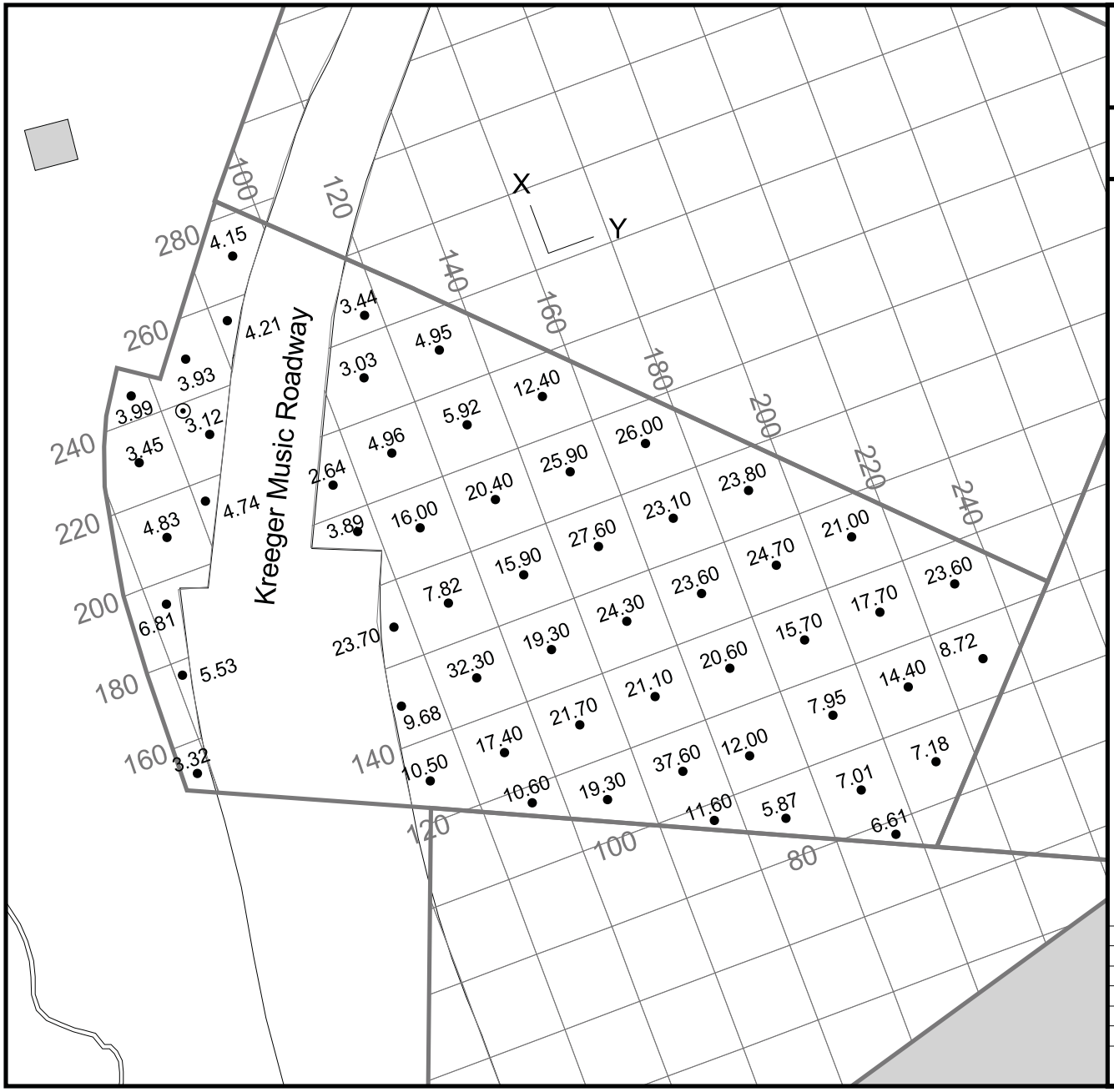
Quadrant Sampled on 11/16/00
Grid Sampled on 3/16/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU4-AU15

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 11/16/00
Grid Sampled on 3/16/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU4-AU-KREEG

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Grid Sampled on 3/22/01

70 0 70 Feet

1 inch = 70 feet

Scale:	1 : 840
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU4-AU-WATKN

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Grid Sampled on 3/23/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU5-CSA-9-L33 (CSA 9)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Non-Residential Lots

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

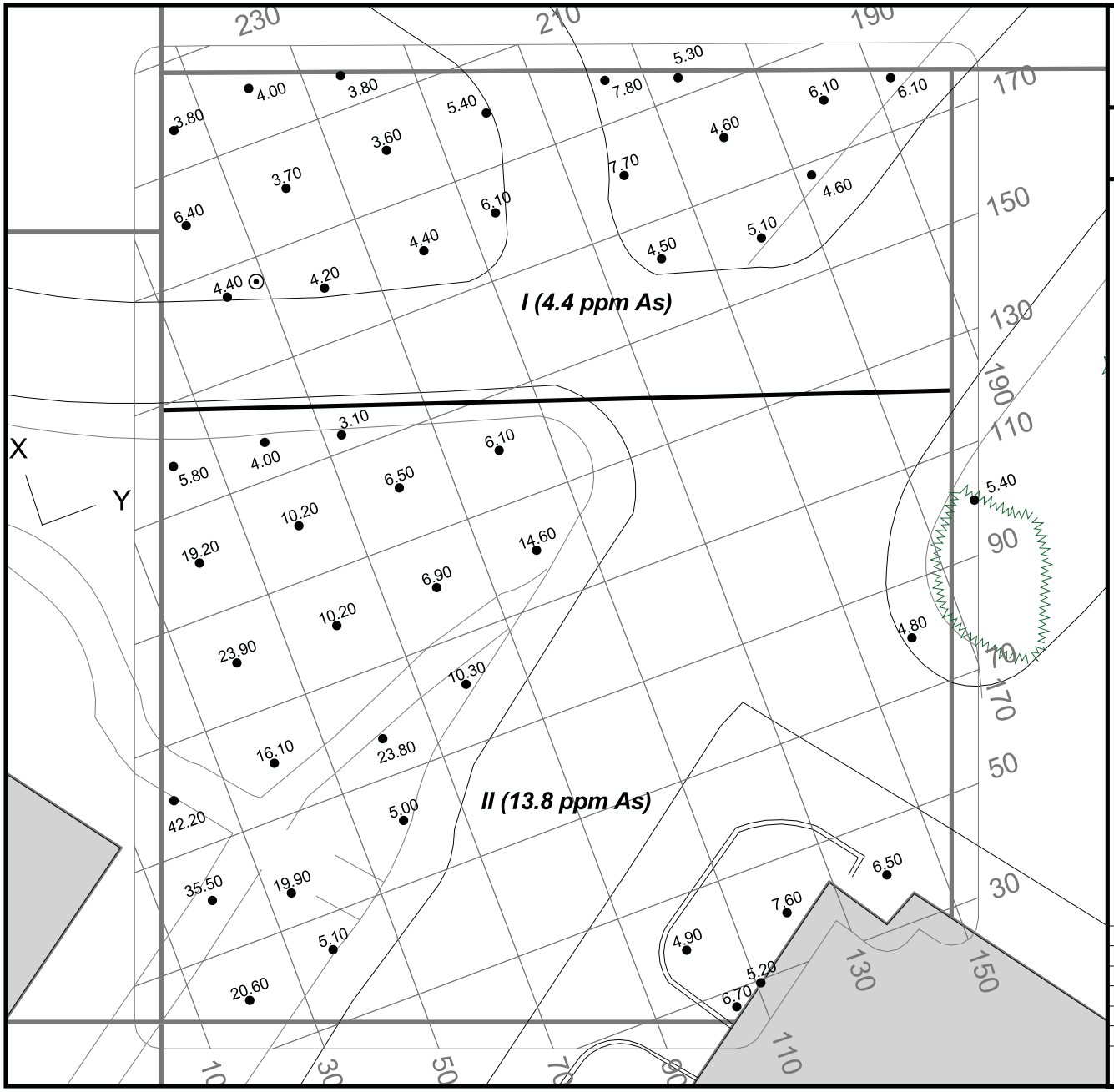
Half Sampled on 8/17/01
Grid Sampled on 1/18/02

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU5-CSA-9-L34 (CSA 9)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Non-Residential Lots

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/17/01
Grid Sampled on 1/18/02

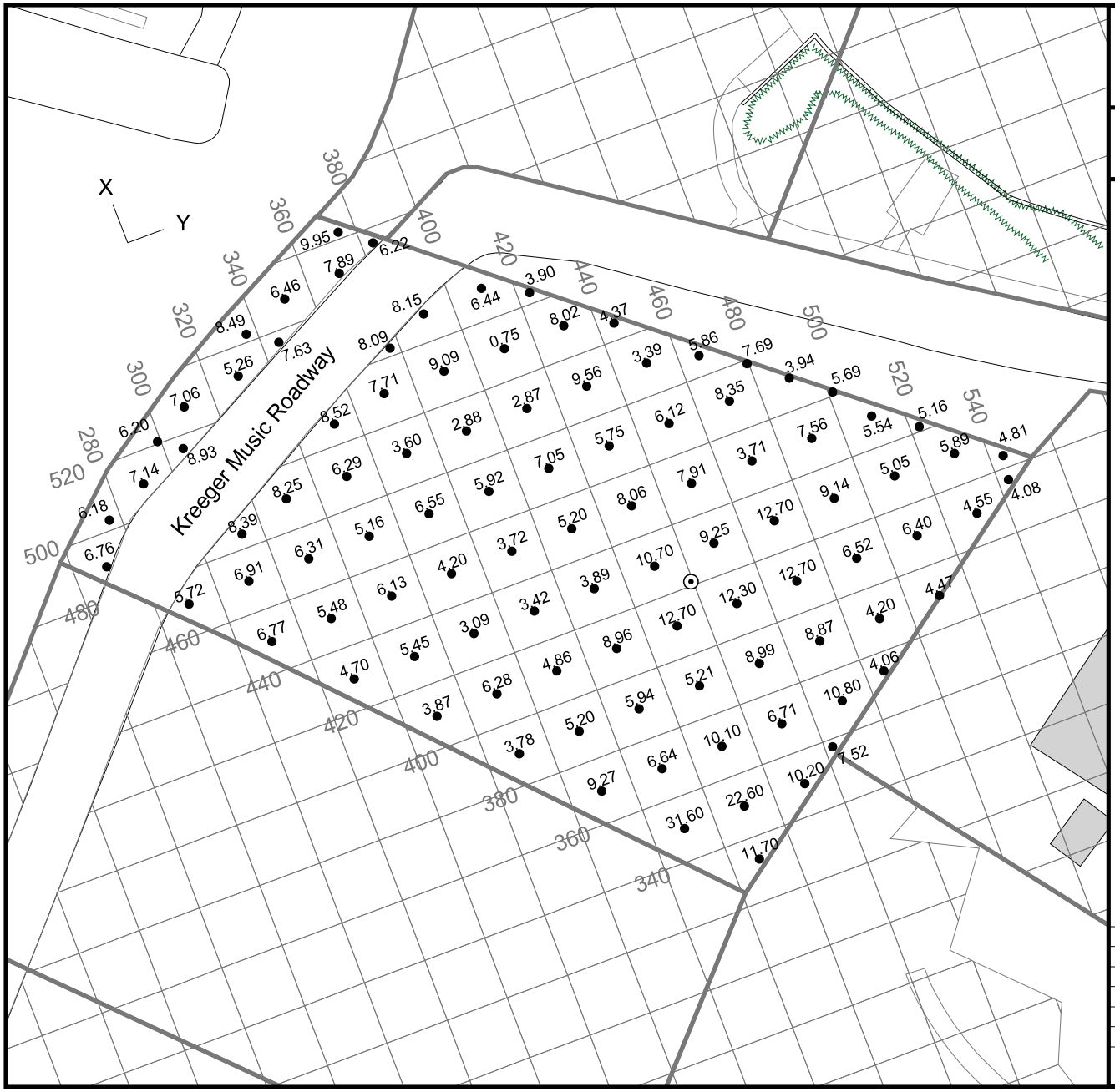
30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
OU4-AU08

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Non-Residential Lots
- Retaining Wall
- Free Standing Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 11/15/00
Grid Sampled on 3/12/01

50 0 50 Feet

1 inch = 50 feet

Scale:	1 : 600
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4427 Springdale St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

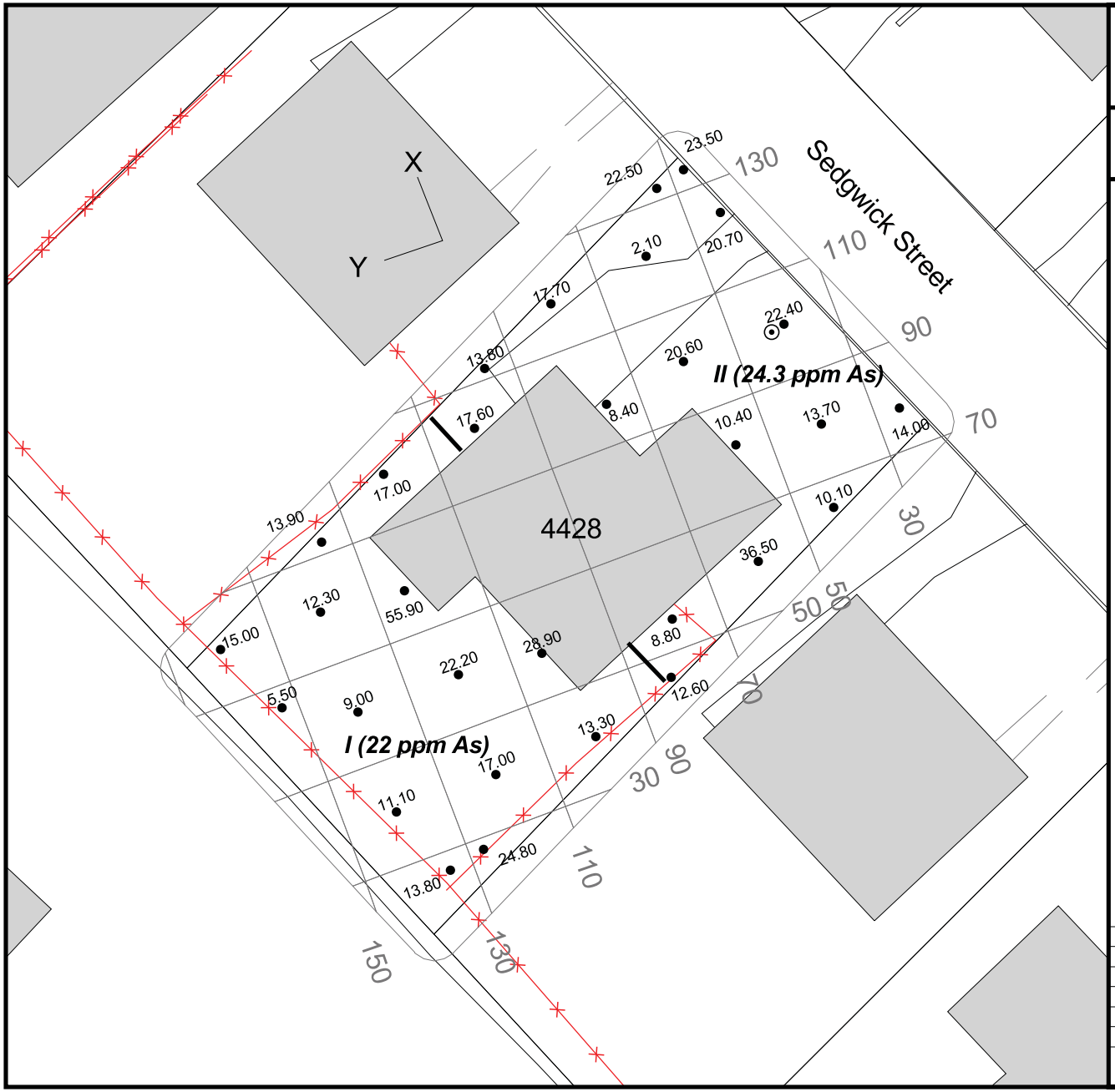
Half Sampled on 11/8/01
Grid Sampled on 1/17/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4428 Sedgwick St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

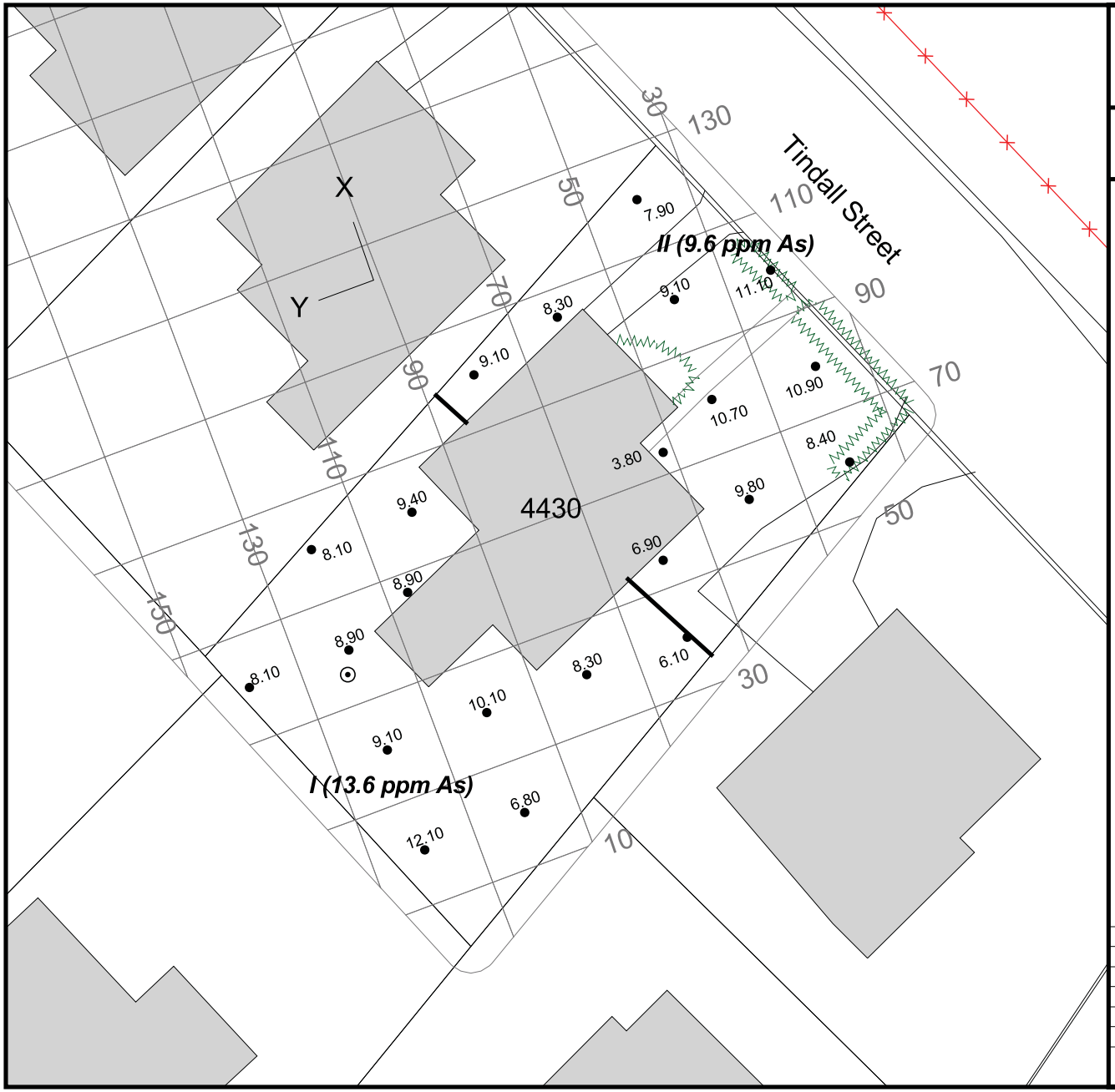
Half Sampled on 8/17/01
Grid Sampled on 12/18/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4430 Tindall St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

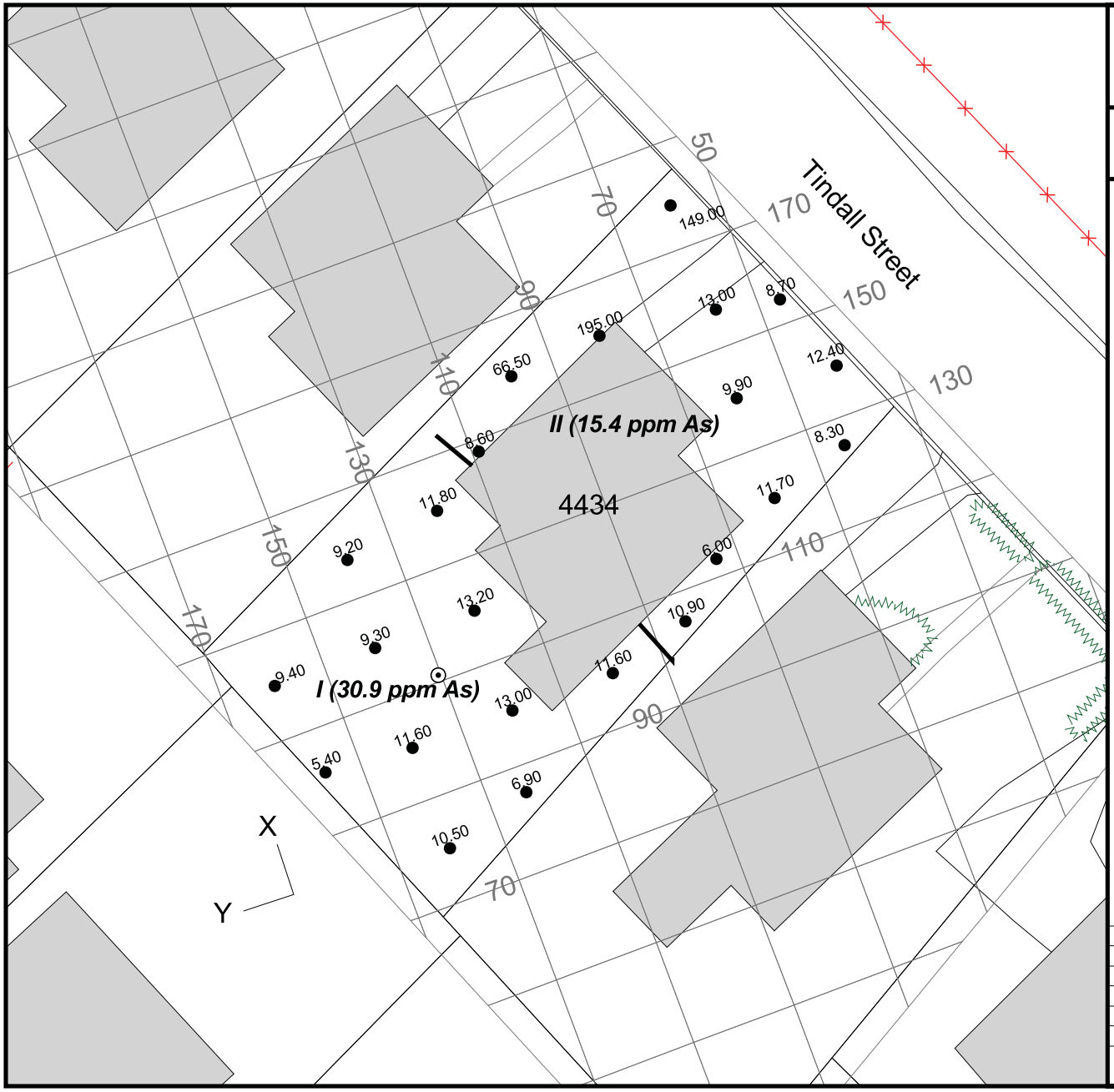
Half Sampled on 11/8/01
Grid Sampled on 1/22/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4434 Tindall St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

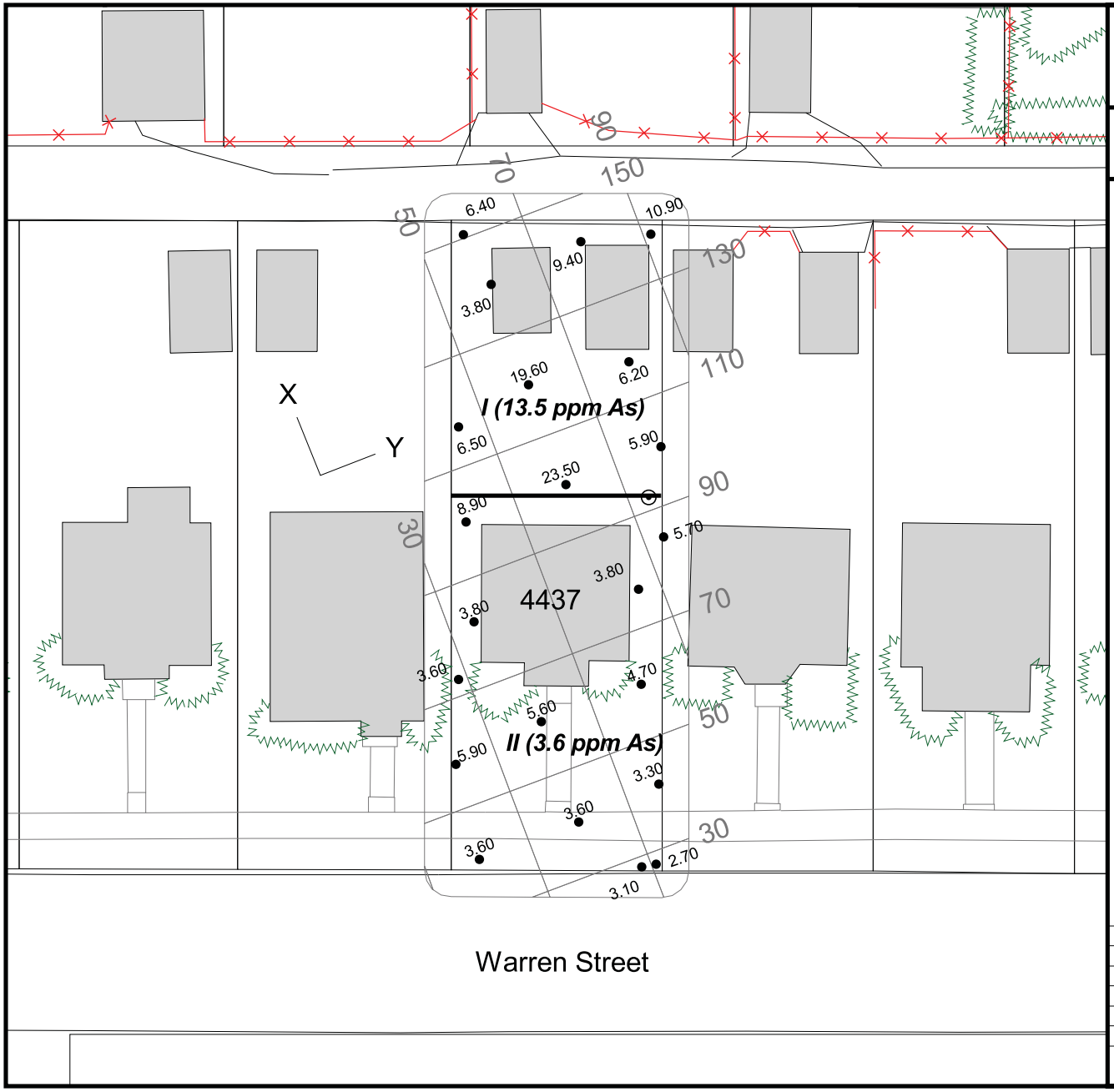
Half Sampled on 7/25/01
Grid Sampled on 11/2/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4437 Warren St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

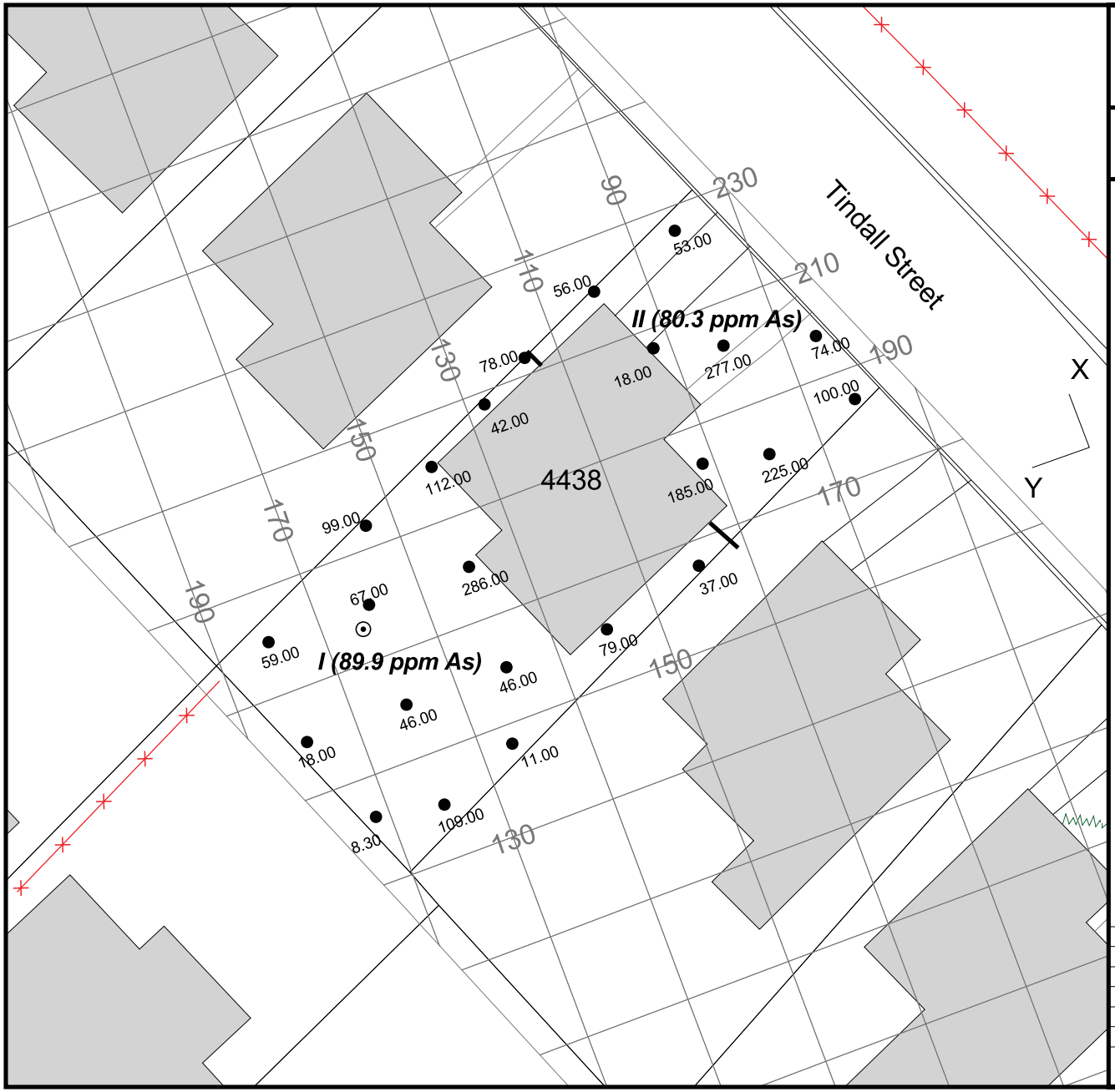
Half Sampled on 11/16/01
Grid Sampled on 2/25/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4438 Tindall St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/24/01
Grid Sampled on 9/25/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4442 Tindall St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/31/01
Grid Sampled on 10/29/01

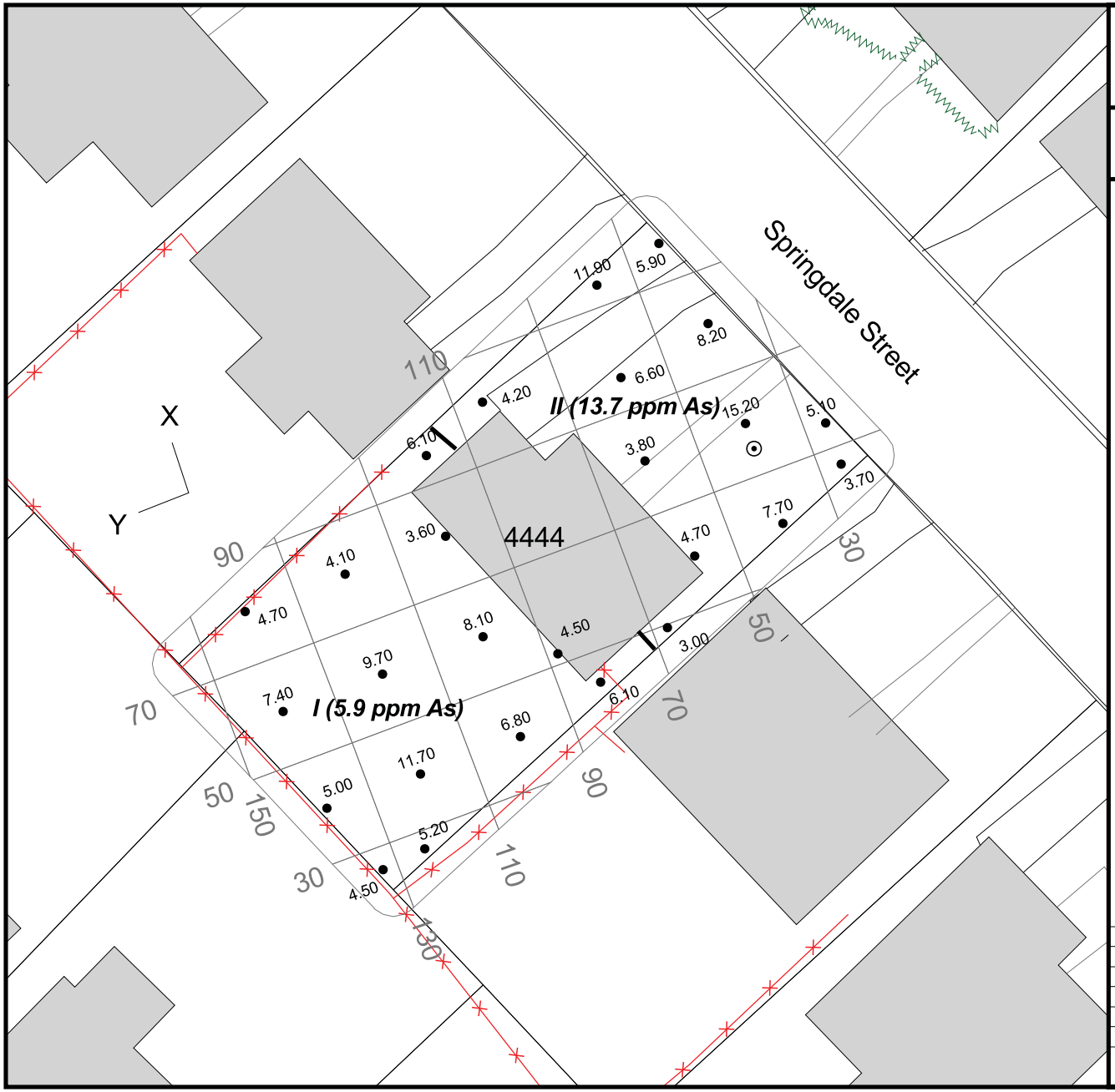
30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
4444 Springdale St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

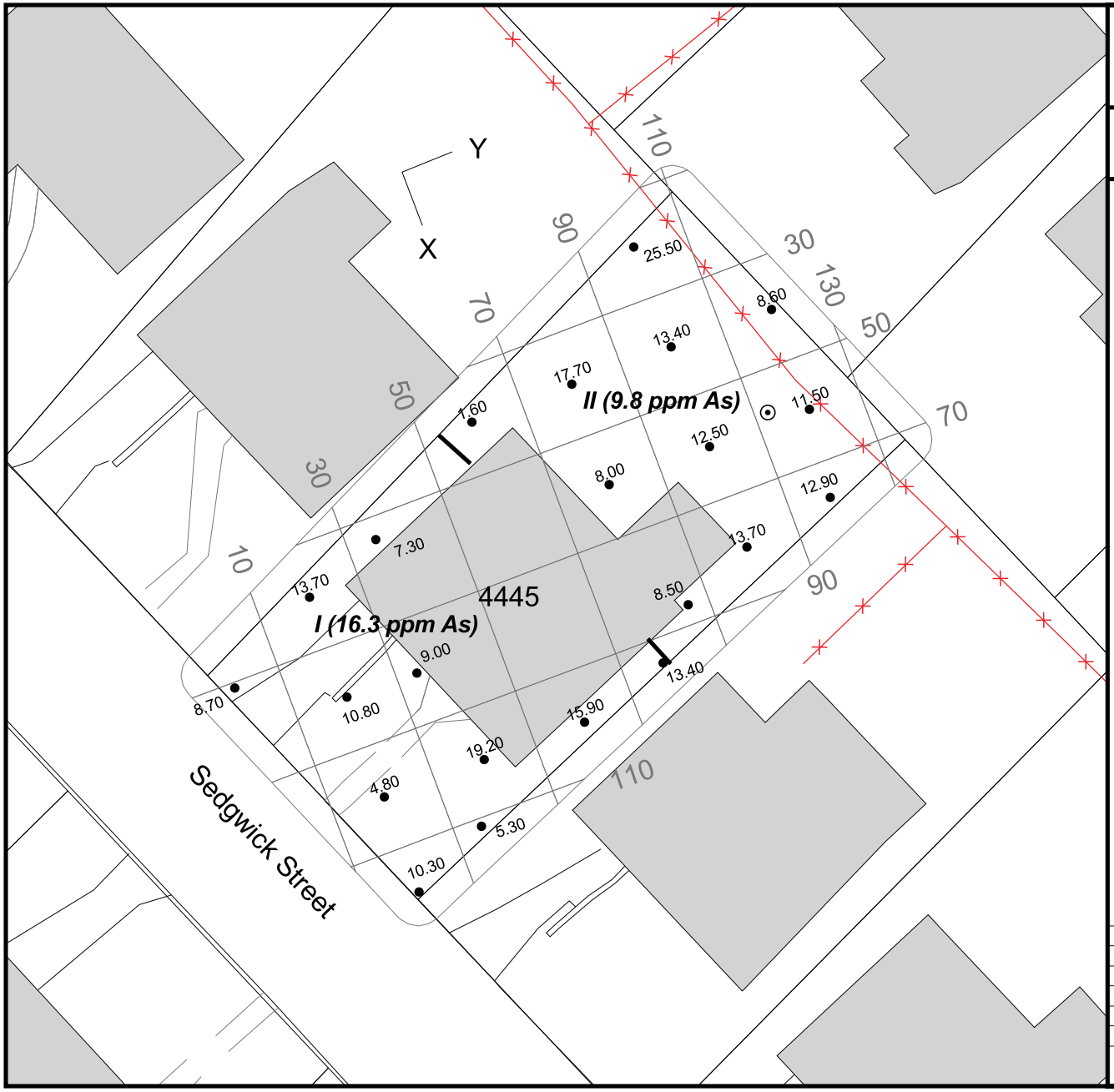
Half Sampled on 7/13/01
Grid Sampled on 9/17/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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PARSONS



Final Grid Sampling Results
4445 Sedgwick St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/17/01
Grid Sampled on 11/8/01

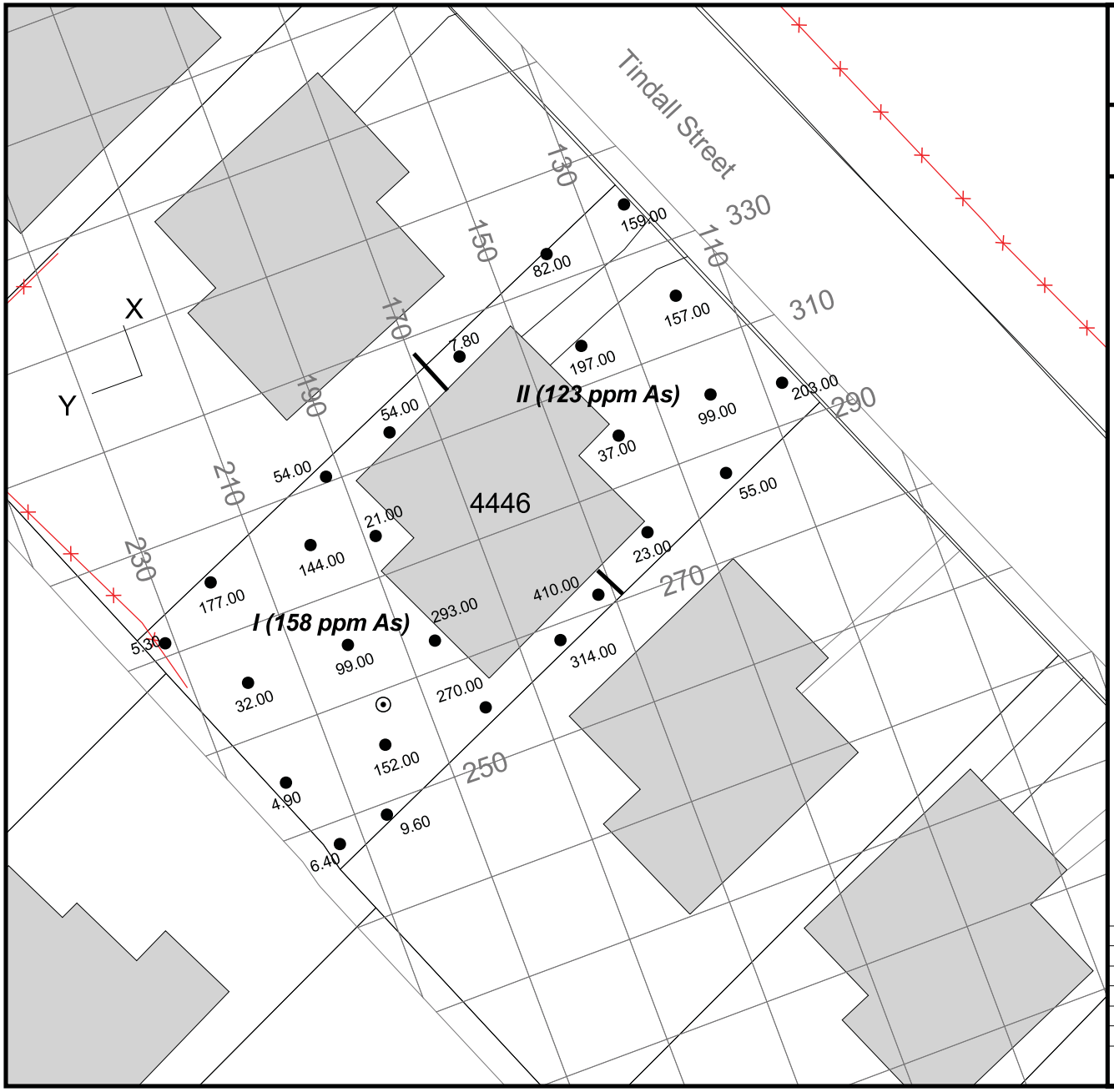
30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
4446 Tindall St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/24/01
Grid Sampled on 9/25/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4447 Springdale St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

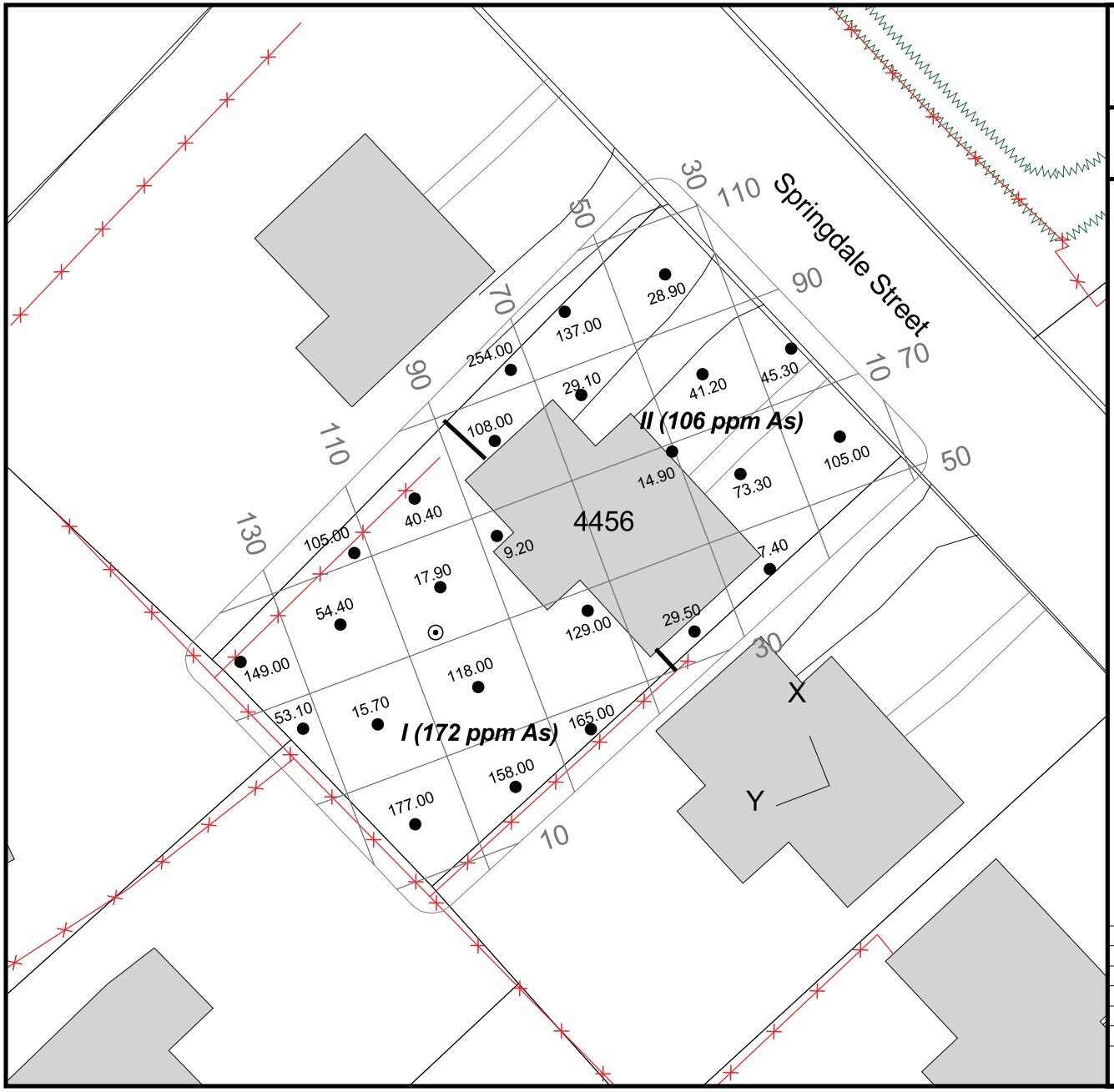
Half Sampled on 10/12/01
Grid Sampled on 1/23/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4456 Springdale St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 10/26/01
Grid Sampled on 11/26/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4457 Sedgwick St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

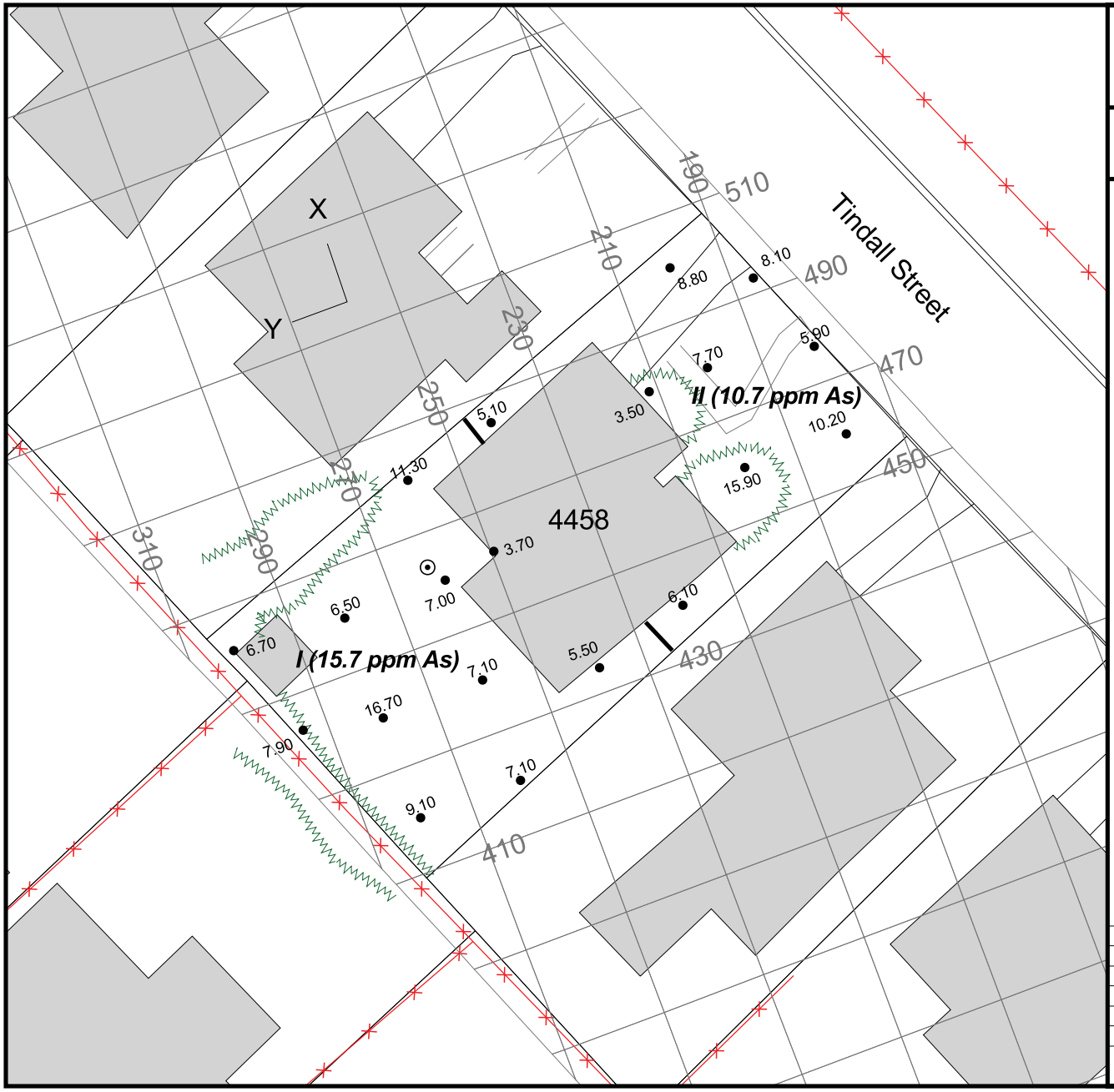
Half Sampled on 8/17/01
Grid Sampled on 11/8/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4458 Tindall St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 11/9/01
Grid Sampled on 1/22/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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PARSONS

N W E S



Final Grid Sampling Results
4460 Springdale Street (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Grid Samples
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 12/5/01
Grid Sampled on 6/10/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4462 Tindall Street (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

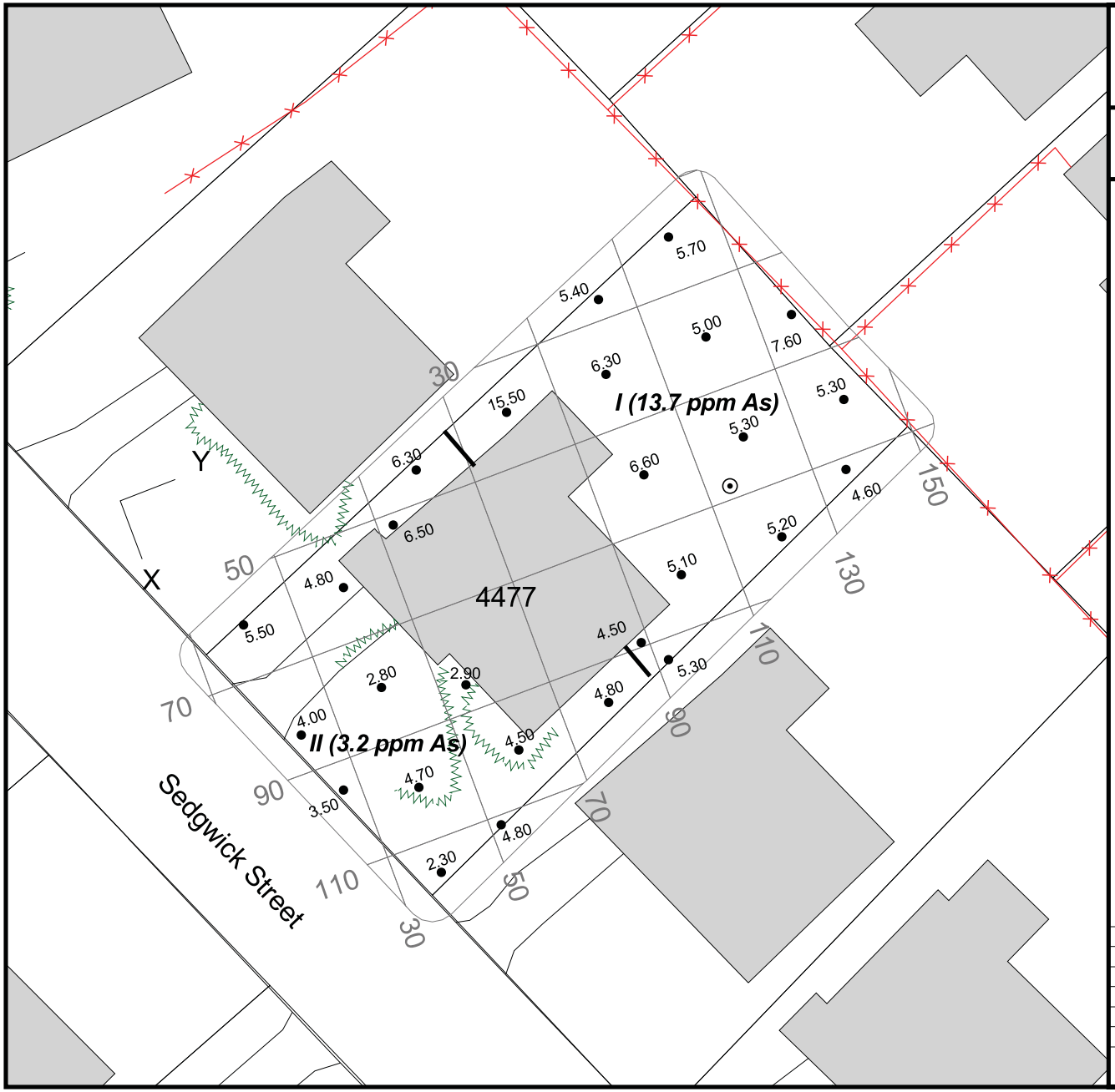
Half Sampled on 7/24/01
Grid Sampled on 11/6/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4477 Sedgwick St (CSA 8)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 11/20/01
Grid Sampled on 2/26/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4615 Rodman St (CSA 10)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

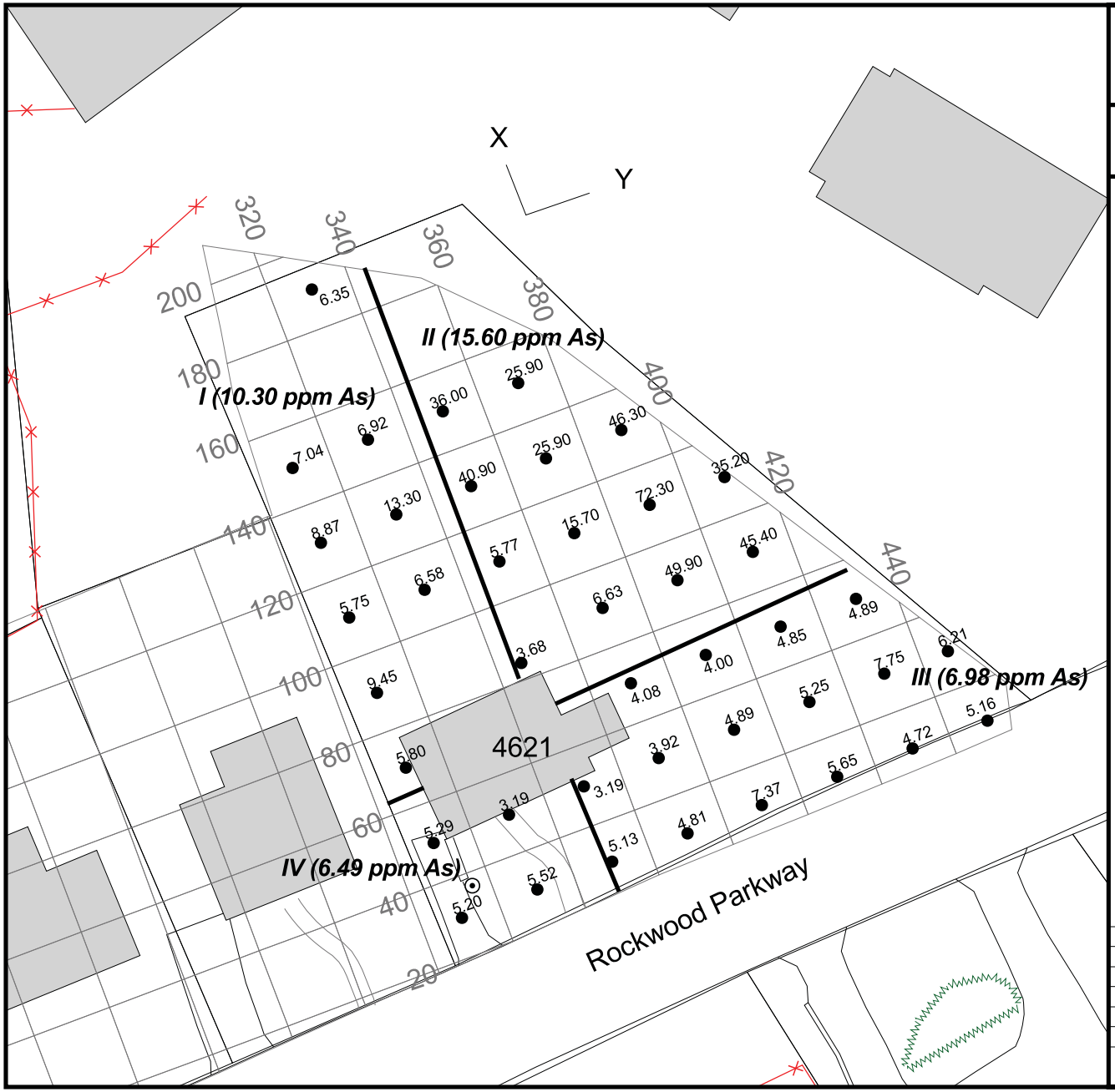
Half Date Sampled on 8/24/01
Grid Date Sampled on 11/1/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4621 Rockwood Pkwy

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Grid Samples
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

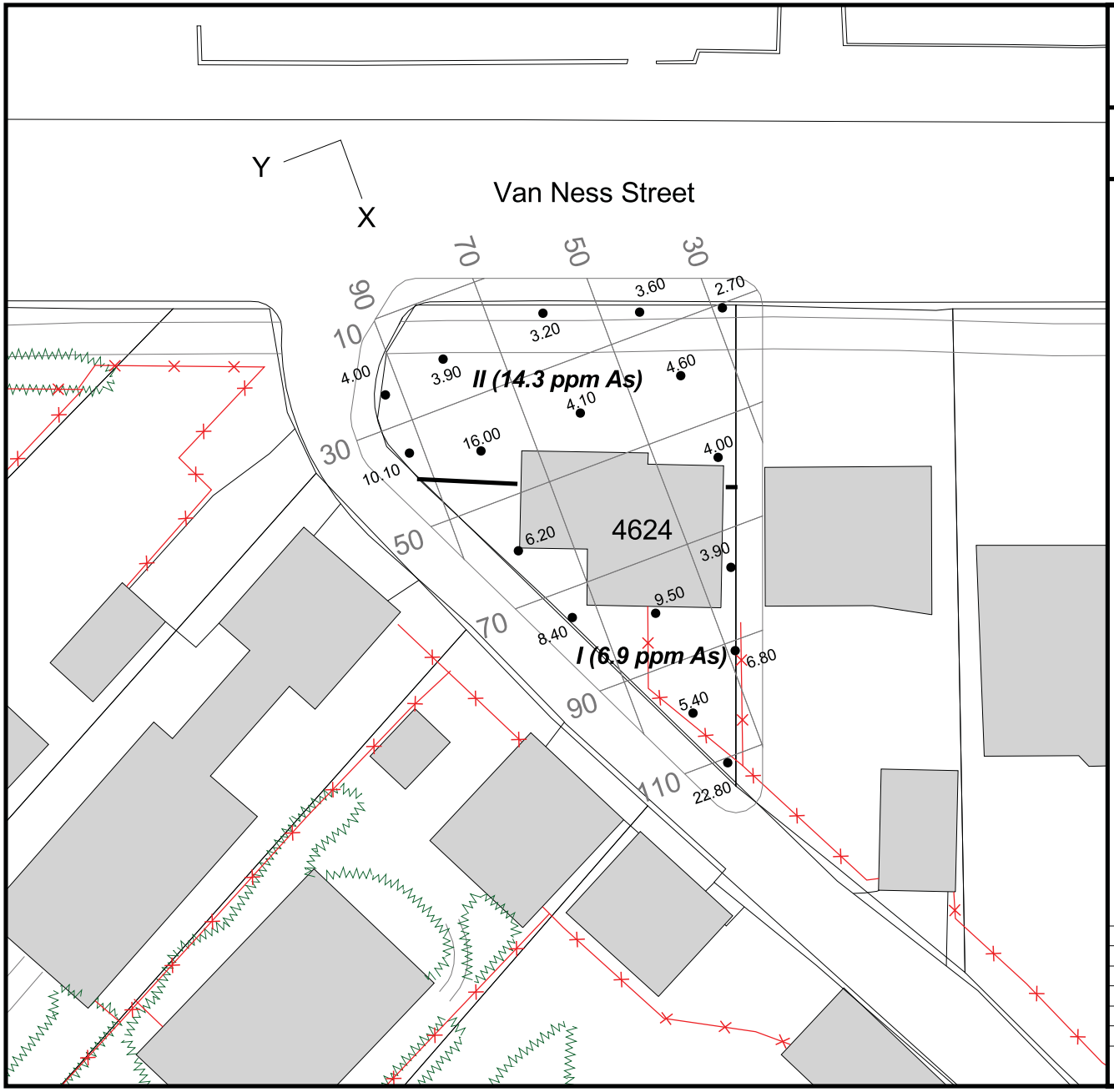
Quadrant Sampled on 9/19/00 - 9/22/00
Grid Sampled on 2/12/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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Final Grid Sampling Results
4624 Van Ness St (CSA 5)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 11/9/01
Grid Sampled on 2/7/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
4625 Rockwood Pkwy

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Grid Samples
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 9/6/00
Grid Sampled on 2/13/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4625 Sedgwick St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/25/01
Grid Sampled on 12/6/01

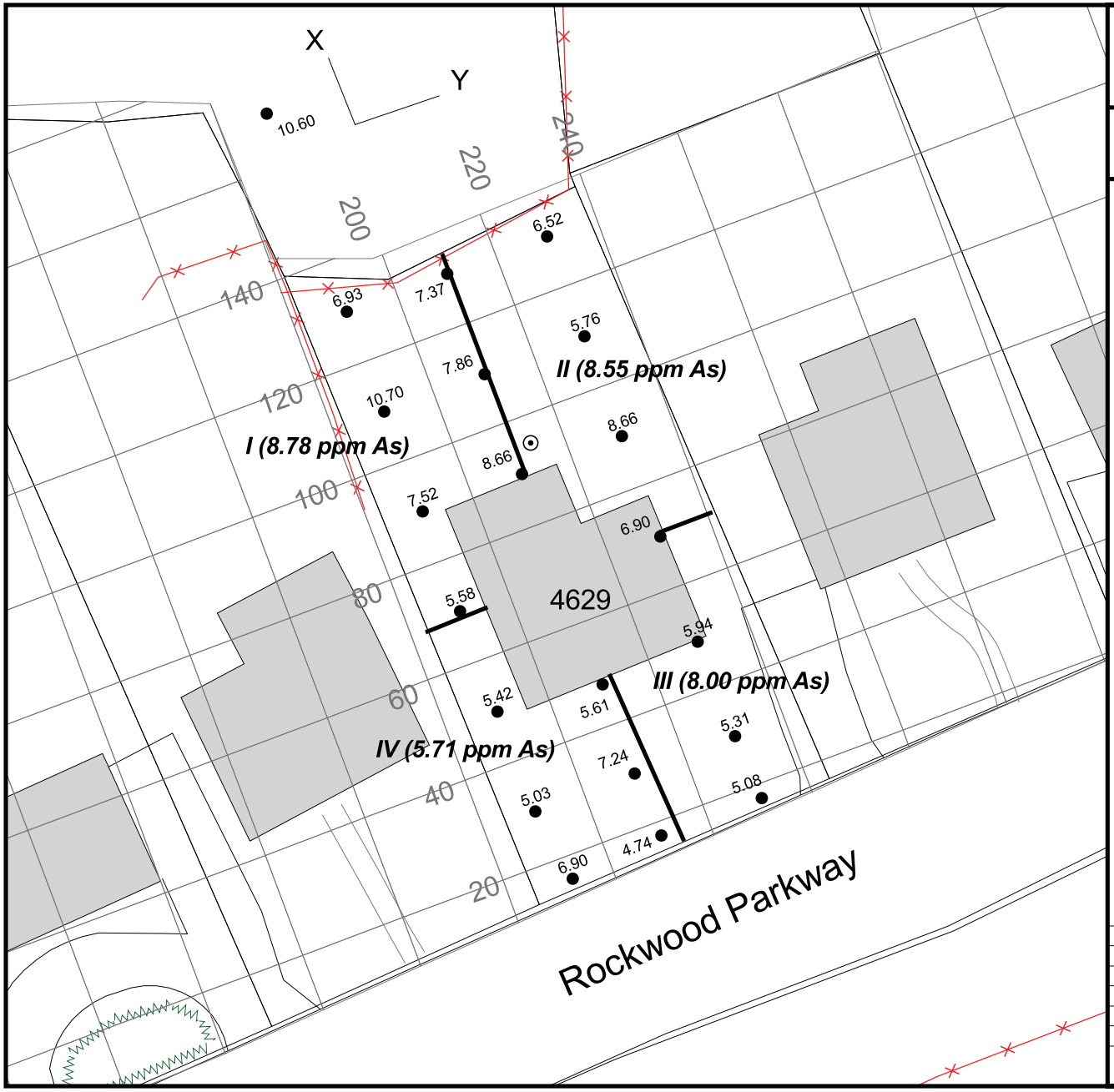
30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

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Final Grid Sampling Results
4629 Rockwood Pkwy

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Grid Samples
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 8/25/00
Grid Sampled on 2/12/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4633 Rockwood Pkwy

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Grid Samples
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 9/22/00
Grid Sampled on 2/13/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4637 Rockwood Pkwy

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Grid Samples
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

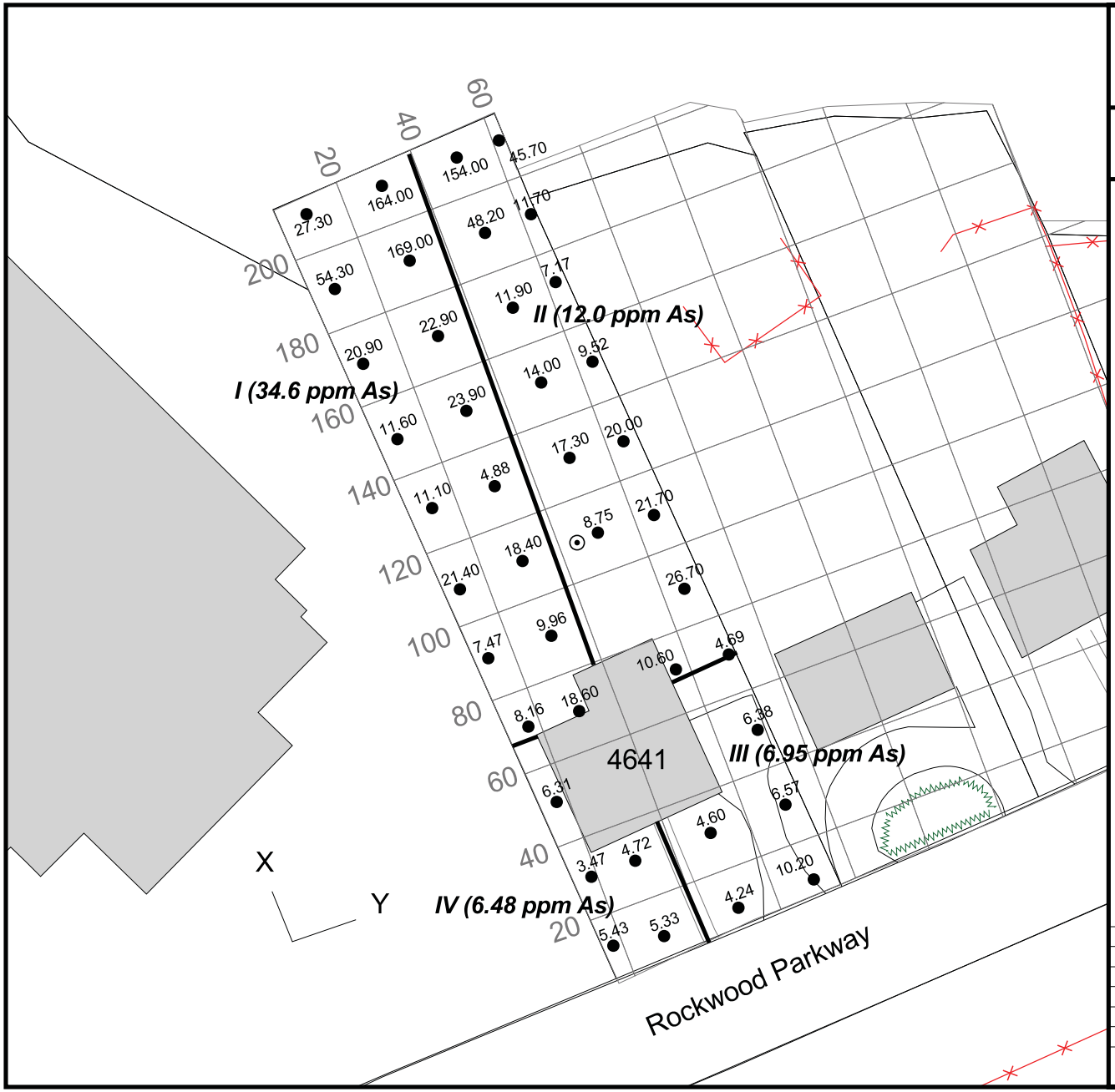
Quadrant Sampled on 9/22/00
Grid Sampled on 2/14/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4641 Rockwood Pkwy

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Grid Samples
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

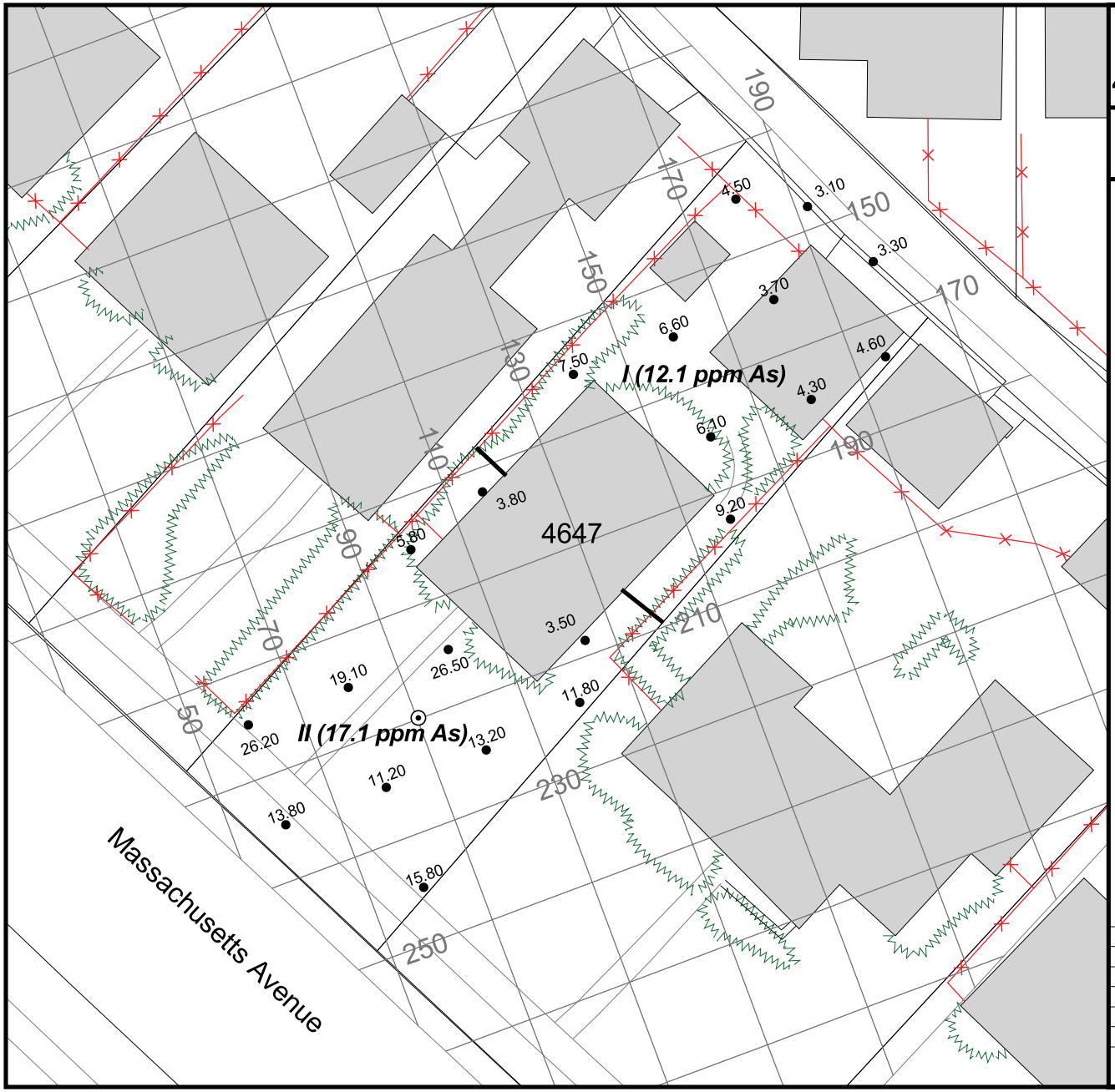
Quadrant Sampled on 9/6/00
Grid Sampled on 2/14/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4647 Massachusetts Ave (CSA 5)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

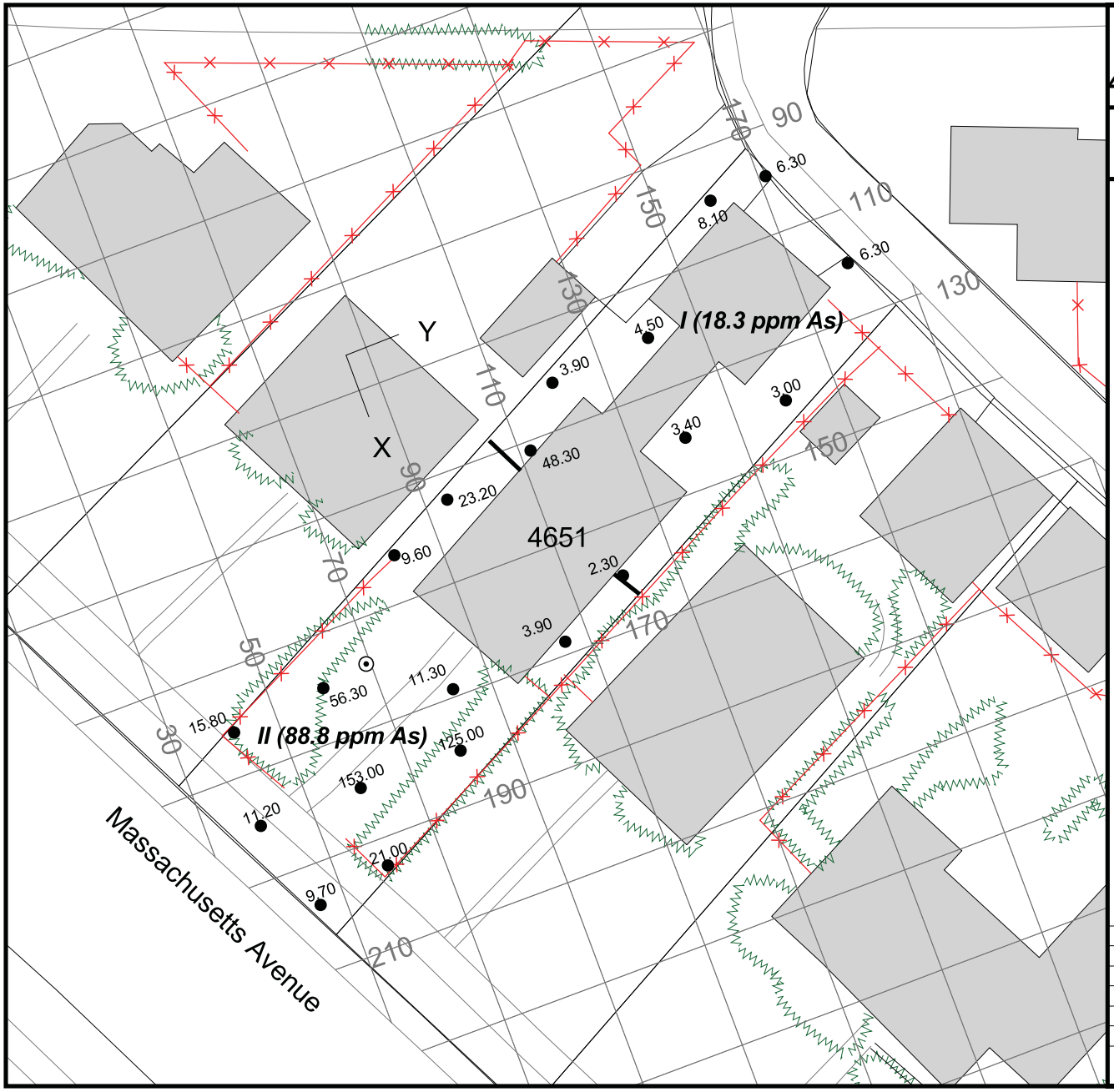
Half Sampled on 7/25/01
Grid Sampled on 11/9/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4651 Massachusetts Ave (CSA 5)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

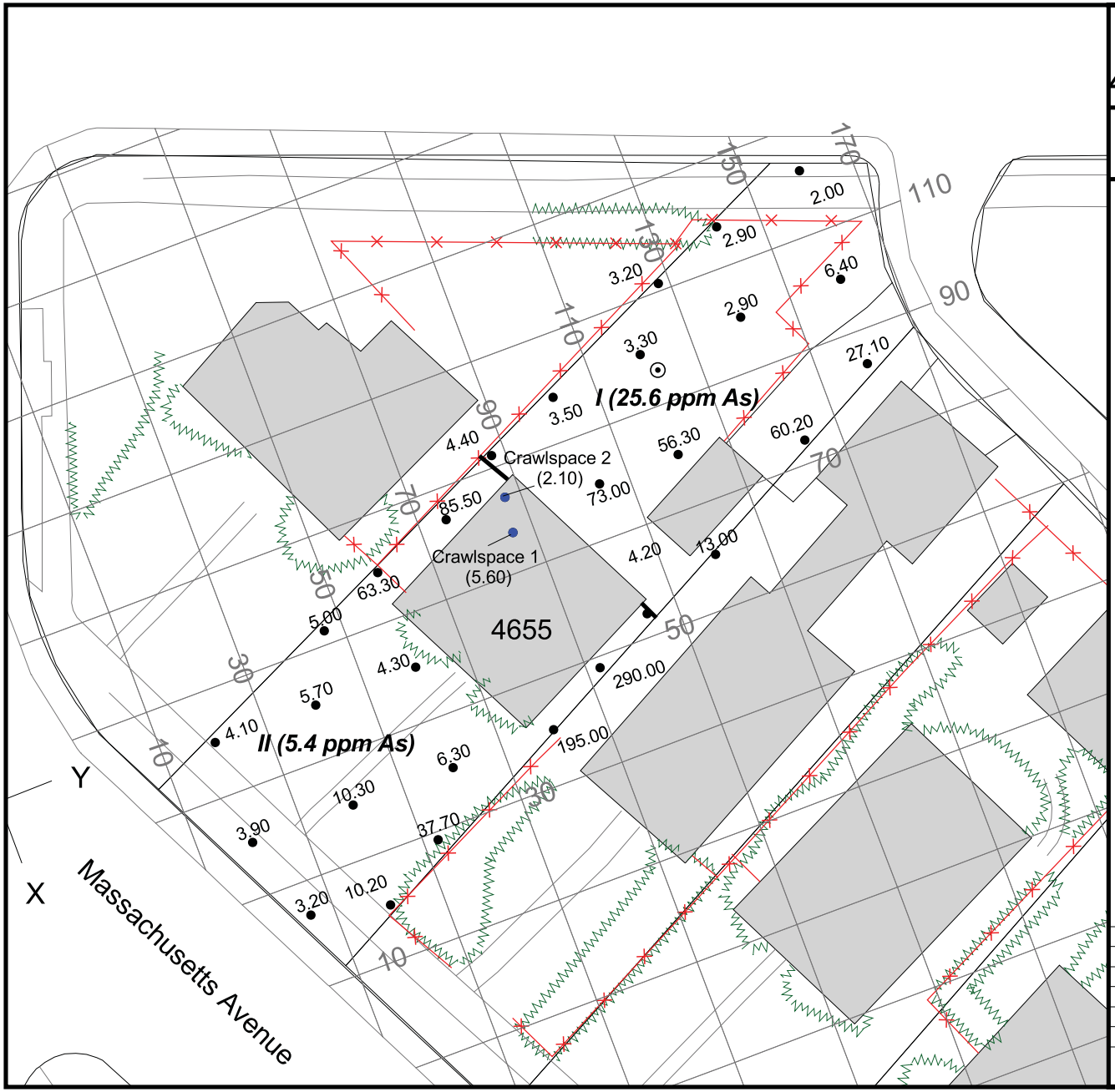
Half Sampled on 7/25/01
Grid Sampled on 10/30/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4655 Massachusetts Ave (CSA 5)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Sidewalk
- Roads
- Driveway
- Hedge
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

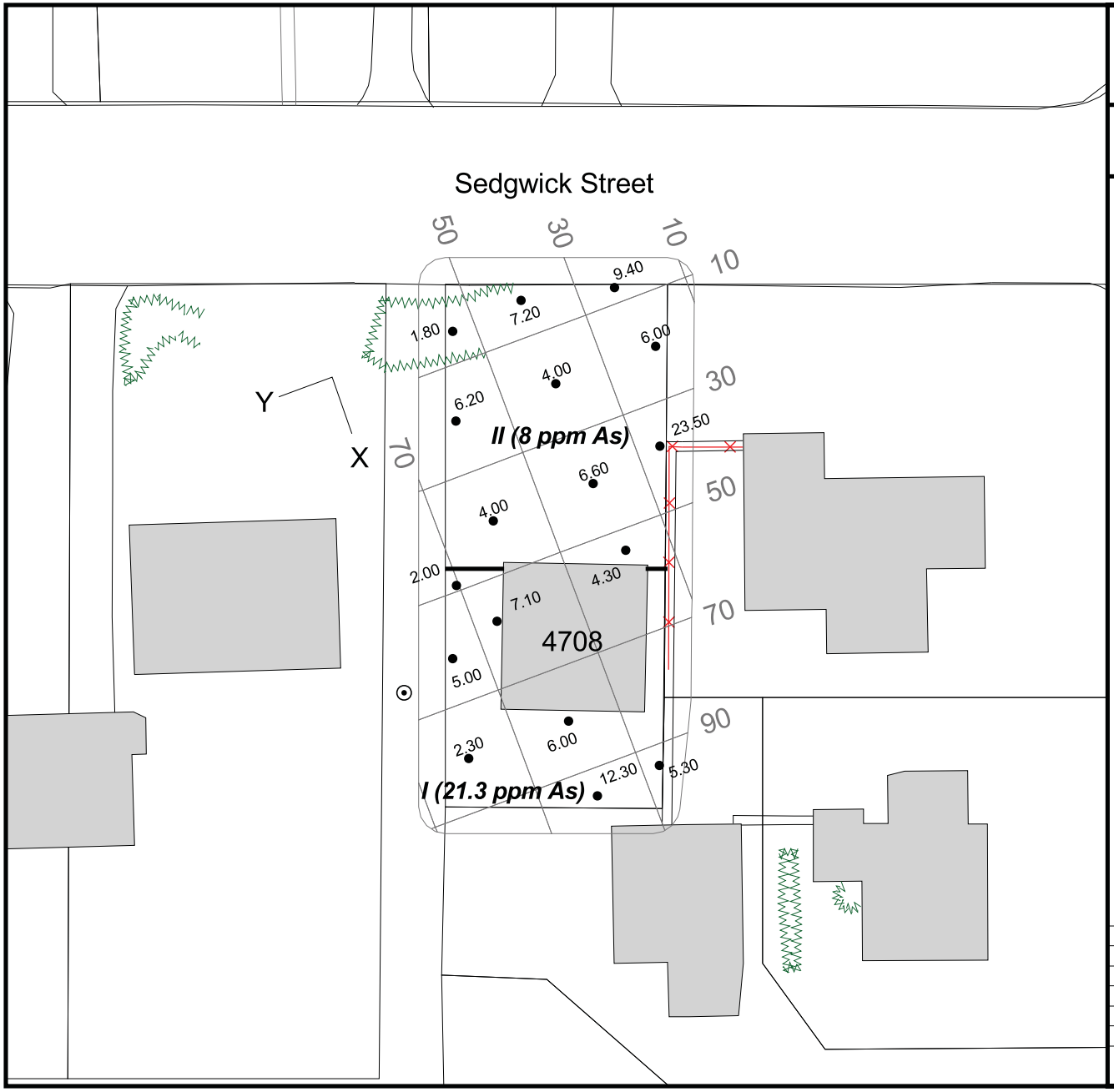
Half Sampled on 8/6/01
Grid Sampled on 10/19/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4708 Sedgwick St (CSA 10)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/27/01
Grid Sampled on 11/30/01

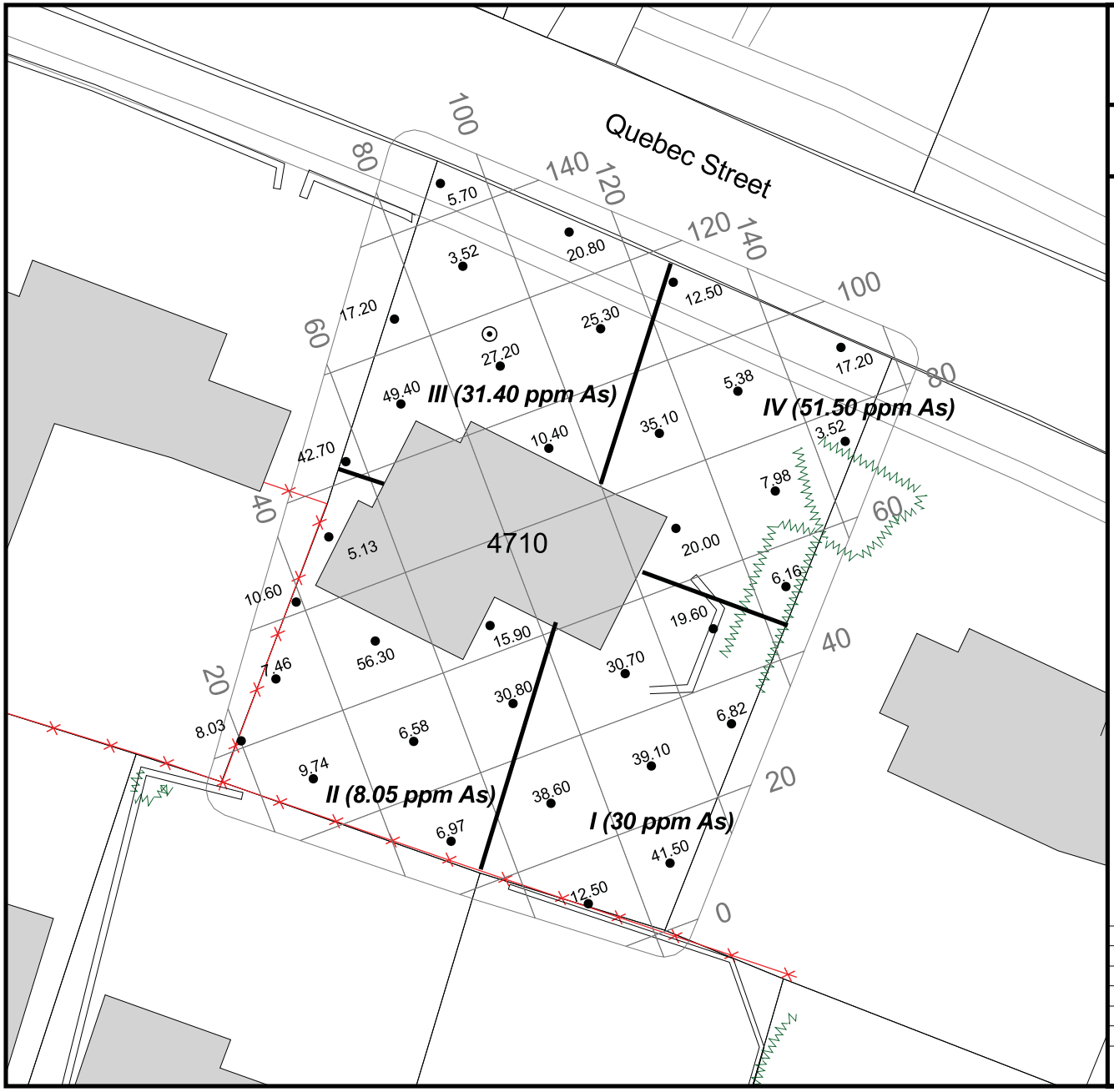
30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
4710 Quebec St

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 4710qs.shp
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

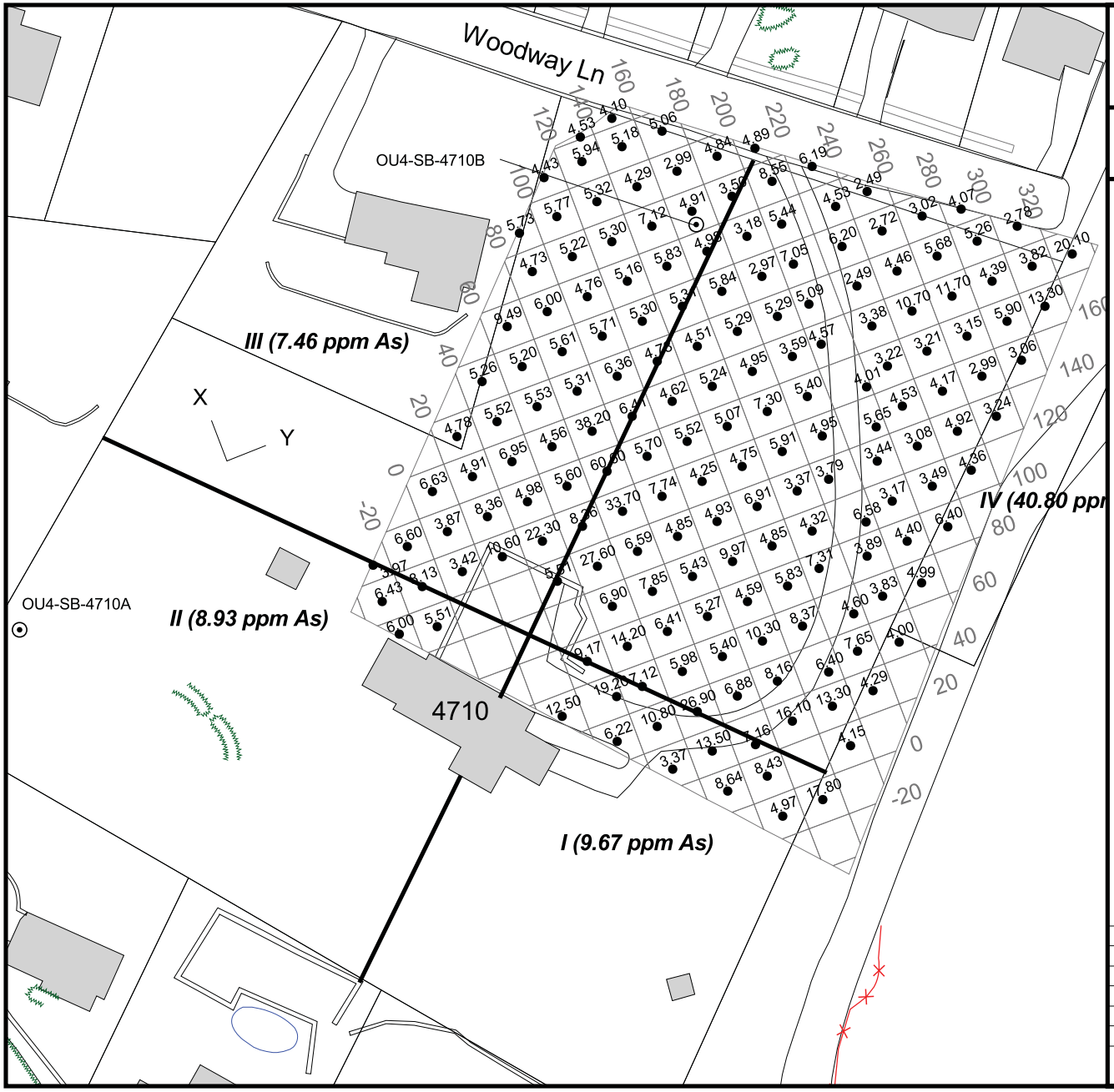
Quadrant Sampled on 9/7/00
Grid Sampled on 2/2/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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PARSONS



Final Grid Sampling Results
4710 Woodway Ln

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Grid Samples
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

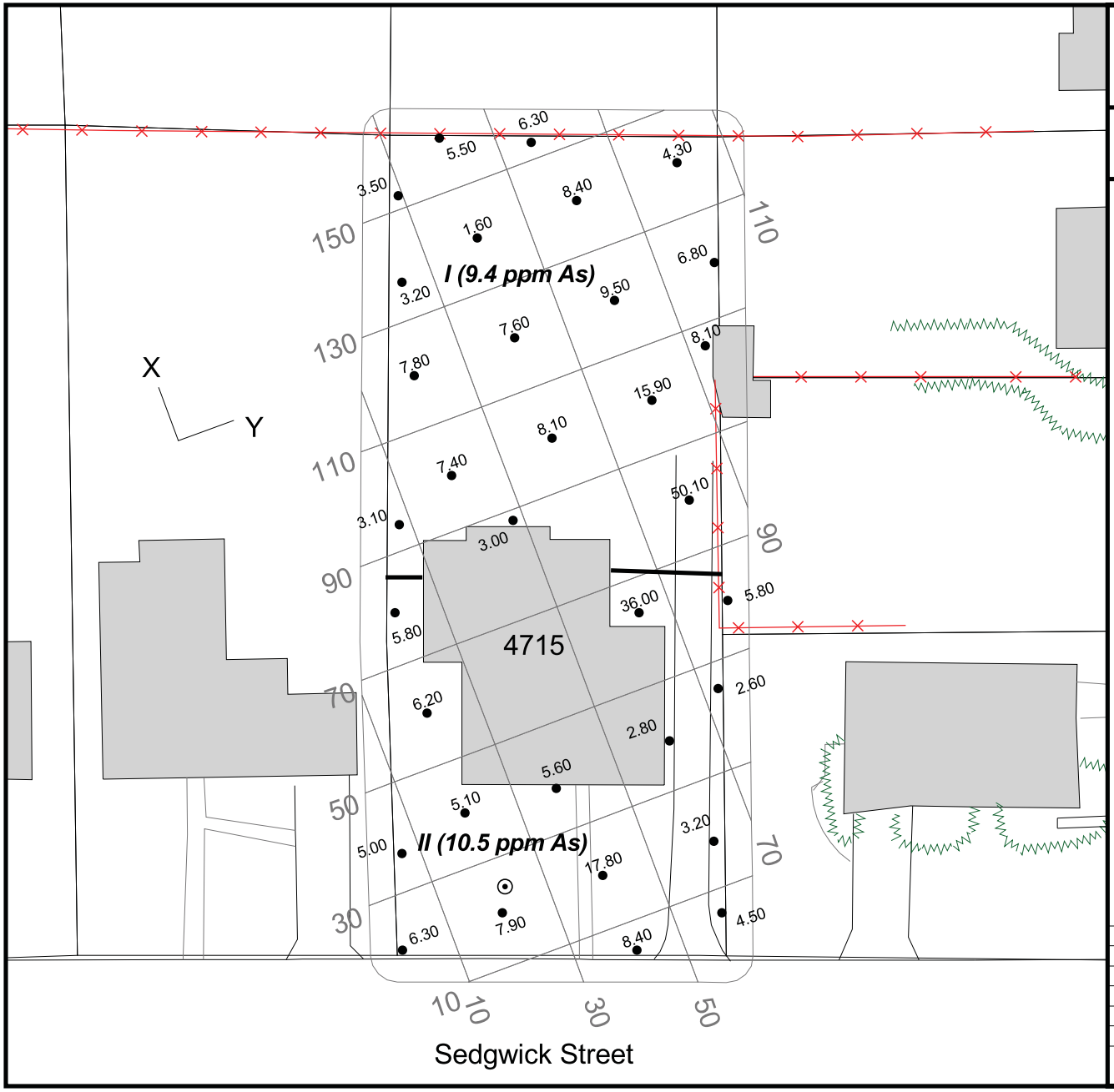
Quadrant Sampled on 9/19/00
Grid Sampled on 2/7/01- 2/12/01

75 0 75 Feet

1 inch = 75 feet

Scale:	1 : 900
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4715 Sedgwick St (CSA 4)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

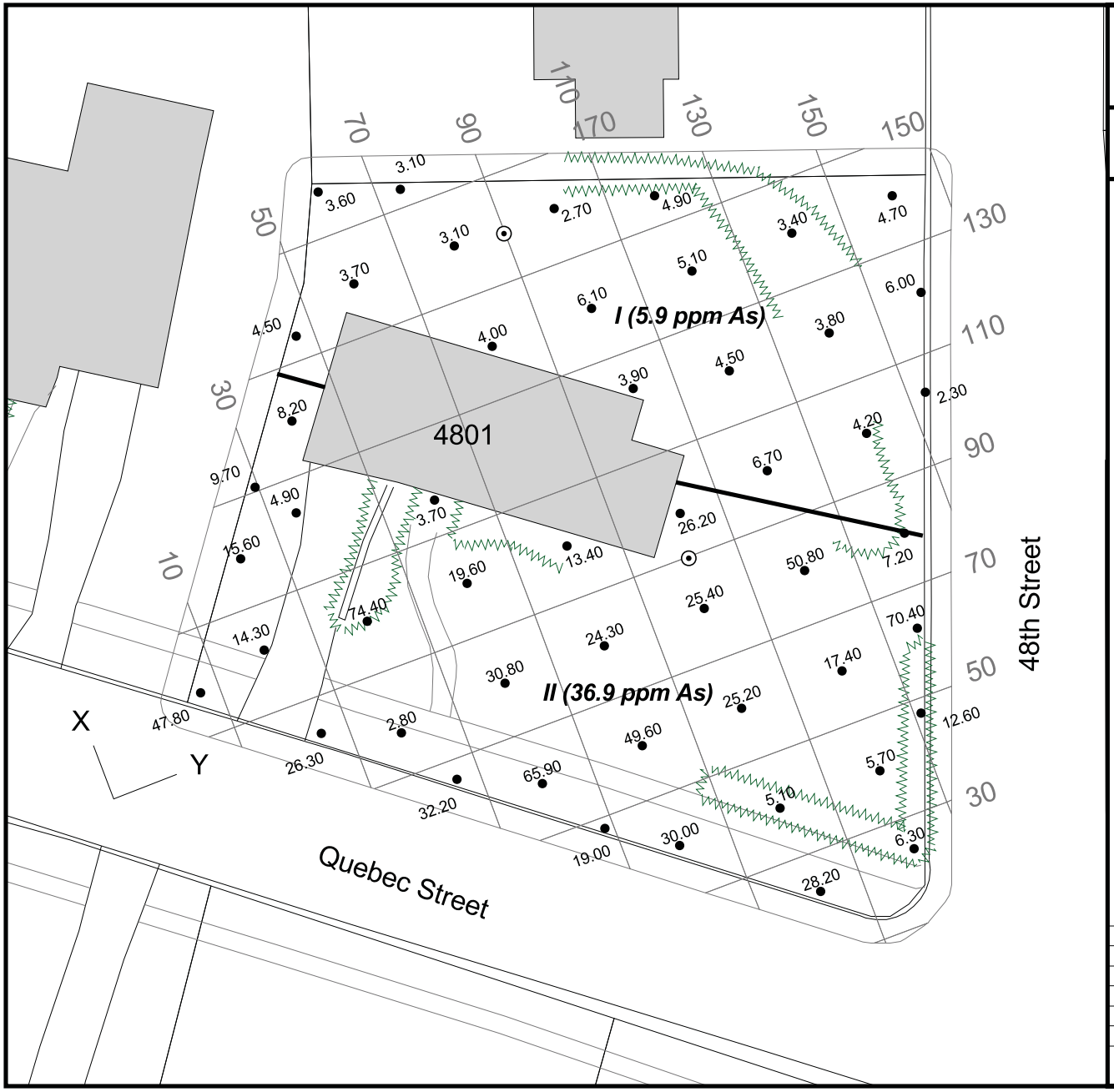
Half Sampled on 7/27/01
Grid Sampled on 12/17/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
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Final Grid Sampling Results
4801 Quebec St (CSA 10)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/29/01
Grid Sampled on 1/2/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4810 Glenbrook Rd

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

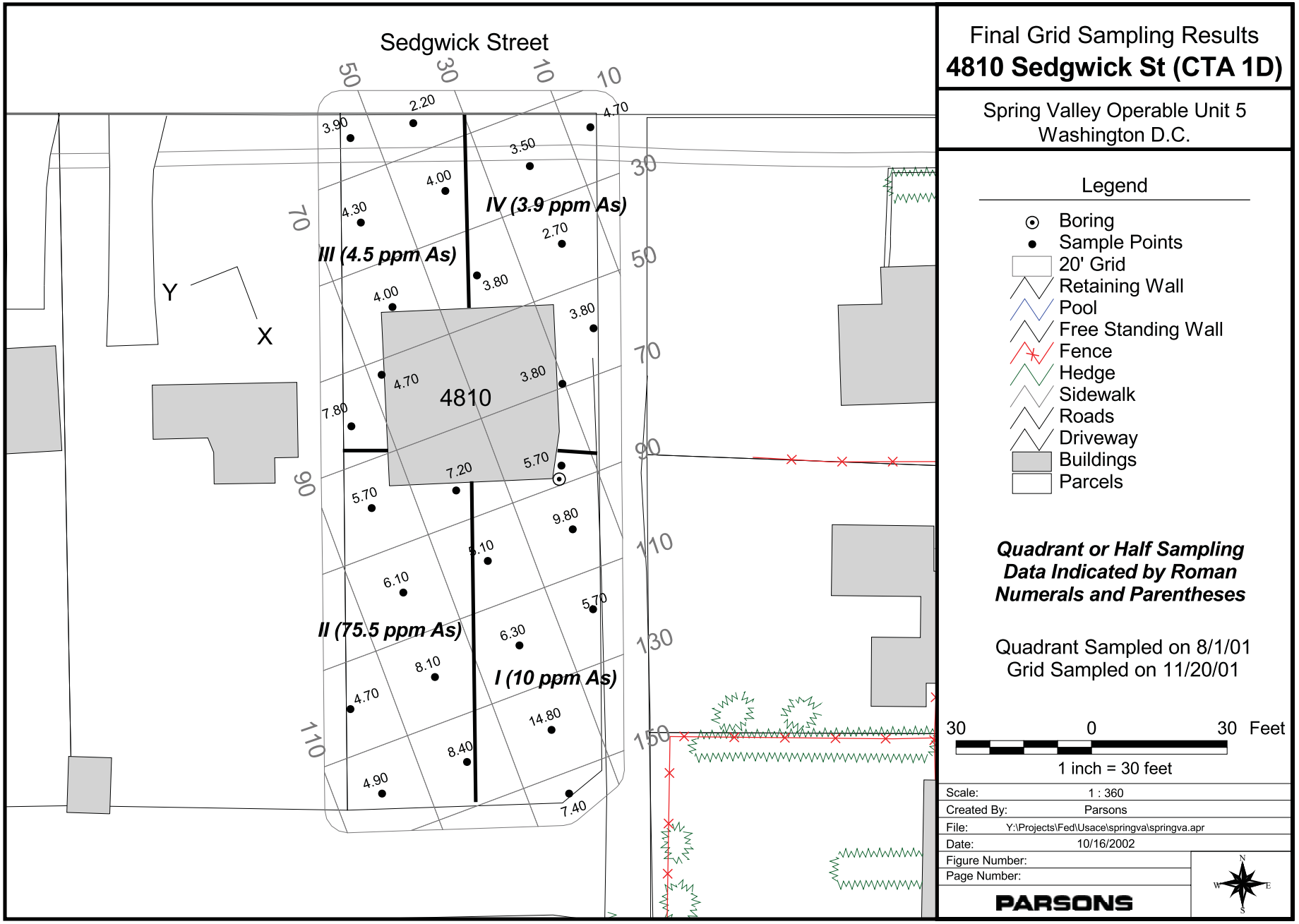
Quadrant Sampled on 1/7/02
Grid Sampled on 4/23/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4810 Sedgwick St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 8/1/01
Grid Sampled on 11/20/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4813 Quebec St (CSA 10)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/6/01
Grid Sampled on 11/5/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4828 Rodman St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 8/14/01
Grid Sampled on 12/13/01

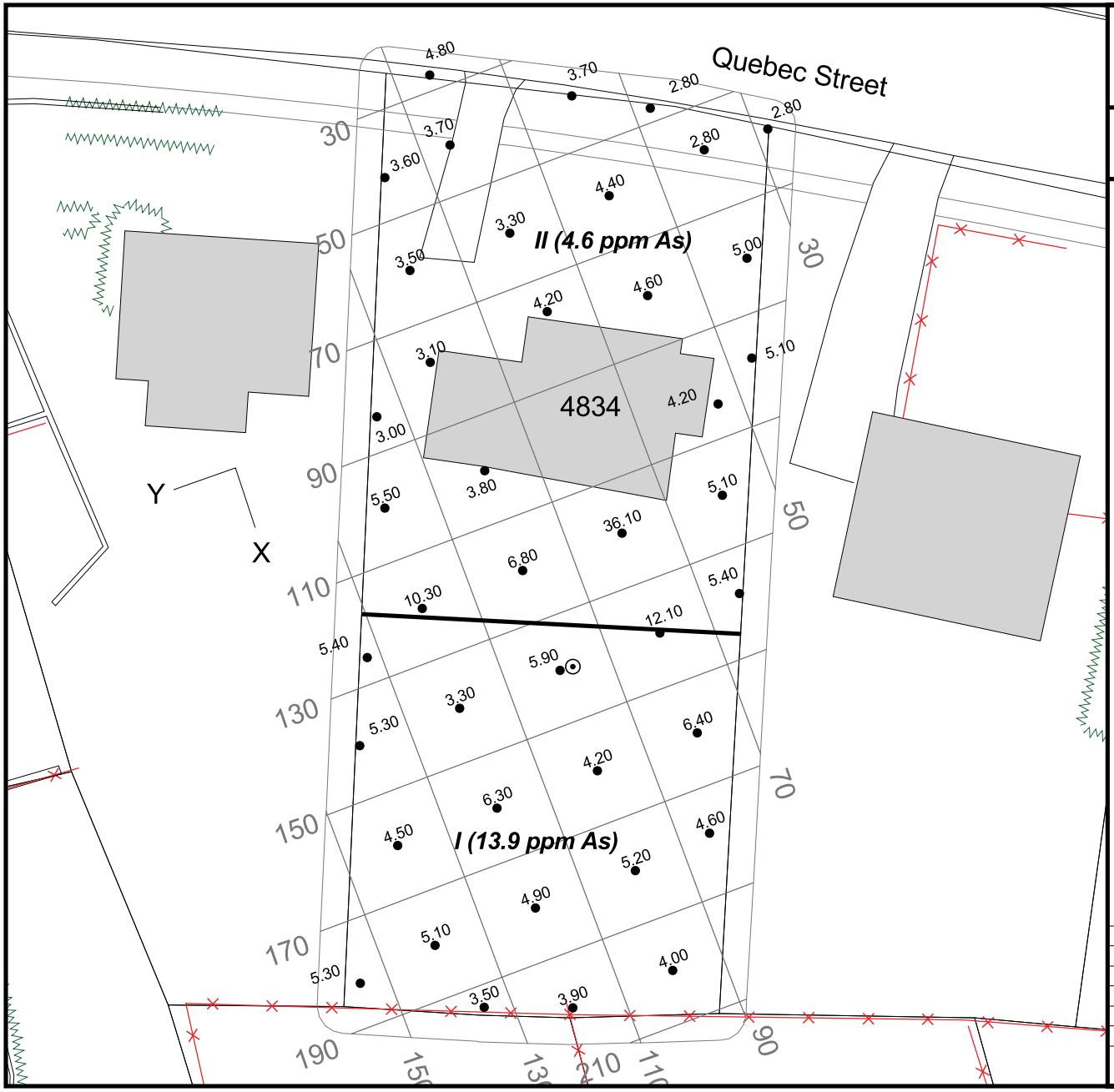
30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
4834 Quebec St (CSA 10)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 11/14/01
Grid Sampled on 1/30/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
4834 Rodman St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

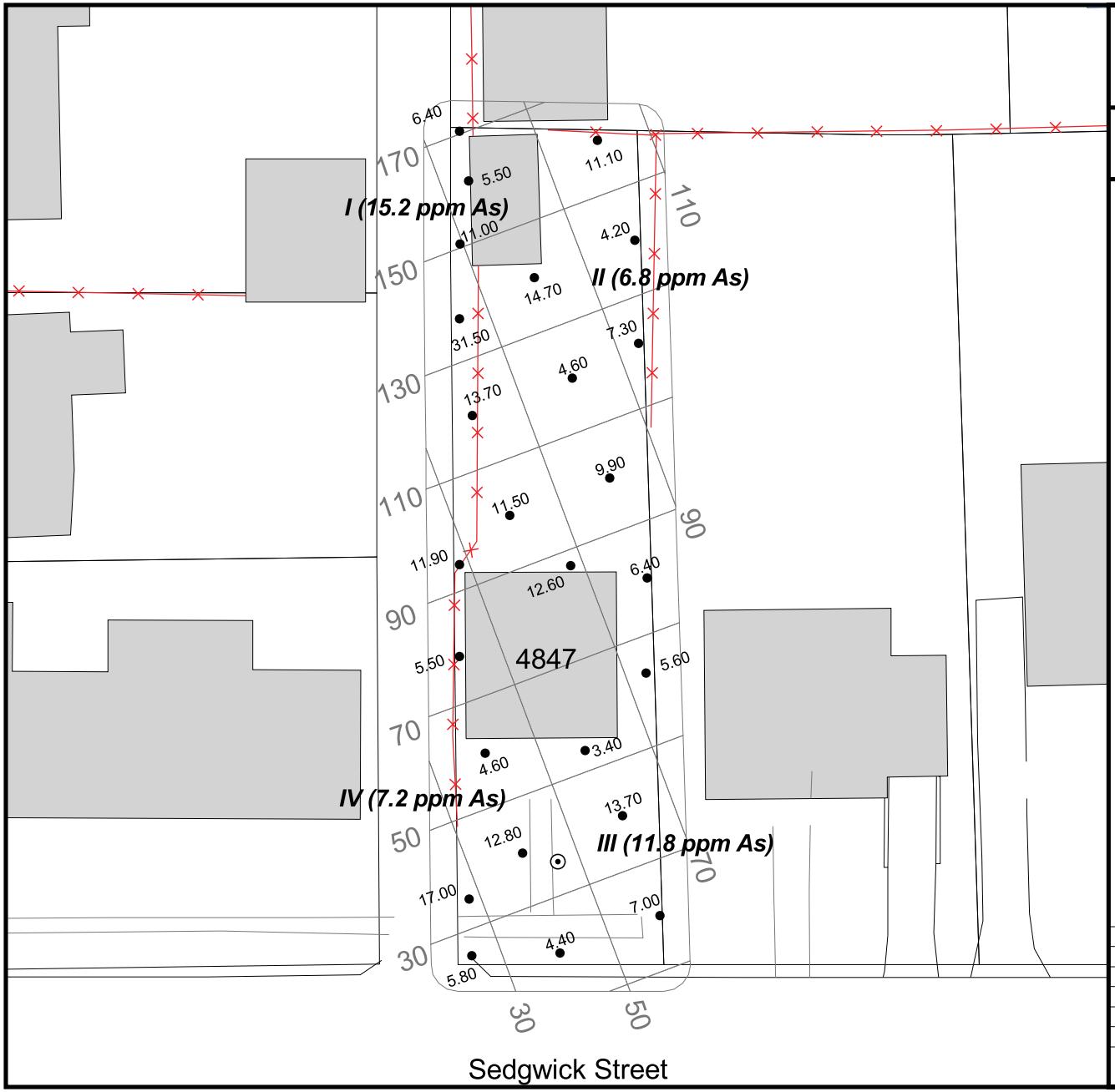
Quadrant Sampled on 7/18/01
Grid Sampled on 11/6/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4847 Sedgwick St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

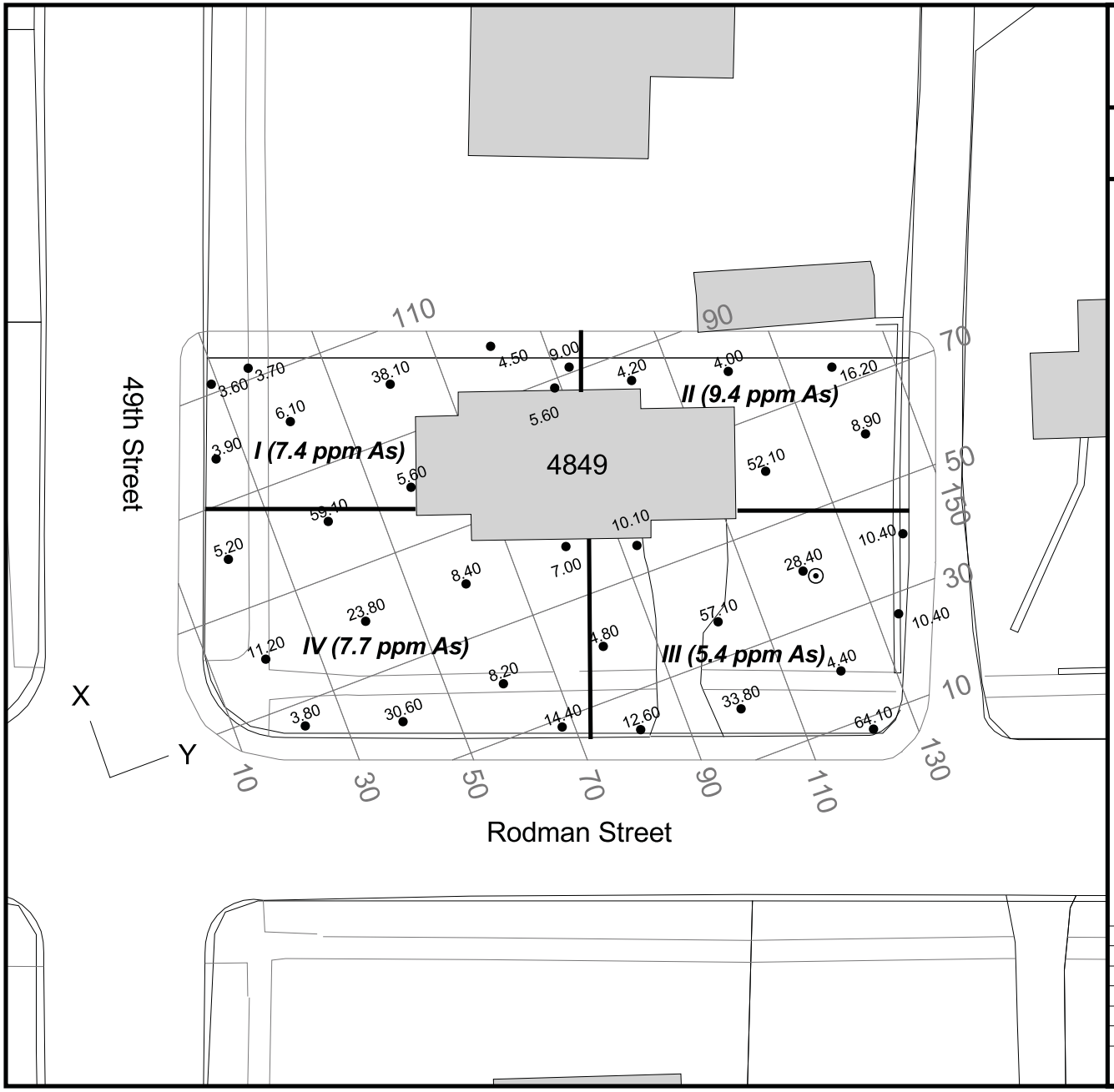
Quadrant Sampled on 7/10/01
Grid Sampled on 1/23/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4849 Rodman St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- Buildings
- 20' Grid
- Retaining Wall
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

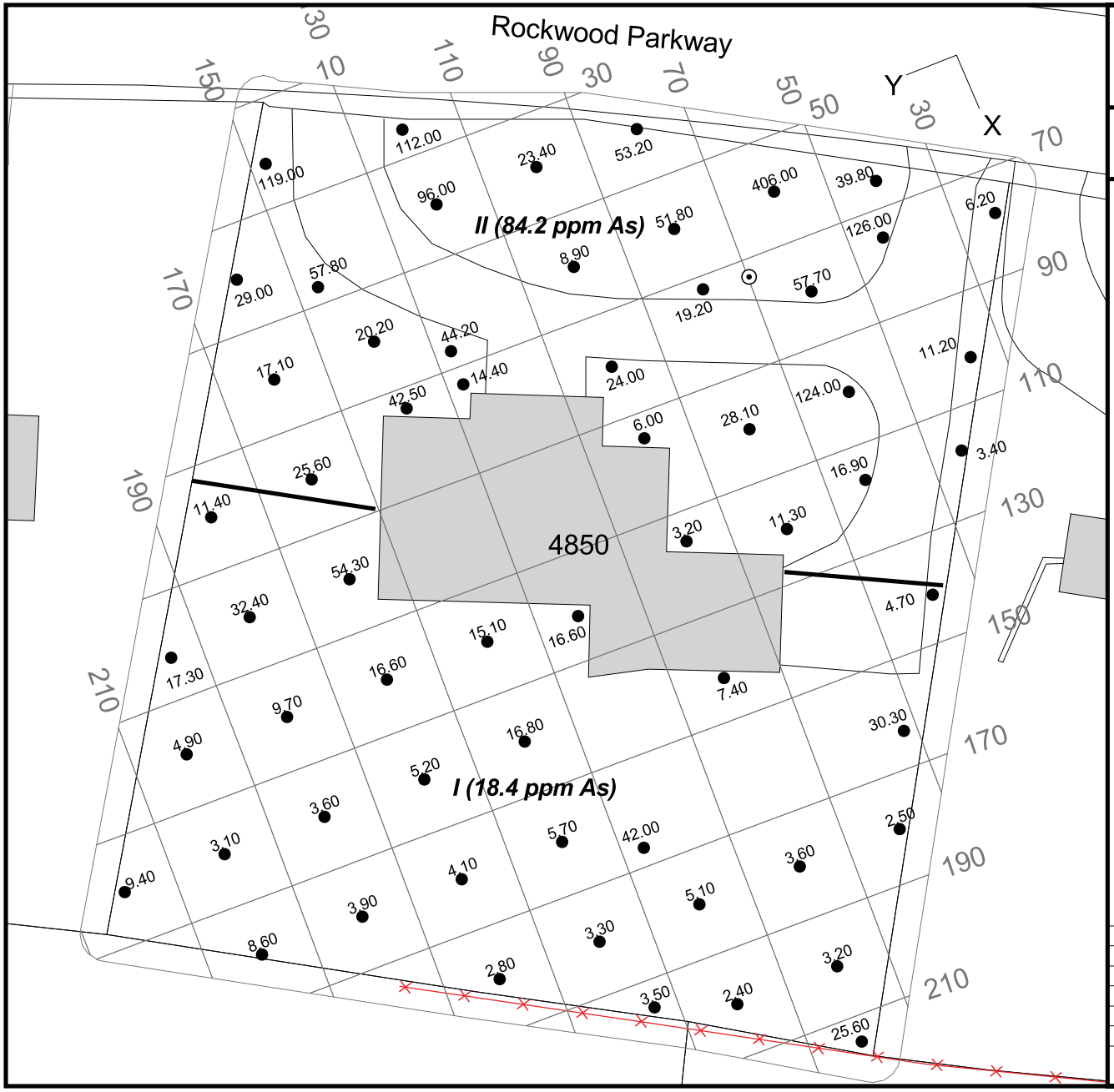
Quadrant Sampled on 4/24/02
Grid Sampled on 9/5/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4850 Rockwood Pkwy (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

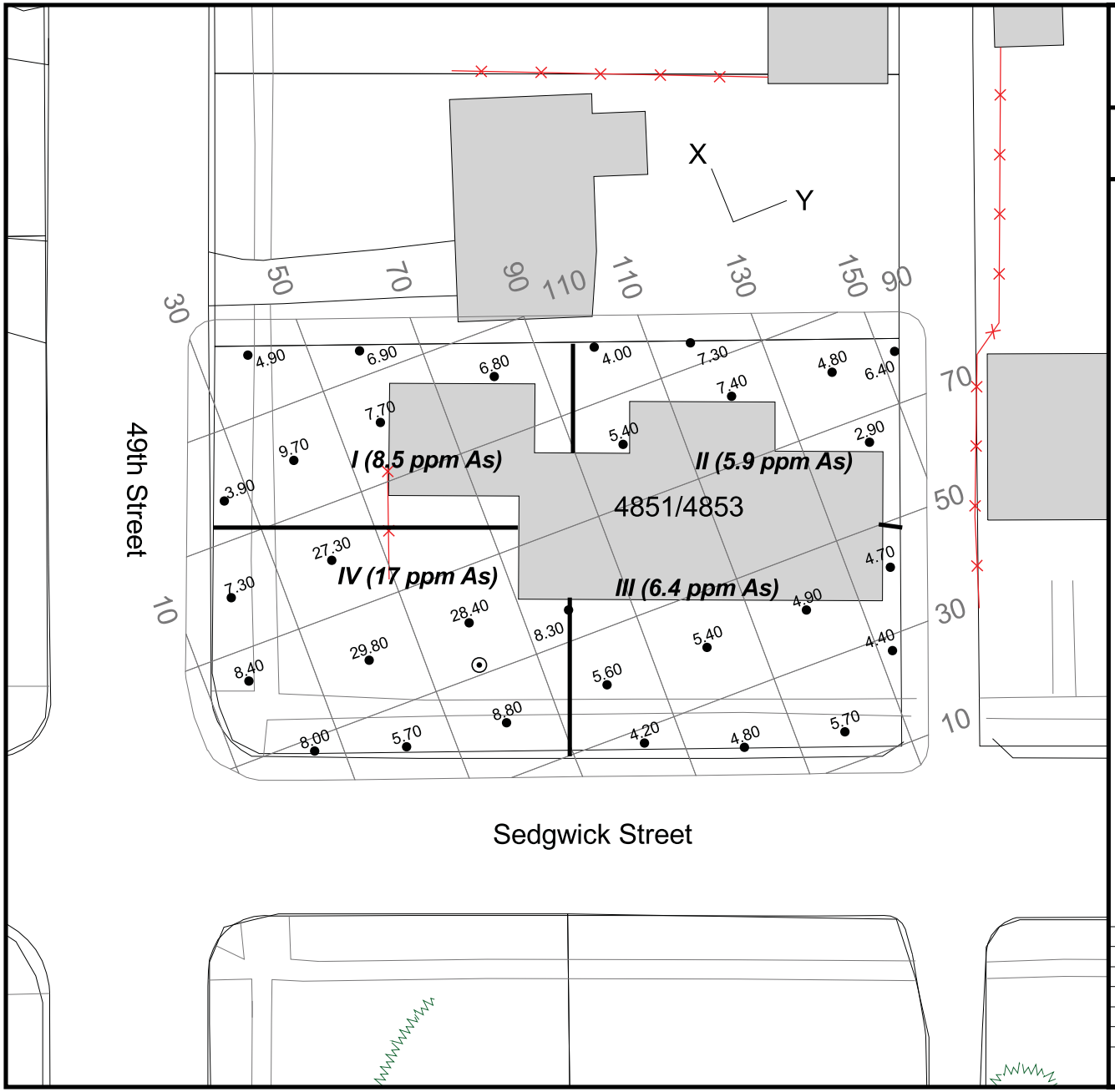
Half Sampled on 7/27/01
Grid Sampled on 10/31/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4853 Sedgwick St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

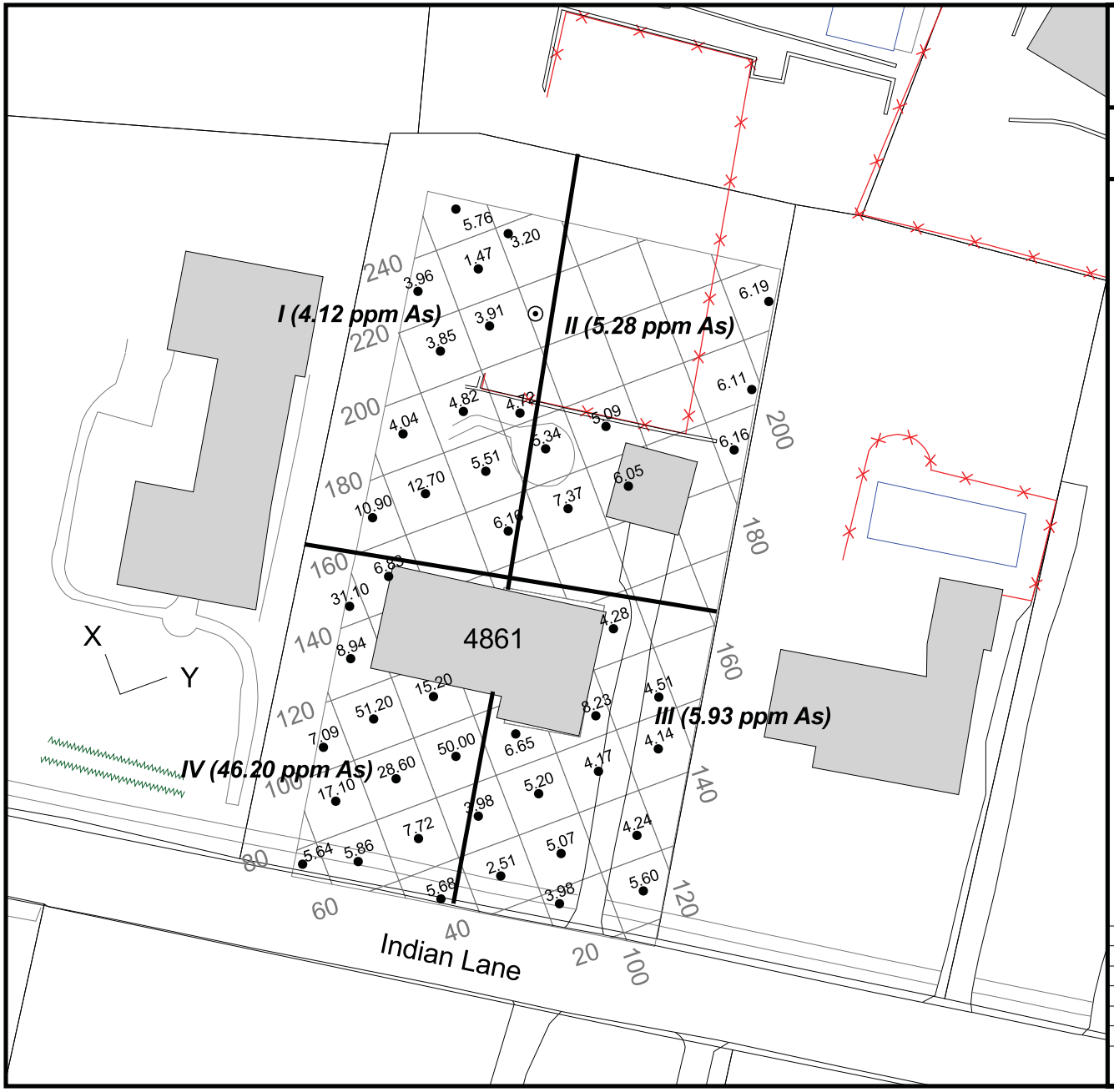
Quadrant Sampled on 7/11/01
Grid Sampled on 12/5/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4861 Indian Ln

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Grid Samples
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- 20' Grid
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 9/1/00
Grid Sampled on 2/1/01

50 0 50 Feet

1 inch = 50 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4871 Glenbrook Road

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 2/1/01
Grid Sampled on 4/17/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons ES
File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4901 Rodman St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/17/01
Grid Sampled on 11/7/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4907 Indian Ln (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 5/31/01
Grid Sampled on 12/31/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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PARSONS



Final Grid Sampling Results
4911 Van Ness St (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

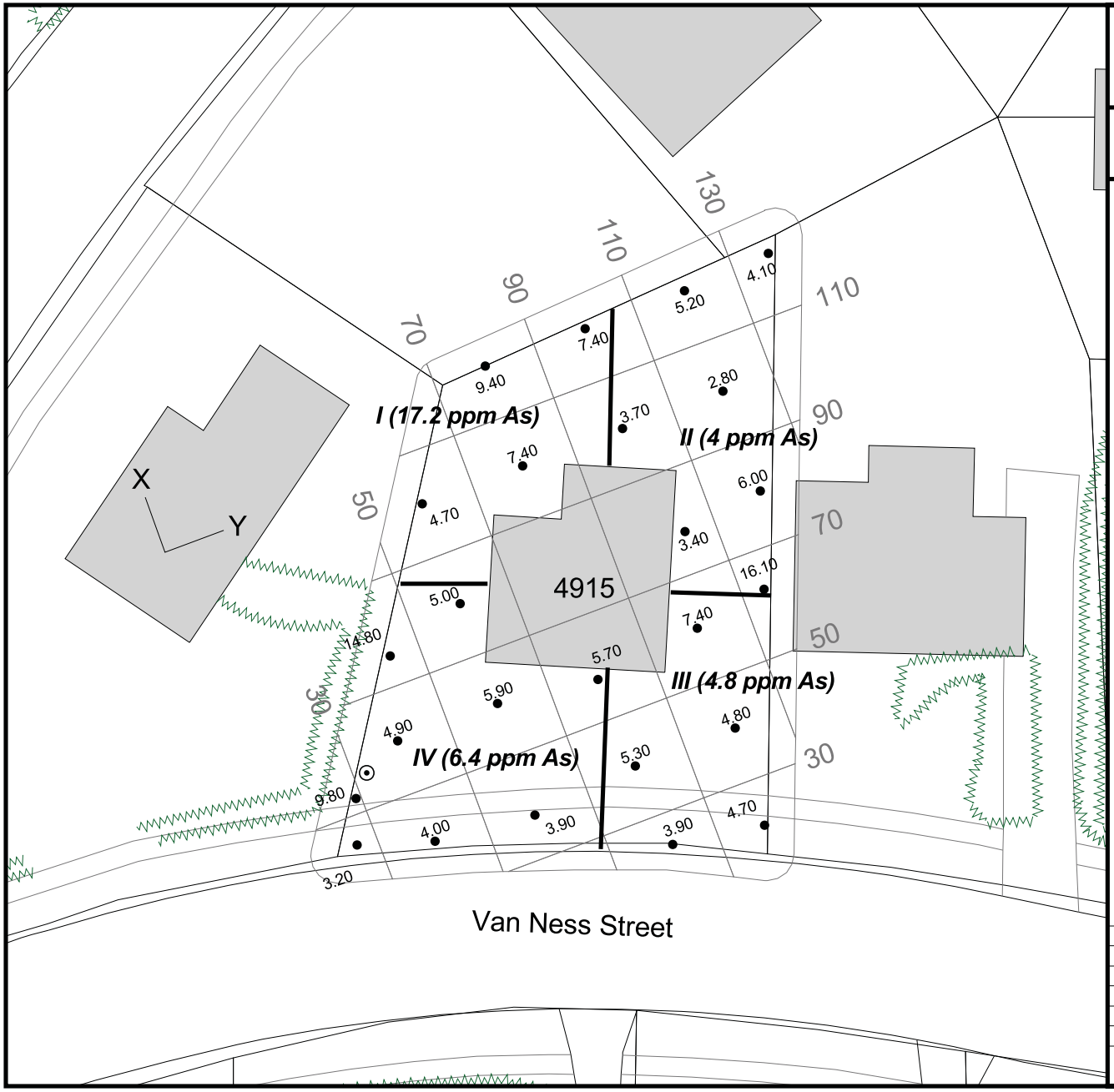
Quadrant Sampled on 6/27/01
Grid Sampled on 1/25/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4915 Van Ness St (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

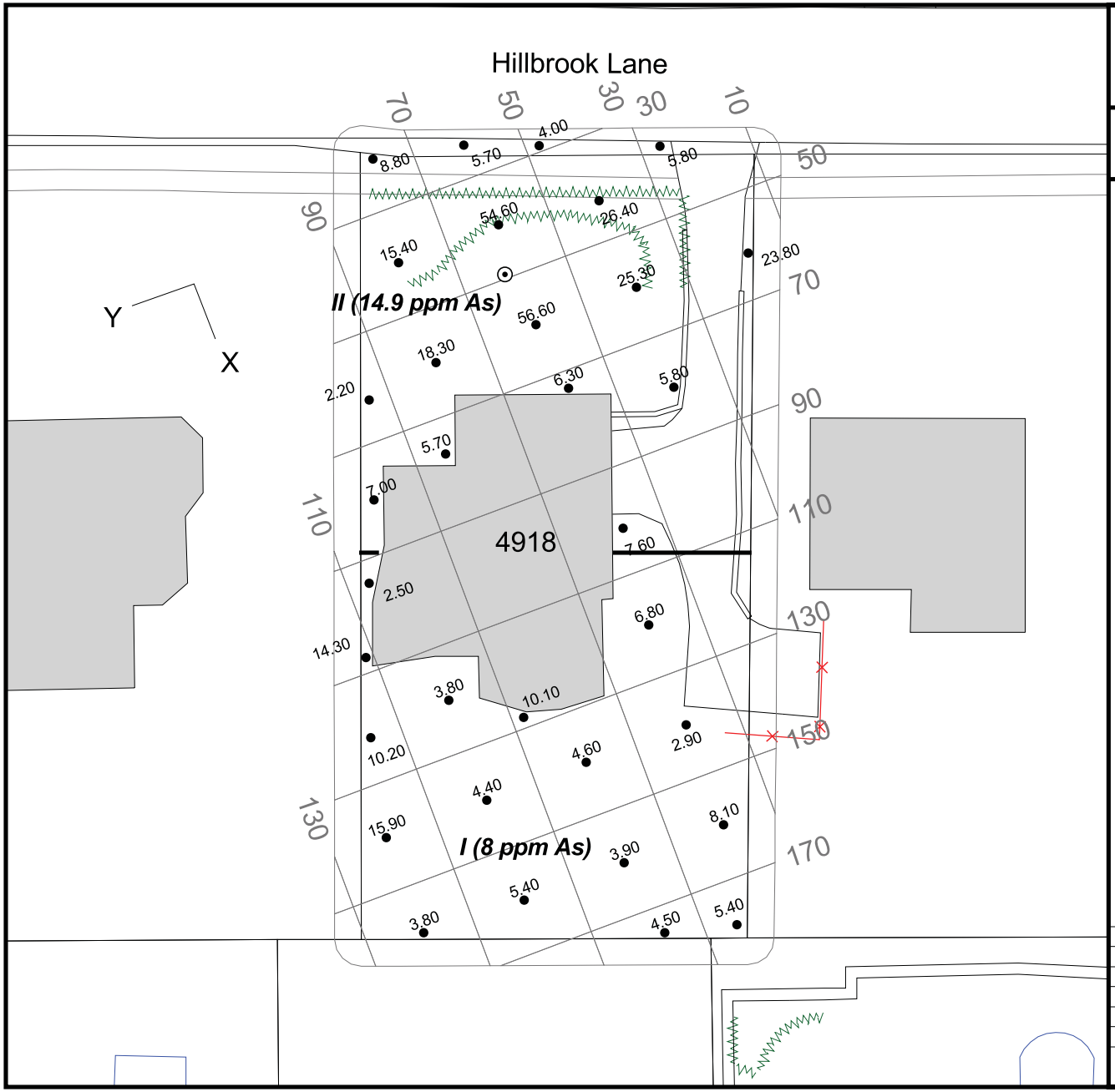
Quadrant Sampled on 11/12/01
Grid Sampled on 1/31/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4918 Hillbrook Ln (CSA 11)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

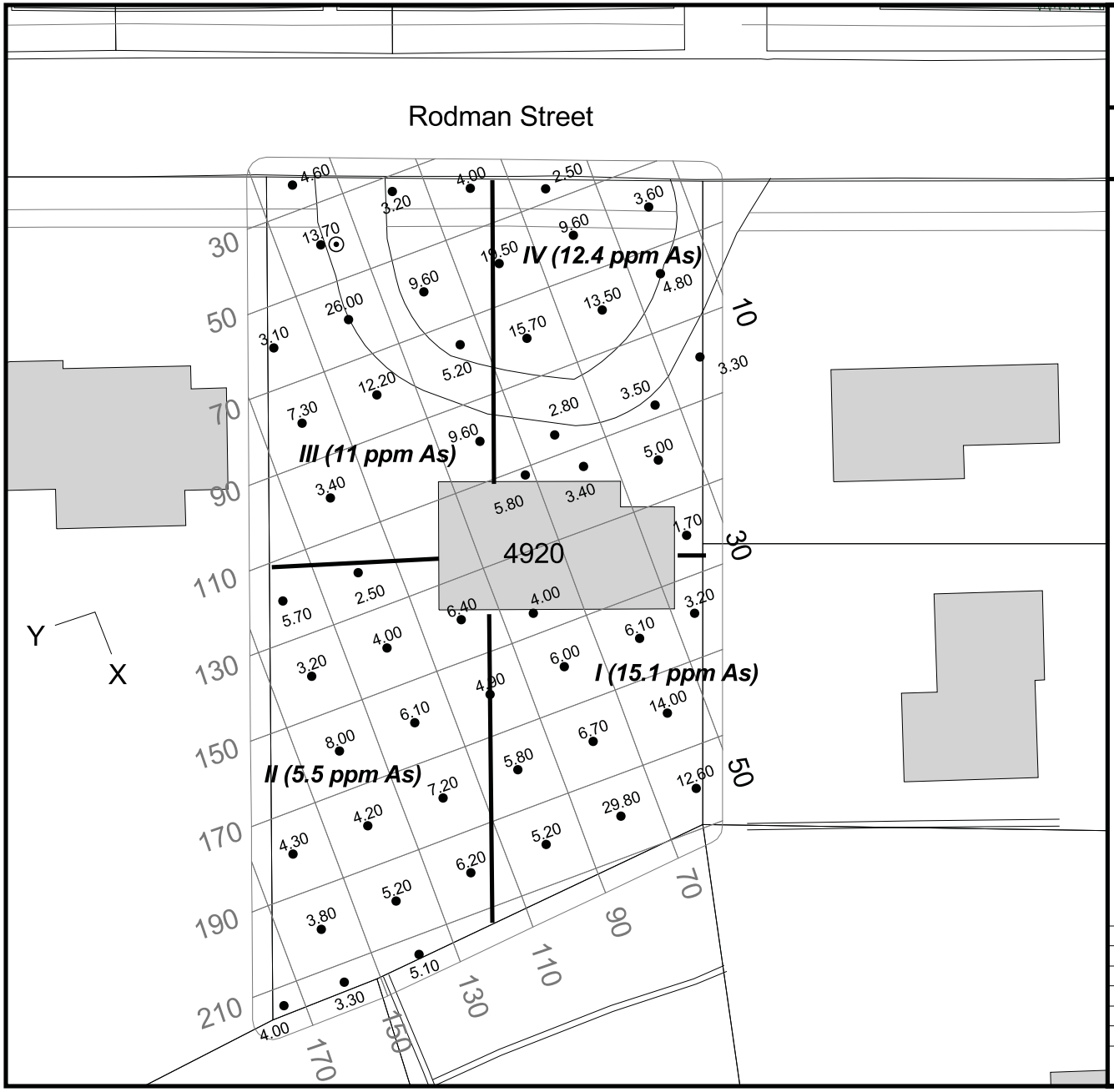
Half Sampled on 10/24/01
Grid Sampled on 01/31/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4920 Rodman St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 6/18/01
Grid Sampled on 10/18/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4922 Quebec St (CSA 11)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 6/1/01
Grid Sampled on 9/12/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4924 Van Ness St (CTA 1D)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/17/01
Grid Sampled on 12/17/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

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Final Grid Sampling Results
OU5-CSA-12-L20 (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Non-Residential Lots
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

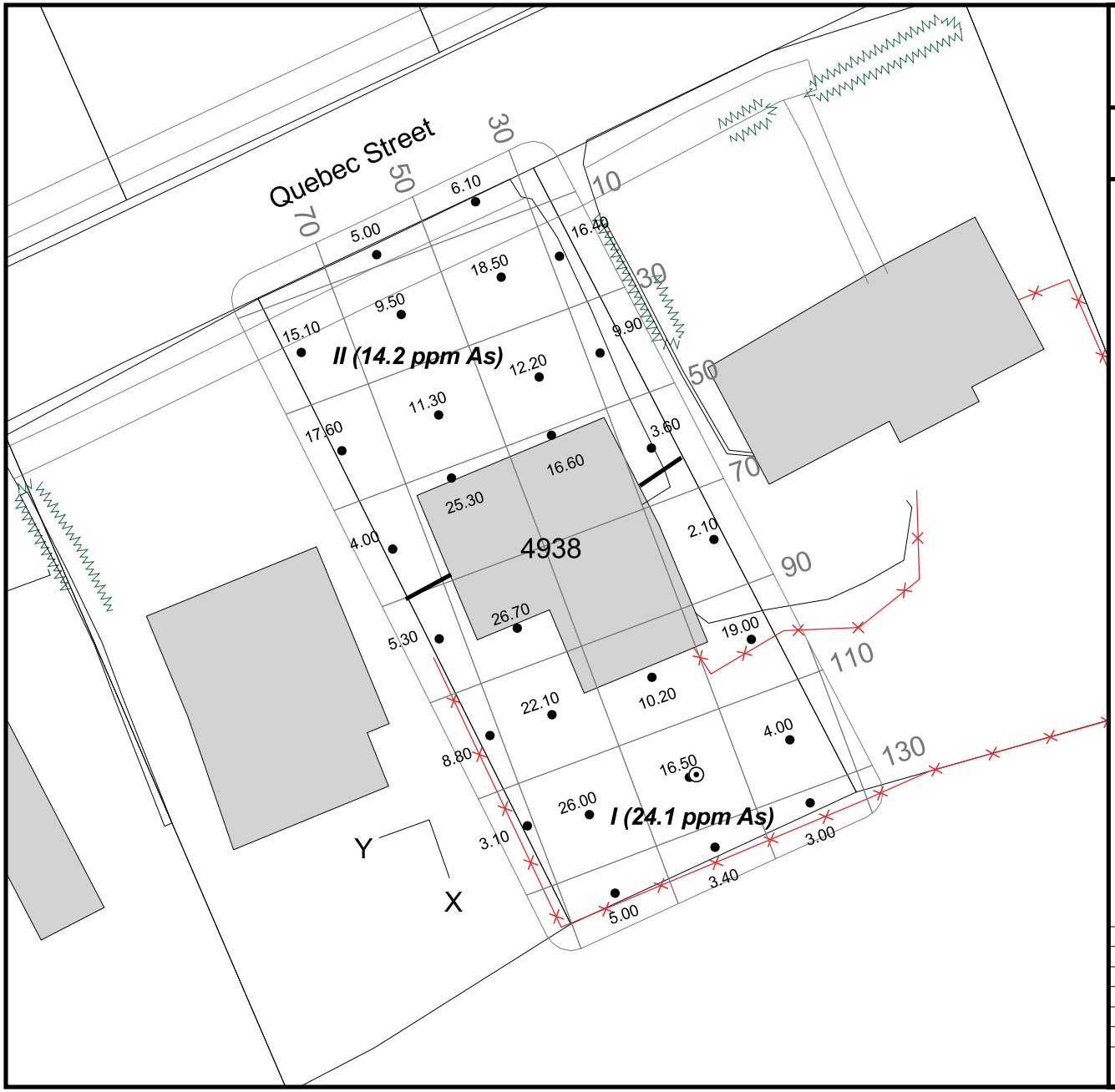
Half Sampled on 1/21/02
Grid Sampled on 2/18/02

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4938 Quebec St (CSA 11)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 10/3/01
Grid Sampled on 11/20/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
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Final Grid Sampling Results
4940 Indian Ln (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

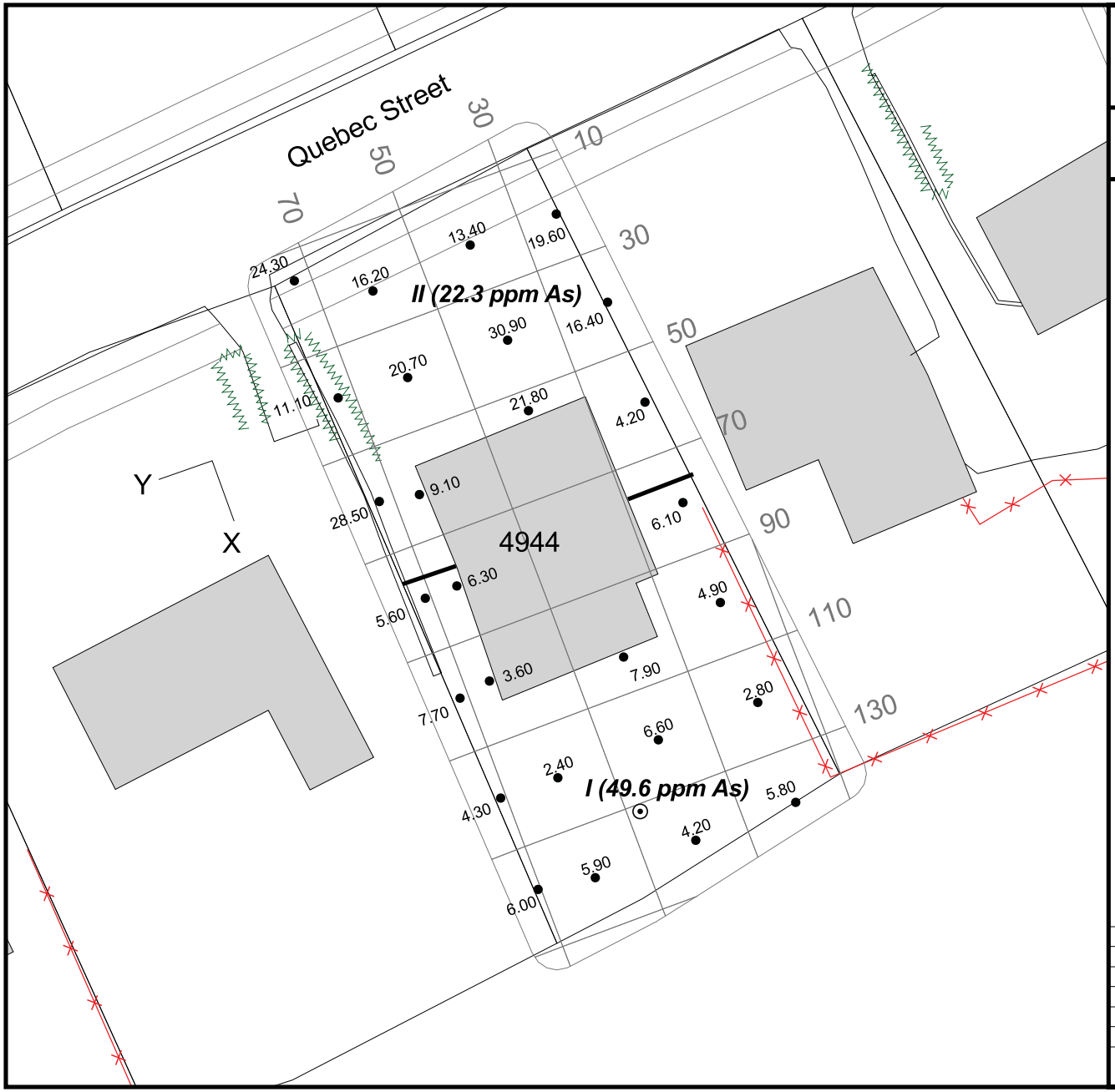
Half Sampled on 8/10/01
Grid Sampled on 12/21/01

50 0 50 Feet

1 inch = 50 feet

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Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
4944 Quebec St (CSA 11)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

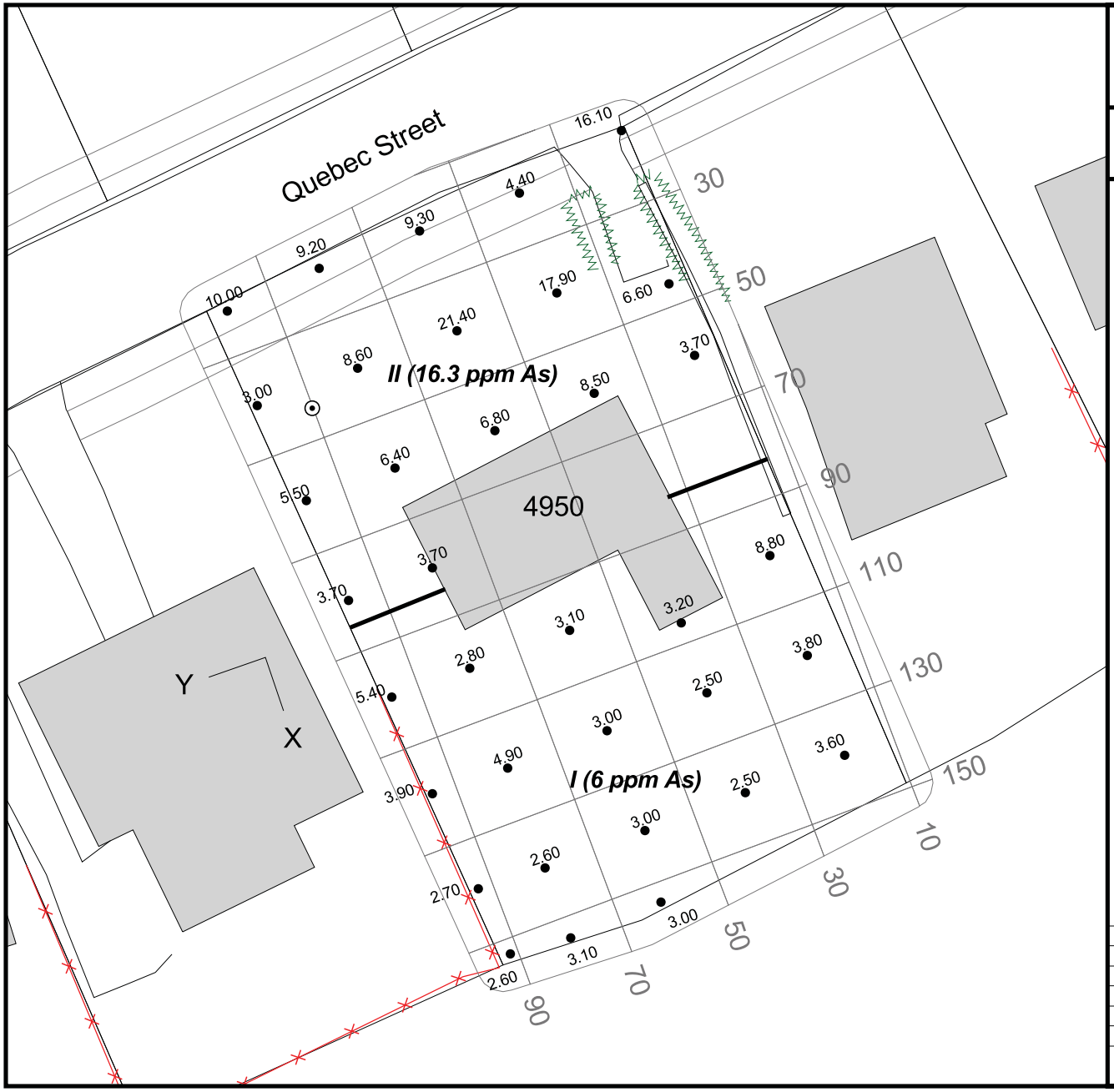
Half Sampled on 10/3/01
Grid Sampled on 1/28/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

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Final Grid Sampling Results
4950 Quebec St (CSA 11)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 9/19/01
Grid Sampled on 12/19/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
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Final Grid Sampling Results
4955 Glenbrook Rd (CSA 11)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

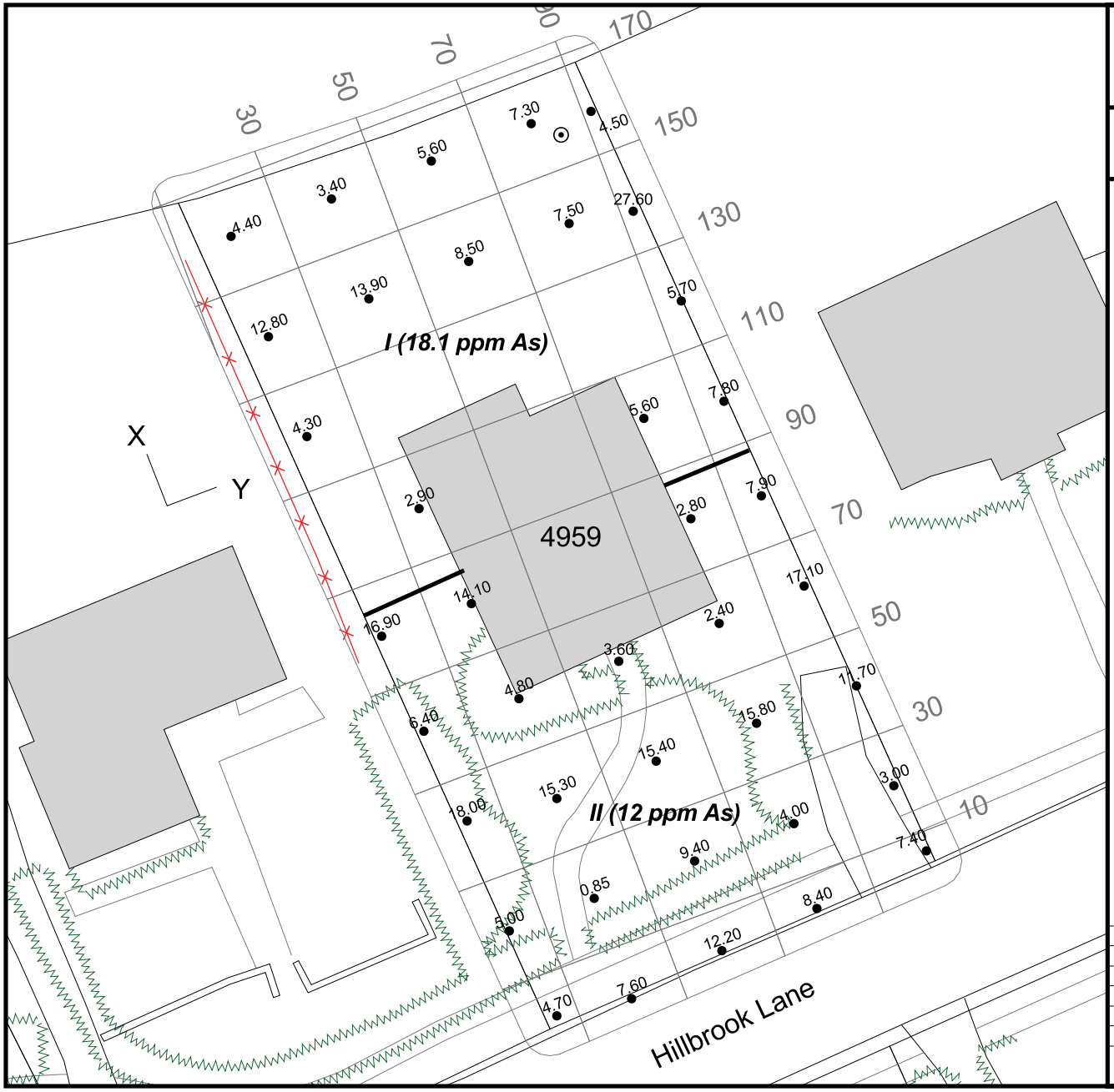
Half Sampled on 7/27/00
Grid Sampled on 11/2/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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Final Grid Sampling Results
4959 Hillbrook Ln (CSA 11)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

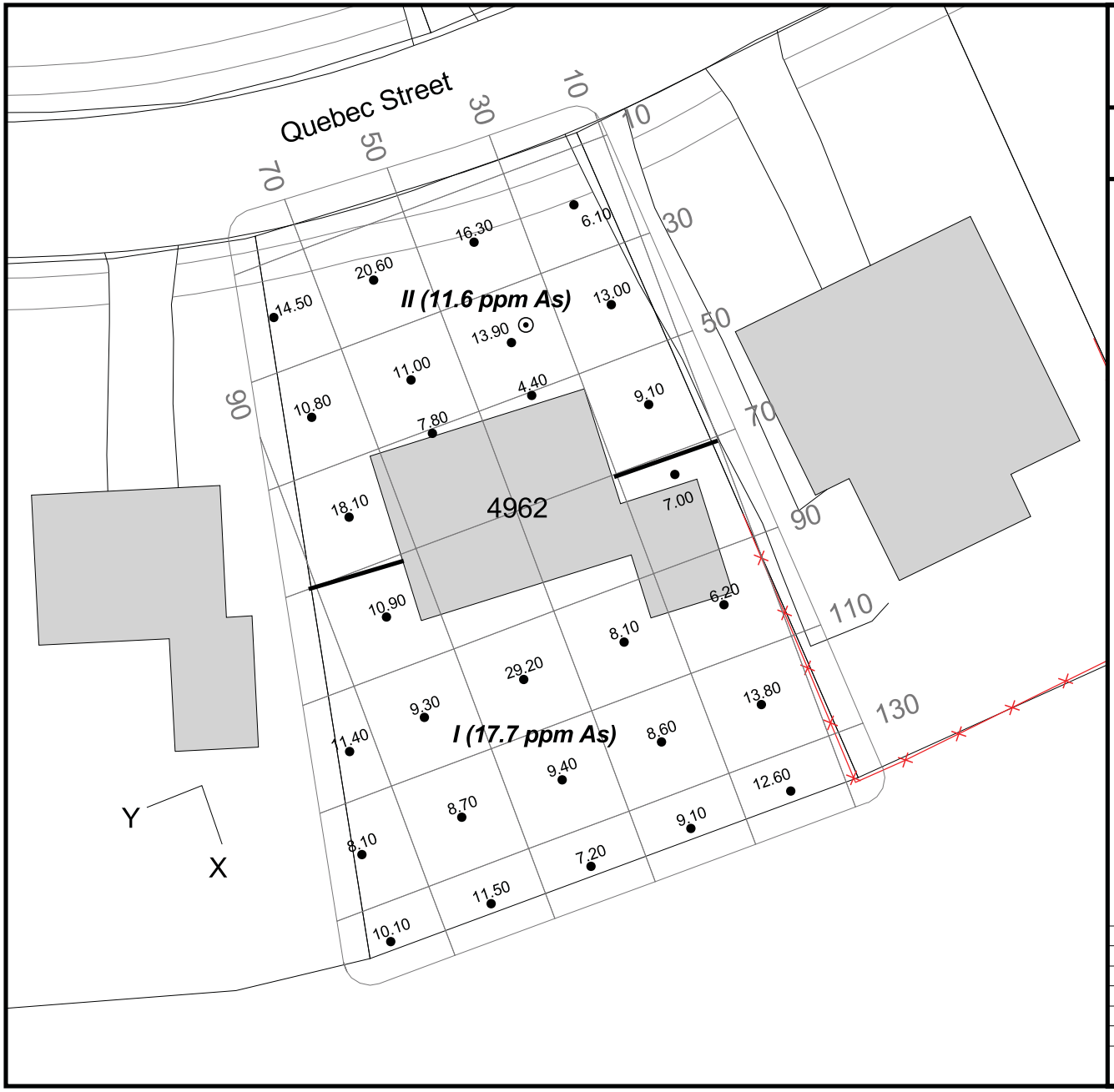
Quadrant Sampled on 7/27/01
Grid Sampled on 12/4/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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PARSONS



Final Grid Sampling Results
4962 Quebec St (CSA 6)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/27/01
Grid Sampled on 12/13/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5001 Loughboro Rd (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/10/01
Grid Sampled on 12/27/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
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Final Grid Sampling Results
5001 Rockwood Pkwy (CSA 11)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 6/11/01
Grid Sampled on 12/7/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
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PARSONS



Final Grid Sampling Results
5001 Van Ness St (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/3/01
Grid Sampled on 10/16/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
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Final Grid Sampling Results

5011 Sedgwick St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 6/21/01
Grid Sampled on 9/12/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
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Final Grid Sampling Results
5017 Loughboro Rd (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

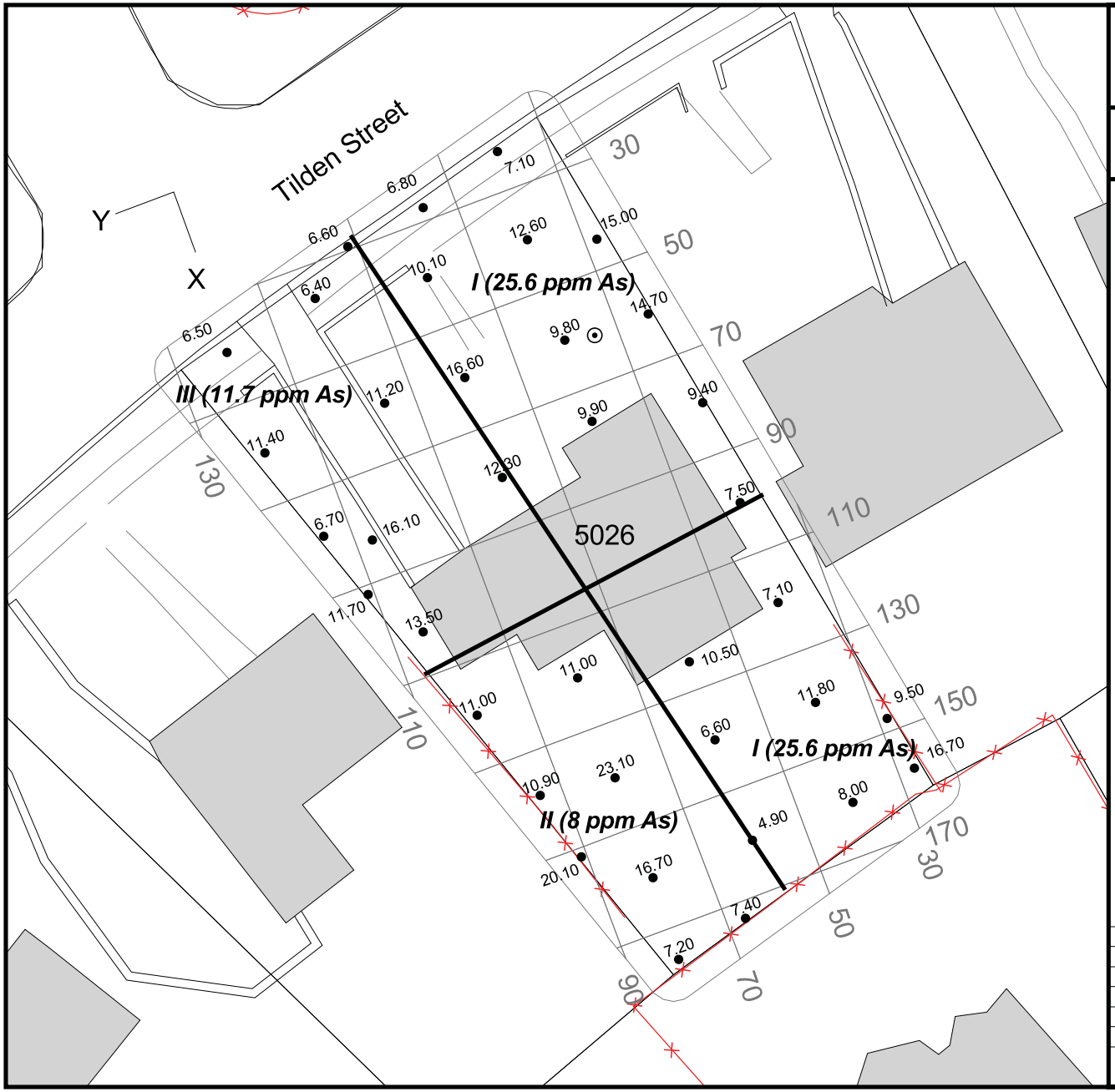
Half Sampled on 9/20/01
Grid Sampled on 12/19/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
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Date:	10/16/2002
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Final Grid Sampling Results
5026 Tilden St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 8/28/01
Grid Sampled on 1/10/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5030 Van Ness St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

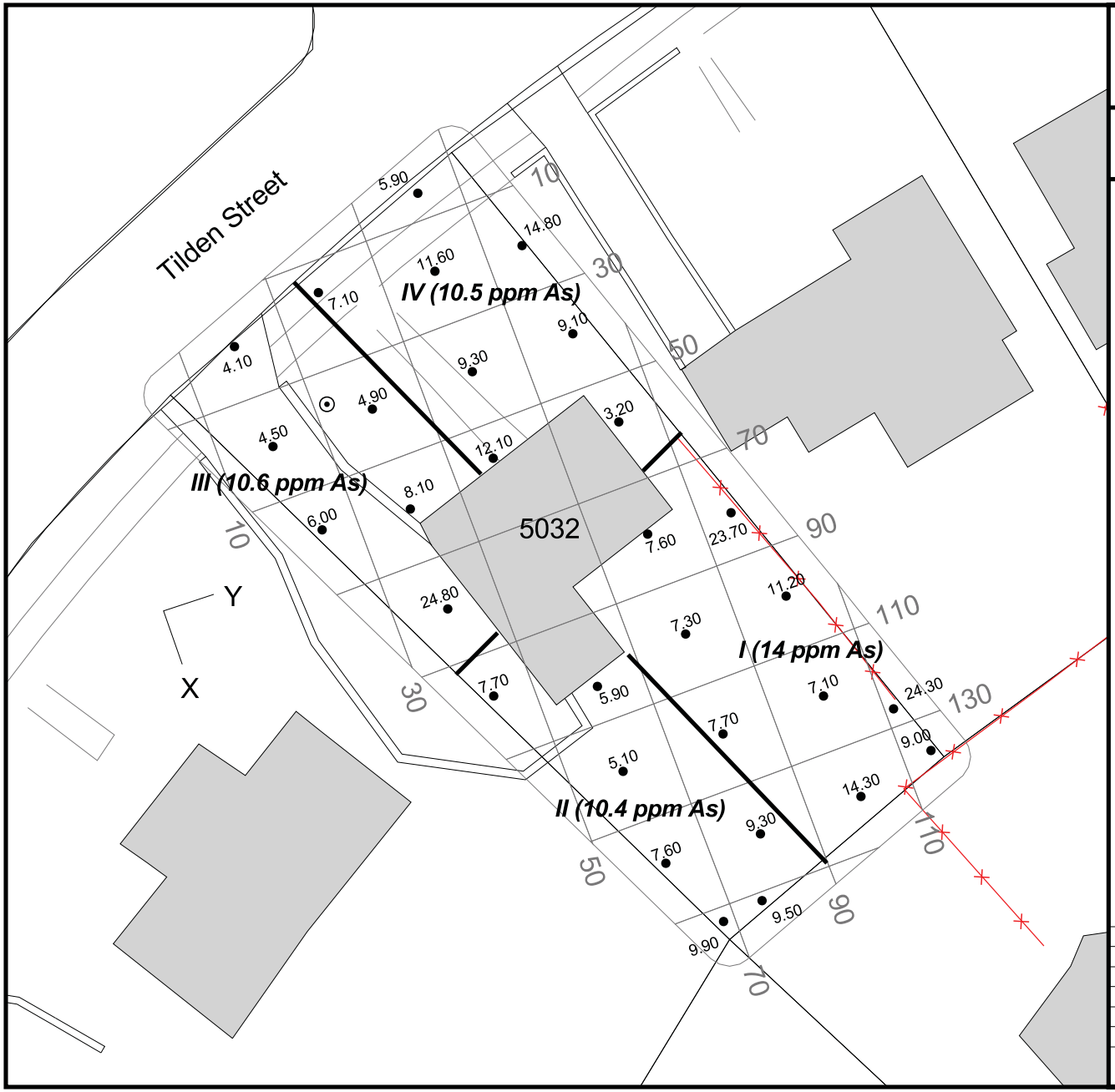
Quadrant Sampled on 7/31/01
Grid Sampled on 12/11/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5032 Tilden St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

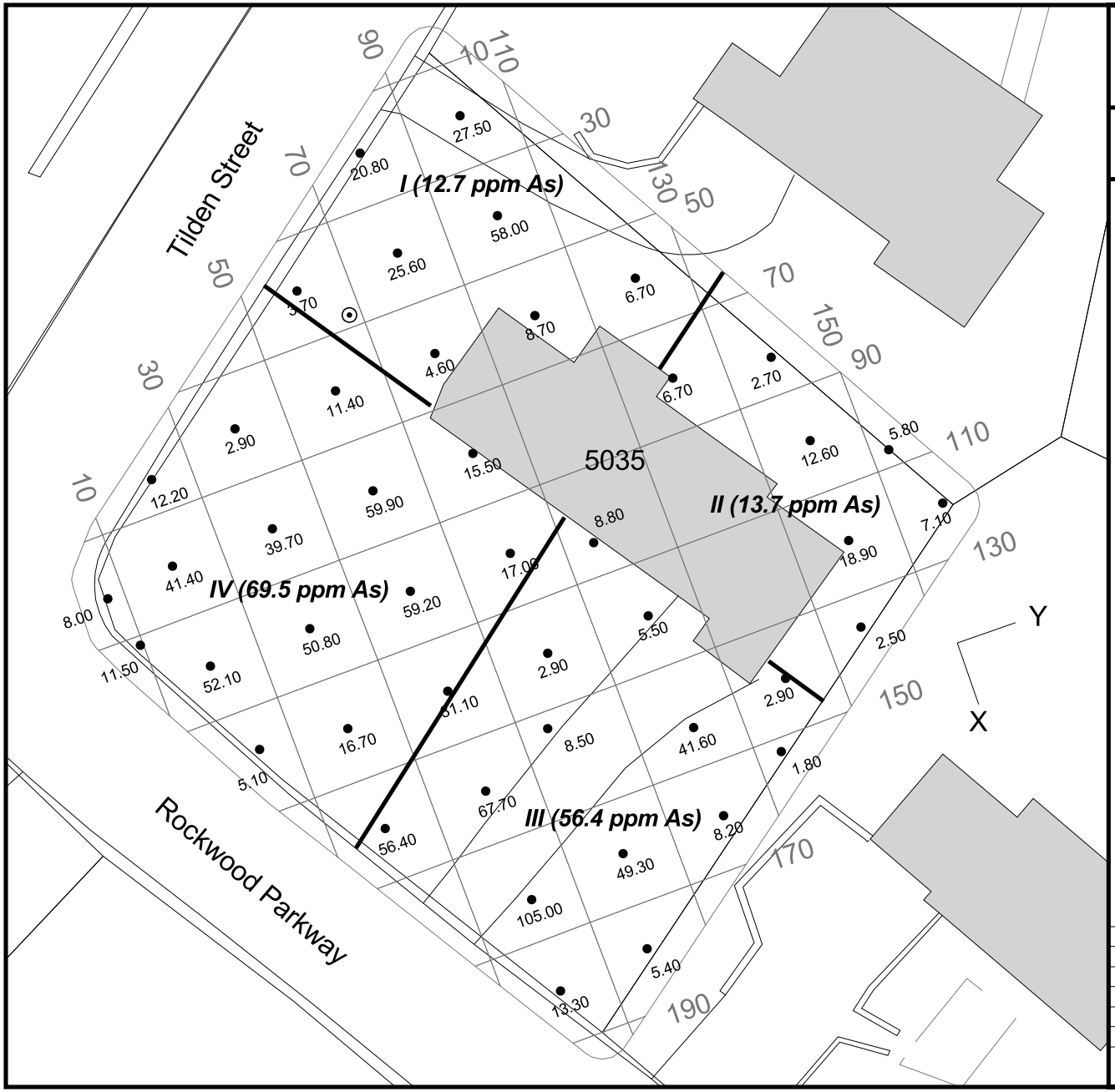
Quadrant Sampled on 7/31/01
Grid Sampled on 11/28/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
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Date:	10/16/2002
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Page Number:	

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Final Grid Sampling Results
5035 Rockwood Pkwy (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

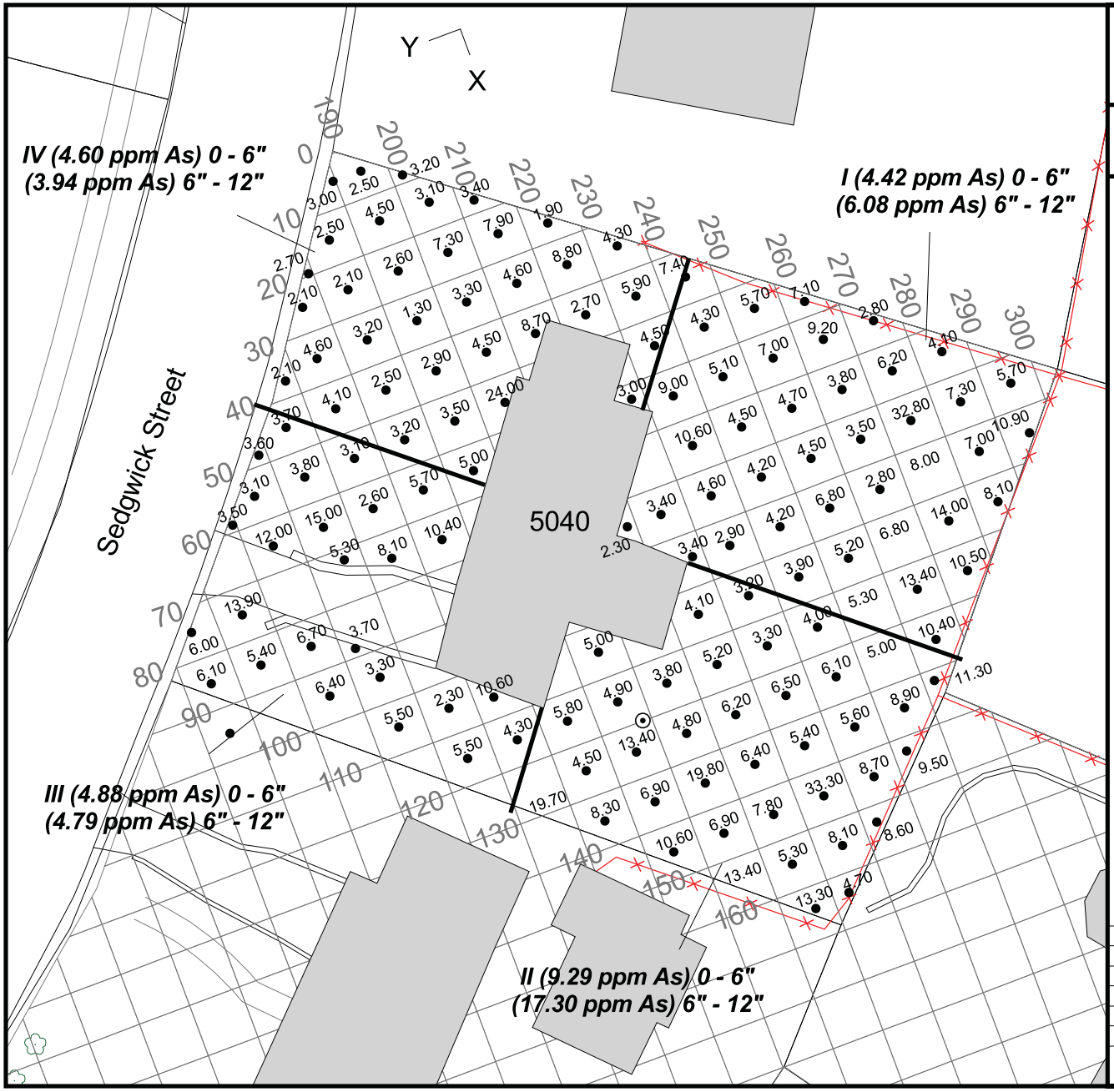
Quadrant Sampled on 6/26/01
Grid Sampled on 9/27/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5040 Sedgwick St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- Boring Location
- Buildings
- 10' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

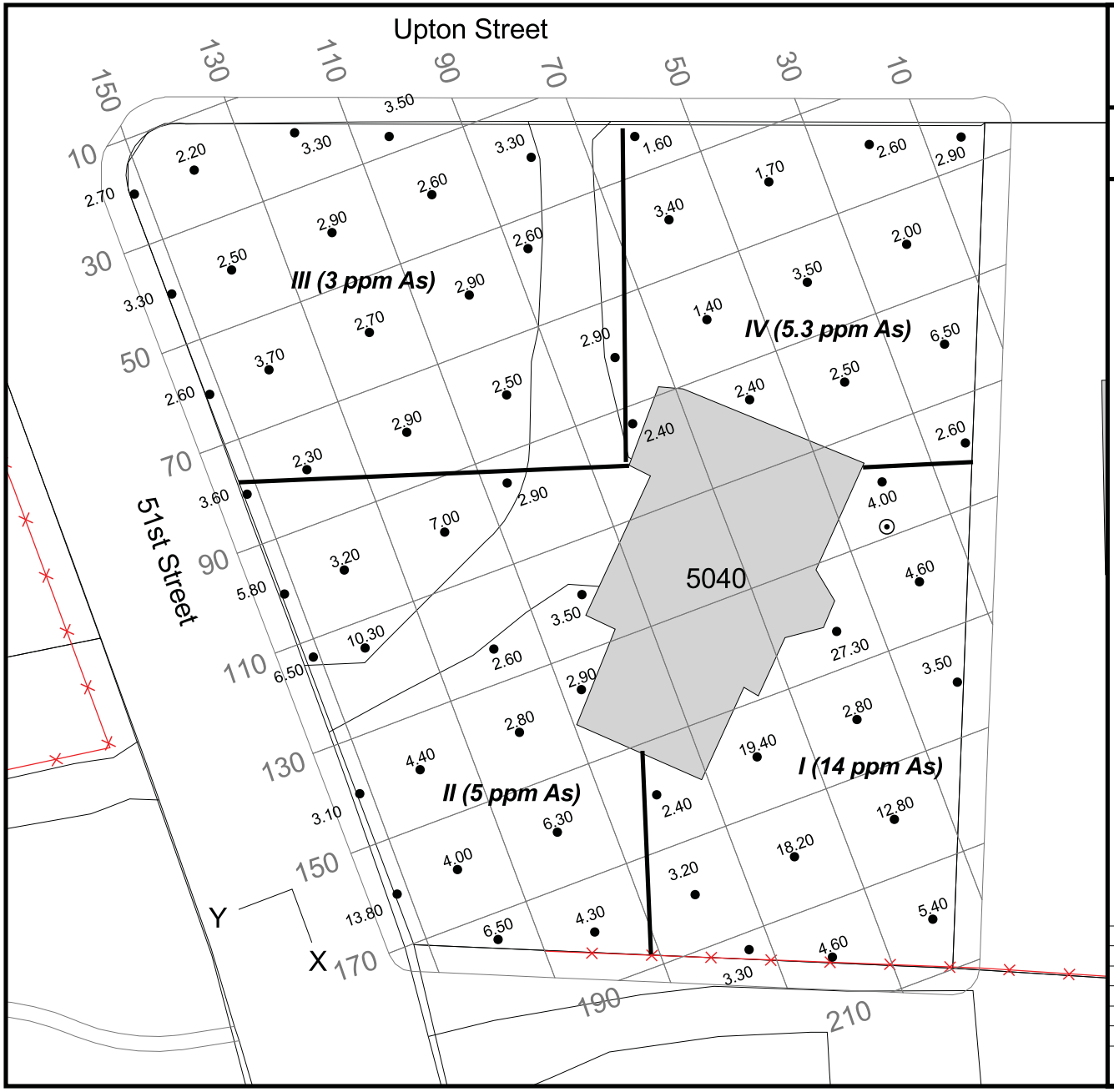
Quadrant Sampled on 4/4/01
Grid Sampled on 6/29/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
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Final Grid Sampling Results
5040 Upton St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 6/19/01
Grid Sampled on 11/26/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
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Final Grid Sampling Results
5041 Loughboro Rd (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 10/4/01
Grid Sampled on 11/27/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5041 Upton St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 6/21/01
Grid Sampled on 12/3/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5044 Van Ness St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/5/01
Grid Sampled on 11/30/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5046 Sedgwick Rd (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- Boring Location
- Buildings
- 10' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

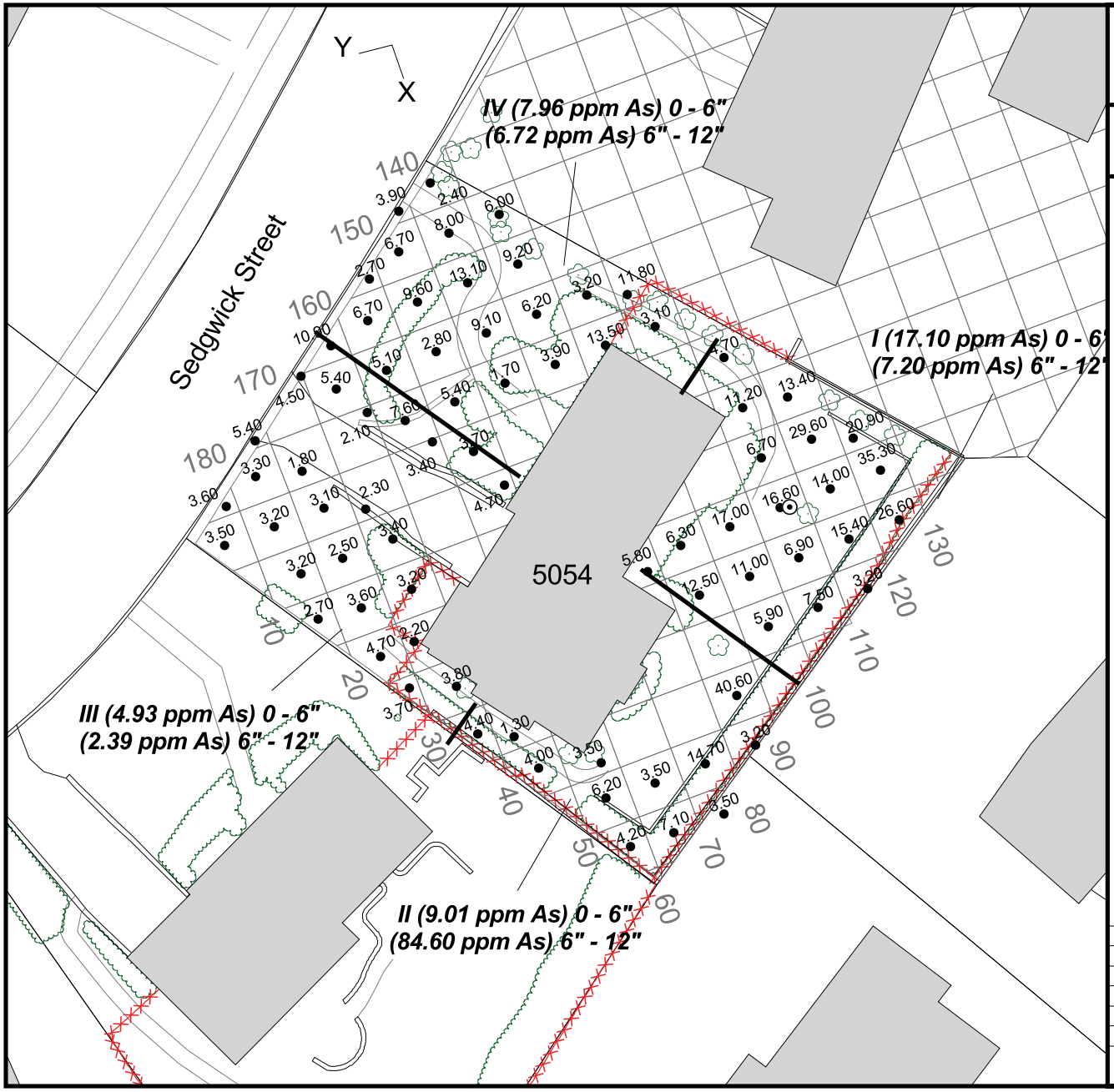
Quadrant Sampled on 4/3/01
Grid Sampled on 6/29/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5054 Sedgwick St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Grid Samples
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

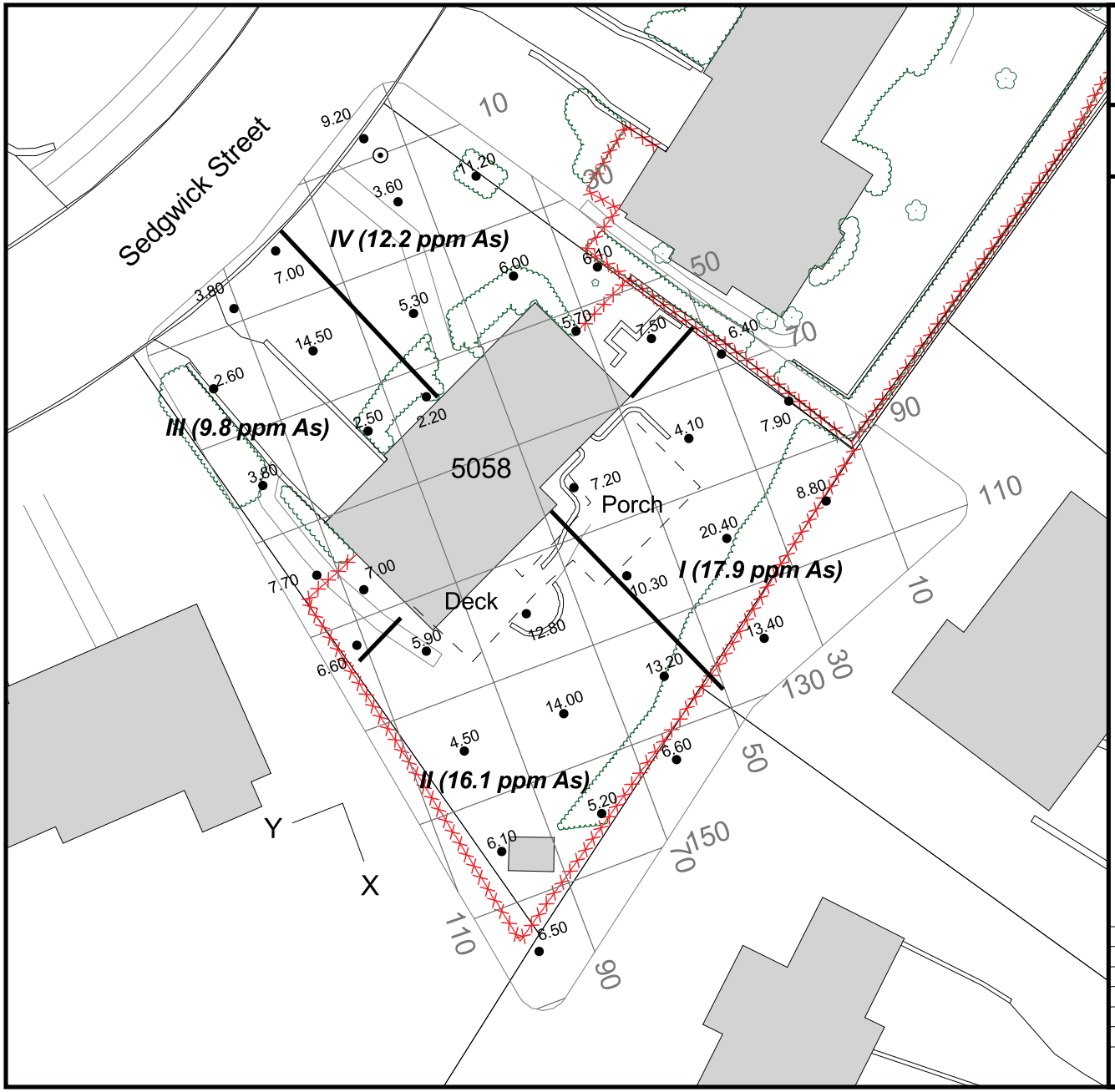
Quadrant Sampled on 4/3/01
Grid Sampled on 6/29/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5058 Sedgwick St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/2/01
Grid Sampled on 11/29/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5060 Overlook Rd (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

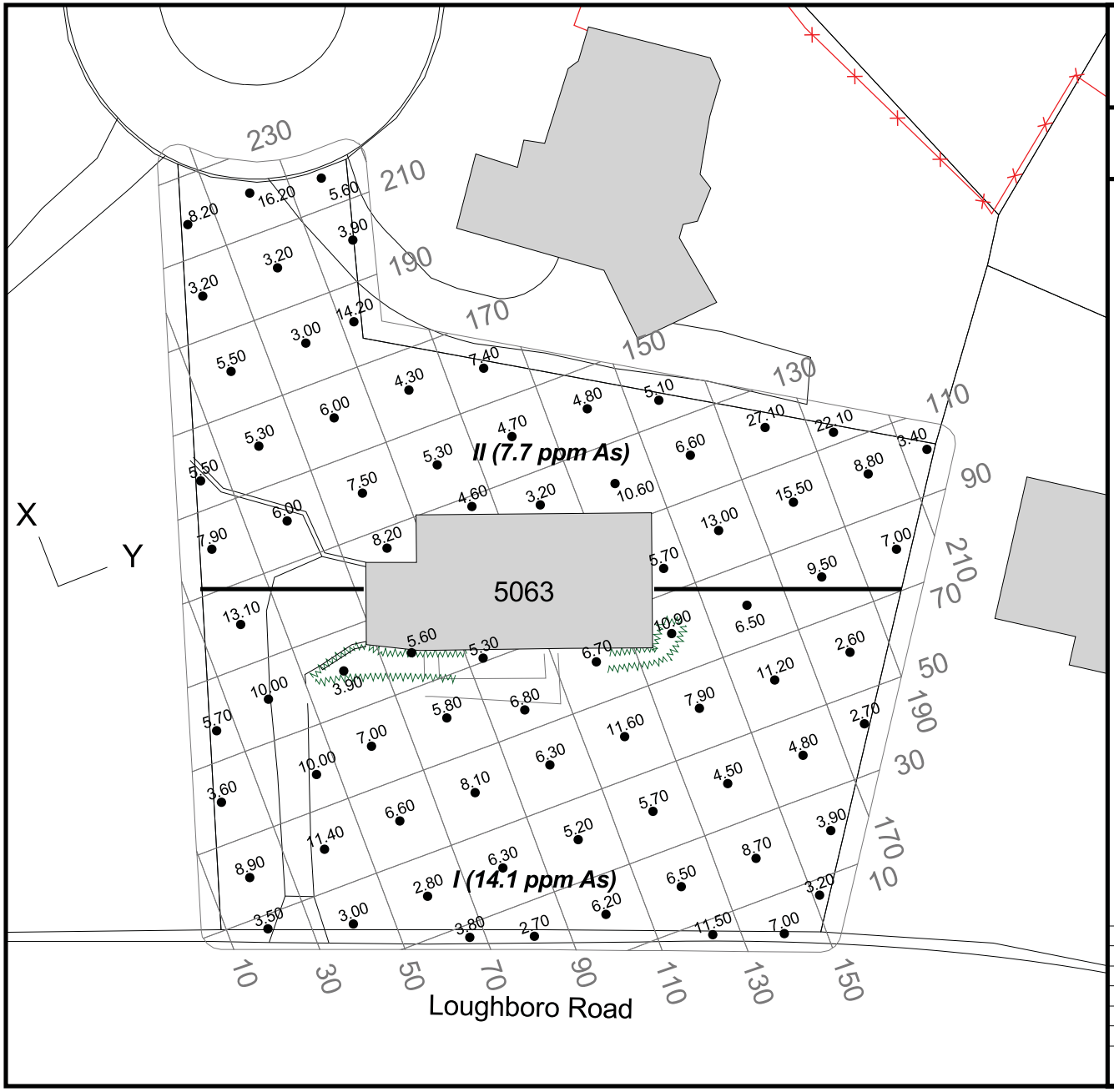
Half Sampled on 8/3/01
Grid Sampled on 1/2/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5063 Loughboro Rd (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- Buildings
- 20' Grid
- Retaining Wall
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

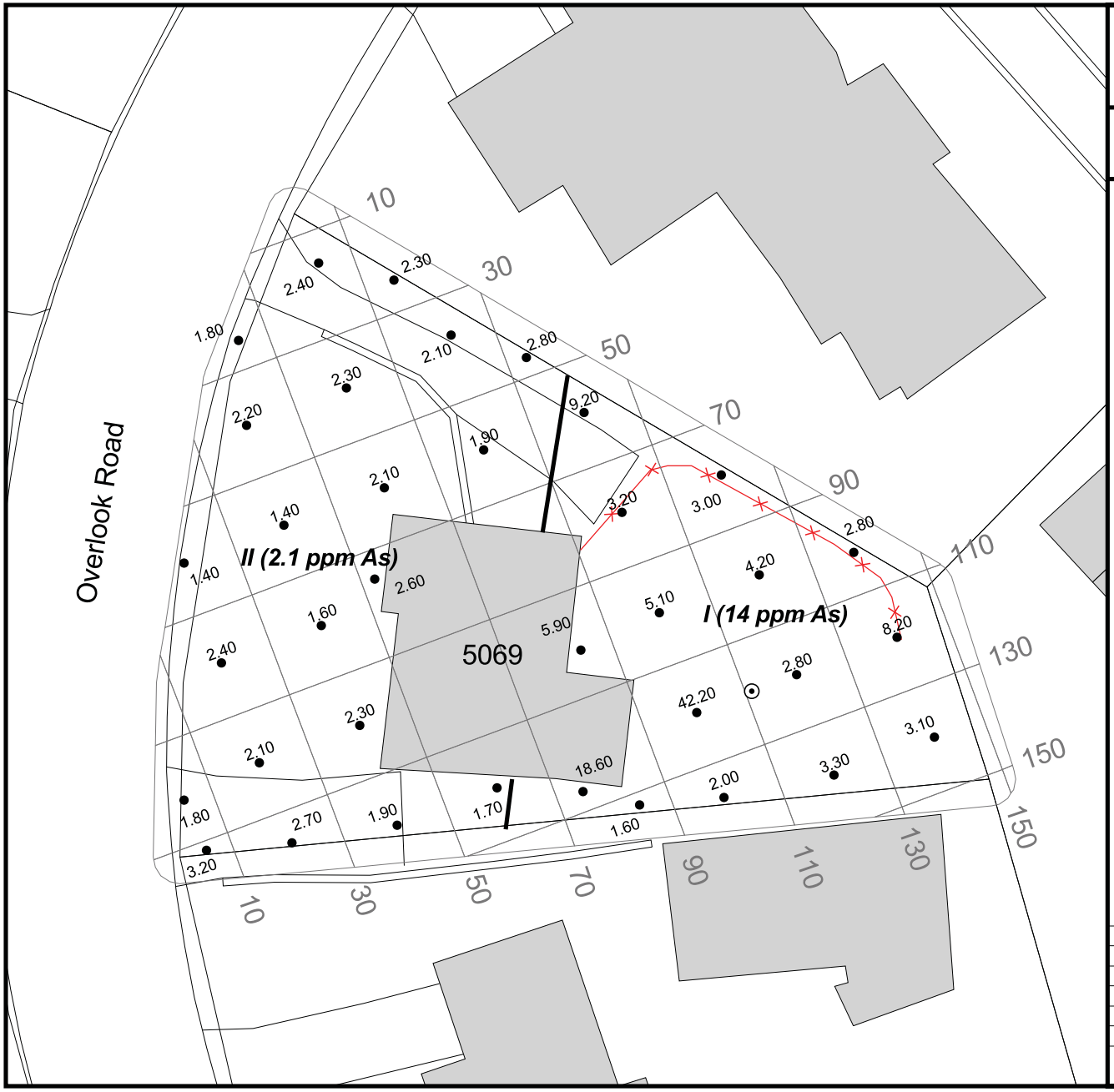
Half Sampled on 3/28/02
Grid Sampled on 12/19/02

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5069 Overlook Rd (CSA 12)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/6/01
Grid Sampled on 11/13/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5100 Upton St (CTA 1B)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

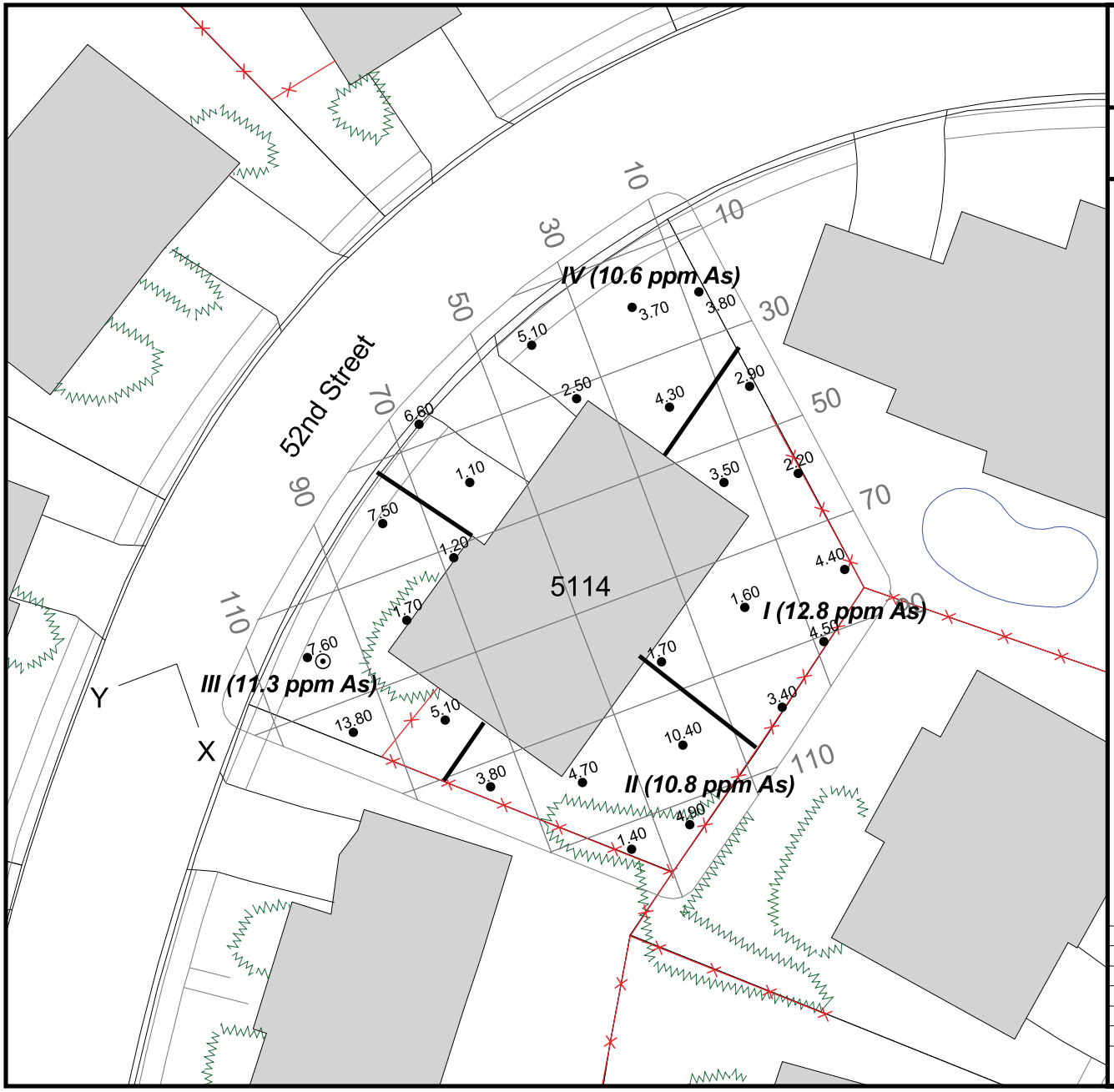
Quadrant Sampled on 6/15/01
Grid Sampled on 11/13/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5114 52nd St (CTA 1A)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/11/01
Grid Sampled on 12/11/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5120 Rockwood Pkwy (CTA 1B)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

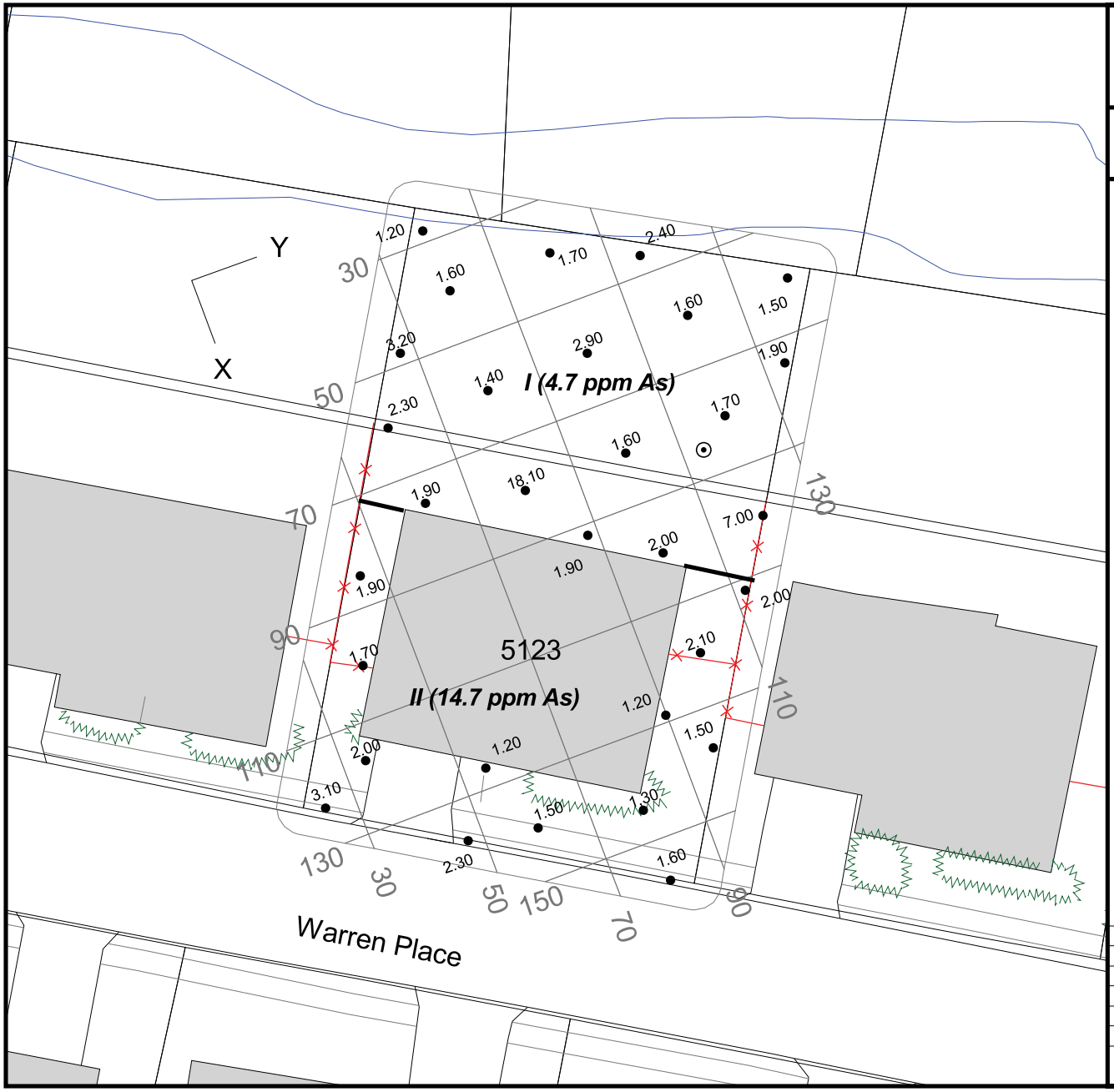
Quadrant Sampled on 12/4/01
Grid Sampled on 2/27/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5123 Warren Pl (CSA 2)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Stream
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

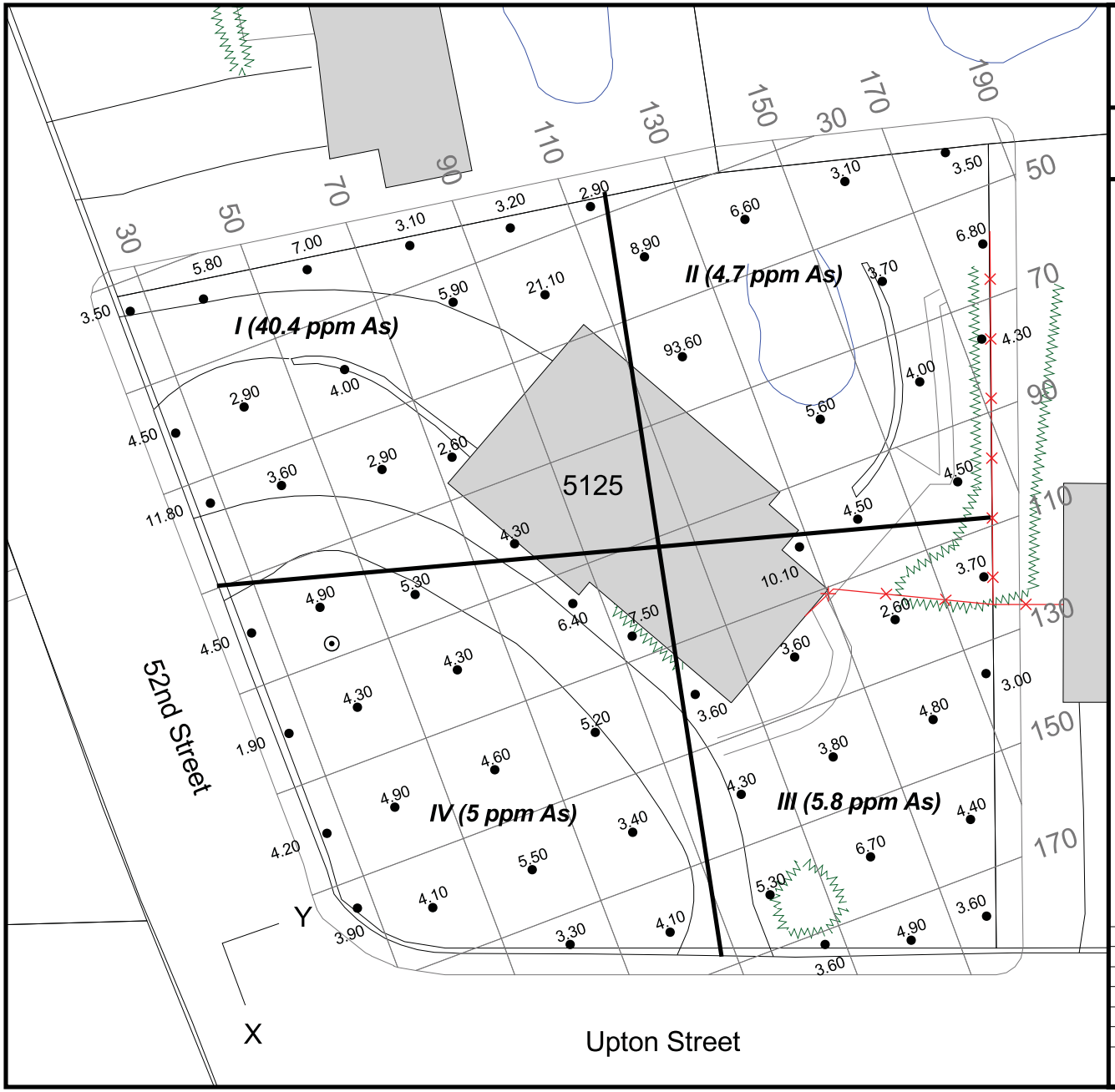
Half Sampled on 10/22/01
Grid Sampled on 2/21/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5125 Upton St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 7/3/01
Grid Sampled on 1/9/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5131 Yuma St (CSA 2)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/31/01
Grid Sampled on 12/20/01

40 0 40 Feet

1 inch = 40 feet

Scale:	1 : 480
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5141 Yuma St (CSA 2)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Water
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

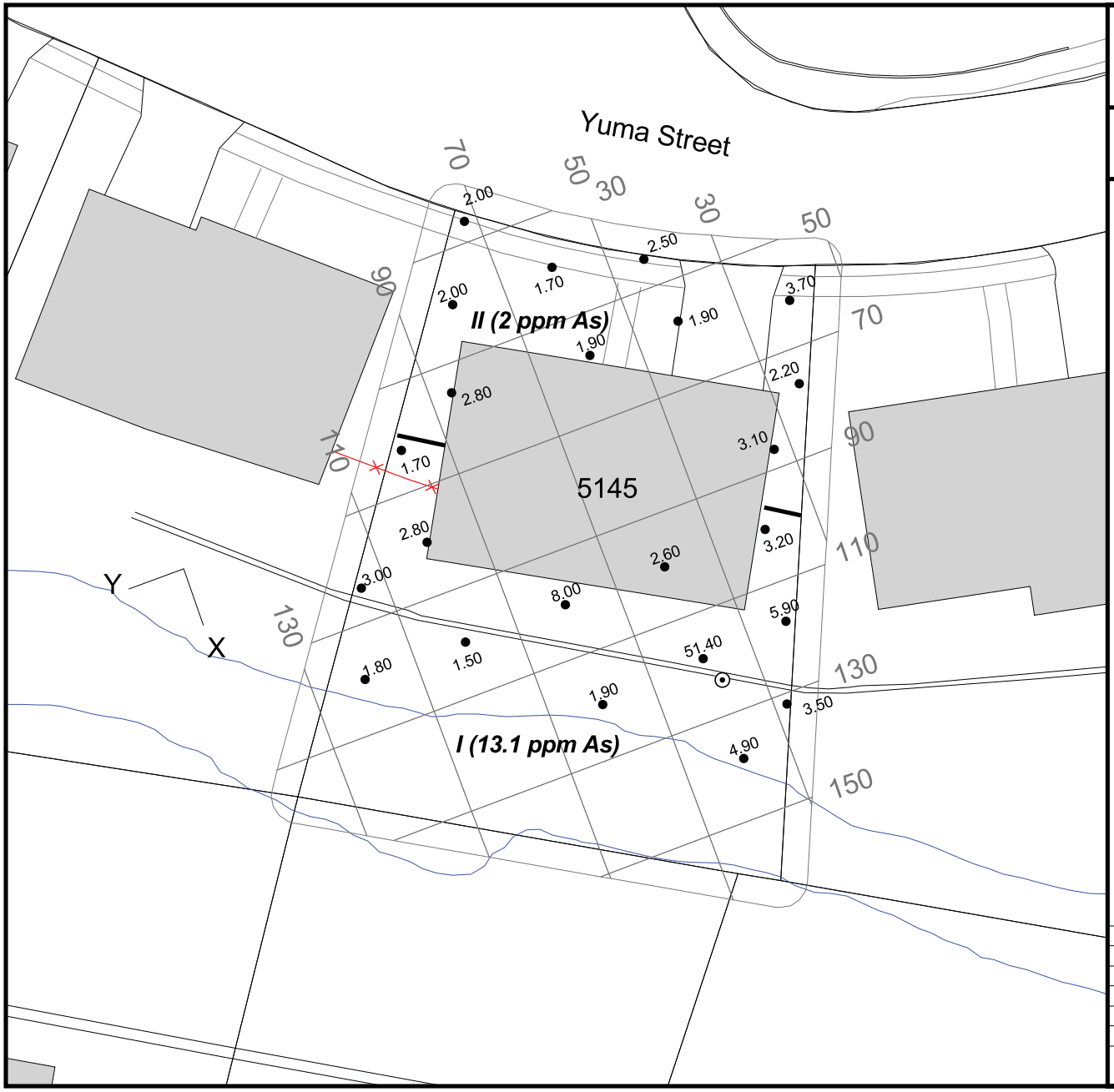
Half Sampled on 10/25/01
Grid Sampled on 3/25/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5145 Yuma St (CSA 2)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Stream
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 7/6/01
Grid Sampled on 1/29/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
5147 Yuma St (CSA 2)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Stream
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

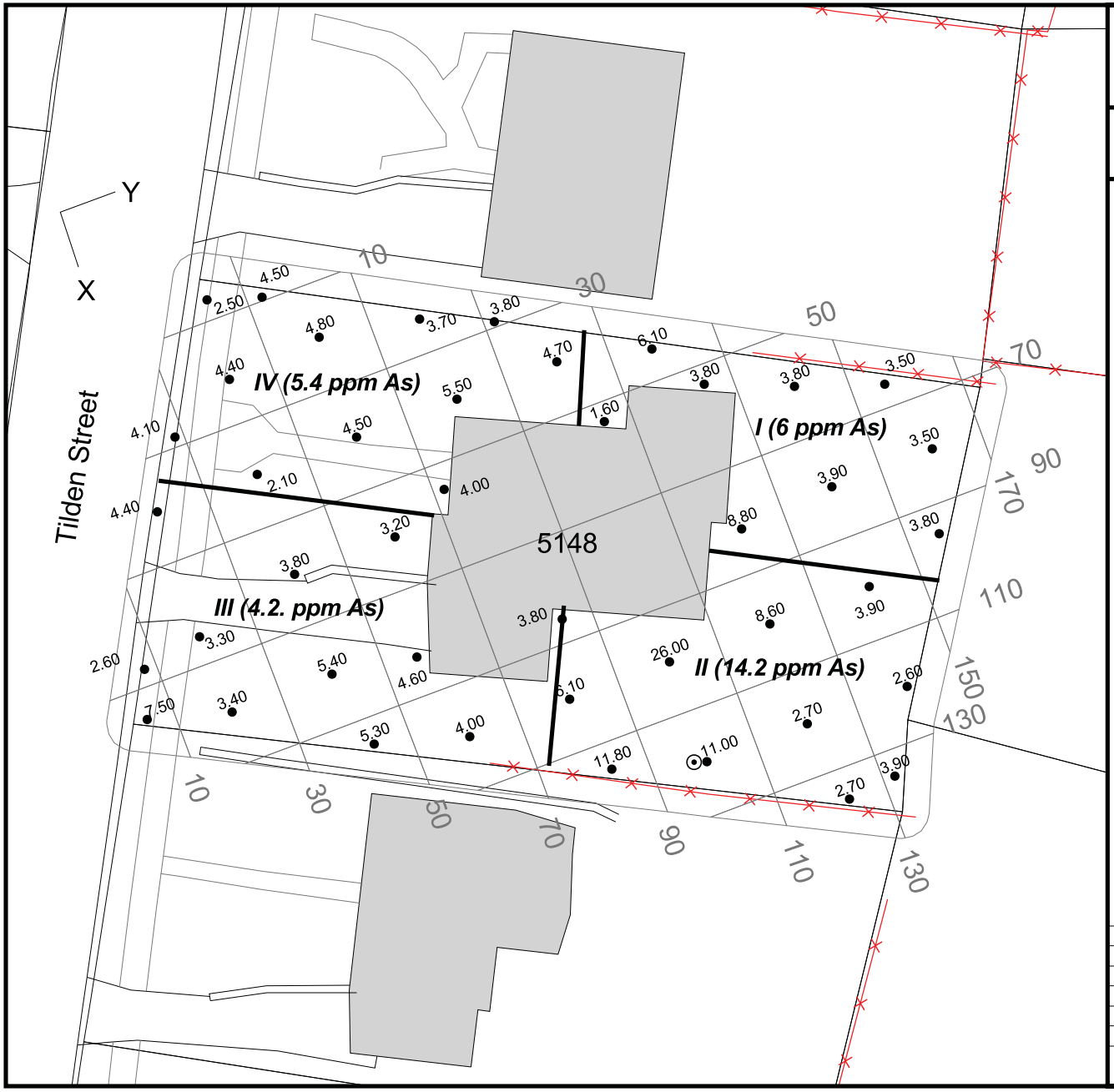
Half Sampled on 10/25/01
Grid Sampled on 2/22/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5148 Tilden St (CTA 1C)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

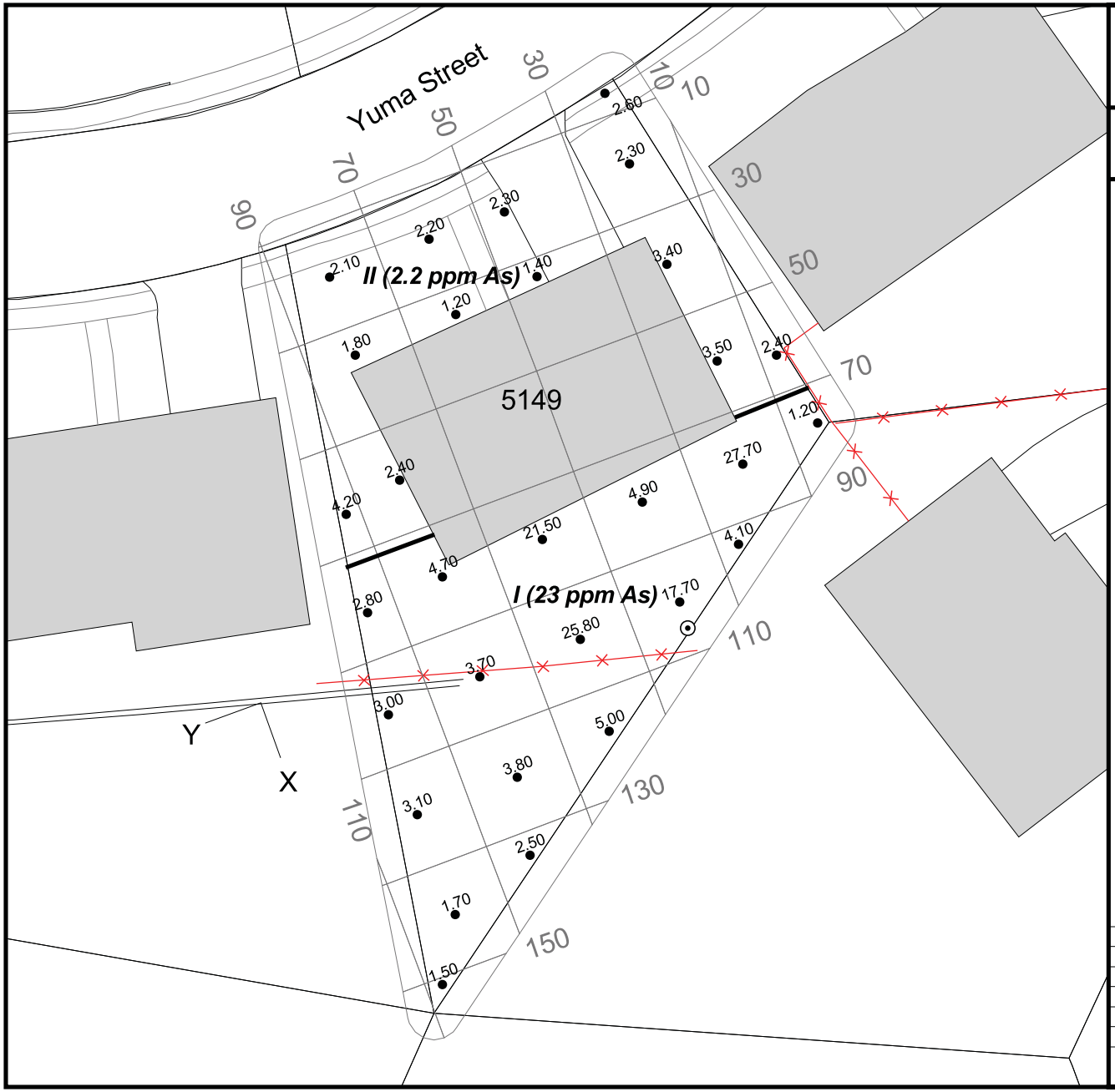
Quadrant Sampled on 8/28/01
Grid Sampled on 2/18/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
5149 Yuma St (CSA 2)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

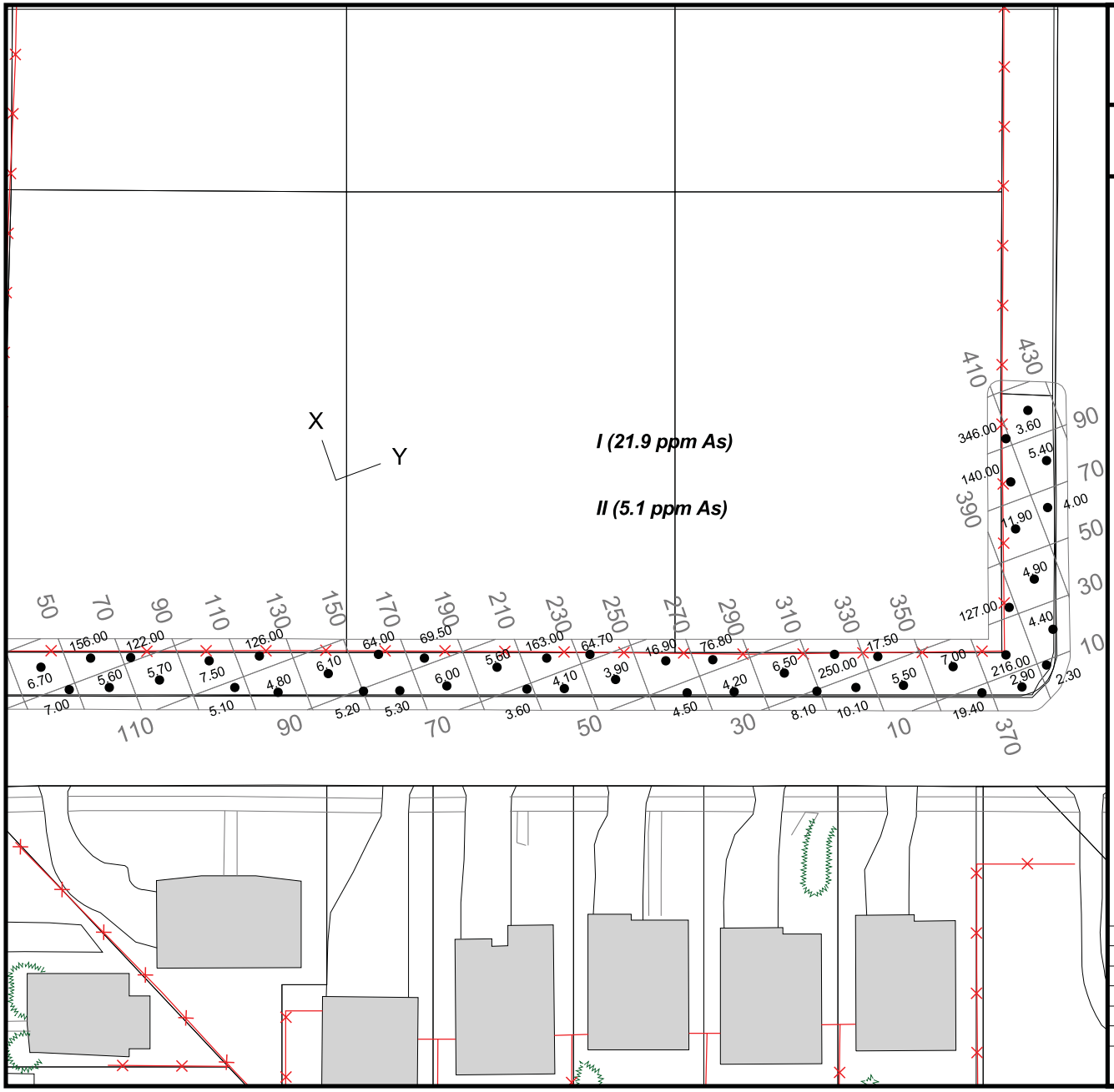
Half Sampled on 9/21/01
Grid Sampled on 12/10/01

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU5-CSA-5-L15 (CSA 5)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Non-Residential Lots
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 8/16/01
Grid Sampled on 2/8/02

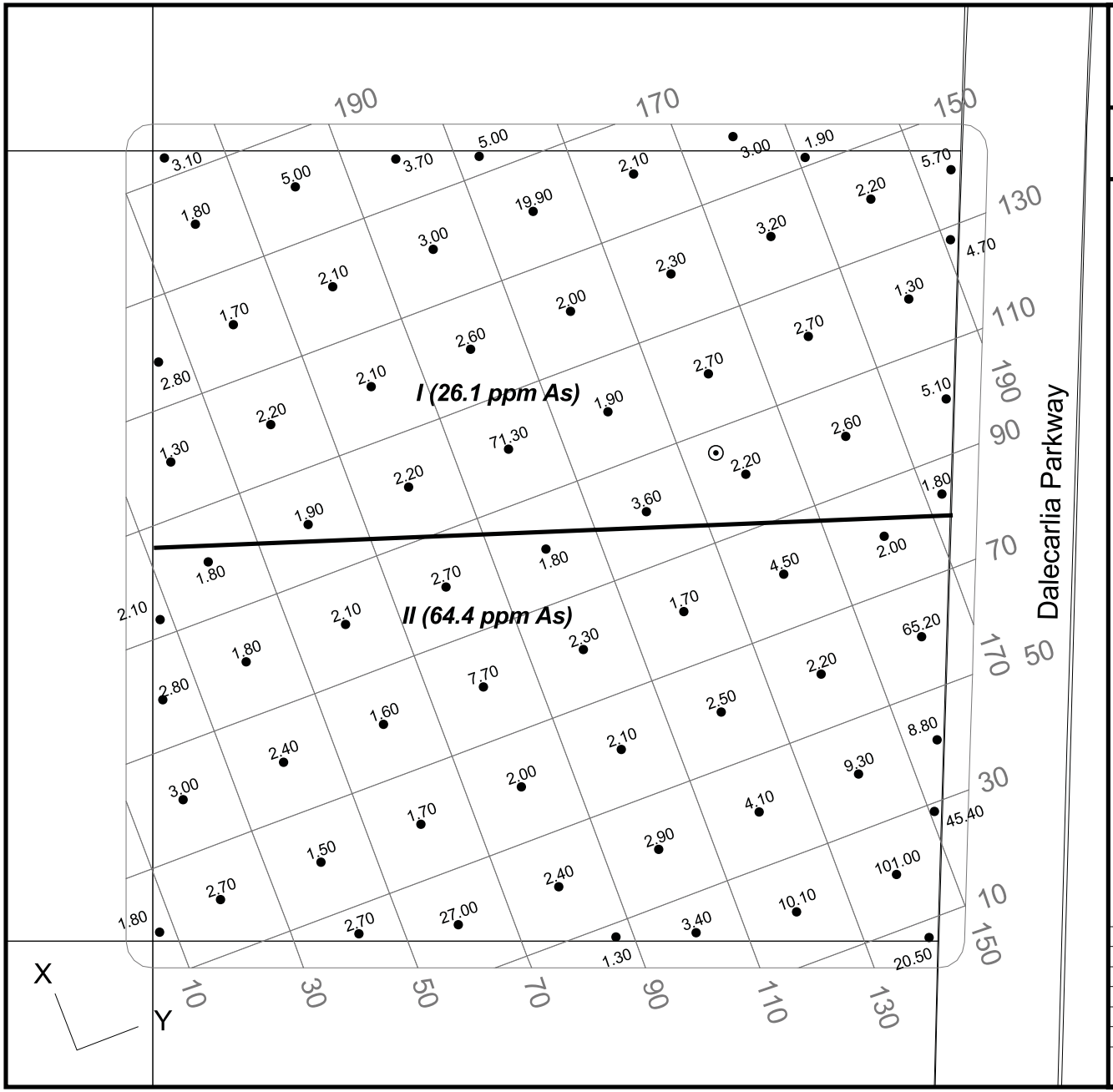
60 0 60 Feet

1 inch = 60 feet

Scale:	1 : 720
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

N W E S



Final Grid Sampling Results
OU5-CSA-13-L15 (CSA 13)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Boring
- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Non-Residential Lots
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

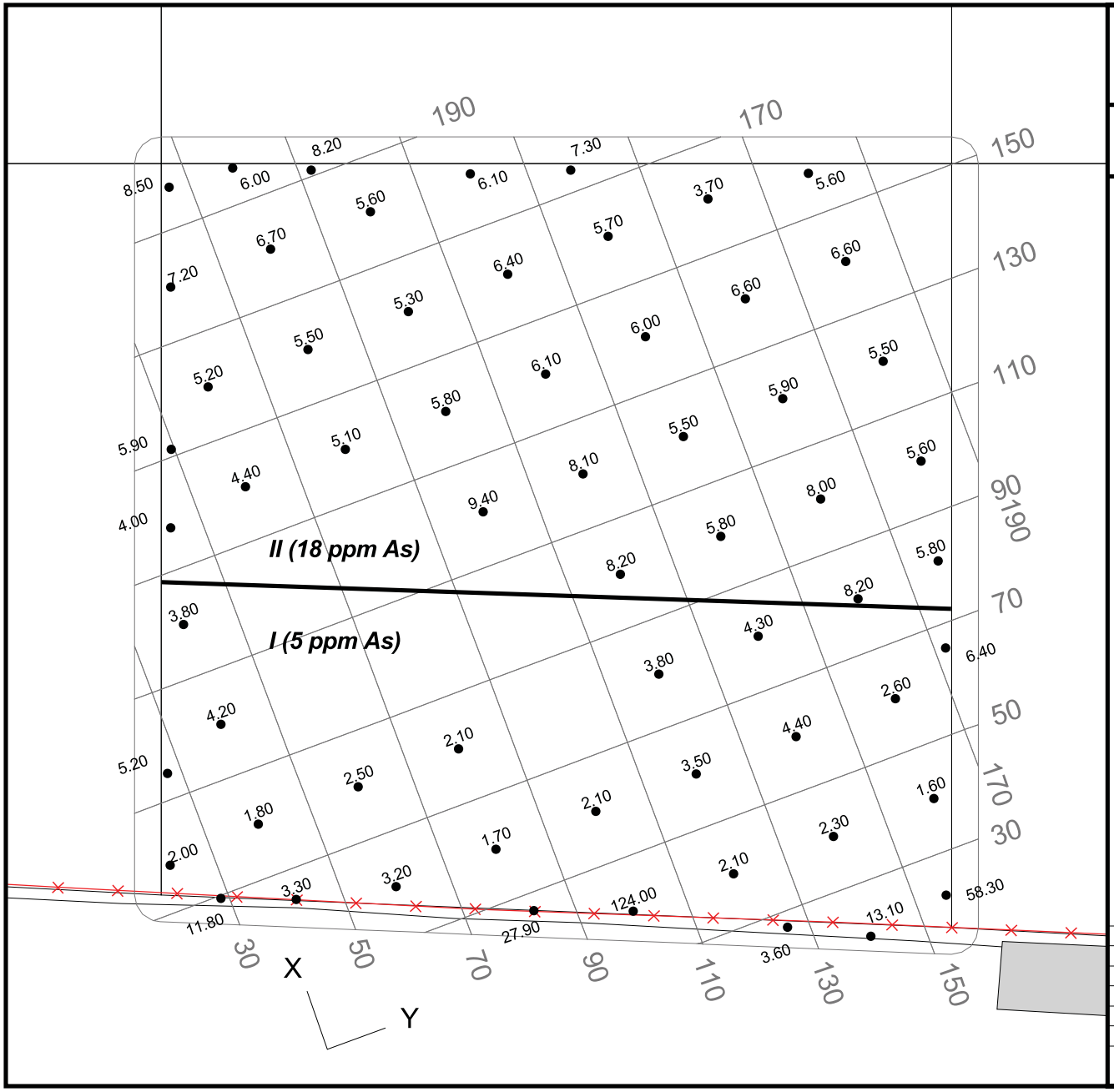
Half Sampled on 10/5/01
Grid Sampled on 2/12/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU5-CSA-13-L80 (CSA 13)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Non-Residential Lots
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

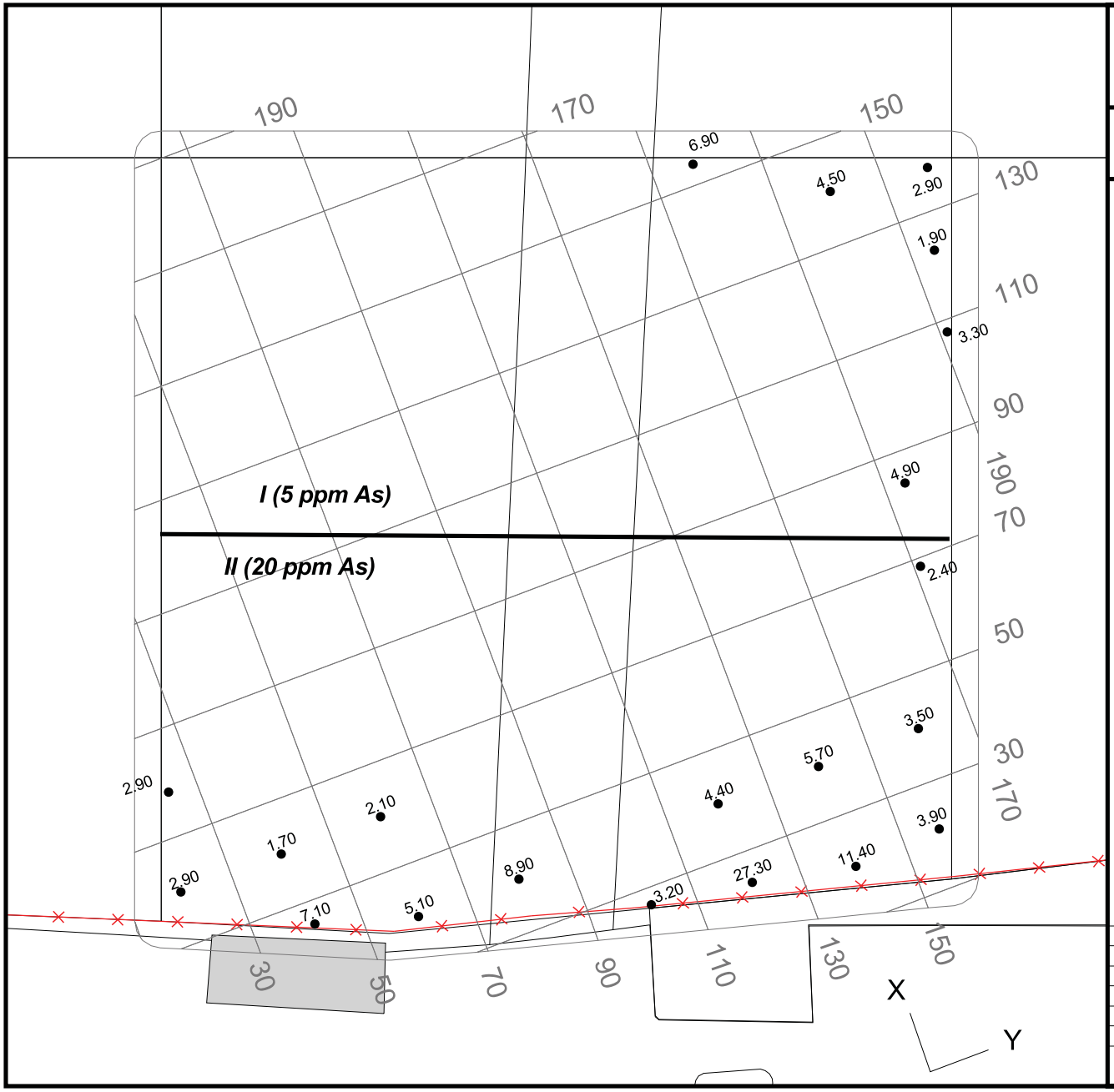
Half Sampled on 11/20/01
Grid Sampled on 2/11/02

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS



Final Grid Sampling Results
OU5-CSA-13-L81 (CSA 13)

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Sample Points
- 20' Grid
- Retaining Wall
- Pool
- Free Standing Wall
- Fence
- Hedge
- Sidewalk
- Roads
- Driveway
- Buildings
- Non-Residential Lots
- Parcels

Quadrant or Half Sampling Data Indicated by Roman Numerals and Parentheses

Half Sampled on 11/20/01
Grid Sampled on 2/11/02

30 0 30 Feet

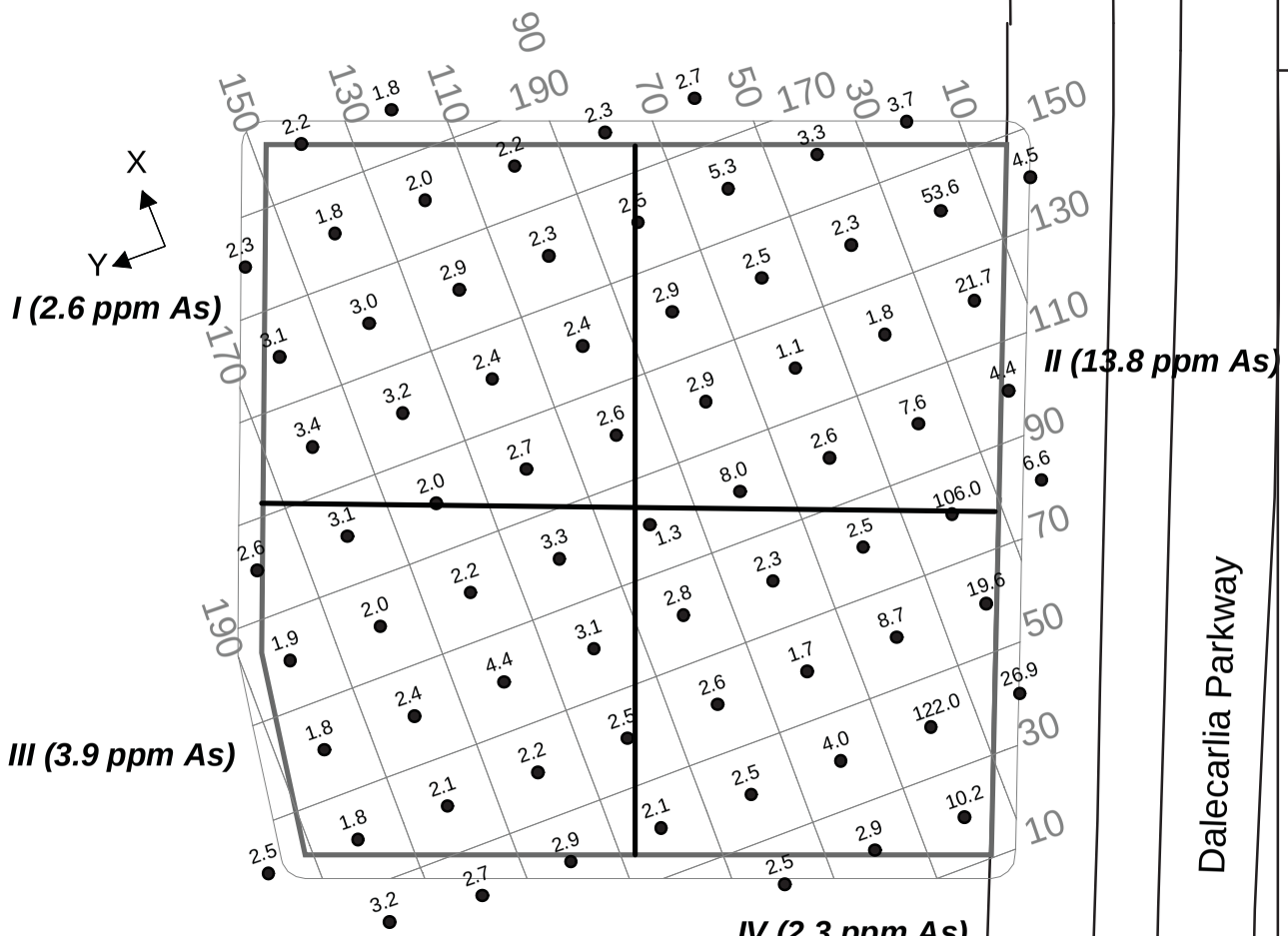
1 inch = 30 feet

Scale:	1 : 360
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	10/16/2002
Figure Number:	
Page Number:	

PARSONS

Final Grid Sampling Results
OU5-CTA-1B-L10 (CTA 1B)

Spring Valley Operable Unit 5
Washington, DC



Legend

- Sample Points
- 20' Grid
- Non-Residential Lots
- Road
- Property Boundary
- Building
- Hedge
- Retaining Wall
- Sidewalk
- Deck/Porch
- Driveway

Quadrant of Half Sampling Data Indicated by Roman Numerals and Parentheses

Quadrant Sampled on 8/20/2001
Grid Sampled on 6/11/2003

40 20 0 40 Feet

1 inch equals 40 feet

Scale:	1:480
Created By:	Parsons
File:	20031126 OU5-CTA-1B-L10 Grid Sampling Results.mxd
Date:	11/26/2003
Figure Number:	
Page Number:	

PARSONS

Spring Valley OU-4 and OU-5 Lots Key

Lot ID	Corresponding MAIN table ID	Address [1]	Owner
OU4-3401-L1 & L2	OU4-3401NA	3401 Nebraska Avenue	Metropolitian Methodist Church
OU4-4430-L3 & L4	OU4-4430NS	4430 Newark Street	District of Columbia - Horace Mann School
OU4-AU01 through AU30, AU-KREEG, & AU-WATKN	OU4-4400MA	4400 Massachusetts Avenue	American University
OU5-CTA-1A-L1 & L2	OU5-CTA-1A-4301(50)	4301 50th Street	W C & A N Miller Develop Co
OU5-CTA-1A-L3	OU5-CTA-1A-4915VNSVacant	4915 Vacant Van Ness Street	Jack D. & Irene Neal, Et Al
OU5-CTA-1B-L3 through L17	DC/Nat'l Park Grp 1B	DC/Nat'l Park Dalecarlia Pkwy	DC / National Park Service
OU5-CSA-2-L1 through L11	Dalecarlia Pkwy Lots	DP Lots Grp 2 Dalecarlia Pkwy	DC Right-of-Way
OU5-CSA-3-L2	OU5-CSA-3-L2	Lot 2 Massachusetts Avenue	DC Government
OU5-CSA-3-L3	OU5-CSA-3-4910MA	4910 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-3-L4	OU5-CSA-3-4315(50)	4315 50th Street	W C & A N Miller Develop Co
OU5-CSA-3-L5	OU5-CSA-3-L5	Lot 5 Massachusetts Avenue	DC Government
OU5-CSA-3-L6	OU5-CSA-3-4900MA	4900 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-3-L7	OU5-CSA-3-4860MA	4860 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-3-L8	OU5-CSA-3-4820MA	4820 Massachusetts Avenue	W C & A N Miller Develop Co
OU5-CSA-5-L1, L2, L4, L5, L6, L7, L16 through L25, L27 & L28	Friendship Park	Friendship Park 45th Street	DC Department of Recreation And Parks
OU5-CSA-5-L3, L8 through L15, L33, & L34	OU5-CSA-5-Reservoir	Van Ness Res. 45th Street	United States of America - Dept of The Interior
OU5-CSA-5-L26, L30, L31, & L32	OU5-CSA-5-parkc(45)	Park-C 45th Street	United States of America - Dept of The Interior
OU5-CSA-7-L1, L2, L 7, L8, L9, L13, L14, L16, L20, L21, L22, L24, L26, L27	OU5-CSA-7-3900NA	3900 Nebraska Avenue	Royal Swedish Government
OU5-CSA-7-L3 through L6, L10, L11, L12, L15, L17, L18, L19, L23, L25	OU5-CSA-7-4000NA	4000 Nebraska Avenue	Government of Japan
OU5-CSA-7-L28 through L31, L39, L40, L41, L50, L51, L52	OU5-CSA-7-4120VNS	4120 Van Ness Street	National Presbyterian Church
OU5-CSA-7-L35 & L36	OU5-CSA-7-4000VNS	4000 Van Ness Street	Potomac Electric Power Company
OU5-CSA-7-L38, L48, & L49	OU5-CSA-7-4100WA	4100 Wisconsin Avenue	G Eckles & A E Lord Trs
OU5-CSA-7-L57, L58 & L65	OU5-CSA-7-4000WA	4000 Wisconsin Avenue	Jan Evans & C B King Jr
OU5-CSA-7-L66, L68 through L79	OU5-CSA-7-3900WA	3900 Wisconsin Avenue	Federal National Mortgage Assoc
OU5-CSA-8-L1 through L10, & L19	OU5-CSA-8-3500MA	3500 Massachusetts Avenue	American University
OU5-CSA-8-L15 through L18, & L20	OU5-CSA-8-3700NA	3700 Nebraska Avenue	American University
OU5-CSA-8-L11 through L14	OU5-CSA-8-3850NA	3850 Nebraska Avenue	Temple Baptist Church, Trs C/O Elder Moats
OU5-CSA-9-L1 through L10, L12, L13, L15, L19, L20	OU5-CSA-9-4500MA	4500 Massachusetts Avenue	Wesley Theological Seminary
OU5-CSA-9-L11, L16, L17, L18, L22-L29, L31, L33-L42, & L44-L52	OU5-CSA-9-4400MA	4400 Massachusetts Avenue	American University
OU5-CSA-11-L1 through L6	OU5-CSA-11-DC Right-of-Way	DC Right-of-Way Quebec Street	DC Right-of-Way
OU5-CSA-12-L15, L16, & L17	OU5-CSA-12-4842IL	4842 Indian Lane	John K Delaney & April Delaney
OU5-CSA-12-L18 through L21	OU5-CSA-12-4925LR	4925 Loughboro Road	Republic of Mexico
OU5-CSA-13-L1 through L85, L93, L94, L95, & L104	OU5-CSA-13-WashAqueduct	Wash. Aqueduct	Washington Aqueduct Property Lots
OU5-CSA-13-L86, L88 through L99 & L100 through L103	OU5-CSA-13-5201LR	5201 Loughboro Road	Sibley Memorial Hospital
OU5-CSA-13-L87	OU5-CSA-13-5220LF	5220 Little Falls Road	Potomac Elec Power Co

[1] Those lots without a street number address can be found alphabetically at the end of the data table using the name in this column. Please note that all lots are listed although not all receive specialty or grid sampling.

Spring Valley OU4/OU-5 Arsenic Grid Sampling Results

Sampling Dates: 1/4/2001 - 9/30/2003 - Sorted Numerically by House Number

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match
OU4	OU4	3318 45th Street						
			OU4-3318(45)-(100,100)	9/5/2002	4.7	\2	mg/kg	
			OU4-3318(45)-(20,0)	9/5/2002	9.7	\2	mg/kg	
			OU4-3318(45)-(20,20)	9/5/2002	17.8	\2	mg/kg	
			OU4-3318(45)-(20,40)	9/5/2002	12.7	\2	mg/kg	
			OU4-3318(45)-(20,60)	9/5/2002	7.1	\2	mg/kg	
			OU4-3318(45)-(40,0)	9/5/2002	10.6	\2	mg/kg	
			OU4-3318(45)-(40,100)	9/5/2002	9.7	\2	mg/kg	
			OU4-3318(45)-(40,120)	9/5/2002	9.8	\2	mg/kg	
			OU4-3318(45)-(40,40)	9/5/2002	26.3	\2	mg/kg	
			OU4-3318(45)-(40,60)	9/5/2002	9.7	\2	mg/kg	
			OU4-3318(45)-(40,80)	9/5/2002	11.8	\2	mg/kg	
			OU4-3318(45)-(60,0)	9/5/2002	6.8	\2	mg/kg	
			OU4-3318(45)-(60,100)	9/5/2002	2.2 J	\2	mg/kg	
			OU4-3318(45)-(60,120)	9/5/2002	14.2	\2	mg/kg	
			OU4-3318(45)-(60,140)	9/5/2002	14.6	\2	mg/kg	
			OU4-3318(45)-(60,160)	9/5/2002	7.1	\2	mg/kg	
			OU4-3318(45)-(60,20)	9/5/2002	9.4	\2	mg/kg	
			OU4-3318(45)-(60,40)	9/5/2002	7.7	\2	mg/kg	
			OU4-3318(45)-(60,80)	9/5/2002	15.2	\2	mg/kg	
			OU4-3318(45)-(80,100)	9/5/2002	5	\2	mg/kg	
			OU4-3318(45)-(80,120)	9/5/2002	16.9	\2	mg/kg	
			OU4-3318(45)-(80,140)	9/5/2002	5.8	\2	mg/kg	
			OU4-3318(45)-(80,160)	9/5/2002	6.8	\2	mg/kg	
			OU4-3318(45)-(80,40)	9/5/2002	1.8	\2	mg/kg	
			OU4-3318(45)-(80,60)	9/5/2002	3.4	\2	mg/kg	
			OU4-3318(45)-(80,80)	9/5/2002	9.5	\2	mg/kg	
			OU4-3318(45)-DUP01	9/5/2002	10.2	\2	mg/kg	OU4-3318(45)-(40,0)
OU4	OU4	3401 Nebraska Avenue, Lot 2						
			OU4-3401NA-(0,140)	9/13/2001	4.8		mg/kg	
			OU4-3401NA-(100,100)	9/13/2001	9.4		mg/kg	
			OU4-3401NA-(100,120)	9/13/2001	4		mg/kg	
			OU4-3401NA-(100,180)	9/13/2001	6.3		mg/kg	
			OU4-3401NA-(100,200)	9/13/2001	4.5		mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-3401NA-(100,220)	9/13/2001	4.8	mg/kg	
			OU4-3401NA-(100,40)	9/13/2001	4.4	mg/kg	
			OU4-3401NA-(100,60)	9/13/2001	3.1	mg/kg	
			OU4-3401NA-(100,80)	9/13/2001	2.9	mg/kg	
			OU4-3401NA-(120,100)	9/13/2001	3.9	mg/kg	
			OU4-3401NA-(120,120)	9/13/2001	4.5	mg/kg	
			OU4-3401NA-(120,200)	9/13/2001	8.7	mg/kg	
			OU4-3401NA-(120,60)	9/13/2001	4.5	mg/kg	
			OU4-3401NA-(120,80)	9/13/2001	9.3	mg/kg	
			OU4-3401NA-(140,100)	9/13/2001	3.9	mg/kg	
			OU4-3401NA-(140,60)	9/13/2001	3.1 J	mg/kg	
			OU4-3401NA-(140,80)	9/13/2001	3.5	mg/kg	
			OU4-3401NA-(160,80)	9/13/2001	0.86 J	mg/kg	
			OU4-3401NA-(20,100)	9/13/2001	1.7 J	mg/kg	
			OU4-3401NA-(20,120)	9/13/2001	4.2	mg/kg	
			OU4-3401NA-(20,140)	9/13/2001	7.2	mg/kg	
			OU4-3401NA-(20,160)	9/13/2001	6.1	mg/kg	
			OU4-3401NA-(40,120)	9/13/2001	4.4	mg/kg	
			OU4-3401NA-(40,140)	9/13/2001	7.9	mg/kg	
			OU4-3401NA-(40,160)	9/13/2001	5.3	mg/kg	
			OU4-3401NA-(40,180)	9/13/2001	4.1	mg/kg	
			OU4-3401NA-(40,40)	9/13/2001	1.9 J	mg/kg	
			OU4-3401NA-(40,60)	9/13/2001	2.8	mg/kg	
			OU4-3401NA-(40,80)	9/13/2001	3.6	mg/kg	
			OU4-3401NA-(60,0)	9/13/2001	2.1	mg/kg	
			OU4-3401NA-(60,100)	9/13/2001	5.6	mg/kg	
			OU4-3401NA-(60,120)	9/13/2001	5.1	mg/kg	
			OU4-3401NA-(60,140)	9/13/2001	4.8	mg/kg	
			OU4-3401NA-(60,160)	9/13/2001	5.5	mg/kg	
			OU4-3401NA-(60,180)	9/13/2001	5.5	mg/kg	
			OU4-3401NA-(60,20)	9/13/2001	3.2	mg/kg	
			OU4-3401NA-(60,200)	9/13/2001	4.6	mg/kg	
			OU4-3401NA-(60,40)	9/13/2001	4.6	mg/kg	
			OU4-3401NA-(60,60)	9/13/2001	7.9	mg/kg	
			OU4-3401NA-(60,80)	9/13/2001	5.1	mg/kg	
			OU4-3401NA-(80,100)	9/13/2001	4	mg/kg	
			OU4-3401NA-(80,140)	9/13/2001	4.1	mg/kg	
			OU4-3401NA-(80,160)	9/13/2001	3.3	mg/kg	
			OU4-3401NA-(80,180)	9/13/2001	5.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-3401NA-(80,20)	9/13/2001	3.7	mg/kg	
			OU4-3401NA-(80,200)	9/13/2001	4.4	mg/kg	
			OU4-3401NA-(80,220)	9/13/2001	4.1	mg/kg	
			OU4-3401NA-(80,40)	9/13/2001	3.5	mg/kg	
			OU4-3401NA-(80,60)	9/13/2001	3.6	mg/kg	
			OU4-3401NA-(80,80)	9/13/2001	3.2	mg/kg	
			OU4-3401NA-DUP01	9/13/2001	4.5	mg/kg	OU4-3401NA-(40,120)
			OU4-3401NA-DUP02	9/13/2001	5.2	mg/kg	OU4-3401NA-(60,180)
			OU4-3401NA-DUP03	9/13/2001	3.9	mg/kg	OU4-3401NA-(80,20)
CSA	12	3514 Overlook Court					
			OU5-CSA-12-3514OC-(100,120)	1/14/2002	4.4	mg/kg	
			OU5-CSA-12-3514OC-(100,140)	1/14/2002	3.6	mg/kg	
			OU5-CSA-12-3514OC-(100,160)	1/14/2002	6.4	mg/kg	
			OU5-CSA-12-3514OC-(100,180)	1/14/2002	5.1	mg/kg	
			OU5-CSA-12-3514OC-(100,20)	1/14/2002	9.6	mg/kg	
			OU5-CSA-12-3514OC-(100,200)	1/14/2002	3.1	mg/kg	
			OU5-CSA-12-3514OC-(100,40)	1/14/2002	9.7	mg/kg	
			OU5-CSA-12-3514OC-(100,60)	1/14/2002	5.1	mg/kg	
			OU5-CSA-12-3514OC-(100,80)	1/14/2002	6.3	mg/kg	
			OU5-CSA-12-3514OC-(120,100)	1/14/2002	6.2	mg/kg	
			OU5-CSA-12-3514OC-(120,120)	1/14/2002	6.4	mg/kg	
			OU5-CSA-12-3514OC-(120,140)	1/14/2002	8.9	mg/kg	
			OU5-CSA-12-3514OC-(120,160)	1/14/2002	4.4	mg/kg	
			OU5-CSA-12-3514OC-(120,180)	1/14/2002	4	mg/kg	
			OU5-CSA-12-3514OC-(120,200)	1/14/2002	3.6	mg/kg	
			OU5-CSA-12-3514OC-(120,40)	1/14/2002	17.1	mg/kg	
			OU5-CSA-12-3514OC-(120,60)	1/14/2002	12.4	mg/kg	
			OU5-CSA-12-3514OC-(140,100)	1/14/2002	8.8	mg/kg	
			OU5-CSA-12-3514OC-(140,120)	1/14/2002	7.5	mg/kg	
			OU5-CSA-12-3514OC-(140,140)	1/14/2002	12.7	mg/kg	
			OU5-CSA-12-3514OC-(140,160)	1/14/2002	25.4	mg/kg	
			OU5-CSA-12-3514OC-(140,180)	1/14/2002	23.3	mg/kg	
			OU5-CSA-12-3514OC-(140,60)	1/14/2002	5.3	mg/kg	
			OU5-CSA-12-3514OC-(140,80)	1/14/2002	7	mg/kg	
			OU5-CSA-12-3514OC-(160,100)	1/14/2002	10.7	mg/kg	
			OU5-CSA-12-3514OC-(160,120)	1/14/2002	9	mg/kg	
			OU5-CSA-12-3514OC-(160,140)	1/14/2002	12.6	mg/kg	
			OU5-CSA-12-3514OC-(160,160)	1/14/2002	3.1	mg/kg	
			OU5-CSA-12-3514OC-(180,140)	1/14/2002	6.7	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-3514OC-(180,160)	1/14/2002	10.8	mg/kg	
			OU5-CSA-12-3514OC-(20,100)	1/14/2002	13.1	mg/kg	
			OU5-CSA-12-3514OC-(20,80)	1/14/2002	18.8	mg/kg	
			OU5-CSA-12-3514OC-(40,100)	1/14/2002	5.2	mg/kg	
			OU5-CSA-12-3514OC-(40,120)	1/14/2002	12.1	mg/kg	
			OU5-CSA-12-3514OC-(40,140)	1/14/2002	5	mg/kg	
			OU5-CSA-12-3514OC-(40,60)	1/14/2002	11.6	mg/kg	
			OU5-CSA-12-3514OC-(40,80)	1/14/2002	11.1	mg/kg	
			OU5-CSA-12-3514OC-(60,100)	1/14/2002	4.1	mg/kg	
			OU5-CSA-12-3514OC-(60,120)	1/14/2002	9.4	mg/kg	
			OU5-CSA-12-3514OC-(60,140)	1/14/2002	5.2	mg/kg	
			OU5-CSA-12-3514OC-(60,160)	1/14/2002	4.3	mg/kg	
			OU5-CSA-12-3514OC-(60,180)	1/14/2002	2.9	mg/kg	
			OU5-CSA-12-3514OC-(60,60)	1/14/2002	3.9	mg/kg	
			OU5-CSA-12-3514OC-(60,80)	1/14/2002	4.4	mg/kg	
			OU5-CSA-12-3514OC-(80,120)	1/14/2002	4.8	mg/kg	
			OU5-CSA-12-3514OC-(80,140)	1/14/2002	6.2	mg/kg	
			OU5-CSA-12-3514OC-(80,160)	1/14/2002	9.8	mg/kg	
			OU5-CSA-12-3514OC-(80,180)	1/14/2002	7.2	mg/kg	
			OU5-CSA-12-3514OC-(80,20)	1/14/2002	7.8	mg/kg	
			OU5-CSA-12-3514OC-(80,200)	1/14/2002	2.5	mg/kg	
			OU5-CSA-12-3514OC-(80,40)	1/14/2002	13.2	mg/kg	
			OU5-CSA-12-3514OC-(80,60)	1/14/2002	8.8	mg/kg	
			OU5-CSA-12-3514OC-(80,80)	1/14/2002	4.7	mg/kg	
			OU5-CSA-12-3514OC-DUP01	1/14/2002	5.3	mg/kg	OU5-CSA-12-3514OC-(60,60)
			OU5-CSA-12-3514OC-DUP02	1/14/2002	4.9	mg/kg	OU5-CSA-12-3514OC-(100,160)
			OU5-CSA-12-3514OC-DUP03	1/14/2002	4.7	mg/kg	OU5-CSA-12-3514OC-(60,140)
CSA	*10*	*3641 49th Street*					
			OU5-CSA-10-3641(49)-(100,100)	11/7/2001	5.8	mg/kg	
			OU5-CSA-10-3641(49)-(100,120)	11/7/2001	4.8	mg/kg	
			OU5-CSA-10-3641(49)-(20,0)	11/7/2001	4	mg/kg	
			OU5-CSA-10-3641(49)-(20,120)	11/7/2001	16.5	mg/kg	
			OU5-CSA-10-3641(49)-(20,20)	11/7/2001	3.4	mg/kg	
			OU5-CSA-10-3641(49)-(20,40)	11/7/2001	2.3 J	mg/kg	
			OU5-CSA-10-3641(49)-(20,60)	11/7/2001	5.5	mg/kg	
			OU5-CSA-10-3641(49)-(20,80)	11/7/2001	3.6	mg/kg	
			OU5-CSA-10-3641(49)-(40,0)	11/7/2001	3.8	mg/kg	
			OU5-CSA-10-3641(49)-(40,100)	11/7/2001	23.3	mg/kg	
			OU5-CSA-10-3641(49)-(40,120)	11/7/2001	58.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-10-3641(49)-(40,20)	11/7/2001	3.9	mg/kg	
			OU5-CSA-10-3641(49)-(40,40)	11/7/2001	4.9	mg/kg	
			OU5-CSA-10-3641(49)-(40,60)	11/7/2001	3.1	mg/kg	
			OU5-CSA-10-3641(49)-(40,80)	11/7/2001	3.9 J	mg/kg	
			OU5-CSA-10-3641(49)-(60,0)	11/7/2001	7.8	mg/kg	
			OU5-CSA-10-3641(49)-(60,100)	11/7/2001	46.9	mg/kg	
			OU5-CSA-10-3641(49)-(60,120)	11/7/2001	31.2	mg/kg	
			OU5-CSA-10-3641(49)-(60,20)	11/7/2001	103	mg/kg	
			OU5-CSA-10-3641(49)-(60,40)	11/7/2001	3.6	mg/kg	
			OU5-CSA-10-3641(49)-(60,60)	11/7/2001	3.2	mg/kg	
			OU5-CSA-10-3641(49)-(80,0)	11/7/2001	18.7	mg/kg	
			OU5-CSA-10-3641(49)-(80,100)	11/7/2001	49.1	mg/kg	
			OU5-CSA-10-3641(49)-(80,120)	11/7/2001	35	mg/kg	
			OU5-CSA-10-3641(49)-(80,20)	11/7/2001	108	mg/kg	
			OU5-CSA-10-3641(49)-(80,40)	11/7/2001	21.2	mg/kg	
			OU5-CSA-10-3641(49)-(80,60)	11/7/2001	4.5	mg/kg	
			OU5-CSA-10-3641(49)-(80,80)	11/7/2001	32	mg/kg	
			OU5-CSA-10-3641(49)-20,100)	11/7/2001	59.6	mg/kg	
			OU5-CSA-10-3641(49)-DUP01	11/7/2001	54	mg/kg	OU5-CSA-10-3641(49)-(40,120)
			OU5-CSA-10-3641(49)-DUP02	11/7/2001	2.3 J	mg/kg	OU5-CSA-10-3641(49)-(20,40)
			OU5-CSA-10-3641(49)-SB1	11/7/2001	24.9	mg/kg	
			OU5-CSA-10-3641(49)-SB2	11/7/2001	2.5 J	mg/kg	
			OU5-CSA-10-3641(49)-SB3	11/7/2001	2.1 J	mg/kg	
			OU5-CSA-10-3641(49)-SB4	11/7/2001	3.6	mg/kg	
			OU5-CSA-10-3641(49)-SB5	11/7/2001	2.4 J	mg/kg	
			OU5-CSA-10-3641(49)-SB6	11/7/2001	1.2 J	mg/kg	
CTA	1C	3650 Fordham Road					
			OU5-CTA-1C-3650FR-(100,100)	1/15/2002	3.7	mg/kg	
			OU5-CTA-1C-3650FR-(100,120)	1/15/2002	2.9	mg/kg	
			OU5-CTA-1C-3650FR-(100,140)	1/15/2002	8	mg/kg	
			OU5-CTA-1C-3650FR-(100,160)	1/15/2002	4.7	mg/kg	
			OU5-CTA-1C-3650FR-(100,20)	1/15/2002	4.2	mg/kg	
			OU5-CTA-1C-3650FR-(100,40)	1/15/2002	4.5	mg/kg	
			OU5-CTA-1C-3650FR-(100,60)	1/15/2002	5.2	mg/kg	
			OU5-CTA-1C-3650FR-(100,80)	1/15/2002	8.5	mg/kg	
			OU5-CTA-1C-3650FR-(120,100)	1/15/2002	10.1	mg/kg	
			OU5-CTA-1C-3650FR-(120,120)	1/15/2002	2.7	mg/kg	
			OU5-CTA-1C-3650FR-(120,140)	1/15/2002	4	mg/kg	
			OU5-CTA-1C-3650FR-(120,20)	1/15/2002	5.7	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CTA-1C-3650FR-(120,40)	1/15/2002	4.1	mg/kg	
			OU5-CTA-1C-3650FR-(120,60)	1/15/2002	6.7	mg/kg	
			OU5-CTA-1C-3650FR-(120,80)	1/15/2002	8.1	mg/kg	
			OU5-CTA-1C-3650FR-(140,100)	1/15/2002	9.6	mg/kg	
			OU5-CTA-1C-3650FR-(140,120)	1/15/2002	21.7	mg/kg	
			OU5-CTA-1C-3650FR-(140,140)	1/15/2002	3.9	mg/kg	
			OU5-CTA-1C-3650FR-(140,60)	1/15/2002	6.1	mg/kg	
			OU5-CTA-1C-3650FR-(140,80)	1/15/2002	7.9	mg/kg	
			OU5-CTA-1C-3650FR-(160,100)	1/15/2002	9.5	mg/kg	
			OU5-CTA-1C-3650FR-(160,120)	1/15/2002	16.8	mg/kg	
			OU5-CTA-1C-3650FR-(160,80)	1/15/2002	4.6	mg/kg	
			OU5-CTA-1C-3650FR-(20,100)	1/15/2002	10.7	mg/kg	
			OU5-CTA-1C-3650FR-(20,120)	1/15/2002	33.7	mg/kg	
			OU5-CTA-1C-3650FR-(20,80)	1/15/2002	5.5	mg/kg	
			OU5-CTA-1C-3650FR-(40,100)	1/15/2002	40.9	mg/kg	
			OU5-CTA-1C-3650FR-(40,120)	1/15/2002	17.2	mg/kg	
			OU5-CTA-1C-3650FR-(40,140)	1/15/2002	26.8	mg/kg	
			OU5-CTA-1C-3650FR-(40,80)	1/15/2002	3.3	mg/kg	
			OU5-CTA-1C-3650FR-(60,100)	1/15/2002	7.8	mg/kg	
			OU5-CTA-1C-3650FR-(60,120)	1/15/2002	29.5	mg/kg	
			OU5-CTA-1C-3650FR-(60,140)	1/15/2002	24.3	mg/kg	
			OU5-CTA-1C-3650FR-(60,160)	1/15/2002	20.5	mg/kg	
			OU5-CTA-1C-3650FR-(60,60)	1/15/2002	4.3	mg/kg	
			OU5-CTA-1C-3650FR-(60,80)	1/15/2002	7.4	mg/kg	
			OU5-CTA-1C-3650FR-(80,100)	1/15/2002	11.5	mg/kg	
			OU5-CTA-1C-3650FR-(80,120)	1/15/2002	14.3	mg/kg	
			OU5-CTA-1C-3650FR-(80,140)	1/15/2002	17	mg/kg	
			OU5-CTA-1C-3650FR-(80,160)	1/15/2002	9.2	mg/kg	
			OU5-CTA-1C-3650FR-(80,40)	1/15/2002	6.2	mg/kg	
			OU5-CTA-1C-3650FR-(80,60)	1/15/2002	3.1	mg/kg	
			OU5-CTA-1C-3650FR-(80,80)	1/15/2002	5.5	mg/kg	
			OU5-CTA-1C-3650FR-DUP01	1/15/2002	8.3	mg/kg	OU5-CTA-1C-3650FR-(80,160)
			OU5-CTA-1C-3650FR-DUP02	1/15/2002	8.6	mg/kg	OU5-CTA-1C-3650FR-(140,100)
CTA	1C	3706 Fordham Road					
			OU5-CTA-1C-3706FR-(100,100)	11/29/2001	28.4 K	mg/kg	
			OU5-CTA-1C-3706FR-(100,120)	11/29/2001	29.9 K	mg/kg	
			OU5-CTA-1C-3706FR-(100,20)	11/29/2001	15 K	mg/kg	
			OU5-CTA-1C-3706FR-(100,40)	11/29/2001	30.8 K	mg/kg	
			OU5-CTA-1C-3706FR-(100,60)	11/29/2001	5.2 K	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-3706FR-(120,100)	11/29/2001	12.9 K	mg/kg	
			OU5-CTA-1C-3706FR-(120,20)	11/29/2001	9.2 K	mg/kg	
			OU5-CTA-1C-3706FR-(120,40)	11/29/2001	19.2 K	mg/kg	
			OU5-CTA-1C-3706FR-(120,60)	11/29/2001	10.3 K	mg/kg	
			OU5-CTA-1C-3706FR-(120,80)	11/29/2001	27.3 K	mg/kg	
			OU5-CTA-1C-3706FR-(140,100)	11/29/2001	10.1 K	mg/kg	
			OU5-CTA-1C-3706FR-(140,60)	11/29/2001	19.2 K	mg/kg	
			OU5-CTA-1C-3706FR-(140,80)	11/29/2001	25.1 K	mg/kg	
			OU5-CTA-1C-3706FR-(160,80)	11/29/2001	13.6 K	mg/kg	
			OU5-CTA-1C-3706FR-(20,80)	11/29/2001	2.9 JK	mg/kg	
			OU5-CTA-1C-3706FR-(40,100)	11/29/2001	42.2 K	mg/kg	
			OU5-CTA-1C-3706FR-(40,120)	11/29/2001	16.6 K	mg/kg	
			OU5-CTA-1C-3706FR-(40,140)	11/29/2001	15.8 K	mg/kg	
			OU5-CTA-1C-3706FR-(40,60)	11/29/2001	16.4 K	mg/kg	
			OU5-CTA-1C-3706FR-(40,80)	11/29/2001	14.8 K	mg/kg	
			OU5-CTA-1C-3706FR-(60,100)	11/29/2001	10.8 K	mg/kg	
			OU5-CTA-1C-3706FR-(60,120)	11/29/2001	31.1 K	mg/kg	
			OU5-CTA-1C-3706FR-(60,140)	11/29/2001	27 K	mg/kg	
			OU5-CTA-1C-3706FR-(60,60)	11/29/2001	34.2 K	mg/kg	
			OU5-CTA-1C-3706FR-(60,80)	11/29/2001	17.8 K	mg/kg	
			OU5-CTA-1C-3706FR-(80,100)	11/29/2001	20.7 K	mg/kg	
			OU5-CTA-1C-3706FR-(80,120)	11/29/2001	10.9 K	mg/kg	
			OU5-CTA-1C-3706FR-(80,140)	11/29/2001	11.6 K	mg/kg	
			OU5-CTA-1C-3706FR-(80,40)	11/29/2001	9.7 K	mg/kg	
			OU5-CTA-1C-3706FR-(80,60)	11/29/2001	19.4 K	mg/kg	
			OU5-CTA-1C-3706FR-(80,80)	11/29/2001	22.7 K	mg/kg	
			OU5-CTA-1C-3706FR-DUP01	11/29/2001	30.4 K	mg/kg	OU5-CTA-1C-3706FR-(60,120)
			OU5-CTA-1C-3706FR-DUP02	11/29/2001	14.4 K	mg/kg	OU5-CTA-1C-3706FR-(100,100)
CSA	10	3709 Corey Place					
			OU5-CSA-10-3709CP-(100,100)	9/28/2001	4.1	mg/kg	
			OU5-CSA-10-3709CP-(100,120)	9/28/2001	2.5	mg/kg	
			OU5-CSA-10-3709CP-(100,60)	9/28/2001	9.9	mg/kg	
			OU5-CSA-10-3709CP-(100,80)	9/28/2001	25.9	mg/kg	
			OU5-CSA-10-3709CP-(120,100)	9/28/2001	3.7	mg/kg	
			OU5-CSA-10-3709CP-(120,80)	9/28/2001	4.6	mg/kg	
			OU5-CSA-10-3709CP-(140,100)	9/28/2001	3.3	mg/kg	
			OU5-CSA-10-3709CP-(40,20)	9/28/2001	33.3	mg/kg	
			OU5-CSA-10-3709CP-(40,40)	9/28/2001	45.6	mg/kg	
			OU5-CSA-10-3709CP-(40,60)	9/28/2001	335	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-10-3709CP-(40,80)	9/28/2001	17.5	mg/kg	
			OU5-CSA-10-3709CP-(60,100)	9/28/2001	15.2	mg/kg	
			OU5-CSA-10-3709CP-(60,120)	9/28/2001	6.7	mg/kg	
			OU5-CSA-10-3709CP-(60,140)	9/28/2001	2 J	mg/kg	
			OU5-CSA-10-3709CP-(60,20)	9/28/2001	12.9	mg/kg	
			OU5-CSA-10-3709CP-(60,40)	9/28/2001	47.5	mg/kg	
			OU5-CSA-10-3709CP-(60,60)	9/28/2001	5.9	mg/kg	
			OU5-CSA-10-3709CP-(60,80)	9/28/2001	3.9	mg/kg	
			OU5-CSA-10-3709CP-(80,100)	9/28/2001	1.8 J	mg/kg	
			OU5-CSA-10-3709CP-(80,120)	9/28/2001	2.5 J	mg/kg	
			OU5-CSA-10-3709CP-(80,40)	9/28/2001	108	mg/kg	
			OU5-CSA-10-3709CP-(80,60)	9/28/2001	8.4	mg/kg	
			OU5-CSA-10-3709CP-(80,80)	9/28/2001	25.9	mg/kg	
			OU5-CSA-10-3709CP-DUP01	9/28/2001	4	mg/kg	OU5-CSA-10-3709CP-(100,100)
			OU5-CSA-10-3709CP-SB1	9/24/2001	2.8	mg/kg	
			OU5-CSA-10-3709CP-SB2	9/24/2001	3.6	mg/kg	
			OU5-CSA-10-3709CP-SB3	9/24/2001	6.5	mg/kg	
			OU5-CSA-10-3709CP-SB4	9/24/2001	3.5	mg/kg	
			OU5-CSA-10-3709CP-SB5	9/24/2001	2.8	mg/kg	
			OU5-CSA-10-3709CP-SB6	9/24/2001	1.5 J	mg/kg	
			OU5-CSA-10-3709CP-SB7	9/24/2001	1.9 J	mg/kg	
			OU5-CSA-10-3709CP-SB8	9/24/2001	1.6 J	mg/kg	
			OU5-CSA-10-3709CP-SB9	9/24/2001	3.6 J	mg/kg	
CSA	**11**	**3717 Fordham Road**					
			OU5-CSA-11-3717FR-(100,100)	1/14/2002	2.1 J	mg/kg	
			OU5-CSA-11-3717FR-(100,120)	1/14/2002	2.4	mg/kg	
			OU5-CSA-11-3717FR-(100,140)	1/14/2002	4.1	mg/kg	
			OU5-CSA-11-3717FR-(100,160)	1/14/2002	2.4 J	mg/kg	
			OU5-CSA-11-3717FR-(100,180)	1/14/2002	9.4	mg/kg	
			OU5-CSA-11-3717FR-(100,40)	1/14/2002	36.6	mg/kg	
			OU5-CSA-11-3717FR-(100,60)	1/14/2002	41.4	mg/kg	
			OU5-CSA-11-3717FR-(100,80)	1/14/2002	2.9	mg/kg	
			OU5-CSA-11-3717FR-(120,100)	1/14/2002	2.2	mg/kg	
			OU5-CSA-11-3717FR-(120,120)	1/14/2002	5.8	mg/kg	
			OU5-CSA-11-3717FR-(120,140)	1/14/2002	3	mg/kg	
			OU5-CSA-11-3717FR-(120,160)	1/14/2002	4.5	mg/kg	
			OU5-CSA-11-3717FR-(120,180)	1/14/2002	3.9	mg/kg	
			OU5-CSA-11-3717FR-(120,200)	1/14/2002	2.9	mg/kg	
			OU5-CSA-11-3717FR-(120,60)	1/14/2002	3.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-3717FR-(120,80)	1/14/2002	2.3 J	mg/kg	
			OU5-CSA-11-3717FR-(140,100)	1/14/2002	2.3	mg/kg	
			OU5-CSA-11-3717FR-(140,120)	1/14/2002	4.1	mg/kg	
			OU5-CSA-11-3717FR-(140,140)	1/14/2002	3.2	mg/kg	
			OU5-CSA-11-3717FR-(140,160)	1/14/2002	3.6	mg/kg	
			OU5-CSA-11-3717FR-(140,180)	1/14/2002	3.4	mg/kg	
			OU5-CSA-11-3717FR-(140,200)	1/14/2002	2.2	mg/kg	
			OU5-CSA-11-3717FR-(140,220)	1/14/2002	3.1	mg/kg	
			OU5-CSA-11-3717FR-(140,80)	1/14/2002	3.7	mg/kg	
			OU5-CSA-11-3717FR-(160,120)	1/14/2002	3.7	mg/kg	
			OU5-CSA-11-3717FR-(160,140)	1/14/2002	4.8	mg/kg	
			OU5-CSA-11-3717FR-(160,160)	1/14/2002	3.7	mg/kg	
			OU5-CSA-11-3717FR-(160,180)	1/14/2002	4.4	mg/kg	
			OU5-CSA-11-3717FR-(160,200)	1/14/2002	3.8	mg/kg	
			OU5-CSA-11-3717FR-(160,220)	1/14/2002	4.1	mg/kg	
			OU5-CSA-11-3717FR-(160,240)	1/14/2002	4.1	mg/kg	
			OU5-CSA-11-3717FR-(20,40)	1/14/2002	27.7	mg/kg	
			OU5-CSA-11-3717FR-(20,60)	1/14/2002	64.7	mg/kg	
			OU5-CSA-11-3717FR-(40,100)	1/14/2002	8.4	mg/kg	
			OU5-CSA-11-3717FR-(40,20)	1/14/2002	17.1	mg/kg	
			OU5-CSA-11-3717FR-(40,40)	1/14/2002	17.8	mg/kg	
			OU5-CSA-11-3717FR-(40,60)	1/14/2002	23.6	mg/kg	
			OU5-CSA-11-3717FR-(40,80)	1/14/2002	8.6	mg/kg	
			OU5-CSA-11-3717FR-(60,100)	1/14/2002	2.8	mg/kg	
			OU5-CSA-11-3717FR-(60,120)	1/14/2002	3.6	mg/kg	
			OU5-CSA-11-3717FR-(60,20)	1/14/2002	37.1	mg/kg	
			OU5-CSA-11-3717FR-(60,40)	1/14/2002	5.3	mg/kg	
			OU5-CSA-11-3717FR-(60,60)	1/14/2002	4.4	mg/kg	
			OU5-CSA-11-3717FR-(60,80)	1/14/2002	5.9	mg/kg	
			OU5-CSA-11-3717FR-(80,100)	1/14/2002	3.3	mg/kg	
			OU5-CSA-11-3717FR-(80,120)	1/14/2002	2.5	mg/kg	
			OU5-CSA-11-3717FR-(80,140)	1/14/2002	3.2	mg/kg	
			OU5-CSA-11-3717FR-(80,160)	1/14/2002	3	mg/kg	
			OU5-CSA-11-3717FR-(80,20)	1/14/2002	26.6	mg/kg	
			OU5-CSA-11-3717FR-(80,40)	1/14/2002	3.3	mg/kg	
			OU5-CSA-11-3717FR-(80,60)	1/14/2002	13.4	mg/kg	
			OU5-CSA-11-3717FR-(80,80)	1/14/2002	3.7	mg/kg	
			OU5-CSA-11-3717FR-DUP01	1/14/2002	3.9	mg/kg	OU5-CSA-11-3717FR-(140,120)
			OU5-CSA-11-3717FR-DUP02	1/14/2002	2.7	mg/kg	OU5-CSA-11-3717FR-(100,120)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-3717FR-DUP03	1/14/2002	3.4	mg/kg	OU5-CSA-11-3717FR-(120,160)
CTA	1C	3720 Fordham Road					
			OU5-CTA-1C-3720FR-(135,265)	2/26/2002	7.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(145,255)	2/26/2002	7.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(145,265)	2/26/2002	4.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(145,275)	2/26/2002	8.6 J	mg/kg	
			OU5-CTA-1C-3720FR-(155,245)	2/26/2002	6.6 J	mg/kg	
			OU5-CTA-1C-3720FR-(155,255)	2/26/2002	3.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(155,265)	2/26/2002	3.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(155,275)	2/26/2002	4.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(155,285)	2/26/2002	3.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(165,235)	2/26/2002	5.4 J	mg/kg	
			OU5-CTA-1C-3720FR-(165,245)	2/26/2002	4.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(165,255)	2/26/2002	2.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(165,265)	2/26/2002	3.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(165,275)	2/26/2002	5.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(165,285)	2/26/2002	3.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(165,295)	2/26/2002	4.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(175,225)	2/26/2002	4.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(175,235)	2/26/2002	4.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(175,245)	2/26/2002	3.4 J	mg/kg	
			OU5-CTA-1C-3720FR-(175,255)	2/26/2002	3.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(175,265)	2/26/2002	4.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(175,275)	2/26/2002	3.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(175,285)	2/26/2002	3.6 J	mg/kg	
			OU5-CTA-1C-3720FR-(175,295)	2/26/2002	5.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(175,305)	2/26/2002	62 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,215)	2/26/2002	5.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,225)	2/26/2002	3.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,235)	2/26/2002	4.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,245)	2/26/2002	4.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,255)	2/26/2002	3.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,265)	2/26/2002	3.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,275)	2/26/2002	3.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,285)	2/26/2002	3.8 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,295)	2/26/2002	5.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,305)	2/26/2002	4.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(185,315)	2/26/2002	4.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,215)	2/26/2002	3.7 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-3720FR-(195,225)	2/26/2002	4.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,235)	2/26/2002	5.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,245)	2/26/2002	2.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,255)	2/26/2002	3.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,265)	2/26/2002	2.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,275)	2/26/2002	1.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,285)	2/26/2002	2.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,305)	2/26/2002	4.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,315)	2/26/2002	2.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(195,325)	2/26/2002	3.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(205,225)	2/26/2002	3.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(205,235)	2/26/2002	6.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(205,245)	2/26/2002	5.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(205,265)	2/26/2002	2.6 J	mg/kg	
			OU5-CTA-1C-3720FR-(205,275)	2/26/2002	2.8 J	mg/kg	
			OU5-CTA-1C-3720FR-(205,305)	2/26/2002	5.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(205,315)	2/26/2002	4.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(205,325)	2/26/2002	4.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(205,335)	2/26/2002	4.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(215,225)	2/26/2002	107 J	mg/kg	
			OU5-CTA-1C-3720FR-(215,235)	2/26/2002	9 J	mg/kg	
			OU5-CTA-1C-3720FR-(215,255)	2/26/2002	3.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(215,265)	2/26/2002	3.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(215,305)	2/26/2002	3 J	mg/kg	
			OU5-CTA-1C-3720FR-(215,315)	2/26/2002	4.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(215,325)	2/26/2002	4 J	mg/kg	
			OU5-CTA-1C-3720FR-(215,335)	2/26/2002	5.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(215,345)	2/26/2002	9.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,235)	2/26/2002	3.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,245)	2/26/2002	2.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,255)	2/26/2002	2.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,295)	2/26/2002	3.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,305)	2/26/2002	3 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,315)	2/26/2002	3.6 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,325)	2/26/2002	3.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,335)	2/26/2002	3.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,345)	2/26/2002	3.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(225,355)	2/26/2002	3.4 J	mg/kg	
			OU5-CTA-1C-3720FR-(235,245)	2/26/2002	65.7 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-3720FR-(235,285)	2/26/2002	6.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(235,295)	2/26/2002	2.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(235,305)	2/26/2002	5.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(235,315)	2/26/2002	2.8 J	mg/kg	
			OU5-CTA-1C-3720FR-(235,325)	2/26/2002	3.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(235,335)	2/26/2002	2.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(235,345)	2/26/2002	3.8 J	mg/kg	
			OU5-CTA-1C-3720FR-(235,355)	2/26/2002	4.4 J	mg/kg	
			OU5-CTA-1C-3720FR-(235,365)	2/26/2002	5.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,255)	2/26/2002	6 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,265)	2/26/2002	3.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,275)	2/26/2002	6.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,285)	2/26/2002	4.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,295)	2/26/2002	2.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,305)	2/26/2002	3.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,315)	2/26/2002	3.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,325)	2/26/2002	3.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,335)	2/26/2002	2.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,345)	2/26/2002	3 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,355)	2/26/2002	4.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(245,365)	2/26/2002	5.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,255)	2/26/2002	6 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,265)	2/26/2002	3.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,275)	2/26/2002	3.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,285)	2/26/2002	3.4 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,295)	2/26/2002	3.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,305)	2/26/2002	1.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,315)	2/26/2002	3.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,325)	2/26/2002	4.6 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,335)	2/26/2002	4.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,345)	2/26/2002	4.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(255,355)	2/26/2002	3.2 J	mg/kg	
			OU5-CTA-1C-3720FR-(265,265)	2/26/2002	8.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(265,275)	2/26/2002	4.6 J	mg/kg	
			OU5-CTA-1C-3720FR-(265,285)	2/26/2002	3.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(265,295)	2/26/2002	2.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(265,305)	2/26/2002	2.4 J	mg/kg	
			OU5-CTA-1C-3720FR-(265,315)	2/26/2002	2.9 J	mg/kg	
			OU5-CTA-1C-3720FR-(265,325)	2/26/2002	8.6 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-3720FR-(265,335)	2/26/2002	4.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(275,275)	2/26/2002	4.8 J	mg/kg	
			OU5-CTA-1C-3720FR-(275,285)	2/26/2002	4.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(275,295)	2/26/2002	3 J	mg/kg	
			OU5-CTA-1C-3720FR-(275,305)	2/26/2002	4.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(275,315)	2/26/2002	2.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(275,325)	2/26/2002	33.7 J	mg/kg	
			OU5-CTA-1C-3720FR-(285,275)	2/26/2002	8.8 J	mg/kg	
			OU5-CTA-1C-3720FR-(285,285)	2/26/2002	4.4 J	mg/kg	
			OU5-CTA-1C-3720FR-(285,295)	2/26/2002	5.1 J	mg/kg	
			OU5-CTA-1C-3720FR-(285,305)	2/26/2002	5.5 J	mg/kg	
			OU5-CTA-1C-3720FR-(295,285)	2/26/2002	8.3 J	mg/kg	
			OU5-CTA-1C-3720FR-(295,295)	2/26/2002	4.4 J	mg/kg	
			OU5-CTA-1C-3720FR-DUP01	2/26/2002	3.4 J	mg/kg	OU5-CTA-1C-3720FR-(205,265)
			OU5-CTA-1C-3720FR-DUP02	2/26/2002	3.5 J	mg/kg	OU5-CTA-1C-3720FR-(245,305)
			OU5-CTA-1C-3720FR-DUP03	2/26/2002	4.3 J	mg/kg	OU5-CTA-1C-3720FR-(265,335)
			OU5-CTA-1C-3720FR-DUP04	2/26/2002	3.3 J	mg/kg	OU5-CTA-1C-3720FR-(175,255)
			OU5-CTA-1C-3720FR-DUP05	2/26/2002	3.9 J	mg/kg	OU5-CTA-1C-3720FR-(185,305)
			OU5-CTA-1C-3720FR-DUP06	2/26/2002	4.2 J	mg/kg	OU5-CTA-1C-3720FR-(205,245)
CTA	1B	3800 52nd Street					
			OU5-CTA-1B-3800(52)-(0,140)	12/10/2001	11	mg/kg	
			OU5-CTA-1B-3800(52)-(100,100)	12/10/2001	1.6 J	mg/kg	
			OU5-CTA-1B-3800(52)-(100,120)	12/10/2001	2.7	mg/kg	
			OU5-CTA-1B-3800(52)-(100,140)	12/10/2001	2.2	mg/kg	
			OU5-CTA-1B-3800(52)-(100,160)	12/10/2001	3.3	mg/kg	
			OU5-CTA-1B-3800(52)-(100,180)	12/10/2001	2.9	mg/kg	
			OU5-CTA-1B-3800(52)-(100,20)	12/10/2001	4.9	mg/kg	
			OU5-CTA-1B-3800(52)-(100,200)	12/10/2001	4.1	mg/kg	
			OU5-CTA-1B-3800(52)-(100,40)	12/10/2001	3.3	mg/kg	
			OU5-CTA-1B-3800(52)-(100,60)	12/10/2001	2 J	mg/kg	
			OU5-CTA-1B-3800(52)-(100,80)	12/10/2001	1.8 J	mg/kg	
			OU5-CTA-1B-3800(52)-(120,120)	12/10/2001	4.4	mg/kg	
			OU5-CTA-1B-3800(52)-(120,140)	12/10/2001	2 J	mg/kg	
			OU5-CTA-1B-3800(52)-(120,160)	12/10/2001	2.6 J	mg/kg	
			OU5-CTA-1B-3800(52)-(120,180)	12/10/2001	2.8	mg/kg	
			OU5-CTA-1B-3800(52)-(120,20)	12/10/2001	1.7 J	mg/kg	
			OU5-CTA-1B-3800(52)-(120,200)	12/10/2001	1.9 J	mg/kg	
			OU5-CTA-1B-3800(52)-(120,220)	12/10/2001	1.3 J	mg/kg	
			OU5-CTA-1B-3800(52)-(120,40)	12/10/2001	3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1B-3800(52)-(120,60)	12/10/2001	2.8	mg/kg	
			OU5-CTA-1B-3800(52)-(120,80)	12/10/2001	4.9	mg/kg	
			OU5-CTA-1B-3800(52)-(140,120)	12/10/2001	1.9 J	mg/kg	
			OU5-CTA-1B-3800(52)-(140,140)	12/10/2001	2.2 J	mg/kg	
			OU5-CTA-1B-3800(52)-(140,160)	12/10/2001	1.1 J	mg/kg	
			OU5-CTA-1B-3800(52)-(140,180)	12/10/2001	0.92 J	mg/kg	
			OU5-CTA-1B-3800(52)-(140,200)	12/10/2001	2.1 J	mg/kg	
			OU5-CTA-1B-3800(52)-(140,220)	12/10/2001	1.9 J	mg/kg	
			OU5-CTA-1B-3800(52)-(20,120)	12/10/2001	8.1	mg/kg	
			OU5-CTA-1B-3800(52)-(20,140)	12/10/2001	2.9 J	mg/kg	
			OU5-CTA-1B-3800(52)-(20,160)	12/10/2001	3 J	mg/kg	
			OU5-CTA-1B-3800(52)-(40,100)	12/10/2001	39	mg/kg	
			OU5-CTA-1B-3800(52)-(40,120)	12/10/2001	4.1	mg/kg	
			OU5-CTA-1B-3800(52)-(40,140)	12/10/2001	2.8	mg/kg	
			OU5-CTA-1B-3800(52)-(40,180)	12/10/2001	2.9 J	mg/kg	
			OU5-CTA-1B-3800(52)-(40,80)	12/10/2001	613	mg/kg	
			OU5-CTA-1B-3800(52)-(40-160)	12/10/2001	2.2 J	mg/kg	
			OU5-CTA-1B-3800(52)-(60,100)	12/10/2001	8.5	mg/kg	
			OU5-CTA-1B-3800(52)-(60,120)	12/10/2001	2.4 J	mg/kg	
			OU5-CTA-1B-3800(52)-(60,140)	12/10/2001	3.1	mg/kg	
			OU5-CTA-1B-3800(52)-(60,160)	12/10/2001	3.4	mg/kg	
			OU5-CTA-1B-3800(52)-(60,180)	12/10/2001	3	mg/kg	
			OU5-CTA-1B-3800(52)-(60,40)	12/10/2001	2.1 J	mg/kg	
			OU5-CTA-1B-3800(52)-(60,60)	12/10/2001	2.5	mg/kg	
			OU5-CTA-1B-3800(52)-(60,80)	12/10/2001	3.5	mg/kg	
			OU5-CTA-1B-3800(52)-(80,0)	12/10/2001	1.7 J	mg/kg	
			OU5-CTA-1B-3800(52)-(80,100)	12/10/2001	3	mg/kg	
			OU5-CTA-1B-3800(52)-(80,120)	12/10/2001	6.5	mg/kg	
			OU5-CTA-1B-3800(52)-(80,140)	12/10/2001	2.2 J	mg/kg	
			OU5-CTA-1B-3800(52)-(80,160)	12/10/2001	3	mg/kg	
			OU5-CTA-1B-3800(52)-(80,180)	12/10/2001	0.89 J	mg/kg	
			OU5-CTA-1B-3800(52)-(80,20)	12/10/2001	2.8	mg/kg	
			OU5-CTA-1B-3800(52)-(80,200)	12/10/2001	2.4 J	mg/kg	
			OU5-CTA-1B-3800(52)-(80,40)	12/10/2001	2.7	mg/kg	
			OU5-CTA-1B-3800(52)-(80,60)	12/10/2001	2.5	mg/kg	
			OU5-CTA-1B-3800(52)-DUP01	12/10/2001	7.8	mg/kg	OU5-CTA-1B-3800(52)-(80,120)
			OU5-CTA-1B-3800(52)-DUP02	12/10/2001	2.7	mg/kg	OU5-CTA-1B-3800(52)-(140,120)
			OU5-CTA-1B-3800(52)-DUP03	12/10/2001	21	mg/kg	OU5-CTA-1B-3800(52)-(40,100)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
CTA	1D	3806 49th Street					
			OU5-CTA-1D-3806(49)-(100,100)	1/16/2002	10.7	mg/kg	
			OU5-CTA-1D-3806(49)-(100,120)	1/16/2002	7.1	mg/kg	
			OU5-CTA-1D-3806(49)-(100,140)	1/16/2002	4.5	mg/kg	
			OU5-CTA-1D-3806(49)-(100,80)	1/16/2002	6.5	mg/kg	
			OU5-CTA-1D-3806(49)-(20,40)	1/16/2002	14.8	mg/kg	
			OU5-CTA-1D-3806(49)-(20,60)	1/16/2002	17.1	mg/kg	
			OU5-CTA-1D-3806(49)-(20,80)	1/16/2002	3.6	mg/kg	
			OU5-CTA-1D-3806(49)-(40,100)	1/16/2002	9.6	mg/kg	
			OU5-CTA-1D-3806(49)-(40,120)	1/16/2002	15.8	mg/kg	
			OU5-CTA-1D-3806(49)-(40,20)	1/16/2002	5.1	mg/kg	
			OU5-CTA-1D-3806(49)-(40,40)	1/16/2002	11.1	mg/kg	
			OU5-CTA-1D-3806(49)-(40,60)	1/16/2002	9.5	mg/kg	
			OU5-CTA-1D-3806(49)-(40,80)	1/16/2002	5.2	mg/kg	
			OU5-CTA-1D-3806(49)-(60,100)	1/16/2002	10.1	mg/kg	
			OU5-CTA-1D-3806(49)-(60,120)	1/16/2002	10.7	mg/kg	
			OU5-CTA-1D-3806(49)-(60,140)	1/16/2002	9.8	mg/kg	
			OU5-CTA-1D-3806(49)-(60,20)	1/16/2002	6.2	mg/kg	
			OU5-CTA-1D-3806(49)-(60,40)	1/16/2002	26.5	mg/kg	
			OU5-CTA-1D-3806(49)-(60,60)	1/16/2002	10.7	mg/kg	
			OU5-CTA-1D-3806(49)-(60,80)	1/16/2002	7.7	mg/kg	
			OU5-CTA-1D-3806(49)-(80,100)	1/16/2002	22.7	mg/kg	
			OU5-CTA-1D-3806(49)-(80,120)	1/16/2002	20.6	mg/kg	
			OU5-CTA-1D-3806(49)-(80,140)	1/16/2002	17.1	mg/kg	
			OU5-CTA-1D-3806(49)-(80,40)	1/16/2002	17.2	mg/kg	
			OU5-CTA-1D-3806(49)-(80,80)	1/16/2002	7.3	mg/kg	
			OU5-CTA-1D-3806(49)-(80-60)	1/16/2002	8	mg/kg	
			OU5-CTA-1D-3806(49)-DUP01	1/16/2002	10	mg/kg	OU5-CTA-1D-3806(49)-(60,80)
CTA	1D	3812 48th Street					
			OU5-CTA-1D-3812(48)-(100,100)	9/10/2001	33.9 J	mg/kg	
			OU5-CTA-1D-3812(48)-(100,120)	9/10/2001	89.5 J	mg/kg	
			OU5-CTA-1D-3812(48)-(100,140)	9/10/2001	29.4 J	mg/kg	
			OU5-CTA-1D-3812(48)-(100,160)	9/10/2001	7.8 J	mg/kg	
			OU5-CTA-1D-3812(48)-(100,40)	9/10/2001	9 J	mg/kg	
			OU5-CTA-1D-3812(48)-(100,60)	9/10/2001	22.5 J	mg/kg	
			OU5-CTA-1D-3812(48)-(100,80)	9/10/2001	33.2 J	mg/kg	
			OU5-CTA-1D-3812(48)-(120,100)	9/10/2001	27.5 J	mg/kg	
			OU5-CTA-1D-3812(48)-(120,120)	9/10/2001	57.4 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-3812(48)-(120,140)	9/10/2001	18.4 J	mg/kg	
			OU5-CTA-1D-3812(48)-(120,80)	9/10/2001	30.1 J	mg/kg	
			OU5-CTA-1D-3812(48)-(20,40)	9/10/2001	2.5 J	mg/kg	
			OU5-CTA-1D-3812(48)-(40,100)	9/10/2001	6.2 J	mg/kg	
			OU5-CTA-1D-3812(48)-(40,40)	9/10/2001	5.7 J	mg/kg	
			OU5-CTA-1D-3812(48)-(40,60)	9/10/2001	83.8 J	mg/kg	
			OU5-CTA-1D-3812(48)-(40,80)	9/10/2001	5.3 J	mg/kg	
			OU5-CTA-1D-3812(48)-(60,100)	9/10/2001	87.2 J	mg/kg	
			OU5-CTA-1D-3812(48)-(60,120)	9/10/2001	13.9 J	mg/kg	
			OU5-CTA-1D-3812(48)-(60,140)	9/10/2001	15 J	mg/kg	
			OU5-CTA-1D-3812(48)-(60,20)	9/10/2001	52.1 J	mg/kg	
			OU5-CTA-1D-3812(48)-(60,40)	9/10/2001	59.1 J	mg/kg	
			OU5-CTA-1D-3812(48)-(60,60)	9/10/2001	51.8 J	mg/kg	
			OU5-CTA-1D-3812(48)-(60,80)	9/10/2001	4.2 J	mg/kg	
			OU5-CTA-1D-3812(48)-(80,100)	9/10/2001	8.6 J	mg/kg	
			OU5-CTA-1D-3812(48)-(80,120)	9/10/2001	14.9 J	mg/kg	
			OU5-CTA-1D-3812(48)-(80,140)	9/10/2001	8.5 J	mg/kg	
			OU5-CTA-1D-3812(48)-(80,160)	9/10/2001	9.6 J	mg/kg	
			OU5-CTA-1D-3812(48)-(80,20)	9/10/2001	29.2 J	mg/kg	
			OU5-CTA-1D-3812(48)-(80,40)	9/10/2001	56.8 J	mg/kg	
			OU5-CTA-1D-3812(48)-(80,60)	9/10/2001	10.5 J	mg/kg	
			OU5-CTA-1D-3812(48)-DUP01	9/10/2001	11.8 J	mg/kg	OU5-CTA-1D-3812(48)-(80,60)
			OU5-CTA-1D-3812(48)-DUP02	9/10/2001	5.1 J	mg/kg	OU5-CTA-1D-3812(48)-(40,40)
CTA	1D	3816 48th Street					
			OU5-CTA-1D-3816(48)-(100,100)	12/14/2001	9	mg/kg	
			OU5-CTA-1D-3816(48)-(100,20)	12/14/2001	51.1	mg/kg	
			OU5-CTA-1D-3816(48)-(100,40)	12/14/2001	31.9	mg/kg	
			OU5-CTA-1D-3816(48)-(100,60)	12/14/2001	11.6	mg/kg	
			OU5-CTA-1D-3816(48)-(100,80)	12/14/2001	20	mg/kg	
			OU5-CTA-1D-3816(48)-(120,100)	12/14/2001	7.9	mg/kg	
			OU5-CTA-1D-3816(48)-(120,40)	12/14/2001	39.8	mg/kg	
			OU5-CTA-1D-3816(48)-(120,60)	12/14/2001	12.4	mg/kg	
			OU5-CTA-1D-3816(48)-(120,80)	12/14/2001	6.8	mg/kg	
			OU5-CTA-1D-3816(48)-(140,100)	12/14/2001	8.2	mg/kg	
			OU5-CTA-1D-3816(48)-(140,40)	12/14/2001	19.7	mg/kg	
			OU5-CTA-1D-3816(48)-(140,60)	12/14/2001	17.6	mg/kg	
			OU5-CTA-1D-3816(48)-(140,80)	12/14/2001	9.2	mg/kg	
			OU5-CTA-1D-3816(48)-(160,40)	12/14/2001	7.3	mg/kg	
			OU5-CTA-1D-3816(48)-(160,60)	12/14/2001	15.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-3816(48)-(20,20)	12/14/2001	24.8	mg/kg	
			OU5-CTA-1D-3816(48)-(20,40)	12/14/2001	56.4	mg/kg	
			OU5-CTA-1D-3816(48)-(20,60)	12/14/2001	8.4	mg/kg	
			OU5-CTA-1D-3816(48)-(40,0)	12/14/2001	24.1	mg/kg	
			OU5-CTA-1D-3816(48)-(40,20)	12/14/2001	19.6	mg/kg	
			OU5-CTA-1D-3816(48)-(40,40)	12/14/2001	17.1	mg/kg	
			OU5-CTA-1D-3816(48)-(40,60)	12/14/2001	25.9	mg/kg	
			OU5-CTA-1D-3816(48)-(40,80)	12/14/2001	6.8	mg/kg	
			OU5-CTA-1D-3816(48)-(60,20)	12/14/2001	7.7	mg/kg	
			OU5-CTA-1D-3816(48)-(60,40)	12/14/2001	18.3	mg/kg	
			OU5-CTA-1D-3816(48)-(60,60)	12/14/2001	13.9	mg/kg	
			OU5-CTA-1D-3816(48)-(60,80)	12/14/2001	29.1	mg/kg	
			OU5-CTA-1D-3816(48)-(80,20)	12/14/2001	33.8	mg/kg	
			OU5-CTA-1D-3816(48)-(80,40)	12/14/2001	43	mg/kg	
			OU5-CTA-1D-3816(48)-(80,80)	12/14/2001	10.7	mg/kg	
			OU5-CTA-1D-3816(48)-DUP01	12/14/2001	52.8	mg/kg	OU5-CTA-1D-3816(48)-(20,40)
			OU5-CTA-1D-3816(48)-DUP02	12/14/2001	4.8	mg/kg	OU5-CTA-1D-3816(48)-(120,80)
CTA	1D	3816 49th Street					
			OU5-CTA-1D-3816(49)-(100,100)	12/20/2001	2.8 J	mg/kg	
			OU5-CTA-1D-3816(49)-(100,120)	12/20/2001	3.4	mg/kg	
			OU5-CTA-1D-3816(49)-(100,140)	12/20/2001	3.2 J	mg/kg	
			OU5-CTA-1D-3816(49)-(20,40)	12/20/2001	3.3	mg/kg	
			OU5-CTA-1D-3816(49)-(20,60)	12/20/2001	16.5	mg/kg	
			OU5-CTA-1D-3816(49)-(20,80)	12/20/2001	5.2	mg/kg	
			OU5-CTA-1D-3816(49)-(40,100)	12/20/2001	0.62 J	mg/kg	
			OU5-CTA-1D-3816(49)-(40,120)	12/20/2001	16.3	mg/kg	
			OU5-CTA-1D-3816(49)-(40,20)	12/20/2001	5.3	mg/kg	
			OU5-CTA-1D-3816(49)-(40,40)	12/20/2001	3.6	mg/kg	
			OU5-CTA-1D-3816(49)-(40,60)	12/20/2001	29.6	mg/kg	
			OU5-CTA-1D-3816(49)-(40,80)	12/20/2001	6.2	mg/kg	
			OU5-CTA-1D-3816(49)-(60,100)	12/20/2001	3.3 J	mg/kg	
			OU5-CTA-1D-3816(49)-(60,120)	12/20/2001	2.7 J	mg/kg	
			OU5-CTA-1D-3816(49)-(60,140)	12/20/2001	4.5	mg/kg	
			OU5-CTA-1D-3816(49)-(60,160)	12/20/2001	39.9	mg/kg	
			OU5-CTA-1D-3816(49)-(60,20)	12/20/2001	7.4	mg/kg	
			OU5-CTA-1D-3816(49)-(60,40)	12/20/2001	13.1	mg/kg	
			OU5-CTA-1D-3816(49)-(60,60)	12/20/2001	6.3	mg/kg	
			OU5-CTA-1D-3816(49)-(80,100)	12/20/2001	4.3	mg/kg	
			OU5-CTA-1D-3816(49)-(80,120)	12/20/2001	3.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-3816(49)-(80,140)	12/20/2001	2 J	mg/kg	
			OU5-CTA-1D-3816(49)-(80,40)	12/20/2001	4.9	mg/kg	
			OU5-CTA-1D-3816(49)-(80,60)	12/20/2001	22	mg/kg	
			OU5-CTA-1D-3816(49)-(80,80)	12/20/2001	3 J	mg/kg	
			OU5-CTA-1D-3816(49)-DUP01	12/20/2001	29.6	mg/kg	OU5-CTA-1D-3816(49)-(40,60)
CTA	1C	3822 Fordham Road					
			OU5-CTA-1C-3822FR-(100,100)	1/8/2002	4.4	mg/kg	
			OU5-CTA-1C-3822FR-(100,120)	1/8/2002	4.1	mg/kg	
			OU5-CTA-1C-3822FR-(100,140)	1/8/2002	5	mg/kg	
			OU5-CTA-1C-3822FR-(100,20)	1/8/2002	4	mg/kg	
			OU5-CTA-1C-3822FR-(100,40)	1/8/2002	7.1	mg/kg	
			OU5-CTA-1C-3822FR-(100,60)	1/8/2002	16.9	mg/kg	
			OU5-CTA-1C-3822FR-(100,80)	1/8/2002	3.1	mg/kg	
			OU5-CTA-1C-3822FR-(120,100)	1/8/2002	4.1	mg/kg	
			OU5-CTA-1C-3822FR-(120,120)	1/8/2002	5.1	mg/kg	
			OU5-CTA-1C-3822FR-(120,140)	1/8/2002	6.1	mg/kg	
			OU5-CTA-1C-3822FR-(120,20)	1/8/2002	3.6	mg/kg	
			OU5-CTA-1C-3822FR-(120,40)	1/8/2002	6.6	mg/kg	
			OU5-CTA-1C-3822FR-(120,60)	1/8/2002	8.4	mg/kg	
			OU5-CTA-1C-3822FR-(120,80)	1/8/2002	7.9	mg/kg	
			OU5-CTA-1C-3822FR-(140,100)	1/8/2002	6.4	mg/kg	
			OU5-CTA-1C-3822FR-(140,120)	1/8/2002	4.5	mg/kg	
			OU5-CTA-1C-3822FR-(140,40)	1/8/2002	6.5	mg/kg	
			OU5-CTA-1C-3822FR-(140,60)	1/8/2002	6.6	mg/kg	
			OU5-CTA-1C-3822FR-(140,80)	1/8/2002	5.9	mg/kg	
			OU5-CTA-1C-3822FR-(160,100)	1/8/2002	6.9	mg/kg	
			OU5-CTA-1C-3822FR-(160,120)	1/8/2002	5.9	mg/kg	
			OU5-CTA-1C-3822FR-(20,100)	1/8/2002	5.6	mg/kg	
			OU5-CTA-1C-3822FR-(20,60)	1/8/2002	5.4	mg/kg	
			OU5-CTA-1C-3822FR-(20,80)	1/8/2002	5.9	mg/kg	
			OU5-CTA-1C-3822FR-(40,100)	1/8/2002	6.4	mg/kg	
			OU5-CTA-1C-3822FR-(40,120)	1/8/2002	13.3	mg/kg	
			OU5-CTA-1C-3822FR-(40,140)	1/8/2002	14.2	mg/kg	
			OU5-CTA-1C-3822FR-(40,60)	1/8/2002	11.9	mg/kg	
			OU5-CTA-1C-3822FR-(40,80)	1/8/2002	7.7	mg/kg	
			OU5-CTA-1C-3822FR-(60,100)	1/8/2002	4.7	mg/kg	
			OU5-CTA-1C-3822FR-(60,120)	1/8/2002	13.6	mg/kg	
			OU5-CTA-1C-3822FR-(60,140)	1/8/2002	3.8	mg/kg	
			OU5-CTA-1C-3822FR-(60,40)	1/8/2002	7.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-3822FR-(60,60)	1/8/2002	11.7	mg/kg	
			OU5-CTA-1C-3822FR-(60,80)	1/8/2002	4.3	mg/kg	
			OU5-CTA-1C-3822FR-(80,100)	1/8/2002	5.8	mg/kg	
			OU5-CTA-1C-3822FR-(80,140)	1/8/2002	5.4	mg/kg	
			OU5-CTA-1C-3822FR-(80,40)	1/8/2002	6.6	mg/kg	
			OU5-CTA-1C-3822FR-(80,60)	1/8/2002	8.4	mg/kg	
			OU5-CTA-1C-3822FR-(80,80)	1/8/2002	6.3	mg/kg	
			OU5-CTA-1C-3822FR-DUP01	1/8/2002	6.1	mg/kg	OU5-CTA-1C-3822FR-(80,140)
			OU5-CTA-1C-3822FR-DUP02	1/8/2002	8.4	mg/kg	OU5-CTA-1C-3822FR-(80,60)
CSA	7	3900 Nebraska Avenue, Lot 16					
			OU5-CSA-7-L16-(100,140)	2/8/2002	2.5	mg/kg	
			OU5-CSA-7-L16-(100,20)	2/8/2002	4.4	mg/kg	
			OU5-CSA-7-L16-(100,40)	2/8/2002	5.8	mg/kg	
			OU5-CSA-7-L16-(100,60)	2/8/2002	5.5	mg/kg	
			OU5-CSA-7-L16-(100,80)	2/8/2002	3.7	mg/kg	
			OU5-CSA-7-L16-(120,100)	2/8/2002	3.7	mg/kg	
			OU5-CSA-7-L16-(120,120)	2/8/2002	2.8	mg/kg	
			OU5-CSA-7-L16-(120,140)	2/8/2002	2.1	mg/kg	
			OU5-CSA-7-L16-(120,20)	2/8/2002	5	mg/kg	
			OU5-CSA-7-L16-(120,40)	2/8/2002	4.7	mg/kg	
			OU5-CSA-7-L16-(120,60)	2/8/2002	5.1	mg/kg	
			OU5-CSA-7-L16-(120,80)	2/8/2002	5.4	mg/kg	
			OU5-CSA-7-L16-(140,100)	2/8/2002	8.5	mg/kg	
			OU5-CSA-7-L16-(140,120)	2/8/2002	4.3	mg/kg	
			OU5-CSA-7-L16-(140,140)	2/8/2002	5.9	mg/kg	
			OU5-CSA-7-L16-(140,20)	2/8/2002	4.6	mg/kg	
			OU5-CSA-7-L16-(140,40)	2/8/2002	5.2	mg/kg	
			OU5-CSA-7-L16-(140,60)	2/8/2002	4.7	mg/kg	
			OU5-CSA-7-L16-(140,80)	2/8/2002	6.2	mg/kg	
			OU5-CSA-7-L16-(160,100)	2/8/2002	5.1	mg/kg	
			OU5-CSA-7-L16-(160,120)	2/8/2002	5.8	mg/kg	
			OU5-CSA-7-L16-(160,40)	2/8/2002	4.1	mg/kg	
			OU5-CSA-7-L16-(160,60)	2/8/2002	5.4	mg/kg	
			OU5-CSA-7-L16-(160,80)	2/8/2002	4.8	mg/kg	
			OU5-CSA-7-L16-(180,100)	2/8/2002	5.7	mg/kg	
			OU5-CSA-7-L16-(180,120)	2/8/2002	4.6	mg/kg	
			OU5-CSA-7-L16-(180,40)	2/8/2002	5	mg/kg	
			OU5-CSA-7-L16-(180,60)	2/8/2002	3.7	mg/kg	
			OU5-CSA-7-L16-(180,80)	2/8/2002	5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-7-L16-(20,140)	2/8/2002	5.3	mg/kg	
			OU5-CSA-7-L16-(20,160)	2/8/2002	6	mg/kg	
			OU5-CSA-7-L16-(20,180)	2/8/2002	7.6	mg/kg	
			OU5-CSA-7-L16-(200,100)	2/8/2002	4.4	mg/kg	
			OU5-CSA-7-L16-(200,120)	2/8/2002	4.8	mg/kg	
			OU5-CSA-7-L16-(200,40)	2/8/2002	5.1	mg/kg	
			OU5-CSA-7-L16-(200,60)	2/8/2002	4.1	mg/kg	
			OU5-CSA-7-L16-(200,80)	2/8/2002	6	mg/kg	
			OU5-CSA-7-L16-(220,100)	2/8/2002	5.6	mg/kg	
			OU5-CSA-7-L16-(220,60)	2/8/2002	5.4	mg/kg	
			OU5-CSA-7-L16-(220,80)	2/8/2002	6.3	mg/kg	
			OU5-CSA-7-L16-(240,100)	2/8/2002	5.6	mg/kg	
			OU5-CSA-7-L16-(240,60)	2/8/2002	5.4	mg/kg	
			OU5-CSA-7-L16-(240,80)	2/8/2002	5.5	mg/kg	
			OU5-CSA-7-L16-(40,120)	2/8/2002	4.5	mg/kg	
			OU5-CSA-7-L16-(40,140)	2/8/2002	4.9	mg/kg	
			OU5-CSA-7-L16-(40,160)	2/8/2002	4.8	mg/kg	
			OU5-CSA-7-L16-(40,180)	2/8/2002	6.6	mg/kg	
			OU5-CSA-7-L16-(60,160)	2/8/2002	4.1	mg/kg	
			OU5-CSA-7-L16-(60,60)	2/8/2002	6.1	mg/kg	
			OU5-CSA-7-L16-(80,160)	2/8/2002	4.5	mg/kg	
			OU5-CSA-7-L16-(80,20)	2/8/2002	6.7	mg/kg	
			OU5-CSA-7-L16-(80,40)	2/8/2002	4.7	mg/kg	
			OU5-CSA-7-L16-(80,60)	2/8/2002	3	mg/kg	
			OU5-CSA-7-L16-DUP01	2/8/2002	4.5	mg/kg	OU5-CSA-7-L16-(160,100)
			OU5-CSA-7-L16-DUP02	2/8/2002	4.8	mg/kg	OU5-CSA-7-L16-(140,60)
			OU5-CSA-7-L16-DUP03	2/8/2002	6.6	mg/kg	OU5-CSA-7-L16-(20,140)
			OU5-CSA-7-L16-SB1	7/2/2002	4.1	mg/kg	
CTA	1D	3933 Fordham Road					
			OU5-CTA-1D-3933FR-(100,100)	10/17/2001	4.5	mg/kg	
			OU5-CTA-1D-3933FR-(100,160)	10/17/2001	4.8	mg/kg	
			OU5-CTA-1D-3933FR-(100,20)	10/17/2001	30.5	mg/kg	
			OU5-CTA-1D-3933FR-(100,200)	10/17/2001	10.5	mg/kg	
			OU5-CTA-1D-3933FR-(100,60)	10/17/2001	10.8	mg/kg	
			OU5-CTA-1D-3933FR-(100,80)	10/17/2001	9.9	mg/kg	
			OU5-CTA-1D-3933FR-(120,100)	10/17/2001	4.4	mg/kg	
			OU5-CTA-1D-3933FR-(120,140)	10/17/2001	3.2	mg/kg	
			OU5-CTA-1D-3933FR-(120,160)	10/17/2001	3.6	mg/kg	
			OU5-CTA-1D-3933FR-(120,180)	10/17/2001	11	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-3933FR-(120,20)	10/17/2001	16.6	mg/kg	
			OU5-CTA-1D-3933FR-(120,40)	10/17/2001	39.4	mg/kg	
			OU5-CTA-1D-3933FR-(120,60)	10/17/2001	5.5	mg/kg	
			OU5-CTA-1D-3933FR-(120,80)	10/17/2001	6.7	mg/kg	
			OU5-CTA-1D-3933FR-(140,120)	10/18/2001	6.4	mg/kg	
			OU5-CTA-1D-3933FR-(140,140)	10/17/2001	3.9	mg/kg	
			OU5-CTA-1D-3933FR-(140,160)	10/17/2001	7.6	mg/kg	
			OU5-CTA-1D-3933FR-(140,180)	10/17/2001	6.8	mg/kg	
			OU5-CTA-1D-3933FR-(140,40)	10/17/2001	4.3	mg/kg	
			OU5-CTA-1D-3933FR-(140,60)	10/17/2001	12.3	mg/kg	
			OU5-CTA-1D-3933FR-(160,100)	10/18/2001	4.4	mg/kg	
			OU5-CTA-1D-3933FR-(160,120)	10/17/2001	3.5	mg/kg	
			OU5-CTA-1D-3933FR-(160,140)	10/17/2001	4.8	mg/kg	
			OU5-CTA-1D-3933FR-(160,160)	10/17/2001	13.8	mg/kg	
			OU5-CTA-1D-3933FR-(160,80)	10/17/2001	3.4	mg/kg	
			OU5-CTA-1D-3933FR-(180,120)	10/17/2001	6.2	mg/kg	
			OU5-CTA-1D-3933FR-(180,140)	10/17/2001	8.3	mg/kg	
			OU5-CTA-1D-3933FR-(20,60)	10/17/2001	28.7	mg/kg	
			OU5-CTA-1D-3933FR-(40,100)	10/17/2001	25.7	mg/kg	
			OU5-CTA-1D-3933FR-(40,60)	10/17/2001	18.8	mg/kg	
			OU5-CTA-1D-3933FR-(40,80)	10/17/2001	13.6	mg/kg	
			OU5-CTA-1D-3933FR-(60,100)	10/17/2001	5.5	mg/kg	
			OU5-CTA-1D-3933FR-(60,120)	10/17/2001	9.4	mg/kg	
			OU5-CTA-1D-3933FR-(60,40)	10/17/2001	13.4	mg/kg	
			OU5-CTA-1D-3933FR-(60,60)	10/17/2001	6.8	mg/kg	
			OU5-CTA-1D-3933FR-(60,80)	10/17/2001	18.8	mg/kg	
			OU5-CTA-1D-3933FR-(80,120)	10/17/2001	6.7	mg/kg	
			OU5-CTA-1D-3933FR-(80,140)	10/17/2001	30.8	mg/kg	
			OU5-CTA-1D-3933FR-(80,160)	10/17/2001	6.5	mg/kg	
			OU5-CTA-1D-3933FR-(80,40)	10/17/2001	52.1	mg/kg	
			OU5-CTA-1D-3933FR-(80,60)	10/17/2001	53.6	mg/kg	
			OU5-CTA-1D-3933FR-(80,80)	10/17/2001	24.7	mg/kg	
CTA	1C	3940 Fordham Road					
			OU5-CTA-1C-3940FR-(0,140)	1/15/2002	4.2	mg/kg	
			OU5-CTA-1C-3940FR-(100,100)	1/15/2002	4.5	mg/kg	
			OU5-CTA-1C-3940FR-(100,120)	1/15/2002	4.5	mg/kg	
			OU5-CTA-1C-3940FR-(100,140)	1/15/2002	3.8	mg/kg	
			OU5-CTA-1C-3940FR-(100,160)	1/15/2002	2.4 J	mg/kg	
			OU5-CTA-1C-3940FR-(100,180)	1/15/2002	3.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-3940FR-(100,200)	1/15/2002	3.4	mg/kg	
			OU5-CTA-1C-3940FR-(100,220)	1/15/2002	4.4	mg/kg	
			OU5-CTA-1C-3940FR-(100,240)	1/15/2002	3.4	mg/kg	
			OU5-CTA-1C-3940FR-(100,260)	1/15/2002	2.7	mg/kg	
			OU5-CTA-1C-3940FR-(100,80)	1/15/2002	10	mg/kg	
			OU5-CTA-1C-3940FR-(120,100)	1/15/2002	3.5	mg/kg	
			OU5-CTA-1C-3940FR-(120,120)	1/15/2002	3	mg/kg	
			OU5-CTA-1C-3940FR-(120,140)	1/15/2002	3.3	mg/kg	
			OU5-CTA-1C-3940FR-(120,180)	1/15/2002	4.4	mg/kg	
			OU5-CTA-1C-3940FR-(120,200)	1/15/2002	3.2	mg/kg	
			OU5-CTA-1C-3940FR-(120,220)	1/15/2002	3.8	mg/kg	
			OU5-CTA-1C-3940FR-(120,240)	1/15/2002	3.7	mg/kg	
			OU5-CTA-1C-3940FR-(120,60)	1/15/2002	5.6	mg/kg	
			OU5-CTA-1C-3940FR-(120,80)	1/15/2002	1.8 J	mg/kg	
			OU5-CTA-1C-3940FR-(140,100)	1/15/2002	4.2	mg/kg	
			OU5-CTA-1C-3940FR-(140,120)	1/15/2002	4.3	mg/kg	
			OU5-CTA-1C-3940FR-(140,140)	1/15/2002	3.5	mg/kg	
			OU5-CTA-1C-3940FR-(140,180)	1/15/2002	3.6	mg/kg	
			OU5-CTA-1C-3940FR-(140,200)	1/15/2002	3	mg/kg	
			OU5-CTA-1C-3940FR-(140,220)	1/15/2002	4.2	mg/kg	
			OU5-CTA-1C-3940FR-(140,240)	1/15/2002	5.1	mg/kg	
			OU5-CTA-1C-3940FR-(140,60)	1/15/2002	5.4	mg/kg	
			OU5-CTA-1C-3940FR-(140,80)	1/15/2002	3.5	mg/kg	
			OU5-CTA-1C-3940FR-(160,100)	1/15/2002	3.1	mg/kg	
			OU5-CTA-1C-3940FR-(160,120)	1/15/2002	2.7	mg/kg	
			OU5-CTA-1C-3940FR-(160,160)	1/15/2002	4.6	mg/kg	
			OU5-CTA-1C-3940FR-(160,180)	1/15/2002	4	mg/kg	
			OU5-CTA-1C-3940FR-(160,200)	1/15/2002	4	mg/kg	
			OU5-CTA-1C-3940FR-(160,220)	1/15/2002	3.1	mg/kg	
			OU5-CTA-1C-3940FR-(160,40)	1/15/2002	4.7	mg/kg	
			OU5-CTA-1C-3940FR-(160,60)	1/15/2002	3.9	mg/kg	
			OU5-CTA-1C-3940FR-(160,80)	1/15/2002	3.2	mg/kg	
			OU5-CTA-1C-3940FR-(180,100)	1/15/2002	3.9	mg/kg	
			OU5-CTA-1C-3940FR-(180,120)	1/15/2002	5.7	mg/kg	
			OU5-CTA-1C-3940FR-(180,140)	1/15/2002	4.1	mg/kg	
			OU5-CTA-1C-3940FR-(180,160)	1/15/2002	5.3	mg/kg	
			OU5-CTA-1C-3940FR-(180,180)	1/15/2002	4.2	mg/kg	
			OU5-CTA-1C-3940FR-(180,20)	1/15/2002	3.1	mg/kg	
			OU5-CTA-1C-3940FR-(180,200)	1/15/2002	4.3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-3940FR-(180,220)	1/15/2002	4.1	mg/kg	
			OU5-CTA-1C-3940FR-(180,40)	1/15/2002	2.5	mg/kg	
			OU5-CTA-1C-3940FR-(180,60)	1/15/2002	3.6	mg/kg	
			OU5-CTA-1C-3940FR-(180,80)	1/15/2002	2.7	mg/kg	
			OU5-CTA-1C-3940FR-(20,120)	1/15/2002	3.2	mg/kg	
			OU5-CTA-1C-3940FR-(20,140)	1/15/2002	4.2	mg/kg	
			OU5-CTA-1C-3940FR-(20,160)	1/15/2002	3.3	mg/kg	
			OU5-CTA-1C-3940FR-(20,180)	1/15/2002	5.4	mg/kg	
			OU5-CTA-1C-3940FR-(200,100)	1/15/2002	3.1	mg/kg	
			OU5-CTA-1C-3940FR-(200,120)	1/15/2002	2.6	mg/kg	
			OU5-CTA-1C-3940FR-(200,140)	1/15/2002	9	mg/kg	
			OU5-CTA-1C-3940FR-(200,160)	1/15/2002	5.9	mg/kg	
			OU5-CTA-1C-3940FR-(200,180)	1/15/2002	3.8	mg/kg	
			OU5-CTA-1C-3940FR-(200,20)	1/15/2002	2.1	mg/kg	
			OU5-CTA-1C-3940FR-(200,200)	1/15/2002	3.9	mg/kg	
			OU5-CTA-1C-3940FR-(200,220)	1/15/2002	3.5	mg/kg	
			OU5-CTA-1C-3940FR-(200,40)	1/15/2002	4.7	mg/kg	
			OU5-CTA-1C-3940FR-(200,60)	1/15/2002	3.4	mg/kg	
			OU5-CTA-1C-3940FR-(200,80)	1/15/2002	3.4	mg/kg	
			OU5-CTA-1C-3940FR-(220,100)	1/15/2002	4.4	mg/kg	
			OU5-CTA-1C-3940FR-(220,120)	1/15/2002	2.8	mg/kg	
			OU5-CTA-1C-3940FR-(220,140)	1/15/2002	4.8	mg/kg	
			OU5-CTA-1C-3940FR-(220,160)	1/15/2002	5.6	mg/kg	
			OU5-CTA-1C-3940FR-(220,180)	1/15/2002	3.2	mg/kg	
			OU5-CTA-1C-3940FR-(220,200)	1/15/2002	5.1	mg/kg	
			OU5-CTA-1C-3940FR-(220,60)	1/15/2002	2.6	mg/kg	
			OU5-CTA-1C-3940FR-(220,80)	1/15/2002	2.2 J	mg/kg	
			OU5-CTA-1C-3940FR-(40,100)	1/15/2002	3.2	mg/kg	
			OU5-CTA-1C-3940FR-(40,120)	1/15/2002	4.8	mg/kg	
			OU5-CTA-1C-3940FR-(40,140)	1/15/2002	4	mg/kg	
			OU5-CTA-1C-3940FR-(40,160)	1/15/2002	3.8	mg/kg	
			OU5-CTA-1C-3940FR-(40,180)	1/15/2002	3.1 J	mg/kg	
			OU5-CTA-1C-3940FR-(40,200)	1/15/2002	4.5	mg/kg	
			OU5-CTA-1C-3940FR-(60,100)	1/15/2002	3	mg/kg	
			OU5-CTA-1C-3940FR-(60,120)	1/15/2002	6.2	mg/kg	
			OU5-CTA-1C-3940FR-(60,140)	1/15/2002	3.7	mg/kg	
			OU5-CTA-1C-3940FR-(60,160)	1/15/2002	3.5	mg/kg	
			OU5-CTA-1C-3940FR-(60,180)	1/15/2002	3.8	mg/kg	
			OU5-CTA-1C-3940FR-(60,200)	1/15/2002	4.1	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-3940FR-(60,220)	1/15/2002	9.8	mg/kg	
			OU5-CTA-1C-3940FR-(60,240)	1/15/2002	3.2	mg/kg	
			OU5-CTA-1C-3940FR-(80,100)	1/15/2002	4.3	mg/kg	
			OU5-CTA-1C-3940FR-(80,120)	1/15/2002	3.7	mg/kg	
			OU5-CTA-1C-3940FR-(80,140)	1/15/2002	3.2	mg/kg	
			OU5-CTA-1C-3940FR-(80,160)	1/15/2002	3.5	mg/kg	
			OU5-CTA-1C-3940FR-(80,180)	1/15/2002	5.2	mg/kg	
			OU5-CTA-1C-3940FR-(80,200)	1/15/2002	3.4	mg/kg	
			OU5-CTA-1C-3940FR-(80,220)	1/15/2002	3.3	mg/kg	
			OU5-CTA-1C-3940FR-(80,240)	1/15/2002	4.1	mg/kg	
			OU5-CTA-1C-3940FR-(80,80)	1/15/2002	9.6	mg/kg	
			OU5-CTA-1C-3940FR-DUP01	1/15/2002	3.4	mg/kg	OU5-CTA-1C-3940FR-(140,220)
			OU5-CTA-1C-3940FR-DUP02	1/15/2002	4.3	mg/kg	OU5-CTA-1C-3940FR-(140,180)
			OU5-CTA-1C-3940FR-DUP03	1/15/2002	3.5	mg/kg	OU5-CTA-1C-3940FR-(80,140)
			OU5-CTA-1C-3940FR-DUP04	1/15/2002	3.9	mg/kg	OU5-CTA-1C-3940FR-(140,100)
			OU5-CTA-1C-3940FR-DUP05	1/15/2002	3.6	mg/kg	OU5-CTA-1C-3940FR-(100,180)
CSA	4	4000 47th Street					
			OU5-CSA-4-4000(47)-(100,120)	2/4/2002	6.2	mg/kg	
			OU5-CSA-4-4000(47)-(100,140)	2/4/2002	4.6	mg/kg	
			OU5-CSA-4-4000(47)-(100,160)	2/4/2002	4.6	mg/kg	
			OU5-CSA-4-4000(47)-(100,20)	2/4/2002	11.4	mg/kg	
			OU5-CSA-4-4000(47)-(100,40)	2/4/2002	10	mg/kg	
			OU5-CSA-4-4000(47)-(100,60)	2/4/2002	6.3	mg/kg	
			OU5-CSA-4-4000(47)-(120,100)	2/4/2002	3.2	mg/kg	
			OU5-CSA-4-4000(47)-(120,120)	2/4/2002	3.2	mg/kg	
			OU5-CSA-4-4000(47)-(120,140)	2/4/2002	18.1	mg/kg	
			OU5-CSA-4-4000(47)-(120,160)	2/4/2002	6.4	mg/kg	
			OU5-CSA-4-4000(47)-(120,60)	2/4/2002	6.4	mg/kg	
			OU5-CSA-4-4000(47)-(140,100)	2/4/2002	29.7	mg/kg	
			OU5-CSA-4-4000(47)-(140,120)	2/4/2002	36.8	mg/kg	
			OU5-CSA-4-4000(47)-(140,140)	2/4/2002	7.9	mg/kg	
			OU5-CSA-4-4000(47)-(20,60)	2/4/2002	11.2	mg/kg	
			OU5-CSA-4-4000(47)-(20,80)	2/4/2002	5	mg/kg	
			OU5-CSA-4-4000(47)-(40,100)	2/4/2002	10.2	mg/kg	
			OU5-CSA-4-4000(47)-(40,120)	2/4/2002	6.9	mg/kg	
			OU5-CSA-4-4000(47)-(40,140)	2/4/2002	9.7	mg/kg	
			OU5-CSA-4-4000(47)-(40,40)	2/4/2002	42.3	mg/kg	
			OU5-CSA-4-4000(47)-(40,60)	2/4/2002	11	mg/kg	
			OU5-CSA-4-4000(47)-(40,80)	2/4/2002	19.8	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-4-4000(47)-(60,100)	2/4/2002	5.1	mg/kg	
			OU5-CSA-4-4000(47)-(60,120)	2/4/2002	52	mg/kg	
			OU5-CSA-4-4000(47)-(60,140)	2/4/2002	28.6	mg/kg	
			OU5-CSA-4-4000(47)-(60,160)	2/4/2002	8	mg/kg	
			OU5-CSA-4-4000(47)-(60,180)	2/4/2002	2.3	mg/kg	
			OU5-CSA-4-4000(47)-(60,40)	2/4/2002	50.4	mg/kg	
			OU5-CSA-4-4000(47)-(60,60)	2/4/2002	12.9	mg/kg	
			OU5-CSA-4-4000(47)-(60,80)	2/4/2002	7.3	mg/kg	
			OU5-CSA-4-4000(47)-(80,120)	2/4/2002	7.6	mg/kg	
			OU5-CSA-4-4000(47)-(80,140)	2/4/2002	4	mg/kg	
			OU5-CSA-4-4000(47)-(80,160)	2/4/2002	8.4	mg/kg	
			OU5-CSA-4-4000(47)-(80,180)	2/4/2002	19.1	mg/kg	
			OU5-CSA-4-4000(47)-(80,40)	2/4/2002	27.1	mg/kg	
			OU5-CSA-4-4000(47)-(80,60)	2/4/2002	15.8	mg/kg	
			OU5-CSA-4-4000(47)-(80,80)	2/4/2002	4.8	mg/kg	
			OU5-CSA-4-4000(47)-DUP01	2/4/2002	19.2	mg/kg	OU5-CSA-4-4000(47)-(40,80)
			OU5-CSA-4-4000(47)-DUP02	2/4/2002	4.7	mg/kg	OU5-CSA-4-4000(47)-(100,140)
			OU5-CSA-4-4000(47)-SB1	2/4/2002	3.5	mg/kg	
CSA	**7**	**4000 Nebraska Avenue, Lot 25**					
			OU5-CSA-7-L25-(100,120)	2/15/2002	1.8	mg/kg	
			OU5-CSA-7-L25-(100,140)	2/15/2002	3.1	mg/kg	
			OU5-CSA-7-L25-(100,160)	2/15/2002	4.4	mg/kg	
			OU5-CSA-7-L25-(100,180)	2/15/2002	3.5	mg/kg	
			OU5-CSA-7-L25-(100,200)	2/15/2002	4	mg/kg	
			OU5-CSA-7-L25-(100,220)	2/15/2002	4.2	mg/kg	
			OU5-CSA-7-L25-(100,240)	2/15/2002	3.8	mg/kg	
			OU5-CSA-7-L25-(100,60)	2/15/2002	3.6	mg/kg	
			OU5-CSA-7-L25-(100,80)	2/15/2002	3.7	mg/kg	
			OU5-CSA-7-L25-(120,100)	2/15/2002	3.5	mg/kg	
			OU5-CSA-7-L25-(120,120)	2/15/2002	3.1	mg/kg	
			OU5-CSA-7-L25-(120,140)	2/15/2002	4.1	mg/kg	
			OU5-CSA-7-L25-(120,160)	2/15/2002	4.1	mg/kg	
			OU5-CSA-7-L25-(120,180)	2/15/2002	6	mg/kg	
			OU5-CSA-7-L25-(120,200)	2/15/2002	4.1	mg/kg	
			OU5-CSA-7-L25-(120,220)	2/15/2002	3.7	mg/kg	
			OU5-CSA-7-L25-(120,60)	2/15/2002	3	mg/kg	
			OU5-CSA-7-L25-(120,80)	2/15/2002	3.4	mg/kg	
			OU5-CSA-7-L25-(140,100)	2/15/2002	3.9	mg/kg	
			OU5-CSA-7-L25-(140,120)	2/15/2002	4.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-7-L25-(140,140)	2/15/2002	3	mg/kg	
			OU5-CSA-7-L25-(140,160)	2/15/2002	6.2	mg/kg	
			OU5-CSA-7-L25-(140,40)	2/15/2002	5.5	mg/kg	
			OU5-CSA-7-L25-(140,60)	2/15/2002	6.1	mg/kg	
			OU5-CSA-7-L25-(140,80)	2/15/2002	3.9	mg/kg	
			OU5-CSA-7-L25-(160,100)	2/15/2002	2.9	mg/kg	
			OU5-CSA-7-L25-(160,120)	2/15/2002	3.9	mg/kg	
			OU5-CSA-7-L25-(160,140)	2/15/2002	5.8	mg/kg	
			OU5-CSA-7-L25-(160,40)	2/15/2002	4.5	mg/kg	
			OU5-CSA-7-L25-(160,60)	2/15/2002	5	mg/kg	
			OU5-CSA-7-L25-(160,80)	2/15/2002	4	mg/kg	
			OU5-CSA-7-L25-(180,100)	2/15/2002	3.8	mg/kg	
			OU5-CSA-7-L25-(180,120)	2/15/2002	4.4	mg/kg	
			OU5-CSA-7-L25-(180,140)	2/15/2002	5	mg/kg	
			OU5-CSA-7-L25-(180,160)	2/15/2002	6.4	mg/kg	
			OU5-CSA-7-L25-(180,20)	2/15/2002	5.1	mg/kg	
			OU5-CSA-7-L25-(180,40)	2/15/2002	4.8	mg/kg	
			OU5-CSA-7-L25-(180,60)	2/15/2002	5	mg/kg	
			OU5-CSA-7-L25-(180,80)	2/15/2002	13.1	mg/kg	
			OU5-CSA-7-L25-(20,100)	2/15/2002	4	mg/kg	
			OU5-CSA-7-L25-(20,120)	2/15/2002	5.2	mg/kg	
			OU5-CSA-7-L25-(200,100)	2/15/2002	4.7	mg/kg	
			OU5-CSA-7-L25-(200,120)	2/15/2002	4.8	mg/kg	
			OU5-CSA-7-L25-(200,20)	2/15/2002	3.9	mg/kg	
			OU5-CSA-7-L25-(200,40)	2/15/2002	4.7	mg/kg	
			OU5-CSA-7-L25-(200,60)	2/15/2002	5.2	mg/kg	
			OU5-CSA-7-L25-(200,80)	2/15/2002	6.3	mg/kg	
			OU5-CSA-7-L25-(220,20)	2/15/2002	5.5	mg/kg	
			OU5-CSA-7-L25-(220,40)	2/15/2002	4.7	mg/kg	
			OU5-CSA-7-L25-(220,60)	2/15/2002	5.7	mg/kg	
			OU5-CSA-7-L25-(240-20)	2/15/2002	4.5	mg/kg	
			OU5-CSA-7-L25-(40,100)	2/15/2002	3.3	mg/kg	
			OU5-CSA-7-L25-(40,120)	2/15/2002	4.3	mg/kg	
			OU5-CSA-7-L25-(40,140)	2/15/2002	4.7	mg/kg	
			OU5-CSA-7-L25-(40,160)	2/15/2002	3.5	mg/kg	
			OU5-CSA-7-L25-(40,80)	2/15/2002	4.6	mg/kg	
			OU5-CSA-7-L25-(60,120)	2/15/2002	3.5	mg/kg	
			OU5-CSA-7-L25-(60,140)	2/15/2002	4.3	mg/kg	
			OU5-CSA-7-L25-(60,160)	2/15/2002	3.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-7-L25-(60,180)	2/15/2002	3.5	mg/kg	
			OU5-CSA-7-L25-(60,80)	2/15/2002	3.3	mg/kg	
			OU5-CSA-7-L25-(80,120)	2/15/2002	2.8	mg/kg	
			OU5-CSA-7-L25-(80,140)	2/15/2002	3	mg/kg	
			OU5-CSA-7-L25-(80,160)	2/15/2002	3.4	mg/kg	
			OU5-CSA-7-L25-(80,180)	2/15/2002	4.8	mg/kg	
			OU5-CSA-7-L25-(80,200)	2/15/2002	4.8	mg/kg	
			OU5-CSA-7-L25-(80,220)	2/15/2002	3.6	mg/kg	
			OU5-CSA-7-L25-(80,80)	2/15/2002	3.2	mg/kg	
			OU5-CSA-7-L25-DUP01	2/15/2002	3.6	mg/kg	OU5-CSA-7-L25-(40,160)
			OU5-CSA-7-L25-DUP02	2/15/2002	5	mg/kg	OU5-CSA-7-L25-(120,180)
			OU5-CSA-7-L25-DUP03	2/15/2002	2.7	mg/kg	OU5-CSA-7-L25-(80,120)
			OU5-CSA-7-L25-DUP04	2/15/2002	2.5	mg/kg	OU5-CSA-7-L25-(140,80)
			OU5-CSA-7-L25-SB1	2/13/2002	5.3	mg/kg	
			OU5-CSA-7-L25-SB2	2/13/2002	4.7	mg/kg	
CSA	4	4001 47th Street					
			OU5-CSA-4-4001(47)-(100,100)	2/5/2002	3.5	mg/kg	
			OU5-CSA-4-4001(47)-(100,120)	2/5/2002	54	mg/kg	
			OU5-CSA-4-4001(47)-(100,140)	2/5/2002	45.9	mg/kg	
			OU5-CSA-4-4001(47)-(100,60)	2/5/2002	3.1	mg/kg	
			OU5-CSA-4-4001(47)-(100,80)	2/5/2002	4.2	mg/kg	
			OU5-CSA-4-4001(47)-(120,120)	2/5/2002	3.2	mg/kg	
			OU5-CSA-4-4001(47)-(120,140)	2/5/2002	2.3	mg/kg	
			OU5-CSA-4-4001(47)-(20,40)	2/5/2002	22.4	mg/kg	
			OU5-CSA-4-4001(47)-(20,60)	2/5/2002	30	mg/kg	
			OU5-CSA-4-4001(47)-(40,120)	2/5/2002	8.7	mg/kg	
			OU5-CSA-4-4001(47)-(40,20)	2/5/2002	7.1	mg/kg	
			OU5-CSA-4-4001(47)-(40,40)	2/5/2002	18.6	mg/kg	
			OU5-CSA-4-4001(47)-(40,60)	2/5/2002	39.9	mg/kg	
			OU5-CSA-4-4001(47)-(60,100)	2/5/2002	10.3	mg/kg	
			OU5-CSA-4-4001(47)-(60,120)	2/5/2002	45.4	mg/kg	
			OU5-CSA-4-4001(47)-(60,140)	2/5/2002	38	mg/kg	
			OU5-CSA-4-4001(47)-(60,160)	2/5/2002	10.7	mg/kg	
			OU5-CSA-4-4001(47)-(60,20)	2/5/2002	31	mg/kg	
			OU5-CSA-4-4001(47)-(60,40)	2/5/2002	41.8	mg/kg	
			OU5-CSA-4-4001(47)-(60,60)	2/5/2002	17.4	mg/kg	
			OU5-CSA-4-4001(47)-(80,100)	2/5/2002	5.7	mg/kg	
			OU5-CSA-4-4001(47)-(80,120)	2/5/2002	47.6	mg/kg	
			OU5-CSA-4-4001(47)-(80,140)	2/5/2002	55.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-4-4001(47)-(80,160)	2/5/2002	33.9	mg/kg	
			OU5-CSA-4-4001(47)-(80,20)	2/5/2002	3.6	mg/kg	
			OU5-CSA-4-4001(47)-(80,40)	2/5/2002	29.9	mg/kg	
			OU5-CSA-4-4001(47)-(80,60)	2/5/2002	50.7	mg/kg	
			OU5-CSA-4-4001(47)-(80,80)	2/5/2002	37.6	mg/kg	
			OU5-CSA-4-4001(47)-DUP01	2/5/2002	27.9	mg/kg	OU5-CSA-4-4001(47)-(80,80)
			OU5-CSA-4-4001(47)-SB1	2/4/2002	40.2	mg/kg	
CTA	1D	4004 49th Street					
			OU5-CTA-1D-4004(49)-(100,100)	1/16/2002	4.6 J	mg/kg	
			OU5-CTA-1D-4004(49)-(100,80)	1/16/2002	4.6 J	mg/kg	
			OU5-CTA-1D-4004(49)-(20,40)	1/16/2002	3.4 J	mg/kg	
			OU5-CTA-1D-4004(49)-(20,60)	1/16/2002	11 J	mg/kg	
			OU5-CTA-1D-4004(49)-(40,100)	1/16/2002	3.3 J	mg/kg	
			OU5-CTA-1D-4004(49)-(40,120)	1/16/2002	8.3 J	mg/kg	
			OU5-CTA-1D-4004(49)-(40,20)	1/16/2002	4.6 J	mg/kg	
			OU5-CTA-1D-4004(49)-(40,40)	1/16/2002	2.8 J	mg/kg	
			OU5-CTA-1D-4004(49)-(40,60)	1/16/2002	3.3 J	mg/kg	
			OU5-CTA-1D-4004(49)-(40,80)	1/16/2002	3.2 J	mg/kg	
			OU5-CTA-1D-4004(49)-(60,100)	1/16/2002	12.6 J	mg/kg	
			OU5-CTA-1D-4004(49)-(60,120)	1/16/2002	34.9 J	mg/kg	
			OU5-CTA-1D-4004(49)-(60,20)	1/16/2002	3.8 J	mg/kg	
			OU5-CTA-1D-4004(49)-(60,40)	1/16/2002	5 J	mg/kg	
			OU5-CTA-1D-4004(49)-(60,60)	1/16/2002	4.4 J	mg/kg	
			OU5-CTA-1D-4004(49)-(80,100)	1/16/2002	3.2 J	mg/kg	
			OU5-CTA-1D-4004(49)-(80,120)	1/16/2002	6.5 J	mg/kg	
			OU5-CTA-1D-4004(49)-(80,20)	1/16/2002	2 J	mg/kg	
			OU5-CTA-1D-4004(49)-(80,40)	1/16/2002	2.7 J	mg/kg	
			OU5-CTA-1D-4004(49)-(80,60)	1/16/2002	2.8 J	mg/kg	
			OU5-CTA-1D-4004(49)-(80,80)	1/16/2002	5.5 J	mg/kg	
			OU5-CTA-1D-4004(49)-DUP01	1/16/2002	3.8 J	mg/kg	OU5-CTA-1D-4004(49)-(60,60)
CSA	4	4005 47th Street					
			OU5-CSA-4-4005(47)-(100,100)	2/5/2002	24.9	mg/kg	
			OU5-CSA-4-4005(47)-(100,120)	2/5/2002	16.2	mg/kg	
			OU5-CSA-4-4005(47)-(100,140)	2/5/2002	6.7	mg/kg	
			OU5-CSA-4-4005(47)-(20,40)	2/5/2002	23.4	mg/kg	
			OU5-CSA-4-4005(47)-(20,60)	2/5/2002	36.5	mg/kg	
			OU5-CSA-4-4005(47)-(40,100)	2/5/2002	19	mg/kg	
			OU5-CSA-4-4005(47)-(40,20)	2/5/2002	28.7	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-4-4005(47)-(40,40)	2/5/2002	44.6	mg/kg	
			OU5-CSA-4-4005(47)-(40,60)	2/5/2002	7.4	mg/kg	
			OU5-CSA-4-4005(47)-(40,80)	2/5/2002	83.4	mg/kg	
			OU5-CSA-4-4005(47)-(60,100)	2/5/2002	13.1	mg/kg	
			OU5-CSA-4-4005(47)-(60,120)	2/5/2002	19.8	mg/kg	
			OU5-CSA-4-4005(47)-(60,140)	2/5/2002	5.1	mg/kg	
			OU5-CSA-4-4005(47)-(60,20)	2/5/2002	11.2	mg/kg	
			OU5-CSA-4-4005(47)-(60,40)	2/5/2002	28.7	mg/kg	
			OU5-CSA-4-4005(47)-(60,60)	2/5/2002	4.6	mg/kg	
			OU5-CSA-4-4005(47)-(80,100)	2/5/2002	15.8	mg/kg	
			OU5-CSA-4-4005(47)-(80,120)	2/5/2002	33.2	mg/kg	
			OU5-CSA-4-4005(47)-(80,140)	2/5/2002	6.1	mg/kg	
			OU5-CSA-4-4005(47)-DUP01	2/5/2002	41.8	mg/kg	OU5-CSA-4-4005(47)-(40,40)
			OU5-CSA-4-4005(47)-SB1	2/4/2002	3.2	mg/kg	
CTA	1B	4005 52nd Street					
			OU5-CTA-1B-4005(52)-(100,120)	11/14/2001	16.5 L	mg/kg	
			OU5-CTA-1B-4005(52)-(100,140)	11/14/2001	3.9 L	mg/kg	
			OU5-CTA-1B-4005(52)-(100,160)	11/14/2001	4.1 L	mg/kg	
			OU5-CTA-1B-4005(52)-(100,20)	11/14/2001	67.2 L	mg/kg	
			OU5-CTA-1B-4005(52)-(100,40)	11/14/2001	117 L	mg/kg	
			OU5-CTA-1B-4005(52)-(100,60)	11/14/2001	21.5 L	mg/kg	
			OU5-CTA-1B-4005(52)-(120,100)	11/14/2001	43 L	mg/kg	
			OU5-CTA-1B-4005(52)-(120,120)	11/14/2001	4.3 L	mg/kg	
			OU5-CTA-1B-4005(52)-(120,140)	11/14/2001	2.3 JL	mg/kg	
			OU5-CTA-1B-4005(52)-(120,160)	11/14/2001	2.1 JL	mg/kg	
			OU5-CTA-1B-4005(52)-(120,60)	11/14/2001	97.6 L	mg/kg	
			OU5-CTA-1B-4005(52)-(120,80)	11/14/2001	43.4 L	mg/kg	
			OU5-CTA-1B-4005(52)-(140,100)	11/14/2001	46 L	mg/kg	
			OU5-CTA-1B-4005(52)-(140,120)	11/14/2001	3.5 L	mg/kg	
			OU5-CTA-1B-4005(52)-(140,140)	11/14/2001	3.9 L	mg/kg	
			OU5-CTA-1B-4005(52)-(140,80)	11/14/2001	13.9 L	mg/kg	
			OU5-CTA-1B-4005(52)-(160,100)	11/14/2001	4.6 L	mg/kg	
			OU5-CTA-1B-4005(52)-(160,120)	11/14/2001	3.3 L	mg/kg	
			OU5-CTA-1B-4005(52)-(160,140)	11/14/2001	3.5 L	mg/kg	
			OU5-CTA-1B-4005(52)-(180,140)	11/14/2001	3.7 L	mg/kg	
			OU5-CTA-1B-4005(52)-(20,40)	11/14/2001	22.6 L	mg/kg	
			OU5-CTA-1B-4005(52)-(20,60)	11/14/2001	28.9 L	mg/kg	
			OU5-CTA-1B-4005(52)-(40,100)	11/14/2001	56.9 L	mg/kg	
			OU5-CTA-1B-4005(52)-(40,40)	11/14/2001	70.3 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1B-4005(52)-(40,60)	11/14/2001	48 L	mg/kg	
			OU5-CTA-1B-4005(52)-(40,80)	11/14/2001	27.2 L	mg/kg	
			OU5-CTA-1B-4005(52)-(60,100)	11/14/2001	9.6 L	mg/kg	
			OU5-CTA-1B-4005(52)-(60,120)	11/14/2001	16.9 L	mg/kg	
			OU5-CTA-1B-4005(52)-(60,140)	11/14/2001	12 L	mg/kg	
			OU5-CTA-1B-4005(52)-(60,20)	11/14/2001	33 L	mg/kg	
			OU5-CTA-1B-4005(52)-(60,40)	11/14/2001	16 L	mg/kg	
			OU5-CTA-1B-4005(52)-(60,60)	11/14/2001	20.4 L	mg/kg	
			OU5-CTA-1B-4005(52)-(60,80)	11/14/2001	8.6 L	mg/kg	
			OU5-CTA-1B-4005(52)-(80,120)	11/14/2001	11.3 L	mg/kg	
			OU5-CTA-1B-4005(52)-(80,140)	11/14/2001	5 L	mg/kg	
			OU5-CTA-1B-4005(52)-(80,160)	11/14/2001	6.2 L	mg/kg	
			OU5-CTA-1B-4005(52)-(80,20)	11/14/2001	52.4 L	mg/kg	
			OU5-CTA-1B-4005(52)-(80,40)	11/14/2001	48.7 L	mg/kg	
			OU5-CTA-1B-4005(52)-(80,60)	11/14/2001	92.4 L	mg/kg	
			OU5-CTA-1B-4005(52)-(80,80)	11/14/2001	5.1 L	mg/kg	
			OU5-CTA-1B-4005(52)-DUP01	11/14/2001	28.9 L	mg/kg	OU5-CTA-1B-4005(52)-(60,20)
			OU5-CTA-1B-4005(52)-DUP02	11/14/2001	49.3 L	mg/kg	OU5-CTA-1B-4005(52)-(80,40)
CSA	4	4007 49th Street					
			OU5-CSA-4-4007(49)-(100,100)	9/26/2001	46.8 L	mg/kg	
			OU5-CSA-4-4007(49)-(100,120)	9/26/2001	8.6 L	mg/kg	
			OU5-CSA-4-4007(49)-(100,140)	9/26/2001	23.8 L	mg/kg	
			OU5-CSA-4-4007(49)-(100,160)	9/26/2001	3.7 L	mg/kg	
			OU5-CSA-4-4007(49)-(100,80)	9/26/2001	22.9 L	mg/kg	
			OU5-CSA-4-4007(49)-(120,100)	9/26/2001	4.2 L	mg/kg	
			OU5-CSA-4-4007(49)-(120,140)	9/26/2001	9.9 L	mg/kg	
			OU5-CSA-4-4007(49)-(20,40)	9/26/2001	103 L	mg/kg	
			OU5-CSA-4-4007(49)-(20,60)	9/26/2001	13.1 L	mg/kg	
			OU5-CSA-4-4007(49)-(20,80)	9/26/2001	24.5 L	mg/kg	
			OU5-CSA-4-4007(49)-(40,100)	9/26/2001	4.8 L	mg/kg	
			OU5-CSA-4-4007(49)-(40,120)	9/26/2001	4.2 L	mg/kg	
			OU5-CSA-4-4007(49)-(40,20)	9/26/2001	36.6 L	mg/kg	
			OU5-CSA-4-4007(49)-(40,40)	9/26/2001	61.6 L	mg/kg	
			OU5-CSA-4-4007(49)-(40,60)	9/26/2001	18.2 L	mg/kg	
			OU5-CSA-4-4007(49)-(40,80)	9/26/2001	50.8 L	mg/kg	
			OU5-CSA-4-4007(49)-(60,120)	9/26/2001	10.3 L	mg/kg	
			OU5-CSA-4-4007(49)-(60,140)	9/26/2001	12.3 L	mg/kg	
			OU5-CSA-4-4007(49)-(60,160)	9/26/2001	7 L	mg/kg	
			OU5-CSA-4-4007(49)-(60,180)	9/26/2001	4.4 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-4-4007(49)-(60,20)	9/26/2001	174 L	mg/kg	
			OU5-CSA-4-4007(49)-(60,40)	9/26/2001	105 L	mg/kg	
			OU5-CSA-4-4007(49)-(60,60)	9/26/2001	34.9 L	mg/kg	
			OU5-CSA-4-4007(49)-(60,80)	9/26/2001	24.4 L	mg/kg	
			OU5-CSA-4-4007(49)-(80,100)	9/26/2001	150 L	mg/kg	
			OU5-CSA-4-4007(49)-(80,120)	9/26/2001	22 L	mg/kg	
			OU5-CSA-4-4007(49)-(80,140)	9/26/2001	8.2 L	mg/kg	
			OU5-CSA-4-4007(49)-(80,160)	9/26/2001	8.3 L	mg/kg	
			OU5-CSA-4-4007(49)-(80,180)	9/26/2001	4.1 L	mg/kg	
			OU5-CSA-4-4007(49)-(80,20)	9/26/2001	12.3 L	mg/kg	
			OU5-CSA-4-4007(49)-(80,40)	9/26/2001	83.4 L	mg/kg	
			OU5-CSA-4-4007(49)-(80,60)	9/26/2001	112 L	mg/kg	
			OU5-CSA-4-4007(49)-(80,80)	9/26/2001	32.9 L	mg/kg	
			OU5-CSA-4-4007(49)-DUP01	9/26/2001	18.1 L	mg/kg	OU5-CSA-4-4007(49)-(80,120)
			OU5-CSA-4-4007(49)-DUP02	9/26/2001	64.5 L	mg/kg	OU5-CSA-4-4007(49)-(40,80)
			OU5-CSA-4-4007(49)-SB1	9/24/2001	2.6	mg/kg	
			OU5-CSA-4-4007(49)-SB2	9/24/2001	4	mg/kg	
			OU5-CSA-4-4007(49)-SB3	9/24/2001	3.6	mg/kg	
			OU5-CSA-4-4007(49)-SB4	9/24/2001	3.6	mg/kg	
			OU5-CSA-4-4007(49)-SB5	9/24/2001	2.5	mg/kg	
			OU5-CSA-4-4007(49)-SB6	9/24/2001	2.2 J	mg/kg	
CSA	4	4008 47th Street					
			OU5-CSA-4-4008(47)-(100,120)	2/7/2002	24.5	mg/kg	
			OU5-CSA-4-4008(47)-(100,140)	2/7/2002	4.8	mg/kg	
			OU5-CSA-4-4008(47)-(20,20)	2/7/2002	8	mg/kg	
			OU5-CSA-4-4008(47)-(20,40)	2/7/2002	12	mg/kg	
			OU5-CSA-4-4008(47)-(40,100)	2/7/2002	4.6	mg/kg	
			OU5-CSA-4-4008(47)-(40,20)	2/7/2002	26.8	mg/kg	
			OU5-CSA-4-4008(47)-(40,40)	2/7/2002	39.6	mg/kg	
			OU5-CSA-4-4008(47)-(40,60)	2/7/2002	4.8	mg/kg	
			OU5-CSA-4-4008(47)-(60,100)	2/7/2002	22.3	mg/kg	
			OU5-CSA-4-4008(47)-(60,120)	2/7/2002	33.2	mg/kg	
			OU5-CSA-4-4008(47)-(60,140)	2/7/2002	7	mg/kg	
			OU5-CSA-4-4008(47)-(60,20)	2/7/2002	24.2	mg/kg	
			OU5-CSA-4-4008(47)-(60,40)	2/7/2002	16.9	mg/kg	
			OU5-CSA-4-4008(47)-(60,60)	2/7/2002	4.4	mg/kg	
			OU5-CSA-4-4008(47)-(80,100)	2/7/2002	35.2	mg/kg	
			OU5-CSA-4-4008(47)-(80,120)	2/7/2002	28.8	mg/kg	
			OU5-CSA-4-4008(47)-(80,140)	2/7/2002	5.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-4-4008(47)-(80,60)	2/7/2002	6.3	mg/kg	
			OU5-CSA-4-4008(47)-(80,80)	2/7/2002	7.3	mg/kg	
			OU5-CSA-4-4008(47)-DUP01	2/7/2002	38.8	mg/kg	OU5-CSA-4-4008(47)-(40,40)
			OU5-CSA-4-4008(47)-SB1	2/4/2002	3.6	mg/kg	
CSA	4	4009 47th Street					
			OU5-CSA-4-4009(47)-(100,100)	2/6/2002	39.2	mg/kg	
			OU5-CSA-4-4009(47)-(100,120)	2/6/2002	38.4	mg/kg	
			OU5-CSA-4-4009(47)-(100,140)	2/6/2002	5.3	mg/kg	
			OU5-CSA-4-4009(47)-(100,40)	2/6/2002	16.7	mg/kg	
			OU5-CSA-4-4009(47)-(100,60)	2/6/2002	34.8	mg/kg	
			OU5-CSA-4-4009(47)-(100,80)	2/6/2002	13.9	mg/kg	
			OU5-CSA-4-4009(47)-(120,100)	2/6/2002	5.3	mg/kg	
			OU5-CSA-4-4009(47)-(120,120)	2/6/2002	35.7	mg/kg	
			OU5-CSA-4-4009(47)-(120,140)	2/6/2002	6.7	mg/kg	
			OU5-CSA-4-4009(47)-(20,40)	2/6/2002	25.4	mg/kg	
			OU5-CSA-4-4009(47)-(40,100)	2/6/2002	2.8	mg/kg	
			OU5-CSA-4-4009(47)-(40,20)	2/6/2002	12.3	mg/kg	
			OU5-CSA-4-4009(47)-(40,40)	2/6/2002	37.7	mg/kg	
			OU5-CSA-4-4009(47)-(40,60)	2/6/2002	17.3	mg/kg	
			OU5-CSA-4-4009(47)-(40,80)	2/6/2002	2.9	mg/kg	
			OU5-CSA-4-4009(47)-(60,100)	2/6/2002	5.6	mg/kg	
			OU5-CSA-4-4009(47)-(60,120)	2/6/2002	28.5	mg/kg	
			OU5-CSA-4-4009(47)-(60,140)	2/6/2002	6.3	mg/kg	
			OU5-CSA-4-4009(47)-(60,20)	2/6/2002	14.7	mg/kg	
			OU5-CSA-4-4009(47)-(60,40)	2/6/2002	33.4	mg/kg	
			OU5-CSA-4-4009(47)-(60,60)	2/6/2002	5.8	mg/kg	
			OU5-CSA-4-4009(47)-(80,100)	2/6/2002	39.6	mg/kg	
			OU5-CSA-4-4009(47)-(80,120)	2/6/2002	25.4	mg/kg	
			OU5-CSA-4-4009(47)-(80,140)	2/6/2002	14.6	mg/kg	
			OU5-CSA-4-4009(47)-(80,20)	2/6/2002	20.4	mg/kg	
			OU5-CSA-4-4009(47)-(80,40)	2/6/2002	15.1	mg/kg	
			OU5-CSA-4-4009(47)-DUP01	2/6/2002	39.4	mg/kg	OU5-CSA-4-4009(47)-(100,120)
			OU5-CSA-4-4009(47)-SB1	2/13/2002	1.7 J	mg/kg	
CSA	4	4012 47th Street					
			OU5-CSA-4-4012(47)-(20,20)	2/1/2002	9	mg/kg	
			OU5-CSA-4-4012(47)-(20,40)	2/1/2002	21.1	mg/kg	
			OU5-CSA-4-4012(47)-(20,60)	2/1/2002	18.9	mg/kg	
			OU5-CSA-4-4012(47)-(40,100)	2/1/2002	23	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-4-4012(47)-(40,20)	2/1/2002	12.4	mg/kg	
			OU5-CSA-4-4012(47)-(40,40)	2/1/2002	20	mg/kg	
			OU5-CSA-4-4012(47)-(40,60)	2/1/2002	5.2	mg/kg	
			OU5-CSA-4-4012(47)-(40,80)	2/1/2002	42	mg/kg	
			OU5-CSA-4-4012(47)-(60,100)	2/1/2002	9.1	mg/kg	
			OU5-CSA-4-4012(47)-(60,120)	2/1/2002	55.7	mg/kg	
			OU5-CSA-4-4012(47)-(60,140)	2/1/2002	13.5	mg/kg	
			OU5-CSA-4-4012(47)-(60,160)	2/1/2002	7.2	mg/kg	
			OU5-CSA-4-4012(47)-(60,60)	2/1/2002	5.8	mg/kg	
			OU5-CSA-4-4012(47)-(80,120)	2/1/2002	20.3	mg/kg	
			OU5-CSA-4-4012(47)-(80,140)	2/1/2002	15.2	mg/kg	
			OU5-CSA-4-4012(47)-DUP01	2/1/2002	20.2	mg/kg	OU5-CSA-4-4012(47)-(20,60)
			OU5-CSA-4-4012(47)-SB-DUP01	2/4/2002	8.9	mg/kg	OU5-CSA-4-4012(47)-SB3
			OU5-CSA-4-4012(47)-SB1	2/4/2002	1.7 J	mg/kg	
			OU5-CSA-4-4012(47)-SB2	2/4/2002	3.7	mg/kg	
			OU5-CSA-4-4012(47)-SB3	2/4/2002	8.5	mg/kg	
			OU5-CSA-4-4012(47)-SB4	2/4/2002	5.2	mg/kg	
CTA	1B	4015 52nd Street					
			OU5-CTA-1B-4015(52)-(100,120)	11/12/2001	4.7	mg/kg	
			OU5-CTA-1B-4015(52)-(100,140)	11/12/2001	3.5	mg/kg	
			OU5-CTA-1B-4015(52)-(100,160)	11/12/2001	4	mg/kg	
			OU5-CTA-1B-4015(52)-(100,20)	11/12/2001	3.1	mg/kg	
			OU5-CTA-1B-4015(52)-(100,40)	11/12/2001	3.3	mg/kg	
			OU5-CTA-1B-4015(52)-(100,60)	11/12/2001	2.6 J	mg/kg	
			OU5-CTA-1B-4015(52)-(100,80)	11/12/2001	2.8 J	mg/kg	
			OU5-CTA-1B-4015(52)-(120,100)	11/12/2001	5.2	mg/kg	
			OU5-CTA-1B-4015(52)-(120,120)	11/12/2001	10.3	mg/kg	
			OU5-CTA-1B-4015(52)-(120,140)	11/12/2001	5.1	mg/kg	
			OU5-CTA-1B-4015(52)-(120,160)	11/12/2001	6.8	mg/kg	
			OU5-CTA-1B-4015(52)-(120,40)	11/12/2001	14.5	mg/kg	
			OU5-CTA-1B-4015(52)-(120,60)	11/12/2001	5.3	mg/kg	
			OU5-CTA-1B-4015(52)-(120,80)	11/12/2001	5.3	mg/kg	
			OU5-CTA-1B-4015(52)-(140,100)	11/12/2001	4.1	mg/kg	
			OU5-CTA-1B-4015(52)-(140,120)	11/12/2001	2.9	mg/kg	
			OU5-CTA-1B-4015(52)-(140,140)	11/12/2001	4.8	mg/kg	
			OU5-CTA-1B-4015(52)-(140,80)	11/12/2001	20.7	mg/kg	
			OU5-CTA-1B-4015(52)-(160,120)	11/12/2001	4.3	mg/kg	
			OU5-CTA-1B-4015(52)-(160,140)	11/12/2001	4	mg/kg	
			OU5-CTA-1B-4015(52)-(20,40)	11/12/2001	3.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1B-4015(52)-(40,40)	11/12/2001	3.1	mg/kg	
			OU5-CTA-1B-4015(52)-(40,60)	11/12/2001	11.8	mg/kg	
			OU5-CTA-1B-4015(52)-(40,80)	11/12/2001	4.4	mg/kg	
			OU5-CTA-1B-4015(52)-(60,100)	11/12/2001	4.4	mg/kg	
			OU5-CTA-1B-4015(52)-(60,120)	11/12/2001	3.9	mg/kg	
			OU5-CTA-1B-4015(52)-(60,40)	11/12/2001	3.8	mg/kg	
			OU5-CTA-1B-4015(52)-(60,60)	11/12/2001	4.9	mg/kg	
			OU5-CTA-1B-4015(52)-(60,80)	11/12/2001	4.9	mg/kg	
			OU5-CTA-1B-4015(52)-(80,120)	11/12/2001	3.3	mg/kg	
			OU5-CTA-1B-4015(52)-(80,140)	11/12/2001	3.2 J	mg/kg	
			OU5-CTA-1B-4015(52)-(80,160)	11/12/2001	2.7 J	mg/kg	
			OU5-CTA-1B-4015(52)-(80,20)	11/12/2001	7.3	mg/kg	
			OU5-CTA-1B-4015(52)-(80,40)	11/12/2001	5.4	mg/kg	
			OU5-CTA-1B-4015(52)-(80,60)	11/12/2001	1.8 J	mg/kg	
			OU5-CTA-1B-4015(52)-(80,80)	11/12/2001	2.8	mg/kg	
CSA	4	4016 47th Street					
			OU5-CSA-4-4016(47)-(100,100)	2/1/2002	5.4	mg/kg	
			OU5-CSA-4-4016(47)-(100,120)	2/1/2002	3.9	mg/kg	
			OU5-CSA-4-4016(47)-(20,20)	2/1/2002	34.7	mg/kg	
			OU5-CSA-4-4016(47)-(20,40)	2/1/2002	45.1	mg/kg	
			OU5-CSA-4-4016(47)-(40,0)	2/1/2002	23.2	mg/kg	
			OU5-CSA-4-4016(47)-(40,100)	2/1/2002	7.1	mg/kg	
			OU5-CSA-4-4016(47)-(40,20)	2/1/2002	18	mg/kg	
			OU5-CSA-4-4016(47)-(40,40)	2/1/2002	44.2	mg/kg	
			OU5-CSA-4-4016(47)-(60,0)	2/1/2002	53.8	mg/kg	
			OU5-CSA-4-4016(47)-(60,100)	2/1/2002	33.4	mg/kg	
			OU5-CSA-4-4016(47)-(60,120)	2/1/2002	45.4	mg/kg	
			OU5-CSA-4-4016(47)-(60,140)	2/1/2002	6.6	mg/kg	
			OU5-CSA-4-4016(47)-(60,20)	2/1/2002	62.7	mg/kg	
			OU5-CSA-4-4016(47)-(60,40)	2/1/2002	10.3	mg/kg	
			OU5-CSA-4-4016(47)-(60,80)	2/1/2002	6.1	mg/kg	
			OU5-CSA-4-4016(47)-(80,100)	2/1/2002	22.6	mg/kg	
			OU5-CSA-4-4016(47)-(80,120)	2/1/2002	11.3	mg/kg	
			OU5-CSA-4-4016(47)-(80,140)	2/1/2002	4.1	mg/kg	
			OU5-CSA-4-4016(47)-(80,40)	2/1/2002	48.8	mg/kg	
			OU5-CSA-4-4016(47)-(80,60)	2/1/2002	82.4	mg/kg	
			OU5-CSA-4-4016(47)-(80,80)	2/1/2002	22.2	mg/kg	
			OU5-CSA-4-4016(47)-DUP01	2/1/2002	35.1	mg/kg	OU5-CSA-4-4016(47)-(60,120)
			OU5-CSA-4-4016(47)-SB1	2/4/2002	3.1	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
CTA	1B	4070 52nd Street					
			OU5-CTA-1B-4070(52)-(100,100)	2/25/2002	4.3	mg/kg	
			OU5-CTA-1B-4070(52)-(100,120)	2/25/2002	9.9	mg/kg	
			OU5-CTA-1B-4070(52)-(100,140)	2/25/2002	13.9	mg/kg	
			OU5-CTA-1B-4070(52)-(100,20)	2/25/2002	10.2	mg/kg	
			OU5-CTA-1B-4070(52)-(100,40)	2/25/2002	11.9	mg/kg	
			OU5-CTA-1B-4070(52)-(100,60)	2/25/2002	13.4	mg/kg	
			OU5-CTA-1B-4070(52)-(100,80)	2/25/2002	10.7	mg/kg	
			OU5-CTA-1B-4070(52)-(120,100)	2/25/2002	18.7	mg/kg	
			OU5-CTA-1B-4070(52)-(120,120)	2/25/2002	6.3	mg/kg	
			OU5-CTA-1B-4070(52)-(120,140)	2/25/2002	10.8	mg/kg	
			OU5-CTA-1B-4070(52)-(120,160)	2/25/2002	13.3	mg/kg	
			OU5-CTA-1B-4070(52)-(120,20)	2/25/2002	10	mg/kg	
			OU5-CTA-1B-4070(52)-(120,40)	2/25/2002	9.8	mg/kg	
			OU5-CTA-1B-4070(52)-(120,60)	2/25/2002	9.5	mg/kg	
			OU5-CTA-1B-4070(52)-(120,80)	2/25/2002	12.3	mg/kg	
			OU5-CTA-1B-4070(52)-(140,100)	2/25/2002	11.3	mg/kg	
			OU5-CTA-1B-4070(52)-(140,120)	2/25/2002	6.3	mg/kg	
			OU5-CTA-1B-4070(52)-(140,140)	2/25/2002	3.9	mg/kg	
			OU5-CTA-1B-4070(52)-(140,160)	2/25/2002	5.7	mg/kg	
			OU5-CTA-1B-4070(52)-(140,20)	2/25/2002	16.3	mg/kg	
			OU5-CTA-1B-4070(52)-(140,40)	2/25/2002	12.4	mg/kg	
			OU5-CTA-1B-4070(52)-(140,60)	2/25/2002	13.2	mg/kg	
			OU5-CTA-1B-4070(52)-(140,80)	2/25/2002	16.1	mg/kg	
			OU5-CTA-1B-4070(52)-(160,100)	2/25/2002	7.8	mg/kg	
			OU5-CTA-1B-4070(52)-(160,120)	2/25/2002	13.7	mg/kg	
			OU5-CTA-1B-4070(52)-(160,140)	2/25/2002	16.1	mg/kg	
			OU5-CTA-1B-4070(52)-(160,20)	2/25/2002	24.4	mg/kg	
			OU5-CTA-1B-4070(52)-(160,40)	2/25/2002	8.8	mg/kg	
			OU5-CTA-1B-4070(52)-(160,60)	2/25/2002	11.5	mg/kg	
			OU5-CTA-1B-4070(52)-(160,80)	2/25/2002	3.5	mg/kg	
			OU5-CTA-1B-4070(52)-(180,120)	2/25/2002	7.6	mg/kg	
			OU5-CTA-1B-4070(52)-(180,140)	2/25/2002	1.3 J	mg/kg	
			OU5-CTA-1B-4070(52)-(180,20)	2/25/2002	27.5	mg/kg	
			OU5-CTA-1B-4070(52)-(180,40)	2/25/2002	12.6	mg/kg	
			OU5-CTA-1B-4070(52)-(180,60)	2/25/2002	37.6	mg/kg	
			OU5-CTA-1B-4070(52)-(180,80)	2/25/2002	3.7	mg/kg	
			OU5-CTA-1B-4070(52)-(20,60)	2/25/2002	15.5	mg/kg	
			OU5-CTA-1B-4070(52)-(20,80)	2/25/2002	21.7	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1B-4070(52)-(200,100)	2/25/2002	7.7	mg/kg	
			OU5-CTA-1B-4070(52)-(200,120)	2/25/2002	5.5	mg/kg	
			OU5-CTA-1B-4070(52)-(200,20)	2/25/2002	17.3	mg/kg	
			OU5-CTA-1B-4070(52)-(200,40)	2/25/2002	8.3	mg/kg	
			OU5-CTA-1B-4070(52)-(200,60)	2/25/2002	2.7	mg/kg	
			OU5-CTA-1B-4070(52)-(220,100)	2/25/2002	7.2	mg/kg	
			OU5-CTA-1B-4070(52)-(220,120)	2/25/2002	4.1	mg/kg	
			OU5-CTA-1B-4070(52)-(220,20)	2/25/2002	26.3	mg/kg	
			OU5-CTA-1B-4070(52)-(220,40)	2/25/2002	6.5	mg/kg	
			OU5-CTA-1B-4070(52)-(220,60)	2/25/2002	3.8	mg/kg	
			OU5-CTA-1B-4070(52)-(240,100)	2/25/2002	9.3	mg/kg	
			OU5-CTA-1B-4070(52)-(240,120)	2/25/2002	2.3 J	mg/kg	
			OU5-CTA-1B-4070(52)-(240,20)	2/25/2002	19.1	mg/kg	
			OU5-CTA-1B-4070(52)-(240,40)	2/25/2002	6.5	mg/kg	
			OU5-CTA-1B-4070(52)-(240,60)	2/25/2002	6	mg/kg	
			OU5-CTA-1B-4070(52)-(240,80)	2/25/2002	6.1	mg/kg	
			OU5-CTA-1B-4070(52)-(260,100)	2/25/2002	6.1	mg/kg	
			OU5-CTA-1B-4070(52)-(260,20)	2/25/2002	7.1	mg/kg	
			OU5-CTA-1B-4070(52)-(260,40)	2/25/2002	5.9	mg/kg	
			OU5-CTA-1B-4070(52)-(260,60)	2/25/2002	5.1	mg/kg	
			OU5-CTA-1B-4070(52)-(260,80)	2/25/2002	6.7	mg/kg	
			OU5-CTA-1B-4070(52)-(280,100)	2/25/2002	2.8	mg/kg	
			OU5-CTA-1B-4070(52)-(280,20)	2/25/2002	3.6	mg/kg	
			OU5-CTA-1B-4070(52)-(280,40)	2/25/2002	2.3	mg/kg	
			OU5-CTA-1B-4070(52)-(280,60)	2/25/2002	3.1	mg/kg	
			OU5-CTA-1B-4070(52)-(280,80)	2/25/2002	5.7	mg/kg	
			OU5-CTA-1B-4070(52)-(40,100)	2/25/2002	17.1	mg/kg	
			OU5-CTA-1B-4070(52)-(40,60)	2/25/2002	8.3	mg/kg	
			OU5-CTA-1B-4070(52)-(40,80)	2/25/2002	8.8	mg/kg	
			OU5-CTA-1B-4070(52)-(60,100)	2/25/2002	21.5	mg/kg	
			OU5-CTA-1B-4070(52)-(60,120)	2/25/2002	18.1	mg/kg	
			OU5-CTA-1B-4070(52)-(60,40)	2/25/2002	12.1	mg/kg	
			OU5-CTA-1B-4070(52)-(60,60)	2/25/2002	8.3	mg/kg	
			OU5-CTA-1B-4070(52)-(60,80)	2/25/2002	7.9	mg/kg	
			OU5-CTA-1B-4070(52)-(80,100)	2/25/2002	23.5	mg/kg	
			OU5-CTA-1B-4070(52)-(80,120)	2/25/2002	10.8	mg/kg	
			OU5-CTA-1B-4070(52)-(80,40)	2/25/2002	22.5	mg/kg	
			OU5-CTA-1B-4070(52)-(80,60)	2/25/2002	12.9	mg/kg	
			OU5-CTA-1B-4070(52)-(80,80)	2/25/2002	17.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1B-4070(52)-DUP01	2/25/2002	8.5	mg/kg	OU5-CTA-1B-4070(52)-(220,100)
			OU5-CTA-1B-4070(52)-DUP02	2/25/2002	18	mg/kg	OU5-CTA-1B-4070(52)-(240,20)
			OU5-CTA-1B-4070(52)-DUP03	2/25/2002	11.8	mg/kg	OU5-CTA-1B-4070(52)-(120,100)
			OU5-CTA-1B-4070(52)-DUP04	2/25/2002	15.6	mg/kg	OU5-CTA-1B-4070(52)-(160,120)
CSA	5	4115 45th Street					
			OU5-CSA-5-4115(45)-(0,20)	12/12/2001	529 J	mg/kg	
			OU5-CSA-5-4115(45)-(0,40)	12/12/2001	218 J	mg/kg	
			OU5-CSA-5-4115(45)-(20,20)	12/12/2001	313 J	mg/kg	
			OU5-CSA-5-4115(45)-(20,220)	12/12/2001	14.9 J	mg/kg	
			OU5-CSA-5-4115(45)-(20,40)	12/12/2001	235 J	mg/kg	
			OU5-CSA-5-4115(45)-(20,60)	12/12/2001	186 J	mg/kg	
			OU5-CSA-5-4115(45)-(20,80)	12/12/2001	45.6 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,100)	12/12/2001	96.4 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,120)	12/12/2001	384 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,140)	12/12/2001	364 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,160)	12/12/2001	220 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,180)	12/12/2001	170 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,20)	12/12/2001	134 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,200)	12/12/2001	301 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,220)	12/12/2001	162 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,240)	12/12/2001	26.9 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,40)	12/12/2001	211 J	mg/kg	
			OU5-CSA-5-4115(45)-(40,80)	12/12/2001	72.3 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,100)	12/12/2001	160 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,120)	12/12/2001	170 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,140)	12/12/2001	69.9 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,160)	12/12/2001	95.4 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,180)	12/12/2001	497 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,20)	12/12/2001	130 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,200)	12/12/2001	296 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,220)	12/12/2001	195 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,240)	12/12/2001	27.1 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,40)	12/12/2001	211 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,60)	12/12/2001	104 J	mg/kg	
			OU5-CSA-5-4115(45)-(60,80)	12/12/2001	26.1 J	mg/kg	
			OU5-CSA-5-4115(45)-(80,100)	12/12/2001	178 J	mg/kg	
			OU5-CSA-5-4115(45)-(80,20)	12/12/2001	183 J	mg/kg	
			OU5-CSA-5-4115(45)-(80,40)	12/12/2001	146 J	mg/kg	
			OU5-CSA-5-4115(45)-(80,60)	12/12/2001	176 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-5-4115(45)-(80,80)	12/12/2001	119 J	mg/kg	
			OU5-CSA-5-4115(45)-DUP01	12/12/2001	87 J	mg/kg	OU5-CSA-5-4115(45)-(60,60)
			OU5-CSA-5-4115(45)-DUP02	12/12/2001	307 J	mg/kg	OU5-CSA-5-4115(45)-(40,200)
			OU5-CSA-5-4115(45)-SB1	12/10/2001	5.7	mg/kg	
			OU5-CSA-5-4115(45)-SB10	12/10/2001	0.42 U	mg/kg	
			OU5-CSA-5-4115(45)-SB2	12/10/2001	3	mg/kg	
			OU5-CSA-5-4115(45)-SB3	12/10/2001	7.9	mg/kg	
			OU5-CSA-5-4115(45)-SB4	12/10/2001	3.6	mg/kg	
			OU5-CSA-5-4115(45)-SB5	12/10/2001	0.44 J	mg/kg	
			OU5-CSA-5-4115(45)-SB6	12/10/2001	2.5	mg/kg	
			OU5-CSA-5-4115(45)-SB7	12/10/2001	2.1 J	mg/kg	
			OU5-CSA-5-4115(45)-SB8	12/10/2001	2.3 J	mg/kg	
			OU5-CSA-5-4115(45)-SB9	12/10/2001	0.97 J	mg/kg	
CTA	1D	4118 49th Street					
			OU5-CTA-1D-4118(49)-(100,100)	12/18/2001	5	mg/kg	
			OU5-CTA-1D-4118(49)-(100,120)	12/18/2001	7.6	mg/kg	
			OU5-CTA-1D-4118(49)-(100,20)	12/18/2001	2.4 J	mg/kg	
			OU5-CTA-1D-4118(49)-(100,40)	12/18/2001	2.3 J	mg/kg	
			OU5-CTA-1D-4118(49)-(100,60)	12/18/2001	14.9	mg/kg	
			OU5-CTA-1D-4118(49)-(120,100)	12/18/2001	5.5	mg/kg	
			OU5-CTA-1D-4118(49)-(120,120)	12/18/2001	15.6	mg/kg	
			OU5-CTA-1D-4118(49)-(120,20)	12/18/2001	3.5	mg/kg	
			OU5-CTA-1D-4118(49)-(120,40)	12/18/2001	2.8 J	mg/kg	
			OU5-CTA-1D-4118(49)-(120,60)	12/18/2001	5.4	mg/kg	
			OU5-CTA-1D-4118(49)-(120,80)	12/18/2001	3.4	mg/kg	
			OU5-CTA-1D-4118(49)-(140,100)	12/18/2001	6.5	mg/kg	
			OU5-CTA-1D-4118(49)-(140,20)	12/18/2001	4.3	mg/kg	
			OU5-CTA-1D-4118(49)-(140,40)	12/18/2001	3	mg/kg	
			OU5-CTA-1D-4118(49)-(140,60)	12/18/2001	4.5	mg/kg	
			OU5-CTA-1D-4118(49)-(140,80)	12/18/2001	2.4 J	mg/kg	
			OU5-CTA-1D-4118(49)-(160,100)	12/18/2001	10.9	mg/kg	
			OU5-CTA-1D-4118(49)-(160,40)	12/18/2001	3.5	mg/kg	
			OU5-CTA-1D-4118(49)-(160,60)	12/18/2001	4.3	mg/kg	
			OU5-CTA-1D-4118(49)-(160,80)	12/18/2001	2.9	mg/kg	
			OU5-CTA-1D-4118(49)-(180,80)	12/18/2001	4.6	mg/kg	
			OU5-CTA-1D-4118(49)-(40,40)	12/18/2001	2.8	mg/kg	
			OU5-CTA-1D-4118(49)-(40,60)	12/18/2001	3	mg/kg	
			OU5-CTA-1D-4118(49)-(40,80)	12/18/2001	18.4	mg/kg	
			OU5-CTA-1D-4118(49)-(60,100)	12/18/2001	3.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-4118(49)-(60,120)	12/18/2001	4.5	mg/kg	
			OU5-CTA-1D-4118(49)-(60,40)	12/18/2001	2.3 J	mg/kg	
			OU5-CTA-1D-4118(49)-(60,60)	12/18/2001	5.9	mg/kg	
			OU5-CTA-1D-4118(49)-(60,80)	12/18/2001	4.1	mg/kg	
			OU5-CTA-1D-4118(49)-(80,100)	12/18/2001	3	mg/kg	
			OU5-CTA-1D-4118(49)-(80,120)	12/18/2001	6.5	mg/kg	
			OU5-CTA-1D-4118(49)-(80,40)	12/18/2001	4.9	mg/kg	
			OU5-CTA-1D-4118(49)-(80,60)	12/18/2001	3.4	mg/kg	
			OU5-CTA-1D-4118(49)-(80,80)	12/18/2001	7.2	mg/kg	
			OU5-CTA-1D-4118(49)-DUP01	12/18/2001	3.5	mg/kg	OU5-CTA-1D-4118(49)-(120,80)
			OU5-CTA-1D-4118(49)-DUP02	12/18/2001	3.2	mg/kg	OU5-CTA-1D-4118(49)-(120,20)
CSA	5	4119 45th Street					
			OU5-CSA-5-4119(45)-(100,100)	1/11/2002	60.8	mg/kg	
			OU5-CSA-5-4119(45)-(100,120)	1/11/2002	22.2	mg/kg	
			OU5-CSA-5-4119(45)-(100,140)	1/11/2002	39.4	mg/kg	
			OU5-CSA-5-4119(45)-(100,160)	1/11/2002	38.9	mg/kg	
			OU5-CSA-5-4119(45)-(100,180)	1/11/2002	39.8	mg/kg	
			OU5-CSA-5-4119(45)-(20,20)	1/11/2002	4.5	mg/kg	
			OU5-CSA-5-4119(45)-(20,40)	1/11/2002	4.4	mg/kg	
			OU5-CSA-5-4119(45)-(20,60)	1/11/2002	5.3	mg/kg	
			OU5-CSA-5-4119(45)-(40,100)	1/11/2002	33.1	mg/kg	
			OU5-CSA-5-4119(45)-(40,20)	1/11/2002	4.7	mg/kg	
			OU5-CSA-5-4119(45)-(40,40)	1/11/2002	4.7	mg/kg	
			OU5-CSA-5-4119(45)-(40,60)	1/11/2002	3.3	mg/kg	
			OU5-CSA-5-4119(45)-(40,80)	1/11/2002	10	mg/kg	
			OU5-CSA-5-4119(45)-(60,100)	1/11/2002	35.6	mg/kg	
			OU5-CSA-5-4119(45)-(60,120)	1/11/2002	201	mg/kg	
			OU5-CSA-5-4119(45)-(60,140)	1/11/2002	5.6	mg/kg	
			OU5-CSA-5-4119(45)-(60,160)	1/11/2002	8.2	mg/kg	
			OU5-CSA-5-4119(45)-(60,180)	1/11/2002	38.4	mg/kg	
			OU5-CSA-5-4119(45)-(60,20)	1/11/2002	36.3	mg/kg	
			OU5-CSA-5-4119(45)-(60,200)	1/11/2002	6.9	mg/kg	
			OU5-CSA-5-4119(45)-(60,40)	1/11/2002	11.1	mg/kg	
			OU5-CSA-5-4119(45)-(60,80)	1/11/2002	24.9	mg/kg	
			OU5-CSA-5-4119(45)-(80,120)	1/11/2002	9.3	mg/kg	
			OU5-CSA-5-4119(45)-(80,140)	1/11/2002	5	mg/kg	
			OU5-CSA-5-4119(45)-(80,160)	1/11/2002	7.8	mg/kg	
			OU5-CSA-5-4119(45)-(80,180)	1/11/2002	7.1	mg/kg	
			OU5-CSA-5-4119(45)-(80,200)	1/11/2002	4.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-5-4119(45)-(80,40)	1/11/2002	111	mg/kg	
			OU5-CSA-5-4119(45)-(80,60)	1/11/2002	4.8	mg/kg	
			OU5-CSA-5-4119(45)-(80,80)	1/11/2002	4.7	mg/kg	
			OU5-CSA-5-4119(45)-DUP01	1/11/2002	5.4	mg/kg	OU5-CSA-5-4119(45)-(80,140)
			OU5-CSA-5-4119(45)-DUP02	1/11/2002	4.7	mg/kg	OU5-CSA-5-4119(45)-(40,20)
			OU5-CSA-5-4119(45)-SB1	1/7/2002	9.3	mg/kg	
CSA	6	4200 43rd Street					
			OU5-CSA-6-4200(43)-(100,120)	1/17/2002	12.6 K	mg/kg	
			OU5-CSA-6-4200(43)-(100,20)	1/17/2002	7.1 K	mg/kg	
			OU5-CSA-6-4200(43)-(100,40)	1/17/2002	5.2 K	mg/kg	
			OU5-CSA-6-4200(43)-(100,60)	1/17/2002	6.8 K	mg/kg	
			OU5-CSA-6-4200(43)-(100,80)	1/17/2002	4.6 K	mg/kg	
			OU5-CSA-6-4200(43)-(120,100)	1/17/2002	5 K	mg/kg	
			OU5-CSA-6-4200(43)-(120,120)	1/17/2002	4.1 K	mg/kg	
			OU5-CSA-6-4200(43)-(120,20)	1/17/2002	6.7 K	mg/kg	
			OU5-CSA-6-4200(43)-(120,40)	1/17/2002	7.1 K	mg/kg	
			OU5-CSA-6-4200(43)-(120,60)	1/17/2002	11 K	mg/kg	
			OU5-CSA-6-4200(43)-(120,80)	1/17/2002	5.8 K	mg/kg	
			OU5-CSA-6-4200(43)-(140,100)	1/17/2002	5.3 K	mg/kg	
			OU5-CSA-6-4200(43)-(140,20)	1/17/2002	5.4 K	mg/kg	
			OU5-CSA-6-4200(43)-(140,40)	1/17/2002	5 K	mg/kg	
			OU5-CSA-6-4200(43)-(140,60)	1/17/2002	10.8 K	mg/kg	
			OU5-CSA-6-4200(43)-(140,80)	1/17/2002	4.8 K	mg/kg	
			OU5-CSA-6-4200(43)-(160,100)	1/17/2002	4.9 K	mg/kg	
			OU5-CSA-6-4200(43)-(160,60)	1/17/2002	7 K	mg/kg	
			OU5-CSA-6-4200(43)-(160,80)	1/17/2002	7.4 K	mg/kg	
			OU5-CSA-6-4200(43)-(20,100)	1/17/2002	5.6 K	mg/kg	
			OU5-CSA-6-4200(43)-(20,60)	1/17/2002	7.6 K	mg/kg	
			OU5-CSA-6-4200(43)-(20,80)	1/17/2002	4.5 K	mg/kg	
			OU5-CSA-6-4200(43)-(40,100)	1/17/2002	4.2 K	mg/kg	
			OU5-CSA-6-4200(43)-(40,120)	1/17/2002	4.4 K	mg/kg	
			OU5-CSA-6-4200(43)-(40,140)	1/17/2002	3.8 K	mg/kg	
			OU5-CSA-6-4200(43)-(40,60)	1/17/2002	8.9 K	mg/kg	
			OU5-CSA-6-4200(43)-(40,80)	1/17/2002	4.2 K	mg/kg	
			OU5-CSA-6-4200(43)-(60,100)	1/17/2002	5.5 K	mg/kg	
			OU5-CSA-6-4200(43)-(60,120)	1/17/2002	9.1 K	mg/kg	
			OU5-CSA-6-4200(43)-(60,140)	1/17/2002	5 K	mg/kg	
			OU5-CSA-6-4200(43)-(60,40)	1/17/2002	8.2 K	mg/kg	
			OU5-CSA-6-4200(43)-(60,60)	1/17/2002	8.9 K	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4200(43)-(60,80)	1/17/2002	8.4 K	mg/kg	
			OU5-CSA-6-4200(43)-(80,100)	1/17/2002	9.7 K	mg/kg	
			OU5-CSA-6-4200(43)-(80,120)	1/17/2002	6.2 K	mg/kg	
			OU5-CSA-6-4200(43)-(80,40)	1/17/2002	7.6 K	mg/kg	
			OU5-CSA-6-4200(43)-(80,60)	1/17/2002	19.8 K	mg/kg	
			OU5-CSA-6-4200(43)-(80,80)	1/17/2002	7.7 K	mg/kg	
			OU5-CSA-6-4200(43)-DUP01	1/17/2002	12.5 K	mg/kg	OU5-CSA-6-4200(43)-(100,120)
			OU5-CSA-6-4200(43)-DUP02	1/17/2002	12.7 K	mg/kg	OU5-CSA-6-4200(43)-(100,60)
			OU5-CSA-6-4200(43)-SB1	1/14/2002	3.1 J	mg/kg	
CTA	1A	4201 Fordham Road					
			OU5-CTA-1A-4201FR-(100,100)	1/7/2002	5.5	mg/kg	
			OU5-CTA-1A-4201FR-(100,120)	1/7/2002	6.7	mg/kg	
			OU5-CTA-1A-4201FR-(100,140)	1/7/2002	12.1	mg/kg	
			OU5-CTA-1A-4201FR-(100,160)	1/7/2002	4.4	mg/kg	
			OU5-CTA-1A-4201FR-(100,40)	1/7/2002	14	mg/kg	
			OU5-CTA-1A-4201FR-(100,60)	1/7/2002	21.2	mg/kg	
			OU5-CTA-1A-4201FR-(100,80)	1/7/2002	9.4	mg/kg	
			OU5-CTA-1A-4201FR-(120,100)	1/7/2002	4.9	mg/kg	
			OU5-CTA-1A-4201FR-(120,120)	1/7/2002	13.3	mg/kg	
			OU5-CTA-1A-4201FR-(120,140)	1/7/2002	4.8	mg/kg	
			OU5-CTA-1A-4201FR-(120,160)	1/7/2002	3.3 J	mg/kg	
			OU5-CTA-1A-4201FR-(120,180)	1/7/2002	7	mg/kg	
			OU5-CTA-1A-4201FR-(120,60)	1/7/2002	22.6	mg/kg	
			OU5-CTA-1A-4201FR-(120,80)	1/7/2002	7.4	mg/kg	
			OU5-CTA-1A-4201FR-(140,60)	1/7/2002	3.1	mg/kg	
			OU5-CTA-1A-4201FR-(140,80)	1/7/2002	3.6	mg/kg	
			OU5-CTA-1A-4201FR-(20,40)	1/7/2002	8.1	mg/kg	
			OU5-CTA-1A-4201FR-(20,60)	1/7/2002	5.1	mg/kg	
			OU5-CTA-1A-4201FR-(20,80)	1/7/2002	3.8	mg/kg	
			OU5-CTA-1A-4201FR-(40,100)	1/7/2002	4.8	mg/kg	
			OU5-CTA-1A-4201FR-(40,20)	1/7/2002	4.3	mg/kg	
			OU5-CTA-1A-4201FR-(40,40)	1/7/2002	7.1	mg/kg	
			OU5-CTA-1A-4201FR-(40,60)	1/7/2002	6.8	mg/kg	
			OU5-CTA-1A-4201FR-(40,80)	1/7/2002	5.2	mg/kg	
			OU5-CTA-1A-4201FR-(60,100)	1/7/2002	9.9	mg/kg	
			OU5-CTA-1A-4201FR-(60,120)	1/7/2002	3.9	mg/kg	
			OU5-CTA-1A-4201FR-(60,80)	1/7/2002	2.4	mg/kg	
			OU5-CTA-1A-4201FR-(80,100)	1/7/2002	6.6	mg/kg	
			OU5-CTA-1A-4201FR-(80,120)	1/7/2002	12.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1A-4201FR-(80,140)	1/7/2002	4.6	mg/kg	
			OU5-CTA-1A-4201FR-(80,20)	1/7/2002	6.6	mg/kg	
			OU5-CTA-1A-4201FR-(80,40)	1/7/2002	6.4	mg/kg	
			OU5-CTA-1A-4201FR-(80,60)	1/7/2002	6.2	mg/kg	
			OU5-CTA-1A-4201FR-(80,80)	1/7/2002	5	mg/kg	
			OU5-CTA-1A-4201FR-DUP01	1/7/2002	19.6	mg/kg	OU5-CTA-1A-4201FR-(100,60)
			OU5-CTA-1A-4201FR-DUP02	1/7/2002	8.9	mg/kg	OU5-CTA-1A-4201FR-(60,100)
CSA	6	4212 Yuma Street					
			OU5-CSA-6-4212YS-(100,100)	1/24/2002	11.5	mg/kg	
			OU5-CSA-6-4212YS-(100,40)	1/24/2002	6	mg/kg	
			OU5-CSA-6-4212YS-(100,60)	1/24/2002	4.8	mg/kg	
			OU5-CSA-6-4212YS-(100,80)	1/24/2002	7	mg/kg	
			OU5-CSA-6-4212YS-(120,100)	1/24/2002	5.1	mg/kg	
			OU5-CSA-6-4212YS-(120,40)	1/24/2002	5.5	mg/kg	
			OU5-CSA-6-4212YS-(120,60)	1/24/2002	5	mg/kg	
			OU5-CSA-6-4212YS-(120,80)	1/24/2002	4.6	mg/kg	
			OU5-CSA-6-4212YS-(140,60)	1/24/2002	4.8	mg/kg	
			OU5-CSA-6-4212YS-(140,80)	1/24/2002	27.2	mg/kg	
			OU5-CSA-6-4212YS-(20,40)	1/24/2002	14.2	mg/kg	
			OU5-CSA-6-4212YS-(20,60)	1/24/2002	11.8	mg/kg	
			OU5-CSA-6-4212YS-(20,80)	1/24/2002	7.5	mg/kg	
			OU5-CSA-6-4212YS-(40,20)	1/24/2002	10.8	mg/kg	
			OU5-CSA-6-4212YS-(40,40)	1/24/2002	13.2	mg/kg	
			OU5-CSA-6-4212YS-(40,60)	1/24/2002	7.7	mg/kg	
			OU5-CSA-6-4212YS-(40,80)	1/24/2002	7.3	mg/kg	
			OU5-CSA-6-4212YS-(60,100)	1/24/2002	7.1	mg/kg	
			OU5-CSA-6-4212YS-(60,20)	1/24/2002	9.7	mg/kg	
			OU5-CSA-6-4212YS-(60,40)	1/24/2002	10.9	mg/kg	
			OU5-CSA-6-4212YS-(60,60)	1/24/2002	15.8	mg/kg	
			OU5-CSA-6-4212YS-(60,80)	1/24/2002	5.6	mg/kg	
			OU5-CSA-6-4212YS-(80,100)	1/24/2002	5	mg/kg	
			OU5-CSA-6-4212YS-(80,40)	1/24/2002	7.4	mg/kg	
			OU5-CSA-6-4212YS-(80,60)	1/24/2002	5.9	mg/kg	
			OU5-CSA-6-4212YS-(80,80)	1/24/2002	5.7	mg/kg	
			OU5-CSA-6-4212YS-DUP01	1/24/2002	7.4	mg/kg	OU5-CSA-6-4212YS-(20,80)
			OU5-CSA-6-4212YS-SB1	1/21/2002	1.8 J	mg/kg	
CSA	6	4215 Yuma Street					
			OU5-CSA-6-4215YS-(100,100)	2/27/2002	6.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4215YS-(100,120)	2/27/2002	5.8	mg/kg	
			OU5-CSA-6-4215YS-(100,40)	2/27/2002	3.9	mg/kg	
			OU5-CSA-6-4215YS-(100,60)	2/27/2002	12.8	mg/kg	
			OU5-CSA-6-4215YS-(120,100)	2/27/2002	7.1	mg/kg	
			OU5-CSA-6-4215YS-(120,120)	2/27/2002	4.4	mg/kg	
			OU5-CSA-6-4215YS-(120,40)	2/27/2002	6	mg/kg	
			OU5-CSA-6-4215YS-(120,80)	2/27/2002	5.8	mg/kg	
			OU5-CSA-6-4215YS-(140,120)	2/27/2002	3.1	mg/kg	
			OU5-CSA-6-4215YS-(140,40)	2/27/2002	5.4	mg/kg	
			OU5-CSA-6-4215YS-(140,60)	2/27/2002	5.2	mg/kg	
			OU5-CSA-6-4215YS-(140,80)	2/27/2002	7.6	mg/kg	
			OU5-CSA-6-4215YS-(160,100)	2/27/2002	5.4	mg/kg	
			OU5-CSA-6-4215YS-(160,60)	2/27/2002	7.2	mg/kg	
			OU5-CSA-6-4215YS-(160,80)	2/27/2002	3.9	mg/kg	
			OU5-CSA-6-4215YS-(20,40)	2/27/2002	6.3	mg/kg	
			OU5-CSA-6-4215YS-(20,60)	2/27/2002	5.6	mg/kg	
			OU5-CSA-6-4215YS-(20,80)	2/27/2002	8	mg/kg	
			OU5-CSA-6-4215YS-(40,20)	2/27/2002	5.1	mg/kg	
			OU5-CSA-6-4215YS-(40,40)	2/27/2002	8.2	mg/kg	
			OU5-CSA-6-4215YS-(40,60)	2/27/2002	8.1	mg/kg	
			OU5-CSA-6-4215YS-(40,80)	2/27/2002	5.6	mg/kg	
			OU5-CSA-6-4215YS-(60,100)	2/27/2002	5.9	mg/kg	
			OU5-CSA-6-4215YS-(60,20)	2/27/2002	8.5	mg/kg	
			OU5-CSA-6-4215YS-(60,40)	2/27/2002	46	mg/kg	
			OU5-CSA-6-4215YS-(60,60)	2/27/2002	60.1	mg/kg	
			OU5-CSA-6-4215YS-(60,80)	2/27/2002	53	mg/kg	
			OU5-CSA-6-4215YS-(80,100)	2/27/2002	10.8	mg/kg	
			OU5-CSA-6-4215YS-(80,20)	2/27/2002	8	mg/kg	
			OU5-CSA-6-4215YS-(80,40)	2/27/2002	5.4	mg/kg	
			OU5-CSA-6-4215YS-(80,60)	2/27/2002	51.6	mg/kg	
			OU5-CSA-6-4215YS-(80,80)	2/27/2002	4.1	mg/kg	
			OU5-CSA-6-4215YS-DUP01	2/27/2002	8.5	mg/kg	OU5-CSA-6-4215YS-(120,100)
			OU5-CSA-6-4215YS-DUP02	2/27/2002	52	mg/kg	OU5-CSA-6-4215YS-(60,80)
			OU5-CSA-6-4215YS-SB1	2/28/2002	12.8	mg/kg	
CSA	7	4216 Van Ness Street					
			OU5-CSA-7-4216VNS-(100,100)	1/29/2002	7.8	mg/kg	
			OU5-CSA-7-4216VNS-(100,120)	1/29/2002	9.7	mg/kg	
			OU5-CSA-7-4216VNS-(100,40)	1/29/2002	5.2	mg/kg	
			OU5-CSA-7-4216VNS-(100,60)	1/29/2002	5.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-7-4216VNS-(120,100)	1/29/2002	7.2	mg/kg	
			OU5-CSA-7-4216VNS-(120,120)	1/29/2002	13.2	mg/kg	
			OU5-CSA-7-4216VNS-(120,40)	1/29/2002	10.4	mg/kg	
			OU5-CSA-7-4216VNS-(120,60)	1/29/2002	6.5	mg/kg	
			OU5-CSA-7-4216VNS-(120,80)	1/29/2002	9.1	mg/kg	
			OU5-CSA-7-4216VNS-(140,100)	1/29/2002	9.2	mg/kg	
			OU5-CSA-7-4216VNS-(140,120)	1/29/2002	10.5	mg/kg	
			OU5-CSA-7-4216VNS-(140,140)	1/29/2002	5.6	mg/kg	
			OU5-CSA-7-4216VNS-(140,60)	1/29/2002	10.3	mg/kg	
			OU5-CSA-7-4216VNS-(140,80)	1/29/2002	9.2	mg/kg	
			OU5-CSA-7-4216VNS-(160,100)	1/29/2002	6.2	mg/kg	
			OU5-CSA-7-4216VNS-(160,120)	1/29/2002	4.5	mg/kg	
			OU5-CSA-7-4216VNS-(160,60)	1/29/2002	13.4	mg/kg	
			OU5-CSA-7-4216VNS-(160,80)	1/29/2002	6	mg/kg	
			OU5-CSA-7-4216VNS-(180,100)	1/29/2002	5.2	mg/kg	
			OU5-CSA-7-4216VNS-(180,120)	1/29/2002	6.5	mg/kg	
			OU5-CSA-7-4216VNS-(180,60)	1/29/2002	28.9	mg/kg	
			OU5-CSA-7-4216VNS-(180,80)	1/29/2002	8	mg/kg	
			OU5-CSA-7-4216VNS-(20,80)	1/29/2002	1.9 J	mg/kg	
			OU5-CSA-7-4216VNS-(200,80)	1/29/2002	5.3	mg/kg	
			OU5-CSA-7-4216VNS-(40,20)	1/29/2002	1.5 J	mg/kg	
			OU5-CSA-7-4216VNS-(40,40)	1/29/2002	4.1	mg/kg	
			OU5-CSA-7-4216VNS-(40,60)	1/29/2002	7	mg/kg	
			OU5-CSA-7-4216VNS-(40,80)	1/29/2002	6.4	mg/kg	
			OU5-CSA-7-4216VNS-(60,100)	1/29/2002	4.7	mg/kg	
			OU5-CSA-7-4216VNS-(60,20)	1/29/2002	6.3	mg/kg	
			OU5-CSA-7-4216VNS-(60,40)	1/29/2002	6.5	mg/kg	
			OU5-CSA-7-4216VNS-(60,60)	1/29/2002	4.7	mg/kg	
			OU5-CSA-7-4216VNS-(60,80)	1/29/2002	7.3	mg/kg	
			OU5-CSA-7-4216VNS-(80,100)	1/29/2002	5.8	mg/kg	
			OU5-CSA-7-4216VNS-(80,20)	1/29/2002	6.5	mg/kg	
			OU5-CSA-7-4216VNS-(80,40)	1/29/2002	3.8	mg/kg	
			OU5-CSA-7-4216VNS-(80,60)	1/29/2002	7.1	mg/kg	
			OU5-CSA-7-4216VNS-(80,80)	1/29/2002	5.5	mg/kg	
			OU5-CSA-7-4216VNS-DUP01	1/29/2002	5.5	mg/kg	OU5-CSA-7-4216VNS-(60,60)
			OU5-CSA-7-4216VNS-DUP02	1/29/2002	7.9	mg/kg	OU5-CSA-7-4216VNS-(140,80)
			OU5-CSA-7-4216VNS-SB1	2/4/2002	7.9	mg/kg	
CTA	**1A**	**4219 50th Street**					
			OU5-CTA-1A-4219(50)-(100,100)	9/26/2001	110	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1A-4219(50)-(100,120)	9/26/2001	6.6	mg/kg	
			OU5-CTA-1A-4219(50)-(100,20)	9/26/2001	2.7	mg/kg	
			OU5-CTA-1A-4219(50)-(100,40)	9/26/2001	5.2	mg/kg	
			OU5-CTA-1A-4219(50)-(100,60)	9/26/2001	5.3	mg/kg	
			OU5-CTA-1A-4219(50)-(100,80)	9/26/2001	28.9	mg/kg	
			OU5-CTA-1A-4219(50)-(120,100)	9/26/2001	3.4	mg/kg	
			OU5-CTA-1A-4219(50)-(120,20)	9/26/2001	7.4	mg/kg	
			OU5-CTA-1A-4219(50)-(120,40)	9/26/2001	3.9	mg/kg	
			OU5-CTA-1A-4219(50)-(120,60)	9/26/2001	3.5	mg/kg	
			OU5-CTA-1A-4219(50)-(120,80)	9/26/2001	5.2	mg/kg	
			OU5-CTA-1A-4219(50)-(140,100)	9/26/2001	3.8	mg/kg	
			OU5-CTA-1A-4219(50)-(140,60)	9/26/2001	4.7	mg/kg	
			OU5-CTA-1A-4219(50)-(140,80)	9/26/2001	5.2	mg/kg	
			OU5-CTA-1A-4219(50)-(160,80)	9/26/2001	11.2	mg/kg	
			OU5-CTA-1A-4219(50)-(20,40)	9/26/2001	22.1	mg/kg	
			OU5-CTA-1A-4219(50)-(20,60)	9/26/2001	107	mg/kg	
			OU5-CTA-1A-4219(50)-(20,80)	9/26/2001	80.3	mg/kg	
			OU5-CTA-1A-4219(50)-(40,100)	9/26/2001	53.3	mg/kg	
			OU5-CTA-1A-4219(50)-(40,40)	9/26/2001	59.9	mg/kg	
			OU5-CTA-1A-4219(50)-(40,60)	9/26/2001	91.4	mg/kg	
			OU5-CTA-1A-4219(50)-(40,80)	9/26/2001	162	mg/kg	
			OU5-CTA-1A-4219(50)-(60,100)	9/26/2001	35.2	mg/kg	
			OU5-CTA-1A-4219(50)-(60,120)	9/26/2001	170	mg/kg	
			OU5-CTA-1A-4219(50)-(60,140)	9/26/2001	82.3	mg/kg	
			OU5-CTA-1A-4219(50)-(60,40)	9/26/2001	101	mg/kg	
			OU5-CTA-1A-4219(50)-(60,60)	9/26/2001	50.5	mg/kg	
			OU5-CTA-1A-4219(50)-(60,80)	9/26/2001	18.9	mg/kg	
			OU5-CTA-1A-4219(50)-(80,100)	9/26/2001	30	mg/kg	
			OU5-CTA-1A-4219(50)-(80,120)	9/26/2001	19.3	mg/kg	
			OU5-CTA-1A-4219(50)-(80,140)	9/26/2001	5.9	mg/kg	
			OU5-CTA-1A-4219(50)-(80,40)	9/26/2001	79.2	mg/kg	
			OU5-CTA-1A-4219(50)-(80,80)	9/26/2001	10.3	mg/kg	
			OU5-CTA-1A-4219(50)-DUP01	9/26/2001	4.9	mg/kg	OU5-CTA-1A-4219(50)-(80,120)
			OU5-CTA-1A-4219(50)-DUP02	9/26/2001	36.6	mg/kg	OU5-CTA-1A-4219(50)-(60,100)
CSA	*6*	*4221 43rd Street*					
			OU5-CSA-6-4221(43)-(0,40)	11/7/2002	10 \2	mg/kg	
			OU5-CSA-6-4221(43)-(0,60)	11/7/2002	6.4 \2	mg/kg	
			OU5-CSA-6-4221(43)-(100,100)	11/7/2002	17.8 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(100,120)	11/7/2002	9.8 K \2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4221(43)-(100,140)	11/7/2002	8.4 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(20,100)	11/7/2002	16.6 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(20,20)	11/7/2002	5.8 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(20,40)	11/7/2002	6 \2	mg/kg	
			OU5-CSA-6-4221(43)-(20,60)	11/7/2002	19.6 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(20,80)	11/7/2002	7 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(40,100)	11/7/2002	5.9 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(40,120)	11/7/2002	31.5 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(40,140)	11/7/2002	6.5 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(40,160)	11/7/2002	7.3 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(40,20)	11/7/2002	6.7 \2	mg/kg	
			OU5-CSA-6-4221(43)-(40,40)	11/7/2002	10.3 \2	mg/kg	
			OU5-CSA-6-4221(43)-(40,60)	11/7/2002	10.7 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(40,80)	11/7/2002	7.1 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(60,100)	11/7/2002	8.7 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(60,140)	11/7/2002	15.3 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(60,160)	11/7/2002	6.5 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(60,20)	11/7/2002	6.6 \2	mg/kg	
			OU5-CSA-6-4221(43)-(60,40)	11/7/2002	7.8 \2	mg/kg	
			OU5-CSA-6-4221(43)-(60,60)	11/7/2002	11.9 \2	mg/kg	
			OU5-CSA-6-4221(43)-(80,120)	11/7/2002	9.6 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(80,140)	11/7/2002	7.7 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(80,40)	11/7/2002	10 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(80,60)	11/7/2002	9.2 K \2	mg/kg	
			OU5-CSA-6-4221(43)-(80,80)	11/7/2002	8.2 K \2	mg/kg	
			OU5-CSA-6-4221(43)-DUP01	11/7/2002	18.1 \2	mg/kg	OU5-CSA-6-4221(43)-(20,60)
CTA	1A	4226 50th Street					
			OU5-CTA-1A-4226(50)-(100,100)	11/19/2001	25.3	mg/kg	
			OU5-CTA-1A-4226(50)-(100,120)	11/19/2001	2.8 J	mg/kg	
			OU5-CTA-1A-4226(50)-(100,20)	11/19/2001	2.5	mg/kg	
			OU5-CTA-1A-4226(50)-(100,40)	11/19/2001	4.4	mg/kg	
			OU5-CTA-1A-4226(50)-(100,60)	11/19/2001	3.2 J	mg/kg	
			OU5-CTA-1A-4226(50)-(100,80)	11/19/2001	4.1	mg/kg	
			OU5-CTA-1A-4226(50)-(120,100)	11/19/2001	19.4	mg/kg	
			OU5-CTA-1A-4226(50)-(120,120)	11/19/2001	1.9 J	mg/kg	
			OU5-CTA-1A-4226(50)-(120,20)	11/19/2001	3	mg/kg	
			OU5-CTA-1A-4226(50)-(120,40)	11/19/2001	5.5	mg/kg	
			OU5-CTA-1A-4226(50)-(120,60)	11/19/2001	4.1	mg/kg	
			OU5-CTA-1A-4226(50)-(120,80)	11/19/2001	7.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1A-4226(50)-(140,100)	11/19/2001	3.2	mg/kg	
			OU5-CTA-1A-4226(50)-(140,120)	11/19/2001	2.1 J	mg/kg	
			OU5-CTA-1A-4226(50)-(140,40)	11/19/2001	1.9 J	mg/kg	
			OU5-CTA-1A-4226(50)-(140,60)	11/19/2001	2.1 J	mg/kg	
			OU5-CTA-1A-4226(50)-(140,80)	11/19/2001	4.5	mg/kg	
			OU5-CTA-1A-4226(50)-(160,100)	11/19/2001	4.9	mg/kg	
			OU5-CTA-1A-4226(50)-(160,80)	11/19/2001	3.2 J	mg/kg	
			OU5-CTA-1A-4226(50)-(20,100)	11/19/2001	3.1	mg/kg	
			OU5-CTA-1A-4226(50)-(20,80)	11/19/2001	3.5	mg/kg	
			OU5-CTA-1A-4226(50)-(40,100)	11/19/2001	3.6	mg/kg	
			OU5-CTA-1A-4226(50)-(40,120)	11/19/2001	3.2	mg/kg	
			OU5-CTA-1A-4226(50)-(40,140)	11/19/2001	2.3	mg/kg	
			OU5-CTA-1A-4226(50)-(40,60)	11/19/2001	4.3	mg/kg	
			OU5-CTA-1A-4226(50)-(40,80)	11/19/2001	4.2	mg/kg	
			OU5-CTA-1A-4226(50)-(60,100)	11/19/2001	3.6	mg/kg	
			OU5-CTA-1A-4226(50)-(60,120)	11/19/2001	2.7	mg/kg	
			OU5-CTA-1A-4226(50)-(60,140)	11/19/2001	2.7	mg/kg	
			OU5-CTA-1A-4226(50)-(60,60)	11/19/2001	2 J	mg/kg	
			OU5-CTA-1A-4226(50)-(60,80)	11/19/2001	3.9	mg/kg	
			OU5-CTA-1A-4226(50)-(80,100)	11/19/2001	5	mg/kg	
			OU5-CTA-1A-4226(50)-(80,120)	11/19/2001	3.4	mg/kg	
			OU5-CTA-1A-4226(50)-(80,40)	11/19/2001	1.8 J	mg/kg	
			OU5-CTA-1A-4226(50)-(80,60)	11/19/2001	5.7	mg/kg	
			OU5-CTA-1A-4226(50)-DUP01	11/19/2001	3.8	mg/kg	OU5-CTA-1A-4226(50)-(40,80)
			OU5-CTA-1A-4226(50)-DUP02	11/19/2001	3.2	mg/kg	OU5-CTA-1A-4226(50)-(140,100)
CTA	1A	4227 Fordham Road					
			OU5-CTA-1A-4227FR-(0,20)	12/28/2001	3.2	mg/kg	
			OU5-CTA-1A-4227FR-(0,40)	12/28/2001	4.9	mg/kg	
			OU5-CTA-1A-4227FR-(100,40)	12/28/2001	5.1	mg/kg	
			OU5-CTA-1A-4227FR-(100,60)	12/28/2001	22.4	mg/kg	
			OU5-CTA-1A-4227FR-(100,80)	12/28/2001	4	mg/kg	
			OU5-CTA-1A-4227FR-(120,60)	12/28/2001	4.9	mg/kg	
			OU5-CTA-1A-4227FR-(120,80)	12/28/2001	3.7	mg/kg	
			OU5-CTA-1A-4227FR-(20,100)	12/28/2001	4	mg/kg	
			OU5-CTA-1A-4227FR-(20,20)	12/28/2001	4.8	mg/kg	
			OU5-CTA-1A-4227FR-(20,40)	12/28/2001	5.5	mg/kg	
			OU5-CTA-1A-4227FR-(20,60)	12/28/2001	4.8	mg/kg	
			OU5-CTA-1A-4227FR-(20,80)	12/28/2001	3.3	mg/kg	
			OU5-CTA-1A-4227FR-(40,100)	12/28/2001	4.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CTA-1A-4227FR-(40,20)	12/28/2001	8.8	mg/kg	
			OU5-CTA-1A-4227FR-(40,40)	12/28/2001	6.2	mg/kg	
			OU5-CTA-1A-4227FR-(40,60)	12/28/2001	3.4	mg/kg	
			OU5-CTA-1A-4227FR-(40,80)	12/28/2001	3.8	mg/kg	
			OU5-CTA-1A-4227FR-(60,100)	12/28/2001	6	mg/kg	
			OU5-CTA-1A-4227FR-(60,20)	12/28/2001	4.5	mg/kg	
			OU5-CTA-1A-4227FR-(60,40)	12/28/2001	5	mg/kg	
			OU5-CTA-1A-4227FR-(60,80)	12/28/2001	6.2	mg/kg	
			OU5-CTA-1A-4227FR-(80,40)	12/28/2001	11.2	mg/kg	
			OU5-CTA-1A-4227FR-(80,60)	12/28/2001	5	mg/kg	
			OU5-CTA-1A-4227FR-(80,80)	12/28/2001	4	mg/kg	
			OU5-CTA-1A-4227FR-DUP01	12/28/2001	2.8	mg/kg	OU5-CTA-1A-4227FR-(20,100)
CTA	1A	4230 Fordham Road					
			OU5-CTA-1A-4230FR-(100,100)	10/15/2001	46.5	mg/kg	
			OU5-CTA-1A-4230FR-(100,120)	10/15/2001	3.5	mg/kg	
			OU5-CTA-1A-4230FR-(100,40)	10/15/2001	4	mg/kg	
			OU5-CTA-1A-4230FR-(100,60)	10/15/2001	4.5	mg/kg	
			OU5-CTA-1A-4230FR-(100,80)	10/15/2001	3.5	mg/kg	
			OU5-CTA-1A-4230FR-(120,100)	10/15/2001	4.2	mg/kg	
			OU5-CTA-1A-4230FR-(120,80)	10/15/2001	3 J	mg/kg	
			OU5-CTA-1A-4230FR-(20,100)	10/15/2001	4	mg/kg	
			OU5-CTA-1A-4230FR-(20,60)	10/15/2001	6.1	mg/kg	
			OU5-CTA-1A-4230FR-(20,80)	10/15/2001	6.9	mg/kg	
			OU5-CTA-1A-4230FR-(40,100)	10/15/2001	5.6	mg/kg	
			OU5-CTA-1A-4230FR-(40,120)	10/15/2001	2.4	mg/kg	
			OU5-CTA-1A-4230FR-(40,60)	10/15/2001	9.3	mg/kg	
			OU5-CTA-1A-4230FR-(40,80)	10/15/2001	22.6	mg/kg	
			OU5-CTA-1A-4230FR-(60,100)	10/15/2001	7.6	mg/kg	
			OU5-CTA-1A-4230FR-(60,120)	10/15/2001	6.3	mg/kg	
			OU5-CTA-1A-4230FR-(60,140)	10/15/2001	4.2	mg/kg	
			OU5-CTA-1A-4230FR-(60,40)	10/15/2001	5.6	mg/kg	
			OU5-CTA-1A-4230FR-(60,60)	10/15/2001	4.6	mg/kg	
			OU5-CTA-1A-4230FR-(60,80)	10/15/2001	225	mg/kg	
			OU5-CTA-1A-4230FR-(80,100)	10/15/2001	5.3	mg/kg	
			OU5-CTA-1A-4230FR-(80,120)	10/15/2001	5.7	mg/kg	
			OU5-CTA-1A-4230FR-(80,20)	10/15/2001	5.3	mg/kg	
			OU5-CTA-1A-4230FR-(80,40)	10/15/2001	13.3	mg/kg	
			OU5-CTA-1A-4230FR-(80,60)	10/15/2001	22.8	mg/kg	
			OU5-CTA-1A-4230FR-(80,80)	10/15/2001	37.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1A-4230FR-DUP01	10/15/2001	4.2	mg/kg	OU5-CTA-1A-4230FR-(20,100)
CTA	1A	4248 50th Street					
			OU5-CTA-1A-4248(50)-(0,60)	11/15/2001	2.9	mg/kg	
			OU5-CTA-1A-4248(50)-(100,100)	11/15/2001	15.5	mg/kg	
			OU5-CTA-1A-4248(50)-(100,120)	11/15/2001	1.6 J	mg/kg	
			OU5-CTA-1A-4248(50)-(100,40)	11/15/2001	2.5	mg/kg	
			OU5-CTA-1A-4248(50)-(100,60)	11/15/2001	9.8	mg/kg	
			OU5-CTA-1A-4248(50)-(100,80)	11/15/2001	24.1	mg/kg	
			OU5-CTA-1A-4248(50)-(120,100)	11/15/2001	3.7	mg/kg	
			OU5-CTA-1A-4248(50)-(120,120)	11/15/2001	4	mg/kg	
			OU5-CTA-1A-4248(50)-(120,60)	11/15/2001	10.5	mg/kg	
			OU5-CTA-1A-4248(50)-(120,80)	11/15/2001	3.8	mg/kg	
			OU5-CTA-1A-4248(50)-(140,80)	11/15/2001	2.6	mg/kg	
			OU5-CTA-1A-4248(50)-(20,100)	11/15/2001	2.4	mg/kg	
			OU5-CTA-1A-4248(50)-(20,120)	11/15/2001	2.5	mg/kg	
			OU5-CTA-1A-4248(50)-(20,40)	11/15/2001	2.7	mg/kg	
			OU5-CTA-1A-4248(50)-(20,60)	11/15/2001	3	mg/kg	
			OU5-CTA-1A-4248(50)-(20,80)	11/15/2001	3.1	mg/kg	
			OU5-CTA-1A-4248(50)-(40,100)	11/15/2001	2.9	mg/kg	
			OU5-CTA-1A-4248(50)-(40,120)	11/15/2001	2.6	mg/kg	
			OU5-CTA-1A-4248(50)-(40,20)	11/15/2001	2.4	mg/kg	
			OU5-CTA-1A-4248(50)-(40,40)	11/15/2001	2.4	mg/kg	
			OU5-CTA-1A-4248(50)-(40,60)	11/15/2001	2.5	mg/kg	
			OU5-CTA-1A-4248(50)-(40,80)	11/15/2001	2.2	mg/kg	
			OU5-CTA-1A-4248(50)-(60,100)	11/15/2001	3.1	mg/kg	
			OU5-CTA-1A-4248(50)-(60,120)	11/15/2001	3	mg/kg	
			OU5-CTA-1A-4248(50)-(60,20)	11/15/2001	5.3	mg/kg	
			OU5-CTA-1A-4248(50)-(60,40)	11/15/2001	2.6	mg/kg	
			OU5-CTA-1A-4248(50)-(60,60)	11/15/2001	1.8 J	mg/kg	
			OU5-CTA-1A-4248(50)-(60,80)	11/15/2001	3.1	mg/kg	
			OU5-CTA-1A-4248(50)-(80,100)	11/15/2001	2.3 J	mg/kg	
			OU5-CTA-1A-4248(50)-(80,120)	11/15/2001	4.4	mg/kg	
			OU5-CTA-1A-4248(50)-(80,20)	11/15/2001	2.8	mg/kg	
			OU5-CTA-1A-4248(50)-(80,40)	11/15/2001	2.3	mg/kg	
			OU5-CTA-1A-4248(50)-DUP01	11/15/2001	2.7	mg/kg	OU5-CTA-1A-4248(50)-(20,60)
			OU5-CTA-1A-4248(50)-DUP02	11/15/2001	2.5	mg/kg	OU5-CTA-1A-4248(50)-(80,20)
CSA	6	4256 Warren Street					
			OU5-CSA-6-4256WS-(100,100)	11/16/2001	4.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match
			OU5-CSA-6-4256WS-(100,120)	11/16/2001	5.4		mg/kg	
			OU5-CSA-6-4256WS-(100,140)	11/16/2001	3.4		mg/kg	
			OU5-CSA-6-4256WS-(100,160)	11/16/2001	5.5		mg/kg	
			OU5-CSA-6-4256WS-(100,20)	11/16/2001	9.8		mg/kg	
			OU5-CSA-6-4256WS-(100,40)	11/16/2001	39.2		mg/kg	
			OU5-CSA-6-4256WS-(100,60)	11/16/2001	15.7		mg/kg	
			OU5-CSA-6-4256WS-(100,80)	11/16/2001	5.1		mg/kg	
			OU5-CSA-6-4256WS-(120,100)	11/16/2001	19.4		mg/kg	
			OU5-CSA-6-4256WS-(120,120)	11/16/2001	56.6		mg/kg	
			OU5-CSA-6-4256WS-(120,140)	11/16/2001	6.7		mg/kg	
			OU5-CSA-6-4256WS-(120,160)	11/16/2001	2.7		mg/kg	
			OU5-CSA-6-4256WS-(120,40)	11/16/2001	71.7		mg/kg	
			OU5-CSA-6-4256WS-(120,60)	11/16/2001	103		mg/kg	
			OU5-CSA-6-4256WS-(140,100)	11/16/2001	18.4		mg/kg	
			OU5-CSA-6-4256WS-(140,40)	11/16/2001	7.4		mg/kg	
			OU5-CSA-6-4256WS-(140,60)	11/16/2001	28.1		mg/kg	
			OU5-CSA-6-4256WS-(140,80)	11/16/2001	38.8		mg/kg	
			OU5-CSA-6-4256WS-(160,60)	11/16/2001	10.2		mg/kg	
			OU5-CSA-6-4256WS-(20,100)	11/16/2001	5.2		mg/kg	
			OU5-CSA-6-4256WS-(20,120)	11/16/2001	2.3		mg/kg	
			OU5-CSA-6-4256WS-(40,100)	11/16/2001	5.8		mg/kg	
			OU5-CSA-6-4256WS-(40,120)	11/16/2001	5.1		mg/kg	
			OU5-CSA-6-4256WS-(40,140)	11/16/2001	4		mg/kg	
			OU5-CSA-6-4256WS-(40,80)	11/16/2001	8.4		mg/kg	
			OU5-CSA-6-4256WS-(60,100)	11/16/2001	4.5		mg/kg	
			OU5-CSA-6-4256WS-(60,120)	11/16/2001	6.3		mg/kg	
			OU5-CSA-6-4256WS-(60,140)	11/16/2001	2.8		mg/kg	
			OU5-CSA-6-4256WS-(60,60)	11/16/2001	34.7		mg/kg	
			OU5-CSA-6-4256WS-(60,80)	11/16/2001	5.8		mg/kg	
			OU5-CSA-6-4256WS-(80,100)	11/16/2001	5.6		mg/kg	
			OU5-CSA-6-4256WS-(80,120)	11/16/2001	8.2		mg/kg	
			OU5-CSA-6-4256WS-(80,140)	11/16/2001	2.6		mg/kg	
			OU5-CSA-6-4256WS-(80,40)	11/16/2001	41.9		mg/kg	
			OU5-CSA-6-4256WS-(80,60)	11/16/2001	61.2		mg/kg	
			OU5-CSA-6-4256WS-(80,80)	11/16/2001	11.9		mg/kg	
			OU5-CSA-6-4256WS-DUP01	11/16/2001	41.7		mg/kg	OU5-CSA-6-4256WS-(80,40)
			OU5-CSA-6-4256WS-DUP02	11/16/2001	26.9		mg/kg	OU5-CSA-6-4256WS-(140,60)
CSA	6	4301 Warren Street						
			OU5-CSA-6-4301WS-(100,100)	12/18/2002	32.6	\2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match
			OU5-CSA-6-4301WS-(100,120)	12/18/2002	111	\2	mg/kg	
			OU5-CSA-6-4301WS-(100,20)	12/18/2002	4.8	\2	mg/kg	
			OU5-CSA-6-4301WS-(100,40)	12/18/2002	8.9	\2	mg/kg	
			OU5-CSA-6-4301WS-(100,60)	12/18/2002	10.7	\2	mg/kg	
			OU5-CSA-6-4301WS-(100,80)	12/18/2002	19.8	\2	mg/kg	
			OU5-CSA-6-4301WS-(120,100)	12/18/2002	25.2	\2	mg/kg	
			OU5-CSA-6-4301WS-(120,120)	12/18/2002	21.2	\2	mg/kg	
			OU5-CSA-6-4301WS-(120,40)	12/18/2002	6.8	\2	mg/kg	
			OU5-CSA-6-4301WS-(120,60)	12/18/2002	5.5	\2	mg/kg	
			OU5-CSA-6-4301WS-(120,80)	12/18/2002	10.1	\2	mg/kg	
			OU5-CSA-6-4301WS-(140,60)	12/18/2002	10	\2	mg/kg	
			OU5-CSA-6-4301WS-(140,80)	12/18/2002	11.8	\2	mg/kg	
			OU5-CSA-6-4301WS-(20,100)	12/18/2002	4.9	\2	mg/kg	
			OU5-CSA-6-4301WS-(20,20)	12/18/2002	5	\2	mg/kg	
			OU5-CSA-6-4301WS-(20,40)	12/18/2002	9.2	\2	mg/kg	
			OU5-CSA-6-4301WS-(20,60)	12/18/2002	5.8	\2	mg/kg	
			OU5-CSA-6-4301WS-(20,80)	12/18/2002	6.8	\2	mg/kg	
			OU5-CSA-6-4301WS-(40,0)	12/18/2002	5.1	\2	mg/kg	
			OU5-CSA-6-4301WS-(40,100)	12/18/2002	4.6	\2	mg/kg	
			OU5-CSA-6-4301WS-(40,20)	12/18/2002	8.2	\2	mg/kg	
			OU5-CSA-6-4301WS-(40,40)	12/18/2002	12.3	\2	mg/kg	
			OU5-CSA-6-4301WS-(40,60)	12/18/2002	4.2	\2	mg/kg	
			OU5-CSA-6-4301WS-(40,80)	12/18/2002	6.8	\2	mg/kg	
			OU5-CSA-6-4301WS-(60,100)	12/18/2002	9	\2	mg/kg	
			OU5-CSA-6-4301WS-(60,20)	12/18/2002	5.9	\2	mg/kg	
			OU5-CSA-6-4301WS-(60,40)	12/18/2002	5.7	\2	mg/kg	
			OU5-CSA-6-4301WS-(60,60)	12/18/2002	4.3	\2	mg/kg	
			OU5-CSA-6-4301WS-(60,80)	12/18/2002	5.4	\2	mg/kg	
			OU5-CSA-6-4301WS-(80,100)	12/18/2002	20.9	\2	mg/kg	
			OU5-CSA-6-4301WS-(80,120)	12/18/2002	36.4	\2	mg/kg	
			OU5-CSA-6-4301WS-(80,20)	12/18/2002	6.5	\2	mg/kg	
			OU5-CSA-6-4301WS-(80,40)	12/18/2002	5.4	\2	mg/kg	
			OU5-CSA-6-4301WS-(80,60)	12/18/2002	11.7	\2	mg/kg	
			OU5-CSA-6-4301WS-(80,80)	12/18/2002	45.2	\2	mg/kg	
			OU5-CSA-6-4301WS-DUP01	12/18/2002	13.8	\2	mg/kg	OU5-CSA-6-4301WS-(40,40)
			OU5-CSA-6-4301WS-DUP02	12/18/2002	5.2	\2	mg/kg	OU5-CSA-6-4301WS-(80,40)
CSA	6	4316 Windom Place						
			OU5-CSA-6-4316WinP-(100,100)	6/3/2003	4.8		mg/kg	
			OU5-CSA-6-4316WinP-(100,40)	6/3/2003	27.6		mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4316WinP-(100,60)	6/3/2003	15.7	mg/kg	
			OU5-CSA-6-4316WinP-(100,80)	6/3/2003	13.6	mg/kg	
			OU5-CSA-6-4316WinP-(120,100)	6/3/2003	6.5	mg/kg	
			OU5-CSA-6-4316WinP-(120,40)	6/3/2003	15.3	mg/kg	
			OU5-CSA-6-4316WinP-(120,60)	6/3/2003	4.4	mg/kg	
			OU5-CSA-6-4316WinP-(120,80)	6/3/2003	4.5	mg/kg	
			OU5-CSA-6-4316WinP-(140,40)	6/3/2003	13.2	mg/kg	
			OU5-CSA-6-4316WinP-(140,60)	6/3/2003	5.9	mg/kg	
			OU5-CSA-6-4316WinP-(20,40)	6/3/2003	3.4	mg/kg	
			OU5-CSA-6-4316WinP-(20,60)	6/3/2003	4.5	mg/kg	
			OU5-CSA-6-4316WinP-(20,80)	6/3/2003	29.3	mg/kg	
			OU5-CSA-6-4316WinP-(40,20)	6/3/2003	4.5	mg/kg	
			OU5-CSA-6-4316WinP-(40,40)	6/3/2003	3.7	mg/kg	
			OU5-CSA-6-4316WinP-(40,60)	6/3/2003	3.5	mg/kg	
			OU5-CSA-6-4316WinP-(40,80)	6/3/2003	5.6	mg/kg	
			OU5-CSA-6-4316WinP-(60,20)	6/3/2003	7	mg/kg	
			OU5-CSA-6-4316WinP-(60,40)	6/3/2003	3.8	mg/kg	
			OU5-CSA-6-4316WinP-(60,60)	6/3/2003	4.7	mg/kg	
			OU5-CSA-6-4316WinP-(60,80)	6/3/2003	14.4	mg/kg	
			OU5-CSA-6-4316WinP-(80,20)	6/3/2003	8.2	mg/kg	
			OU5-CSA-6-4316WinP-(80,40)	6/3/2003	5.8	mg/kg	
			OU5-CSA-6-4316WinP-(80,60)	6/3/2003	7.5	mg/kg	
			OU5-CSA-6-4316WinP-(80,80)	6/3/2003	9.4	mg/kg	
			OU5-CSA-6-4316WinP-DUP01	6/3/2003	4.1	mg/kg	OU5-CSA-6-4316WinP-(40,40)
			OU5-CSA-6-4316WinP-DUP02	6/3/2003	24.1	mg/kg	OU5-CSA-6-4316WinP-(80,80)
			OU5-CSA-6-4316WinP-SB1	6/3/2003	2.9	mg/kg	
CSA	6	4317 Warren Street					
			OU5-CSA-6-4317WS-(100,100)	1/30/2002	30 K	mg/kg	
			OU5-CSA-6-4317WS-(100,40)	1/30/2002	72.7 K	mg/kg	
			OU5-CSA-6-4317WS-(100,60)	1/30/2002	25.1 K	mg/kg	
			OU5-CSA-6-4317WS-(100,80)	1/30/2002	19.8 K	mg/kg	
			OU5-CSA-6-4317WS-(120,100)	1/30/2002	24.3 K	mg/kg	
			OU5-CSA-6-4317WS-(120,40)	1/30/2002	39.2 K	mg/kg	
			OU5-CSA-6-4317WS-(120,60)	1/30/2002	88.4 K	mg/kg	
			OU5-CSA-6-4317WS-(120,80)	1/30/2002	51 K	mg/kg	
			OU5-CSA-6-4317WS-(140,100)	1/30/2002	22.4 K	mg/kg	
			OU5-CSA-6-4317WS-(140,40)	1/30/2002	40 K	mg/kg	
			OU5-CSA-6-4317WS-(140,60)	1/30/2002	35.3 K	mg/kg	
			OU5-CSA-6-4317WS-(140,80)	1/30/2002	24.2 K	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4317WS-(20,40)	1/30/2002	58 K	mg/kg	
			OU5-CSA-6-4317WS-(20,60)	1/30/2002	36.2 K	mg/kg	
			OU5-CSA-6-4317WS-(40,20)	1/30/2002	95.7 K	mg/kg	
			OU5-CSA-6-4317WS-(40,40)	1/30/2002	73 K	mg/kg	
			OU5-CSA-6-4317WS-(40,60)	1/30/2002	48.3 K	mg/kg	
			OU5-CSA-6-4317WS-(40,80)	1/30/2002	22.3 K	mg/kg	
			OU5-CSA-6-4317WS-(60,20)	1/30/2002	53.4 K	mg/kg	
			OU5-CSA-6-4317WS-(60,40)	1/30/2002	81.3 K	mg/kg	
			OU5-CSA-6-4317WS-(60,60)	1/30/2002	48.7 K	mg/kg	
			OU5-CSA-6-4317WS-(60,80)	1/30/2002	33.3 K	mg/kg	
			OU5-CSA-6-4317WS-(80,20)	1/30/2002	82.3 K	mg/kg	
			OU5-CSA-6-4317WS-(80,40)	1/30/2002	36.8 K	mg/kg	
			OU5-CSA-6-4317WS-(80,80)	1/30/2002	49.7 K	mg/kg	
			OU5-CSA-6-4317WS-DUP01	1/30/2002	29.6 K	mg/kg	OU5-CSA-6-4317WS-(80,80)
			OU5-CSA-6-4317WS-SB-DUP70	1/28/2002	2.9	mg/kg	OU5-CSA-6-4317WS-SB6
			OU5-CSA-6-4317WS-SB1	1/28/2002	6.2	mg/kg	
			OU5-CSA-6-4317WS-SB2	1/28/2002	2.6	mg/kg	
			OU5-CSA-6-4317WS-SB3	1/28/2002	2.4	mg/kg	
			OU5-CSA-6-4317WS-SB4	1/28/2002	2.7	mg/kg	
			OU5-CSA-6-4317WS-SB5	1/28/2002	1.4 J	mg/kg	
			OU5-CSA-6-4317WS-SB6	1/28/2002	3.4	mg/kg	
			OU5-CSA-6-4317WS-SB7	1/28/2002	3.1	mg/kg	
CSA	6	4318 Warren Street					
			OU5-CSA-6-4318WS-(100,100)	2/15/2002	36.1 K	mg/kg	
			OU5-CSA-6-4318WS-(100,20)	2/15/2002	29.7 K	mg/kg	
			OU5-CSA-6-4318WS-(100,40)	2/15/2002	47.3 K	mg/kg	
			OU5-CSA-6-4318WS-(100,60)	2/15/2002	46.3 K	mg/kg	
			OU5-CSA-6-4318WS-(100,80)	2/15/2002	17.5 K	mg/kg	
			OU5-CSA-6-4318WS-(120,100)	2/15/2002	33.2 K	mg/kg	
			OU5-CSA-6-4318WS-(120,40)	2/15/2002	52.7 K	mg/kg	
			OU5-CSA-6-4318WS-(120,60)	2/15/2002	40.6 K	mg/kg	
			OU5-CSA-6-4318WS-(120,80)	2/15/2002	48.2 K	mg/kg	
			OU5-CSA-6-4318WS-(140,100)	2/15/2002	11.3 K	mg/kg	
			OU5-CSA-6-4318WS-(140,40)	2/15/2002	17.2 K	mg/kg	
			OU5-CSA-6-4318WS-(140,60)	2/15/2002	14.8 K	mg/kg	
			OU5-CSA-6-4318WS-(140,80)	2/15/2002	13.9 K	mg/kg	
			OU5-CSA-6-4318WS-(160,40)	2/15/2002	17 K	mg/kg	
			OU5-CSA-6-4318WS-(160,60)	2/15/2002	20.7 K	mg/kg	
			OU5-CSA-6-4318WS-(20,20)	2/15/2002	72.5 K	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4318WS-(20,40)	2/15/2002	27.7 K	mg/kg	
			OU5-CSA-6-4318WS-(20,60)	2/15/2002	20.4 K	mg/kg	
			OU5-CSA-6-4318WS-(40,0)	2/15/2002	67.8 K	mg/kg	
			OU5-CSA-6-4318WS-(40,20)	2/15/2002	11.9 K	mg/kg	
			OU5-CSA-6-4318WS-(40,40)	2/15/2002	9.2 K	mg/kg	
			OU5-CSA-6-4318WS-(40,60)	2/15/2002	13 K	mg/kg	
			OU5-CSA-6-4318WS-(60,0)	2/15/2002	56.6 K	mg/kg	
			OU5-CSA-6-4318WS-(60,20)	2/15/2002	77.7 K	mg/kg	
			OU5-CSA-6-4318WS-(60,40)	2/15/2002	5.1 K	mg/kg	
			OU5-CSA-6-4318WS-(60,60)	2/15/2002	17.9 K	mg/kg	
			OU5-CSA-6-4318WS-(60,80)	2/15/2002	21 K	mg/kg	
			OU5-CSA-6-4318WS-(80,20)	2/15/2002	49.8 K	mg/kg	
			OU5-CSA-6-4318WS-(80,80)	2/15/2002	60.4 K	mg/kg	
			OU5-CSA-6-4318WS-DUP01	2/15/2002	31 K	mg/kg	OU5-CSA-6-4318WS-(80,20)
			OU5-CSA-6-4318WS-DUP02	2/15/2002	52.3 K	mg/kg	OU5-CSA-6-4318WS-(120,40)
			OU5-CSA-6-4318WS-SB1	2/13/2002	15.6	mg/kg	
CSA	6	4323 Warren Street					
			OU5-CSA-6-4323WS-(100,100)	10/18/2001	17	mg/kg	
			OU5-CSA-6-4323WS-(100,40)	10/18/2001	40.7	mg/kg	
			OU5-CSA-6-4323WS-(100,80)	10/18/2001	6.8	mg/kg	
			OU5-CSA-6-4323WS-(120,100)	10/18/2001	9.5	mg/kg	
			OU5-CSA-6-4323WS-(120,40)	10/18/2001	13.9	mg/kg	
			OU5-CSA-6-4323WS-(120,60)	10/18/2001	12.8	mg/kg	
			OU5-CSA-6-4323WS-(120,80)	10/18/2001	13.6	mg/kg	
			OU5-CSA-6-4323WS-(140,100)	10/18/2001	10.3	mg/kg	
			OU5-CSA-6-4323WS-(140,60)	10/18/2001	21.2	mg/kg	
			OU5-CSA-6-4323WS-(140,80)	10/18/2001	14.9	mg/kg	
			OU5-CSA-6-4323WS-(20,40)	10/18/2001	21.4	mg/kg	
			OU5-CSA-6-4323WS-(20,60)	10/18/2001	26.6	mg/kg	
			OU5-CSA-6-4323WS-(20,80)	10/18/2001	43.1	mg/kg	
			OU5-CSA-6-4323WS-(40,20)	10/18/2001	28.5	mg/kg	
			OU5-CSA-6-4323WS-(40,40)	10/18/2001	30.7	mg/kg	
			OU5-CSA-6-4323WS-(40,60)	10/18/2001	20.1	mg/kg	
			OU5-CSA-6-4323WS-(40,80)	10/18/2001	23	mg/kg	
			OU5-CSA-6-4323WS-(60,20)	10/18/2001	26.6	mg/kg	
			OU5-CSA-6-4323WS-(60,40)	10/18/2001	31.2	mg/kg	
			OU5-CSA-6-4323WS-(60,60)	10/18/2001	31	mg/kg	
			OU5-CSA-6-4323WS-(60,80)	10/18/2001	9.2	mg/kg	
			OU5-CSA-6-4323WS-(80,100)	10/18/2001	15.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4323WS-(80,40)	10/18/2001	63.6	mg/kg	
			OU5-CSA-6-4323WS-(80,60)	10/18/2001	5.3	mg/kg	
			OU5-CSA-6-4323WS-(80,80)	10/18/2001	5.1	mg/kg	
			OU5-CSA-6-4323WS-DUP01	10/18/2001	29.8	mg/kg	OU5-CSA-6-4323WS-(60,40)
			OU5-CSA-6-4323WS-SB1	10/15/2001	3.6	mg/kg	
CSA	6	4323 Windom Place					
			OU5-CSA-6-4323WinP-(100,100)	2/22/2002	7.7	mg/kg	
			OU5-CSA-6-4323WinP-(100,40)	2/22/2002	7.9	mg/kg	
			OU5-CSA-6-4323WinP-(100,60)	2/22/2002	13.5	mg/kg	
			OU5-CSA-6-4323WinP-(100,80)	2/22/2002	6.8	mg/kg	
			OU5-CSA-6-4323WinP-(120,100)	2/22/2002	5.4	mg/kg	
			OU5-CSA-6-4323WinP-(120,40)	2/22/2002	1.9	mg/kg	
			OU5-CSA-6-4323WinP-(120,60)	2/22/2002	4.7	mg/kg	
			OU5-CSA-6-4323WinP-(120,80)	2/22/2002	4.7	mg/kg	
			OU5-CSA-6-4323WinP-(20,20)	2/22/2002	4.3	mg/kg	
			OU5-CSA-6-4323WinP-(20,40)	2/22/2002	5.9	mg/kg	
			OU5-CSA-6-4323WinP-(20,60)	2/22/2002	7	mg/kg	
			OU5-CSA-6-4323WinP-(20,80)	2/22/2002	10.8	mg/kg	
			OU5-CSA-6-4323WinP-(40,20)	2/22/2002	11.2	mg/kg	
			OU5-CSA-6-4323WinP-(40,40)	2/22/2002	10	mg/kg	
			OU5-CSA-6-4323WinP-(40,60)	2/22/2002	19.3	mg/kg	
			OU5-CSA-6-4323WinP-(40,80)	2/22/2002	12.1	mg/kg	
			OU5-CSA-6-4323WinP-(60,20)	2/22/2002	9.2	mg/kg	
			OU5-CSA-6-4323WinP-(60,40)	2/22/2002	9.1	mg/kg	
			OU5-CSA-6-4323WinP-(60,60)	2/22/2002	7.5	mg/kg	
			OU5-CSA-6-4323WinP-(60,80)	2/22/2002	18	mg/kg	
			OU5-CSA-6-4323WinP-(80,100)	2/22/2002	16.6	mg/kg	
			OU5-CSA-6-4323WinP-(80,20)	2/22/2002	8.8	mg/kg	
			OU5-CSA-6-4323WinP-(80,40)	2/22/2002	5.6	mg/kg	
			OU5-CSA-6-4323WinP-(80,60)	2/22/2002	5.4	mg/kg	
			OU5-CSA-6-4323WinP-(80,80)	2/22/2002	7.4	mg/kg	
			OU5-CSA-6-4323WinP-DUP01	2/22/2002	10.6	mg/kg	OU5-CSA-6-4323WinP-(40,40)
			OU5-CSA-6-4323WinP-SB1	2/28/2002	5.1	mg/kg	
CSA	6	4328 Windom Place					
			OU5-CSA-6-4328WinP-(100,100)	12/12/2001	6.3	mg/kg	
			OU5-CSA-6-4328WinP-(100,20)	12/12/2001	4.6	mg/kg	
			OU5-CSA-6-4328WinP-(100,40)	12/12/2001	22.4	mg/kg	
			OU5-CSA-6-4328WinP-(100,60)	12/12/2001	13.1	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4328WinP-(100,80)	12/12/2001	8.6	mg/kg	
			OU5-CSA-6-4328WinP-(120,100)	12/12/2001	3.9 J	mg/kg	
			OU5-CSA-6-4328WinP-(120,20)	12/12/2001	0.98 J	mg/kg	
			OU5-CSA-6-4328WinP-(120,40)	12/12/2001	4.8	mg/kg	
			OU5-CSA-6-4328WinP-(120,60)	12/12/2001	4.3	mg/kg	
			OU5-CSA-6-4328WinP-(120,80)	12/12/2001	6.7	mg/kg	
			OU5-CSA-6-4328WinP-(140,40)	12/12/2001	5.2	mg/kg	
			OU5-CSA-6-4328WinP-(20,20)	12/12/2001	13.7	mg/kg	
			OU5-CSA-6-4328WinP-(20,40)	12/12/2001	6.8	mg/kg	
			OU5-CSA-6-4328WinP-(20,60)	12/12/2001	6.6	mg/kg	
			OU5-CSA-6-4328WinP-(40,0)	12/12/2001	3.3	mg/kg	
			OU5-CSA-6-4328WinP-(40,20)	12/12/2001	14.5	mg/kg	
			OU5-CSA-6-4328WinP-(40,40)	12/12/2001	12	mg/kg	
			OU5-CSA-6-4328WinP-(40,60)	12/12/2001	8.7	mg/kg	
			OU5-CSA-6-4328WinP-(60,0)	12/12/2001	4.7	mg/kg	
			OU5-CSA-6-4328WinP-(60,20)	12/12/2001	6.6	mg/kg	
			OU5-CSA-6-4328WinP-(60,40)	12/12/2001	11.8	mg/kg	
			OU5-CSA-6-4328WinP-(60,60)	12/12/2001	24.6	mg/kg	
			OU5-CSA-6-4328WinP-(60,80)	12/12/2001	40.9	mg/kg	
			OU5-CSA-6-4328WinP-(80,20)	12/12/2001	6.1	mg/kg	
			OU5-CSA-6-4328WinP-(80,40)	12/12/2001	5.2	mg/kg	
			OU5-CSA-6-4328WinP-(80,60)	12/12/2001	4	mg/kg	
			OU5-CSA-6-4328WinP-(80,80)	12/12/2001	24.7	mg/kg	
			OU5-CSA-6-4328WinP-DUP01	12/12/2001	10.1	mg/kg	OU5-CSA-6-4328WinP-(40,40)
			OU5-CSA-6-4328WinP-DUP02	12/12/2001	8	mg/kg	OU5-CSA-6-4328WinP-(100,80)
			OU5-CSA-6-4328WinP-SB1	12/10/2001	4.9	mg/kg	
CSA	6	4329 Verplanck Place					
			OU5-CSA-6-4329VP-(0,20)	11/27/2001	6.4 L	mg/kg	
			OU5-CSA-6-4329VP-(0,40)	11/27/2001	6.3 L	mg/kg	
			OU5-CSA-6-4329VP-(0,60)	11/27/2001	18.3 L	mg/kg	
			OU5-CSA-6-4329VP-(100,100)	11/27/2001	6.9 L	mg/kg	
			OU5-CSA-6-4329VP-(100,40)	11/27/2001	5.6 L	mg/kg	
			OU5-CSA-6-4329VP-(100,60)	11/27/2001	3 L	mg/kg	
			OU5-CSA-6-4329VP-(100,80)	11/27/2001	6.8 L	mg/kg	
			OU5-CSA-6-4329VP-(120,40)	11/27/2001	6.3 L	mg/kg	
			OU5-CSA-6-4329VP-(120,60)	11/27/2001	5.6 L	mg/kg	
			OU5-CSA-6-4329VP-(120,80)	11/27/2001	6.7 L	mg/kg	
			OU5-CSA-6-4329VP-(20,20)	11/27/2001	56.9 L	mg/kg	
			OU5-CSA-6-4329VP-(20,40)	11/27/2001	36.6 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4329VP-(20,60)	11/27/2001	14.8 L	mg/kg	
			OU5-CSA-6-4329VP-(40,20)	11/27/2001	20.2 L	mg/kg	
			OU5-CSA-6-4329VP-(40,40)	11/27/2001	54.9 L	mg/kg	
			OU5-CSA-6-4329VP-(40,60)	11/27/2001	32.4 L	mg/kg	
			OU5-CSA-6-4329VP-(40,80)	11/27/2001	43.6 L	mg/kg	
			OU5-CSA-6-4329VP-(60,20)	11/27/2001	22.2 L	mg/kg	
			OU5-CSA-6-4329VP-(60,40)	11/27/2001	6.3 L	mg/kg	
			OU5-CSA-6-4329VP-(60,80)	11/27/2001	10.2 L	mg/kg	
			OU5-CSA-6-4329VP-(80,40)	11/27/2001	4.5 L	mg/kg	
			OU5-CSA-6-4329VP-(80,80)	11/27/2001	6.1 JL	mg/kg	
			OU5-CSA-6-4329VP-80,60)	11/27/2001	4.1 L	mg/kg	
			OU5-CSA-6-4329VP-DUP01	11/27/2001	17.3 L	mg/kg	OU5-CSA-6-4329VP-(0,60)
			OU5-CSA-6-4329VP-SB1	11/26/2001	2.8	mg/kg	
CSA	6	4330 42nd Street					
			OU5-CSA-6-4330(42)-(0,100)	11/21/2001	20	mg/kg	
			OU5-CSA-6-4330(42)-(100,0)	11/21/2001	6.8	mg/kg	
			OU5-CSA-6-4330(42)-(100,100)	11/21/2001	69.9	mg/kg	
			OU5-CSA-6-4330(42)-(100,120)	11/21/2001	55.5	mg/kg	
			OU5-CSA-6-4330(42)-(100,20)	11/21/2001	16.2	mg/kg	
			OU5-CSA-6-4330(42)-(100,40)	11/21/2001	43.4	mg/kg	
			OU5-CSA-6-4330(42)-(100,60)	11/21/2001	95.7	mg/kg	
			OU5-CSA-6-4330(42)-(100,80)	11/21/2001	33.6	mg/kg	
			OU5-CSA-6-4330(42)-(120,100)	11/21/2001	40	mg/kg	
			OU5-CSA-6-4330(42)-(120,120)	11/21/2001	44.8	mg/kg	
			OU5-CSA-6-4330(42)-(120,20)	11/21/2001	2.4 J	mg/kg	
			OU5-CSA-6-4330(42)-(120,40)	11/21/2001	27.4	mg/kg	
			OU5-CSA-6-4330(42)-(120,60)	11/21/2001	49	mg/kg	
			OU5-CSA-6-4330(42)-(120,80)	11/21/2001	32.1	mg/kg	
			OU5-CSA-6-4330(42)-(140,100)	11/21/2001	15.5	mg/kg	
			OU5-CSA-6-4330(42)-(140,80)	11/21/2001	12.9	mg/kg	
			OU5-CSA-6-4330(42)-(20,100)	11/21/2001	14.6	mg/kg	
			OU5-CSA-6-4330(42)-(20,120)	11/21/2001	19.6	mg/kg	
			OU5-CSA-6-4330(42)-(20,140)	11/21/2001	6.1	mg/kg	
			OU5-CSA-6-4330(42)-(20,80)	11/21/2001	27.6	mg/kg	
			OU5-CSA-6-4330(42)-(40,100)	11/21/2001	96.7	mg/kg	
			OU5-CSA-6-4330(42)-(40,120)	11/21/2001	46.3	mg/kg	
			OU5-CSA-6-4330(42)-(40,140)	11/21/2001	11.6	mg/kg	
			OU5-CSA-6-4330(42)-(40,40)	11/21/2001	9.4	mg/kg	
			OU5-CSA-6-4330(42)-(40,60)	11/21/2001	37.8	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4330(42)-(40,80)	11/21/2001	45.8	mg/kg	
			OU5-CSA-6-4330(42)-(60,100)	11/21/2001	16.2	mg/kg	
			OU5-CSA-6-4330(42)-(60,120)	11/21/2001	22	mg/kg	
			OU5-CSA-6-4330(42)-(60,140)	11/21/2001	14.9	mg/kg	
			OU5-CSA-6-4330(42)-(60,20)	11/21/2001	19.8	mg/kg	
			OU5-CSA-6-4330(42)-(60,40)	11/21/2001	12.3	mg/kg	
			OU5-CSA-6-4330(42)-(60,60)	11/21/2001	142	mg/kg	
			OU5-CSA-6-4330(42)-(60,80)	11/21/2001	59.7	mg/kg	
			OU5-CSA-6-4330(42)-(80,0)	11/21/2001	7.7	mg/kg	
			OU5-CSA-6-4330(42)-(80,100)	11/21/2001	17.8	mg/kg	
			OU5-CSA-6-4330(42)-(80,120)	11/21/2001	11.8	mg/kg	
			OU5-CSA-6-4330(42)-(80,20)	11/21/2001	26.1	mg/kg	
			OU5-CSA-6-4330(42)-(80,40)	11/21/2001	53.2	mg/kg	
			OU5-CSA-6-4330(42)-(80,60)	11/21/2001	74	mg/kg	
			OU5-CSA-6-4330(42)-(80,80)	11/21/2001	20.7	mg/kg	
			OU5-CSA-6-4330(42)-DUP01	11/21/2001	67	mg/kg	OU5-CSA-6-4330(42)-(80,60)
			OU5-CSA-6-4330(42)-DUP02	11/21/2001	14.4	mg/kg	OU5-CSA-6-4330(42)-(60,140)
			OU5-CSA-6-4330(42)-SB1	11/26/2001	16.4	mg/kg	
			OU5-CSA-6-4330(42)-SB2	11/26/2001	9.2	mg/kg	
CSA	6	4331 43rd Street					
			OU5-CSA-6-4331(43)-(0,60)	1/25/2002	4.2	mg/kg	
			OU5-CSA-6-4331(43)-(100,100)	1/25/2002	6.9	mg/kg	
			OU5-CSA-6-4331(43)-(100,120)	1/25/2002	8.5	mg/kg	
			OU5-CSA-6-4331(43)-(100,20)	1/25/2002	2.7	mg/kg	
			OU5-CSA-6-4331(43)-(100,40)	1/25/2002	2.9	mg/kg	
			OU5-CSA-6-4331(43)-(100,60)	1/25/2002	6.6	mg/kg	
			OU5-CSA-6-4331(43)-(100,80)	1/25/2002	6.3	mg/kg	
			OU5-CSA-6-4331(43)-(120,100)	1/25/2002	5.8	mg/kg	
			OU5-CSA-6-4331(43)-(120,20)	1/25/2002	6.9	mg/kg	
			OU5-CSA-6-4331(43)-(120,40)	1/25/2002	6.9	mg/kg	
			OU5-CSA-6-4331(43)-(120,60)	1/25/2002	0.53	mg/kg	
			OU5-CSA-6-4331(43)-(120,80)	1/25/2002	6.4	mg/kg	
			OU5-CSA-6-4331(43)-(140,100)	1/25/2002	4.2	mg/kg	
			OU5-CSA-6-4331(43)-(140,60)	1/25/2002	10.5	mg/kg	
			OU5-CSA-6-4331(43)-(140,80)	1/25/2002	5.3	mg/kg	
			OU5-CSA-6-4331(43)-(20,100)	1/25/2002	4.5	mg/kg	
			OU5-CSA-6-4331(43)-(20,120)	1/25/2002	6.5	mg/kg	
			OU5-CSA-6-4331(43)-(20,40)	1/25/2002	2.4	mg/kg	
			OU5-CSA-6-4331(43)-(20,60)	1/25/2002	5.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CSA-6-4331(43)-(20,80)	1/25/2002	5.3	mg/kg	
			OU5-CSA-6-4331(43)-(40,100)	1/25/2002	9.4	mg/kg	
			OU5-CSA-6-4331(43)-(40,120)	1/25/2002	6.6	mg/kg	
			OU5-CSA-6-4331(43)-(40,140)	1/25/2002	8.9	mg/kg	
			OU5-CSA-6-4331(43)-(40,40)	1/25/2002	3	mg/kg	
			OU5-CSA-6-4331(43)-(40,60)	1/25/2002	3.3	mg/kg	
			OU5-CSA-6-4331(43)-(40,80)	1/25/2002	2.8	mg/kg	
			OU5-CSA-6-4331(43)-(60,100)	1/25/2002	5	mg/kg	
			OU5-CSA-6-4331(43)-(60,120)	1/25/2002	6	mg/kg	
			OU5-CSA-6-4331(43)-(60,40)	1/25/2002	5	mg/kg	
			OU5-CSA-6-4331(43)-(60,60)	1/25/2002	5.1	mg/kg	
			OU5-CSA-6-4331(43)-(60,80)	1/25/2002	8.2	mg/kg	
			OU5-CSA-6-4331(43)-(80,100)	1/25/2002	11.2	mg/kg	
			OU5-CSA-6-4331(43)-(80,120)	1/25/2002	11.3	mg/kg	
			OU5-CSA-6-4331(43)-(80,20)	1/25/2002	4.7	mg/kg	
			OU5-CSA-6-4331(43)-(80,40)	1/25/2002	5	mg/kg	
			OU5-CSA-6-4331(43)-(80,60)	1/25/2002	3.3	mg/kg	
			OU5-CSA-6-4331(43)-(80,80)	1/25/2002	7.3	mg/kg	
			OU5-CSA-6-4331(43)-DUP01	1/25/2002	7.1	mg/kg	OU5-CSA-6-4331(43)-(120,40)
			OU5-CSA-6-4331(43)-DUP02	1/25/2002	12.2	mg/kg	OU5-CSA-6-4331(43)-(40,100)
			OU5-CSA-6-4331(43)-SB1	1/21/2002	6.3	mg/kg	
CSA	6	4333 Van Ness Street					
			OU5-CSA-6-4333VNS-(100,100)	1/24/2002	13.7	mg/kg	
			OU5-CSA-6-4333VNS-(100,40)	1/24/2002	19.4	mg/kg	
			OU5-CSA-6-4333VNS-(100,60)	1/24/2002	11.1	mg/kg	
			OU5-CSA-6-4333VNS-(100,80)	1/24/2002	11.1	mg/kg	
			OU5-CSA-6-4333VNS-(120,100)	1/24/2002	10.7	mg/kg	
			OU5-CSA-6-4333VNS-(120,40)	1/24/2002	19.2	mg/kg	
			OU5-CSA-6-4333VNS-(120,60)	1/24/2002	15.3	mg/kg	
			OU5-CSA-6-4333VNS-(120,80)	1/24/2002	14	mg/kg	
			OU5-CSA-6-4333VNS-(140,80)	1/24/2002	4.6	mg/kg	
			OU5-CSA-6-4333VNS-(20,20)	1/24/2002	11.8	mg/kg	
			OU5-CSA-6-4333VNS-(20,40)	1/24/2002	17.5	mg/kg	
			OU5-CSA-6-4333VNS-(20,60)	1/24/2002	118	mg/kg	
			OU5-CSA-6-4333VNS-(40,20)	1/24/2002	79.5	mg/kg	
			OU5-CSA-6-4333VNS-(40,40)	1/24/2002	109	mg/kg	
			OU5-CSA-6-4333VNS-(40,60)	1/24/2002	33	mg/kg	
			OU5-CSA-6-4333VNS-(60,20)	1/24/2002	20.4	mg/kg	
			OU5-CSA-6-4333VNS-(60,40)	1/24/2002	6.3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4333VNS-(60,60)	1/24/2002	15.2	mg/kg	
			OU5-CSA-6-4333VNS-(60,80)	1/24/2002	11.1	mg/kg	
			OU5-CSA-6-4333VNS-(80,20)	1/24/2002	41.6	mg/kg	
			OU5-CSA-6-4333VNS-(80,40)	1/24/2002	4.5	mg/kg	
			OU5-CSA-6-4333VNS-(80,60)	1/24/2002	4.4	mg/kg	
			OU5-CSA-6-4333VNS-(80,80)	1/24/2002	7.8	mg/kg	
			OU5-CSA-6-4333VNS-DUP01	1/24/2002	28.4	mg/kg	OU5-CSA-6-4333VNS-(40,60)
CSA	6	4337 Verplanck Place					
			OU5-CSA-6-4337VP-(100,100)	11/28/2001	6	mg/kg	
			OU5-CSA-6-4337VP-(100,40)	11/28/2001	5.1	mg/kg	
			OU5-CSA-6-4337VP-(100,60)	11/28/2001	4.3	mg/kg	
			OU5-CSA-6-4337VP-(100,80)	11/28/2001	6.5	mg/kg	
			OU5-CSA-6-4337VP-(120,100)	11/28/2001	8.6	mg/kg	
			OU5-CSA-6-4337VP-(120,40)	11/28/2001	8.2	mg/kg	
			OU5-CSA-6-4337VP-(120,60)	11/28/2001	14.8	mg/kg	
			OU5-CSA-6-4337VP-(120,80)	11/28/2001	7.5	mg/kg	
			OU5-CSA-6-4337VP-(140,60)	11/28/2001	5	mg/kg	
			OU5-CSA-6-4337VP-(140,80)	11/28/2001	6.8	mg/kg	
			OU5-CSA-6-4337VP-(20,20)	11/28/2001	9.1	mg/kg	
			OU5-CSA-6-4337VP-(20,40)	11/28/2001	18.7	mg/kg	
			OU5-CSA-6-4337VP-(20,60)	11/28/2001	5.5	mg/kg	
			OU5-CSA-6-4337VP-(40,20)	11/28/2001	10.9	mg/kg	
			OU5-CSA-6-4337VP-(40,40)	11/28/2001	14.3	mg/kg	
			OU5-CSA-6-4337VP-(40,60)	11/28/2001	9.3	mg/kg	
			OU5-CSA-6-4337VP-(40,80)	11/28/2001	12.5	mg/kg	
			OU5-CSA-6-4337VP-(60,20)	11/28/2001	3.9	mg/kg	
			OU5-CSA-6-4337VP-(60,40)	11/28/2001	13.7	mg/kg	
			OU5-CSA-6-4337VP-(60,60)	11/28/2001	4.5	mg/kg	
			OU5-CSA-6-4337VP-(60,80)	11/28/2001	3.4	mg/kg	
			OU5-CSA-6-4337VP-(80,20)	11/28/2001	11.4	mg/kg	
			OU5-CSA-6-4337VP-(80,40)	11/28/2001	2.2 J	mg/kg	
			OU5-CSA-6-4337VP-(80,80)	11/28/2001	6	mg/kg	
			OU5-CSA-6-4337VP-DUP01	11/28/2001	33.6	mg/kg	OU5-CSA-6-4337VP-(40,40)
			OU5-CSA-6-4337VP-SB1	11/26/2001	2 J	mg/kg	
CSA	6	4341 Warren Street					
			OU5-CSA-6-4341WS-(0,60)	1/11/2002	3.5	mg/kg	
			OU5-CSA-6-4341WS-(100,100)	1/11/2002	3.1	mg/kg	
			OU5-CSA-6-4341WS-(100,40)	1/11/2002	3.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4341WS-(100,60)	1/11/2002	11.5	mg/kg	
			OU5-CSA-6-4341WS-(100,80)	1/11/2002	10	mg/kg	
			OU5-CSA-6-4341WS-(120,100)	1/11/2002	40.1	mg/kg	
			OU5-CSA-6-4341WS-(120,60)	1/11/2002	2.8	mg/kg	
			OU5-CSA-6-4341WS-(120,80)	1/11/2002	4.8	mg/kg	
			OU5-CSA-6-4341WS-(20,20)	1/11/2002	4.8	mg/kg	
			OU5-CSA-6-4341WS-(20,40)	1/11/2002	5.5	mg/kg	
			OU5-CSA-6-4341WS-(20,60)	1/11/2002	4	mg/kg	
			OU5-CSA-6-4341WS-(20,80)	1/11/2002	6.8	mg/kg	
			OU5-CSA-6-4341WS-(40,20)	1/11/2002	4.7	mg/kg	
			OU5-CSA-6-4341WS-(40,40)	1/11/2002	4	mg/kg	
			OU5-CSA-6-4341WS-(40,60)	1/11/2002	4.6	mg/kg	
			OU5-CSA-6-4341WS-(40,80)	1/11/2002	4.7	mg/kg	
			OU5-CSA-6-4341WS-(60,20)	1/11/2002	8.2	mg/kg	
			OU5-CSA-6-4341WS-(60,40)	1/11/2002	3.1	mg/kg	
			OU5-CSA-6-4341WS-(60,60)	1/11/2002	3.2	mg/kg	
			OU5-CSA-6-4341WS-(60,80)	1/11/2002	3.9	mg/kg	
			OU5-CSA-6-4341WS-(80,100)	1/11/2002	25.3	mg/kg	
			OU5-CSA-6-4341WS-(80,40)	1/11/2002	3.5	mg/kg	
			OU5-CSA-6-4341WS-(80,80)	1/11/2002	3.6	mg/kg	
			OU5-CSA-6-4341WS-DUP01	1/11/2002	3.9	mg/kg	OU5-CSA-6-4341WS-(20,60)
			OU5-CSA-6-4341WS-SB1	1/7/2002	0.5 J	mg/kg	
CSA	6	4347 Warren Street					
			OU5-CSA-6-4347WS-(0,60)	1/28/2002	6.9	mg/kg	
			OU5-CSA-6-4347WS-(100,100)	1/28/2002	11	mg/kg	
			OU5-CSA-6-4347WS-(100,40)	1/28/2002	5.3	mg/kg	
			OU5-CSA-6-4347WS-(100,60)	1/28/2002	10.7	mg/kg	
			OU5-CSA-6-4347WS-(100,80)	1/28/2002	9.3	mg/kg	
			OU5-CSA-6-4347WS-(120,100)	1/28/2002	28.6	mg/kg	
			OU5-CSA-6-4347WS-(120,40)	1/28/2002	6.3	mg/kg	
			OU5-CSA-6-4347WS-(120,60)	1/28/2002	7.7	mg/kg	
			OU5-CSA-6-4347WS-(120,80)	1/28/2002	16.4	mg/kg	
			OU5-CSA-6-4347WS-(140,60)	1/28/2002	15.1	mg/kg	
			OU5-CSA-6-4347WS-(20,20)	1/28/2002	18.6	mg/kg	
			OU5-CSA-6-4347WS-(20,40)	1/28/2002	8.2	mg/kg	
			OU5-CSA-6-4347WS-(20,60)	1/28/2002	9	mg/kg	
			OU5-CSA-6-4347WS-(20,80)	1/28/2002	5.5	mg/kg	
			OU5-CSA-6-4347WS-(40,20)	1/28/2002	6.7	mg/kg	
			OU5-CSA-6-4347WS-(40,40)	1/28/2002	8.8	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4347WS-(40,60)	1/28/2002	16.3	mg/kg	
			OU5-CSA-6-4347WS-(40,80)	1/28/2002	12.5	mg/kg	
			OU5-CSA-6-4347WS-(60,100)	1/28/2002	9.7	mg/kg	
			OU5-CSA-6-4347WS-(60,20)	1/28/2002	9.6	mg/kg	
			OU5-CSA-6-4347WS-(60,40)	1/28/2002	3.1	mg/kg	
			OU5-CSA-6-4347WS-(60,60)	1/28/2002	5.5	mg/kg	
			OU5-CSA-6-4347WS-(60,80)	1/28/2002	16.9	mg/kg	
			OU5-CSA-6-4347WS-(80,100)	1/28/2002	8.4	mg/kg	
			OU5-CSA-6-4347WS-(80,40)	1/28/2002	3.8	mg/kg	
			OU5-CSA-6-4347WS-(80,60)	1/28/2002	46.8	mg/kg	
			OU5-CSA-6-4347WS-(80,80)	1/28/2002	13.3	mg/kg	
			OU5-CSA-6-4347WS-DUP01	1/28/2002	8.4	mg/kg	OU5-CSA-6-4347WS-(20,80)
			OU5-CSA-6-4347WS-SB1	1/28/2002	2.1	mg/kg	
CSA	6	4349 Verplanck Place					
			OU5-CSA-6-4349VP-(100,100)	12/14/2001	12.1	mg/kg	
			OU5-CSA-6-4349VP-(100,120)	12/14/2001	5.1	mg/kg	
			OU5-CSA-6-4349VP-(100,40)	12/14/2001	6.2	mg/kg	
			OU5-CSA-6-4349VP-(100,60)	12/14/2001	6.6	mg/kg	
			OU5-CSA-6-4349VP-(100,80)	12/14/2001	7.9	mg/kg	
			OU5-CSA-6-4349VP-(120,100)	12/14/2001	12	mg/kg	
			OU5-CSA-6-4349VP-(120,120)	12/14/2001	3.5 J	mg/kg	
			OU5-CSA-6-4349VP-(120,60)	12/14/2001	6.2	mg/kg	
			OU5-CSA-6-4349VP-(120,80)	12/14/2001	4.7	mg/kg	
			OU5-CSA-6-4349VP-(140,60)	12/14/2001	7.1	mg/kg	
			OU5-CSA-6-4349VP-(140,80)	12/14/2001	6	mg/kg	
			OU5-CSA-6-4349VP-(20,20)	12/14/2001	3.7	mg/kg	
			OU5-CSA-6-4349VP-(20,40)	12/14/2001	7	mg/kg	
			OU5-CSA-6-4349VP-(20,60)	12/14/2001	25.3	mg/kg	
			OU5-CSA-6-4349VP-(20,80)	12/14/2001	13.1	mg/kg	
			OU5-CSA-6-4349VP-(40,20)	12/14/2001	38.5	mg/kg	
			OU5-CSA-6-4349VP-(40,40)	12/14/2001	10.6	mg/kg	
			OU5-CSA-6-4349VP-(40,60)	12/14/2001	26.9	mg/kg	
			OU5-CSA-6-4349VP-(40,80)	12/14/2001	17.5	mg/kg	
			OU5-CSA-6-4349VP-(60,100)	12/14/2001	5.4	mg/kg	
			OU5-CSA-6-4349VP-(60,40)	12/14/2001	26.8	mg/kg	
			OU5-CSA-6-4349VP-(60,60)	12/14/2001	15.8	mg/kg	
			OU5-CSA-6-4349VP-(60,80)	12/14/2001	4.7	mg/kg	
			OU5-CSA-6-4349VP-(80,100)	12/14/2001	7.2	mg/kg	
			OU5-CSA-6-4349VP-(80,40)	12/14/2001	5.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CSA-6-4349VP-DUP01	12/14/2001	20.5	mg/kg	OU5-CSA-6-4349VP-(40,20)
			OU5-CSA-6-4349VP-SB1	12/10/2001	3.1	mg/kg	
CSA	6	4354 Warren Street					
			OU5-CSA-6-4354WS-(100,100)	2/21/2002	20	mg/kg	
			OU5-CSA-6-4354WS-(100,120)	2/21/2002	4.9	mg/kg	
			OU5-CSA-6-4354WS-(100,140)	2/21/2002	4.6	mg/kg	
			OU5-CSA-6-4354WS-(100,40)	2/21/2002	14.3	mg/kg	
			OU5-CSA-6-4354WS-(100,60)	2/21/2002	112	mg/kg	
			OU5-CSA-6-4354WS-(100,80)	2/21/2002	7.8	mg/kg	
			OU5-CSA-6-4354WS-(120,100)	2/21/2002	19.3	mg/kg	
			OU5-CSA-6-4354WS-(120,120)	2/21/2002	9.3	mg/kg	
			OU5-CSA-6-4354WS-(120,140)	2/21/2002	7.1	mg/kg	
			OU5-CSA-6-4354WS-(120,40)	2/21/2002	6.5	mg/kg	
			OU5-CSA-6-4354WS-(120,60)	2/21/2002	18	mg/kg	
			OU5-CSA-6-4354WS-(120,80)	2/21/2002	7	mg/kg	
			OU5-CSA-6-4354WS-(140,100)	2/21/2002	6.1	mg/kg	
			OU5-CSA-6-4354WS-(140,120)	2/21/2002	5.2	mg/kg	
			OU5-CSA-6-4354WS-(140,140)	2/21/2002	6.5	mg/kg	
			OU5-CSA-6-4354WS-(140,60)	2/21/2002	10.7	mg/kg	
			OU5-CSA-6-4354WS-(140,80)	2/21/2002	6.2	mg/kg	
			OU5-CSA-6-4354WS-(160,100)	2/21/2002	10.7	mg/kg	
			OU5-CSA-6-4354WS-(160,60)	2/21/2002	20.7	mg/kg	
			OU5-CSA-6-4354WS-(160,80)	2/21/2002	14	mg/kg	
			OU5-CSA-6-4354WS-(20,100)	2/21/2002	4.7	mg/kg	
			OU5-CSA-6-4354WS-(20,60)	2/21/2002	4.6	mg/kg	
			OU5-CSA-6-4354WS-(20,80)	2/21/2002	5.1	mg/kg	
			OU5-CSA-6-4354WS-(40,100)	2/21/2002	8	mg/kg	
			OU5-CSA-6-4354WS-(40,120)	2/21/2002	6.2	mg/kg	
			OU5-CSA-6-4354WS-(40,20)	2/21/2002	8.2	mg/kg	
			OU5-CSA-6-4354WS-(40,40)	2/21/2002	5.9	mg/kg	
			OU5-CSA-6-4354WS-(40,60)	2/21/2002	5.3	mg/kg	
			OU5-CSA-6-4354WS-(40,80)	2/21/2002	12.3	mg/kg	
			OU5-CSA-6-4354WS-(60,100)	2/21/2002	6.2	mg/kg	
			OU5-CSA-6-4354WS-(60,120)	2/21/2002	4.8	mg/kg	
			OU5-CSA-6-4354WS-(60,20)	2/21/2002	5.1	mg/kg	
			OU5-CSA-6-4354WS-(60,40)	2/21/2002	6.5	mg/kg	
			OU5-CSA-6-4354WS-(60,60)	2/21/2002	5.9	mg/kg	
			OU5-CSA-6-4354WS-(60,80)	2/21/2002	4.5	mg/kg	
			OU5-CSA-6-4354WS-(80,100)	2/21/2002	25.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-6-4354WS-(80,120)	2/21/2002	6.8	mg/kg	
			OU5-CSA-6-4354WS-(80,40)	2/21/2002	5.5	mg/kg	
			OU5-CSA-6-4354WS-(80,80)	2/21/2002	10.4	mg/kg	
			OU5-CSA-6-4354WS-DUP01	2/21/2002	10.4	mg/kg	OU5-CSA-6-4354WS-(120,120)
			OU5-CSA-6-4354WS-DUP02	2/21/2002	19.9	mg/kg	OU5-CSA-6-4354WS-(40,80)
			OU5-CSA-6-4354WS-SB1	2/28/2002	3.5	mg/kg	
OU4	OU4	4400 Massachusetts Avenue, Lot 10					
			OU4-AU10-(250,330)	3/14/2001	35.3	mg/kg	
			OU4-AU10-(250,350)	3/14/2001	11.9 J	mg/kg	
			OU4-AU10-(270,310)	3/14/2001	25.2	mg/kg	
			OU4-AU10-(270,330)	3/14/2001	35.5 J	mg/kg	
			OU4-AU10-(270,350)	3/14/2001	26.6	mg/kg	
			OU4-AU10-(270,370)	3/14/2001	25.5 J	mg/kg	
			OU4-AU10-(290,290)	3/14/2001	11.1 J	mg/kg	
			OU4-AU10-(290,310)	3/14/2001	8.31	mg/kg	
			OU4-AU10-(290,330)	3/14/2001	19	mg/kg	
			OU4-AU10-(290,350)	3/14/2001	55.5 J	mg/kg	
			OU4-AU10-(290,370)	3/14/2001	51.6 J	mg/kg	
			OU4-AU10-(290,390)	3/14/2001	35.7	mg/kg	
			OU4-AU10-(310,270)	3/14/2001	23.3 J	mg/kg	
			OU4-AU10-(310,290)	3/14/2001	16.8 J	mg/kg	
			OU4-AU10-(310,310)	3/14/2001	10.2	mg/kg	
			OU4-AU10-(310,330)	3/14/2001	19.3	mg/kg	
			OU4-AU10-(310,350)	3/14/2001	22.8 J	mg/kg	
			OU4-AU10-(310,370)	3/14/2001	28.5	mg/kg	
			OU4-AU10-(310,390)	3/14/2001	47	mg/kg	
			OU4-AU10-(310,410)	3/14/2001	9.47	mg/kg	
			OU4-AU10-(330,250)	3/14/2001	4.08	mg/kg	
			OU4-AU10-(330,270)	3/14/2001	9.25 J	mg/kg	
			OU4-AU10-(330,290)	3/14/2001	7.19 J	mg/kg	
			OU4-AU10-(330,310)	3/14/2001	16.8 J	mg/kg	
			OU4-AU10-(330,330)	3/14/2001	18.8 J	mg/kg	
			OU4-AU10-(330,350)	3/14/2001	18.7	mg/kg	
			OU4-AU10-(330,370)	3/14/2001	12.7	mg/kg	
			OU4-AU10-(330,390)	3/14/2001	40.3	mg/kg	
			OU4-AU10-(330,410)	3/14/2001	33.3	mg/kg	
			OU4-AU10-(350,230)	3/14/2001	3.74	mg/kg	
			OU4-AU10-(350,250)	3/14/2001	5.41 J	mg/kg	
			OU4-AU10-(350,270)	3/14/2001	7.63 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU10-(350,290)	3/14/2001	8.91 J	mg/kg	
			OU4-AU10-(350,310)	3/14/2001	4.7	mg/kg	
			OU4-AU10-(350,330)	3/14/2001	7.63	mg/kg	
			OU4-AU10-(350,350)	3/14/2001	12.5	mg/kg	
			OU4-AU10-(350,370)	3/14/2001	13	mg/kg	
			OU4-AU10-(350,390)	3/14/2001	27.4	mg/kg	
			OU4-AU10-(370,230)	3/14/2001	13.2	mg/kg	
			OU4-AU10-(370,250)	3/14/2001	7.27 J	mg/kg	
			OU4-AU10-(370,270)	3/14/2001	6.5 J	mg/kg	
			OU4-AU10-(370,290)	3/14/2001	8.94 J	mg/kg	
			OU4-AU10-(370,310)	3/14/2001	5.45 J	mg/kg	
			OU4-AU10-(370,330)	3/14/2001	3.31 J	mg/kg	
			OU4-AU10-(370,350)	3/14/2001	4.97	mg/kg	
			OU4-AU10-(370,370)	3/14/2001	8.73	mg/kg	
			OU4-AU10-(390,210)	3/14/2001	4.66	mg/kg	
			OU4-AU10-(390,230)	3/14/2001	5.58	mg/kg	
			OU4-AU10-(390,250)	3/14/2001	5.25 J	mg/kg	
			OU4-AU10-(390,270)	3/14/2001	8.11 J	mg/kg	
			OU4-AU10-(390,290)	3/14/2001	7.45 J	mg/kg	
			OU4-AU10-(390,310)	3/14/2001	4.63 J	mg/kg	
			OU4-AU10-(390,330)	3/14/2001	5.22	mg/kg	
			OU4-AU10-(390,350)	3/14/2001	6.12	mg/kg	
			OU4-AU10-(410,190)	3/14/2001	3.35 J	mg/kg	
			OU4-AU10-(410,210)	3/14/2001	2.53 J	mg/kg	
			OU4-AU10-(410,230)	3/14/2001	3.28 J	mg/kg	
			OU4-AU10-(410,250)	3/14/2001	4.15	mg/kg	
			OU4-AU10-(410,270)	3/14/2001	5.76 J	mg/kg	
			OU4-AU10-(410,290)	3/14/2001	3.87 J	mg/kg	
			OU4-AU10-(410,310)	3/14/2001	5.19	mg/kg	
			OU4-AU10-(410,330)	3/14/2001	5.29	mg/kg	
			OU4-AU10-(430,190)	3/14/2001	3.57	mg/kg	
			OU4-AU10-(430,210)	3/14/2001	5 J	mg/kg	
			OU4-AU10-(430,250)	3/14/2001	6.01 J	mg/kg	
			OU4-AU10-(430,270)	3/14/2001	6.66 J	mg/kg	
			OU4-AU10-(430,290)	3/14/2001	3.74	mg/kg	
			OU4-AU10-(430,310)	3/14/2001	3.69	mg/kg	
			OU4-AU10-(450,210)	3/14/2001	3.85 J	mg/kg	
			OU4-AU10-(450,230)	3/14/2001	4.02 J	mg/kg	
			OU4-AU10-(450,270)	3/14/2001	3.73	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU10-(450,290)	3/14/2001	5.74	mg/kg	
			OU4-AU10-(470,230)	3/14/2001	4.01 J	mg/kg	
			OU4-AU10-(470,250)	3/14/2001	3.93 J	mg/kg	
			OU4-AU10-(490,250)	3/14/2001	4.31 J	mg/kg	
			OU4-AU10-DUP01	3/14/2001	5.43 J	mg/kg	OU4-AU10-(350,270)
			OU4-AU10-DUP02	3/14/2001	14.8	mg/kg	OU4-AU10-(290,310)
			OU4-AU10-DUP03	3/14/2001	15.4	mg/kg	OU4-AU10-(330,350)
			OU4-AU10-DUP04	3/14/2001	3.12	mg/kg	OU4-AU10-(430,190)
OU4	OU4	4400 Massachusetts Avenue, Lot 11					
			OU4-AU11-(130,430)	3/19/2001	19.9	mg/kg	
			OU4-AU11-(130,450)	3/19/2001	31.8	mg/kg	
			OU4-AU11-(150,410)	3/19/2001	6.38 D	mg/kg	
			OU4-AU11-(150,430)	3/19/2001	29.7	mg/kg	
			OU4-AU11-(150,450)	3/19/2001	15.8	mg/kg	
			OU4-AU11-(150,470)	3/19/2001	14.8	mg/kg	
			OU4-AU11-(150,530)	3/19/2001	80.6 L	mg/kg	
			OU4-AU11-(150,550)	3/19/2001	48 L	mg/kg	
			OU4-AU11-(170,370)	3/19/2001	13.2 D	mg/kg	
			OU4-AU11-(170,390)	3/19/2001	13.7 D	mg/kg	
			OU4-AU11-(170,410)	3/19/2001	22.5 D	mg/kg	
			OU4-AU11-(170,430)	3/19/2001	14.4	mg/kg	
			OU4-AU11-(170,450)	3/19/2001	17.8	mg/kg	
			OU4-AU11-(170,470)	3/19/2001	18.8	mg/kg	
			OU4-AU11-(170,490)	3/19/2001	7.84	mg/kg	
			OU4-AU11-(170,510)	3/20/2001	2.91	mg/kg	
			OU4-AU11-(170,530)	3/19/2001	4.26 L	mg/kg	
			OU4-AU11-(170,550)	3/19/2001	6.76 L	mg/kg	
			OU4-AU11-(170,570)	3/20/2001	10.5	mg/kg	
			OU4-AU11-(190,350)	3/19/2001	21.5 D	mg/kg	
			OU4-AU11-(190,370)	3/19/2001	52.9 D	mg/kg	
			OU4-AU11-(190,390)	3/19/2001	46.4 D	mg/kg	
			OU4-AU11-(190,410)	3/19/2001	28 D	mg/kg	
			OU4-AU11-(190,430)	3/19/2001	16.5	mg/kg	
			OU4-AU11-(190,450)	3/19/2001	25.1	mg/kg	
			OU4-AU11-(190,470)	3/19/2001	2.3 J	mg/kg	
			OU4-AU11-(190,490)	3/19/2001	2.64 J	mg/kg	
			OU4-AU11-(190,510)	3/20/2001	2.54	mg/kg	
			OU4-AU11-(190,530)	3/19/2001	2.32 JL	mg/kg	
			OU4-AU11-(190,550)	3/20/2001	5.15	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU11-(190,570)	3/20/2001	6.41	mg/kg	
			OU4-AU11-(190,590)	3/20/2001	3.77	mg/kg	
			OU4-AU11-(210,330)	3/19/2001	32.3 D	mg/kg	
			OU4-AU11-(210,350)	3/19/2001	77 D	mg/kg	
			OU4-AU11-(210,370)	3/19/2001	50 D	mg/kg	
			OU4-AU11-(210,390)	3/19/2001	48.3 D	mg/kg	
			OU4-AU11-(210,410)	3/19/2001	67.6 D	mg/kg	
			OU4-AU11-(210,430)	3/19/2001	11.9	mg/kg	
			OU4-AU11-(210,450)	3/19/2001	5.22	mg/kg	
			OU4-AU11-(210,470)	3/19/2001	2.42 J	mg/kg	
			OU4-AU11-(210,490)	3/19/2001	3.04	mg/kg	
			OU4-AU11-(210,510)	3/20/2001	2.85	mg/kg	
			OU4-AU11-(210,530)	3/20/2001	5.66	mg/kg	
			OU4-AU11-(210,550)	3/20/2001	4.76	mg/kg	
			OU4-AU11-(210,570)	3/20/2001	4.47	mg/kg	
			OU4-AU11-(230,350)	3/19/2001	19.4 D	mg/kg	
			OU4-AU11-(230,370)	3/19/2001	35.4 D	mg/kg	
			OU4-AU11-(230,390)	3/19/2001	31.6 D	mg/kg	
			OU4-AU11-(230,410)	3/19/2001	77.6 D	mg/kg	
			OU4-AU11-(230,430)	3/19/2001	8.91	mg/kg	
			OU4-AU11-(230,450)	3/19/2001	2.9	mg/kg	
			OU4-AU11-(230,470)	3/19/2001	2.94	mg/kg	
			OU4-AU11-(230,490)	3/19/2001	5.02	mg/kg	
			OU4-AU11-(230,550)	3/20/2001	4.29	mg/kg	
			OU4-AU11-(230,570)	3/20/2001	3.26	mg/kg	
			OU4-AU11-(250,370)	3/19/2001	42.4 D	mg/kg	
			OU4-AU11-(250,390)	3/19/2001	48.3 D	mg/kg	
			OU4-AU11-(250,410)	3/19/2001	61.9	mg/kg	
			OU4-AU11-(250,430)	3/19/2001	52.6	mg/kg	
			OU4-AU11-(250,450)	3/19/2001	2.27 J	mg/kg	
			OU4-AU11-(250,470)	3/19/2001	3.51	mg/kg	
			OU4-AU11-(250,490)	3/19/2001	5.67	mg/kg	
			OU4-AU11-(270,390)	3/19/2001	37.4 D	mg/kg	
			OU4-AU11-(270,410)	3/19/2001	37.7	mg/kg	
			OU4-AU11-(270,430)	3/19/2001	11.9	mg/kg	
			OU4-AU11-(270,450)	3/19/2001	2.37 J	mg/kg	
			OU4-AU11-(270,470)	3/19/2001	2.56 J	mg/kg	
			OU4-AU11-(270,490)	3/19/2001	3.06	mg/kg	
			OU4-AU11-(290,410)	3/19/2001	26.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU11-(290,430)	3/19/2001	17.9	mg/kg	
			OU4-AU11-(290,450)	3/19/2001	9.21	mg/kg	
			OU4-AU11-(290,470)	3/19/2001	3.29	mg/kg	
			OU4-AU11-(310,430)	3/19/2001	11.4	mg/kg	
			OU4-AU11-(310,450)	3/19/2001	10.9	mg/kg	
			OU4-AU11-(310,470)	3/19/2001	4.31	mg/kg	
			OU4-AU11-(310,490)	3/19/2001	3.03 L	mg/kg	
			OU4-AU11-(330,450)	3/19/2001	5.39	mg/kg	
			OU4-AU11-(330,470)	3/19/2001	4.26	mg/kg	
			OU4-AU11-DUP01	3/19/2001	52.9 L	mg/kg	OU4-AU11-(250,390)
			OU4-AU11-DUP02	3/19/2001	10.3 L	mg/kg	OU4-AU11-(270,430)
			OU4-AU11-DUP03	3/19/2001	2.5 L	mg/kg	OU4-AU11-(250,450)
			OU4-AU11-DUP04	3/19/2001	41.6 L	mg/kg	OU4-AU11-(150,530)
			OU4-AU11-DUP05	3/19/2001	28.3 L	mg/kg	OU4-AU11-(150,550)
OU4	OU4	4400 Massachusetts Avenue, Lot 12					
			OU4-AU12-(100,200)	1/4/2001	7.67 D	mg/kg	
			OU4-AU12-(100,220)	1/4/2001	6.37 D	mg/kg	
			OU4-AU12-(100,80)	1/4/2001	5.89 D	mg/kg	
			OU4-AU12-(120,100)	1/4/2001	5.58 D	mg/kg	
			OU4-AU12-(120,220)	1/4/2001	10.8 D	mg/kg	
			OU4-AU12-(120,40)	1/4/2001	12.3 D	mg/kg	
			OU4-AU12-(120,60)	1/4/2001	8.19 D	mg/kg	
			OU4-AU12-(120,80)	1/4/2001	9.52 D	mg/kg	
			OU4-AU12-(140,100)	1/4/2001	7.61 D	mg/kg	
			OU4-AU12-(140,20)	1/4/2001	5.45 D	mg/kg	
			OU4-AU12-(140,220)	1/4/2001	104 D	mg/kg	
			OU4-AU12-(140,280)	1/4/2001	3.91 D	mg/kg	
			OU4-AU12-(140,300)	1/4/2001	5.17 D	mg/kg	
			OU4-AU12-(140,40)	1/4/2001	16.8 D	mg/kg	
			OU4-AU12-(140,60)	1/4/2001	8.82 D	mg/kg	
			OU4-AU12-(140,80)	1/4/2001	7.3 D	mg/kg	
			OU4-AU12-(160,100)	1/4/2001	11.9 D	mg/kg	
			OU4-AU12-(160,120)	1/4/2001	104 D	mg/kg	
			OU4-AU12-(160,220)	1/4/2001	91.7 D	mg/kg	
			OU4-AU12-(160,240)	1/4/2001	4.42 D	mg/kg	
			OU4-AU12-(160,40)	1/4/2001	5.5 D	mg/kg	
			OU4-AU12-(160,60)	1/4/2001	13.1 D	mg/kg	
			OU4-AU12-(160,80)	1/4/2001	41.6 D	mg/kg	
			OU4-AU12-(180,100)	1/4/2001	72.9 D	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU12-(180,120)	1/4/2001	73.8 D	mg/kg	
			OU4-AU12-(180,200)	1/4/2001	276 D	mg/kg	
			OU4-AU12-(180,220)	1/4/2001	6.63 D	mg/kg	
			OU4-AU12-(180,260)	1/4/2001	2.56 D	mg/kg	
			OU4-AU12-(180,60)	1/4/2001	12 D	mg/kg	
			OU4-AU12-(180,80)	1/4/2001	33.1 D	mg/kg	
			OU4-AU12-(20,260)	1/4/2001	6.55 D	mg/kg	
			OU4-AU12-(200,100)	1/4/2001	87.8 D	mg/kg	
			OU4-AU12-(200,120)	1/4/2001	24.2 D	mg/kg	
			OU4-AU12-(200,180)	1/4/2001	234 D	mg/kg	
			OU4-AU12-(200,200)	1/4/2001	206 D	mg/kg	
			OU4-AU12-(200,220)	1/4/2001	7.78 D	mg/kg	
			OU4-AU12-(200,80)	1/4/2001	72.5 D	mg/kg	
			OU4-AU12-(220,100)	1/4/2001	22.9 D	mg/kg	
			OU4-AU12-(220,120)	1/4/2001	21 D	mg/kg	
			OU4-AU12-(220,140)	1/4/2001	45.6 D	mg/kg	
			OU4-AU12-(220,160)	1/4/2001	109 D	mg/kg	
			OU4-AU12-(220,180)	1/4/2001	182 D	mg/kg	
			OU4-AU12-(220,200)	1/4/2001	92.6 D	mg/kg	
			OU4-AU12-(220,220)	1/4/2001	4.94 D	mg/kg	
			OU4-AU12-(240,100)	1/4/2001	24.6 D	mg/kg	
			OU4-AU12-(240,120)	1/4/2001	22.4 D	mg/kg	
			OU4-AU12-(240,140)	1/4/2001	57.5 D	mg/kg	
			OU4-AU12-(240,160)	1/4/2001	65.4 D	mg/kg	
			OU4-AU12-(240,180)	1/4/2001	66 D	mg/kg	
			OU4-AU12-(240,200)	1/4/2001	23 D	mg/kg	
			OU4-AU12-(240,220)	1/4/2001	4.49 D	mg/kg	
			OU4-AU12-(260,120)	1/4/2001	16 D	mg/kg	
			OU4-AU12-(260,140)	1/4/2001	26.1 D	mg/kg	
			OU4-AU12-(260,160)	1/4/2001	10.7 D	mg/kg	
			OU4-AU12-(260,180)	1/4/2001	31.5 D	mg/kg	
			OU4-AU12-(260,200)	1/4/2001	15 D	mg/kg	
			OU4-AU12-(260,220)	1/4/2001	16.9 D	mg/kg	
			OU4-AU12-(280,140)	1/4/2001	4.62 D	mg/kg	
			OU4-AU12-(280,160)	1/4/2001	2.42 D	mg/kg	
			OU4-AU12-(40,220)	1/4/2001	7.48 D	mg/kg	
			OU4-AU12-(40,240)	1/4/2001	6.3 D	mg/kg	
			OU4-AU12-(40,260)	1/4/2001	4.7 D	mg/kg	
			OU4-AU12-(60,180)	1/4/2001	4.23 D	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU12-(60,220)	1/4/2001	6.98 D	mg/kg	
			OU4-AU12-(60,240)	1/4/2001	6.99 D	mg/kg	
			OU4-AU12-(80,140)	1/4/2001	5.72 D	mg/kg	
			OU4-AU12-(80,220)	1/4/2001	6.7 D	mg/kg	
			OU4-AU12-(80,240)	1/4/2001	7.29 D	mg/kg	
			OU4-AU12-DUP01(200,100)	1/4/2001	84.1 D	mg/kg	
			OU4-AU12-DUP02(100,80)	1/4/2001	6.49 D	mg/kg	
			OU4-AU12-DUP03(180,220)	1/4/2001	7.21 D	mg/kg	
			OU4-AU12-DUP04(140,300)	1/4/2001	3.66 D	mg/kg	
			OU4-CDC-(100,100)	1/5/2001	11.7 D	mg/kg	
			OU4-CDC-(100,170)	1/5/2001	11.5 D	mg/kg	
			OU4-CDC-(100,180)	1/5/2001	6.15 D	mg/kg	
			OU4-CDC-(110,170)	1/5/2001	16.1 D	mg/kg	
			OU4-CDC-(110,180)	1/5/2001	11.5 D	mg/kg	
			OU4-CDC-(110,190)	1/5/2001	5.9 D	mg/kg	
			OU4-CDC-(110,200)	1/5/2001	9.31 D	mg/kg	
			OU4-CDC-(120,110)	1/5/2001	4.47 DJ	mg/kg	
			OU4-CDC-(120,140)	1/5/2001	33.1 DJ	mg/kg	
			OU4-CDC-(120,150)	1/5/2001	81.2 DJ	mg/kg	
			OU4-CDC-(120,160)	1/5/2001	131 D	mg/kg	
			OU4-CDC-(120,170)	1/5/2001	48.9 D	mg/kg	
			OU4-CDC-(120,180)	1/5/2001	58 D	mg/kg	
			OU4-CDC-(120,190)	1/5/2001	23.6 D	mg/kg	
			OU4-CDC-(120,200)	1/5/2001	45.8 D	mg/kg	
			OU4-CDC-(130,110)	1/5/2001	9.75 DJ	mg/kg	
			OU4-CDC-(130,120)	1/5/2001	10.2 DJ	mg/kg	
			OU4-CDC-(130,130)	1/5/2001	15.3 DJ	mg/kg	
			OU4-CDC-(130,140)	1/5/2001	278 DJ	mg/kg	
			OU4-CDC-(130,150)	1/5/2001	97.3 DJ	mg/kg	
			OU4-CDC-(130,160)	1/5/2001	101 DJ	mg/kg	
			OU4-CDC-(130,170)	1/5/2001	75 DJ	mg/kg	
			OU4-CDC-(130,180)	1/5/2001	85.8 DJ	mg/kg	
			OU4-CDC-(130,190)	1/5/2001	163 DJ	mg/kg	
			OU4-CDC-(130,200)	1/5/2001	22.5 DJ	mg/kg	
			OU4-CDC-(140,120)	1/5/2001	7.45 DJ	mg/kg	
			OU4-CDC-(140,130)	1/5/2001	7.3 DJ	mg/kg	
			OU4-CDC-(140,140)	1/5/2001	39.9 DJ	mg/kg	
			OU4-CDC-(140,160)	1/5/2001	217 DJ	mg/kg	
			OU4-CDC-(140,170)	1/5/2001	98.2 DJ	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-CDC-(150,120)	1/5/2001	9.26 D	mg/kg	
			OU4-CDC-(150,130)	1/5/2001	21.3 D	mg/kg	
			OU4-CDC-(150,140)	1/5/2001	498 D	mg/kg	
			OU4-CDC-(150,150)	1/5/2001	169 DJ	mg/kg	
			OU4-CDC-(160,130)	1/5/2001	214 D	mg/kg	
			OU4-CDC-(160,140)	1/5/2001	140 D	mg/kg	
			OU4-CDC-(160,150)	1/5/2001	246 D	mg/kg	
			OU4-CDC-(170,130)	1/5/2001	122 D	mg/kg	
			OU4-CDC-(170,140)	1/5/2001	123 D	mg/kg	
			OU4-CDC-(170,150)	1/5/2001	83.4 D	mg/kg	
			OU4-CDC-(180,130)	1/5/2001	50.6 D	mg/kg	
			OU4-CDC-(180,140)	1/5/2001	29.1 D	mg/kg	
			OU4-CDC-(190,140)	1/5/2001	13.1 D	mg/kg	
			OU4-CDC-(200,140)	1/5/2001	18.6 D	mg/kg	
			OU4-CDC-(200,150)	1/5/2001	26.3 D	mg/kg	
			OU4-CDC-(200,160)	1/5/2001	9.84 D	mg/kg	
			OU4-CDC-(210,140)	1/5/2001	27.9 D	mg/kg	
			OU4-CDC-(210,150)	1/5/2001	42.3 D	mg/kg	
			OU4-CDC-(210,160)	1/5/2001	50.6 D	mg/kg	
			OU4-CDC-(220,150)	1/5/2001	52.8 D	mg/kg	
			OU4-CDC-(60,200)	1/5/2001	9.44 D	mg/kg	
			OU4-CDC-(60,210)	1/5/2001	10.6 D	mg/kg	
			OU4-CDC-(70,180)	1/5/2001	6.35 D	mg/kg	
			OU4-CDC-(70,190)	1/5/2001	7.11 D	mg/kg	
			OU4-CDC-(70,200)	1/5/2001	5.05 D	mg/kg	
			OU4-CDC-(80,150)	1/5/2001	6.88 D	mg/kg	
			OU4-CDC-(80,160)	1/5/2001	9.2 D	mg/kg	
			OU4-CDC-(80,170)	1/5/2001	22.2 D	mg/kg	
			OU4-CDC-(80,180)	1/5/2001	5.21 D	mg/kg	
			OU4-CDC-(80,190)	1/5/2001	5.07 D	mg/kg	
			OU4-CDC-(80,200)	1/5/2001	4.49 D	mg/kg	
			OU4-CDC-(80,210)	1/5/2001	6.52 D	mg/kg	
			OU4-CDC-(90,170)	1/5/2001	7.99 D	mg/kg	
			OU4-CDC-(90,180)	1/5/2001	4 D	mg/kg	
			OU4-CDC-(90,190)	1/5/2001	3.43 D	mg/kg	
			OU4-CDC-(90,200)	1/5/2001	7.16 D	mg/kg	
			OU4-CDC-(90,210)	1/5/2001	6.57 D	mg/kg	
			OU4-CDC-DUP-07(170,130)	1/5/2001	129 D	mg/kg	
			OU4-CDC-DUP-08(140,170)	1/5/2001	192 DJ	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-CDC-DUP-09(120,140)	1/5/2001	34.9 D	mg/kg	
			OU4-CDC-DUP-10(90,190)	1/5/2001	3.92 D	mg/kg	
			OU4-CDC-DUP-11(80,180)	1/5/2001	4.43 D	mg/kg	
			OU4-CDC-DUP-12(70,180)	1/5/2001	5.26 D	mg/kg	
OU4	OU4	4400 Massachusetts Avenue, Lot 13					
			OU4-AU13-(150,250)	3/15/2001	14.5	mg/kg	
			OU4-AU13-(170,230)	3/15/2001	21.6	mg/kg	
			OU4-AU13-(170,250)	3/15/2001	21.1	mg/kg	
			OU4-AU13-(170,270)	3/15/2001	15.1	mg/kg	
			OU4-AU13-(190,210)	3/15/2001	18.5 J	mg/kg	
			OU4-AU13-(190,230)	3/15/2001	23.7	mg/kg	
			OU4-AU13-(190,250)	3/15/2001	22.7	mg/kg	
			OU4-AU13-(190,270)	3/15/2001	9.11 J	mg/kg	
			OU4-AU13-(190,290)	3/15/2001	18.5 J	mg/kg	
			OU4-AU13-(210,190)	3/15/2001	34.4	mg/kg	
			OU4-AU13-(210,210)	3/15/2001	24.9 J	mg/kg	
			OU4-AU13-(210,230)	3/15/2001	20.2	mg/kg	
			OU4-AU13-(210,250)	3/15/2001	19.5	mg/kg	
			OU4-AU13-(210,270)	3/15/2001	12.1 J	mg/kg	
			OU4-AU13-(210,290)	3/15/2001	21.6 J	mg/kg	
			OU4-AU13-(210,310)	3/15/2001	33.4 J	mg/kg	
			OU4-AU13-(230,170)	3/15/2001	23.2	mg/kg	
			OU4-AU13-(230,190)	3/15/2001	24.9	mg/kg	
			OU4-AU13-(230,210)	3/15/2001	36.7	mg/kg	
			OU4-AU13-(230,230)	3/15/2001	25.6	mg/kg	
			OU4-AU13-(230,250)	3/15/2001	20.3	mg/kg	
			OU4-AU13-(230,270)	3/15/2001	13.1 J	mg/kg	
			OU4-AU13-(230,290)	3/15/2001	23.1 J	mg/kg	
			OU4-AU13-(230,310)	3/15/2001	17.7	mg/kg	
			OU4-AU13-(230,330)	3/15/2001	20.7	mg/kg	
			OU4-AU13-(250,150)	3/15/2001	6.23	mg/kg	
			OU4-AU13-(250,170)	3/15/2001	7.75	mg/kg	
			OU4-AU13-(250,190)	3/15/2001	12.7	mg/kg	
			OU4-AU13-(250,210)	3/15/2001	25.5	mg/kg	
			OU4-AU13-(250,230)	3/15/2001	33.7	mg/kg	
			OU4-AU13-(250,250)	3/15/2001	14.4	mg/kg	
			OU4-AU13-(250,270)	3/15/2001	14.2 J	mg/kg	
			OU4-AU13-(250,290)	3/15/2001	14.9 J	mg/kg	
			OU4-AU13-(250,310)	3/15/2001	20.8	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU13-(270,130)	3/15/2001	3.99	mg/kg	
			OU4-AU13-(270,150)	3/15/2001	2.89	mg/kg	
			OU4-AU13-(270,170)	3/15/2001	4.07	mg/kg	
			OU4-AU13-(270,190)	3/15/2001	3.58 J	mg/kg	
			OU4-AU13-(270,210)	3/15/2001	12.4	mg/kg	
			OU4-AU13-(270,230)	3/15/2001	26.2	mg/kg	
			OU4-AU13-(270,250)	3/15/2001	27.4	mg/kg	
			OU4-AU13-(270,270)	3/15/2001	12.2 J	mg/kg	
			OU4-AU13-(270,290)	3/15/2001	21.6 J	mg/kg	
			OU4-AU13-(290,130)	3/15/2001	3.39	mg/kg	
			OU4-AU13-(290,150)	3/15/2001	4.62	mg/kg	
			OU4-AU13-(290,170)	3/15/2001	5.44	mg/kg	
			OU4-AU13-(290,190)	3/15/2001	5.35 J	mg/kg	
			OU4-AU13-(290,210)	3/15/2001	4.4	mg/kg	
			OU4-AU13-(290,230)	3/15/2001	7.23	mg/kg	
			OU4-AU13-(290,250)	3/15/2001	21.4	mg/kg	
			OU4-AU13-(290,270)	3/15/2001	18.2 J	mg/kg	
			OU4-AU13-(310,110)	3/15/2001	3.23	mg/kg	
			OU4-AU13-(310,130)	3/15/2001	6.47	mg/kg	
			OU4-AU13-(310,150)	3/15/2001	4.05	mg/kg	
			OU4-AU13-(310,170)	3/15/2001	5.38	mg/kg	
			OU4-AU13-(310,190)	3/15/2001	4.13 J	mg/kg	
			OU4-AU13-(310,210)	3/15/2001	6.51	mg/kg	
			OU4-AU13-(310,230)	3/15/2001	4.42	mg/kg	
			OU4-AU13-(310,250)	3/15/2001	6.75	mg/kg	
			OU4-AU13-(330,110)	3/15/2001	3.42	mg/kg	
			OU4-AU13-(330,130)	3/15/2001	3.52	mg/kg	
			OU4-AU13-(330,170)	3/15/2001	5.75	mg/kg	
			OU4-AU13-(330,190)	3/15/2001	4.76 J	mg/kg	
			OU4-AU13-(330,210)	3/15/2001	6.39	mg/kg	
			OU4-AU13-(330,230)	3/15/2001	5.29	mg/kg	
			OU4-AU13-(350,130)	3/15/2001	3.47	mg/kg	
			OU4-AU13-(350,150)	3/15/2001	3.98	mg/kg	
			OU4-AU13-(350,170)	3/15/2001	3.18	mg/kg	
			OU4-AU13-(350,190)	3/15/2001	6.32 J	mg/kg	
			OU4-AU13-(350,210)	3/15/2001	7.07	mg/kg	
			OU4-AU13-(370,150)	3/15/2001	4.16	mg/kg	
			OU4-AU13-(370,170)	3/15/2001	4.07	mg/kg	
			OU4-AU13-(370,190)	3/15/2001	4.32	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU13-(370,210)	3/15/2001	3.83	mg/kg	
			OU4-AU13-(390,170)	3/15/2001	4.29	mg/kg	
			OU4-AU13-(390,190)	3/15/2001	4.35	mg/kg	
			OU4-AU13-DUP01	3/15/2001	4 J	mg/kg	OU4-AU13-(290,170)
			OU4-AU13-DUP02	3/15/2001	22	mg/kg	OU4-AU13-(170,230)
			OU4-AU13-DUP03	3/15/2001	6.16	mg/kg	OU4-AU13-(310,210)
			OU4-AU13-DUP04	3/15/2001	5.75	mg/kg	OU4-AU13-(290,230)
OU4	OU4	4400 Massachusetts Avenue, Lot 14					
			OU4-AU14-(10,350)	3/19/2001	16.2 L	mg/kg	
			OU4-AU14-(110,230)	3/16/2001	9.11	mg/kg	
			OU4-AU14-(110,250)	3/16/2001	8.95	mg/kg	
			OU4-AU14-(110,270)	3/16/2001	31.8	mg/kg	
			OU4-AU14-(110,290)	3/16/2001	12.2	mg/kg	
			OU4-AU14-(110,310)	3/16/2001	6.8	mg/kg	
			OU4-AU14-(110,330)	3/16/2001	6.13	mg/kg	
			OU4-AU14-(110,350)	3/16/2001	5.92	mg/kg	
			OU4-AU14-(110,370)	3/16/2001	6.82	mg/kg	
			OU4-AU14-(110,390)	3/16/2001	1.68	mg/kg	
			OU4-AU14-(110,410)	3/19/2001	5.86 L	mg/kg	
			OU4-AU14-(110,430)	3/19/2001	15.9 L	mg/kg	
			OU4-AU14-(130,250)	3/19/2001	8.93	mg/kg	
			OU4-AU14-(130,270)	3/19/2001	10.9	mg/kg	
			OU4-AU14-(130,290)	3/19/2001	14.7	mg/kg	
			OU4-AU14-(130,310)	3/19/2001	7.83	mg/kg	
			OU4-AU14-(130,330)	3/19/2001	3.99	mg/kg	
			OU4-AU14-(130,350)	3/19/2001	4.44 L	mg/kg	
			OU4-AU14-(130,370)	3/19/2001	4.67 L	mg/kg	
			OU4-AU14-(130,390)	3/19/2001	3.96 L	mg/kg	
			OU4-AU14-(130,410)	3/19/2001	4.64 L	mg/kg	
			OU4-AU14-(150,270)	3/19/2001	11.9	mg/kg	
			OU4-AU14-(150,290)	3/19/2001	11.9	mg/kg	
			OU4-AU14-(150,310)	3/19/2001	11.6	mg/kg	
			OU4-AU14-(150,330)	3/19/2001	8.11	mg/kg	
			OU4-AU14-(150,350)	3/19/2001	11.3 L	mg/kg	
			OU4-AU14-(150,370)	3/19/2001	8.49 L	mg/kg	
			OU4-AU14-(150,390)	3/19/2001	6.26 L	mg/kg	
			OU4-AU14-(170,290)	3/19/2001	12.3	mg/kg	
			OU4-AU14-(170,310)	3/19/2001	15.9	mg/kg	
			OU4-AU14-(170,330)	3/19/2001	35.3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU14-(170,350)	3/19/2001	17.3 L	mg/kg	
			OU4-AU14-(190,310)	3/19/2001	17.4	mg/kg	
			OU4-AU14-(190,330)	3/19/2001	17	mg/kg	
			OU4-AU14-(30,330)	3/19/2001	3.48	mg/kg	
			OU4-AU14-(30,350)	3/19/2001	5.84 L	mg/kg	
			OU4-AU14-(30,370)	3/19/2001	3.75 L	mg/kg	
			OU4-AU14-(50,270)	3/19/2001	12.9	mg/kg	
			OU4-AU14-(50,290)	3/19/2001	29.7	mg/kg	
			OU4-AU14-(50,310)	3/19/2001	8.05	mg/kg	
			OU4-AU14-(50,330)	3/19/2001	5.39	mg/kg	
			OU4-AU14-(50,350)	3/19/2001	5.52 L	mg/kg	
			OU4-AU14-(50,370)	3/19/2001	21.4 L	mg/kg	
			OU4-AU14-(50,390)	3/16/2001	8.18	mg/kg	
			OU4-AU14-(70,230)	3/19/2001	6.66	mg/kg	
			OU4-AU14-(70,250)	3/16/2001	9.34	mg/kg	
			OU4-AU14-(70,270)	3/16/2001	7.63	mg/kg	
			OU4-AU14-(70,290)	3/16/2001	7.45	mg/kg	
			OU4-AU14-(70,310)	3/16/2001	7.19	mg/kg	
			OU4-AU14-(70,330)	3/16/2001	8.29	mg/kg	
			OU4-AU14-(70,350)	3/16/2001	7.43	mg/kg	
			OU4-AU14-(70,370)	3/16/2001	8.03	mg/kg	
			OU4-AU14-(70,390)	3/16/2001	9.98	mg/kg	
			OU4-AU14-(70,410)	3/16/2001	28.2	mg/kg	
			OU4-AU14-(90,210)	3/16/2001	7.66	mg/kg	
			OU4-AU14-(90,230)	3/16/2001	8.19	mg/kg	
			OU4-AU14-(90,250)	3/16/2001	9.29	mg/kg	
			OU4-AU14-(90,270)	3/16/2001	13	mg/kg	
			OU4-AU14-(90,290)	3/16/2001	12.1	mg/kg	
			OU4-AU14-(90,310)	3/16/2001	8.04	mg/kg	
			OU4-AU14-(90,330)	3/16/2001	16.5	mg/kg	
			OU4-AU14-(90,350)	3/16/2001	7.08	mg/kg	
			OU4-AU14-(90,370)	3/16/2001	4.41	mg/kg	
			OU4-AU14-(90,390)	3/16/2001	4.18	mg/kg	
			OU4-AU14-(90,410)	3/16/2001	15.3	mg/kg	
			OU4-AU14-(90,430)	3/19/2001	25.6 L	mg/kg	
			OU4-AU14-DUP01	3/16/2001	7.97	mg/kg	OU4-AU14-(70,310)
			OU4-AU14-DUP02	3/19/2001	6.3 L	mg/kg	OU4-AU14-(130,330)
			OU4-AU14-DUP03	3/19/2001	8.36 L	mg/kg	OU4-AU14-(150,370)
			OU4-AU14-DUP04	3/19/2001	2.62 L	mg/kg	OU4-AU14-(130,410)

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
OU4	OU4	4400 Massachusetts Avenue, Lot 15					
			OU4-AU15-(110,150)	3/16/2001	11.6	mg/kg	
			OU4-AU15-(110,170)	3/16/2001	5.87	mg/kg	
			OU4-AU15-(110,190)	3/16/2001	7.01	mg/kg	
			OU4-AU15-(110,210)	3/16/2001	7.18	mg/kg	
			OU4-AU15-(130,110)	3/16/2001	10.6	mg/kg	
			OU4-AU15-(130,130)	3/16/2001	19.3	mg/kg	
			OU4-AU15-(130,150)	3/16/2001	37.6	mg/kg	
			OU4-AU15-(130,170)	3/16/2001	12	mg/kg	
			OU4-AU15-(130,190)	3/16/2001	7.95	mg/kg	
			OU4-AU15-(130,210)	3/16/2001	14.4	mg/kg	
			OU4-AU15-(130,230)	3/16/2001	8.72	mg/kg	
			OU4-AU15-(150,090)	3/16/2001	10.5	mg/kg	
			OU4-AU15-(150,110)	3/16/2001	17.4	mg/kg	
			OU4-AU15-(150,130)	3/16/2001	21.7	mg/kg	
			OU4-AU15-(150,150)	3/16/2001	21.1	mg/kg	
			OU4-AU15-(150,170)	3/16/2001	20.6	mg/kg	
			OU4-AU15-(150,190)	3/16/2001	15.7	mg/kg	
			OU4-AU15-(150,210)	3/16/2001	17.7	mg/kg	
			OU4-AU15-(150,230)	3/16/2001	23.6	mg/kg	
			OU4-AU15-(170,030)	3/16/2001	2.32	mg/kg	
			OU4-AU15-(170,090)	3/16/2001	9.68	mg/kg	
			OU4-AU15-(170,110)	3/16/2001	32.3	mg/kg	
			OU4-AU15-(170,130)	3/16/2001	19.3	mg/kg	
			OU4-AU15-(170,150)	3/16/2001	24.3	mg/kg	
			OU4-AU15-(170,170)	3/16/2001	23.6	mg/kg	
			OU4-AU15-(170,190)	3/16/2001	24.7	mg/kg	
			OU4-AU15-(170,210)	3/16/2001	21	mg/kg	
			OU4-AU15-(190,050)	3/16/2001	5.53	mg/kg	
			OU4-AU15-(190,090)	3/16/2001	23.7	mg/kg	
			OU4-AU15-(190,110)	3/16/2001	7.82	mg/kg	
			OU4-AU15-(190,130)	3/16/2001	15.9	mg/kg	
			OU4-AU15-(190,150)	3/16/2001	27.6	mg/kg	
			OU4-AU15-(190,170)	3/16/2001	23.1	mg/kg	
			OU4-AU15-(190,190)	3/16/2001	23.8	mg/kg	
			OU4-AU15-(210,050)	3/16/2001	6.81	mg/kg	
			OU4-AU15-(210,090)	3/16/2001	3.89	mg/kg	
			OU4-AU15-(210,110)	3/16/2001	16	mg/kg	
			OU4-AU15-(210,130)	3/16/2001	20.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU4-AU15-(210,150)	3/16/2001	25.9	mg/kg	
			OU4-AU15-(210,170)	3/16/2001	26	mg/kg	
			OU4-AU15-(230,050)	3/16/2001	4.83	mg/kg	
			OU4-AU15-(230,070)	3/16/2001	4.74	mg/kg	
			OU4-AU15-(230,090)	3/16/2001	2.64	mg/kg	
			OU4-AU15-(230,110)	3/16/2001	4.96	mg/kg	
			OU4-AU15-(230,130)	3/16/2001	5.92	mg/kg	
			OU4-AU15-(230,150)	3/16/2001	12.4	mg/kg	
			OU4-AU15-(250,050)	3/16/2001	3.45	mg/kg	
			OU4-AU15-(250,070)	3/16/2001	3.12	mg/kg	
			OU4-AU15-(250,110)	3/16/2001	3.03	mg/kg	
			OU4-AU15-(250,130)	3/16/2001	4.95	mg/kg	
			OU4-AU15-(270,050)	3/16/2001	3.99	mg/kg	
			OU4-AU15-(270,070)	3/16/2001	3.93	mg/kg	
			OU4-AU15-(270,110)	3/16/2001	3.44	mg/kg	
			OU4-AU15-(270,90)	3/16/2001	4.21	mg/kg	
			OU4-AU15-(290,90)	3/16/2001	4.15	mg/kg	
			OU4-AU15-(90,190)	3/16/2001	6.61	mg/kg	
			OU4-AU15-DUP01	3/16/2001	8.96	mg/kg	OU4-AU15-(170,090)
			OU4-AU15-DUP02	3/16/2001	11.2	mg/kg	OU4-AU15-(110,150)
			OU4-AU15-DUP03	3/16/2001	18.4	mg/kg	OU4-AU15-(150,210)
OU4	OU4	4400 Massachusetts Avenue, Lot 31					
			OU4-KREEG-(110,150)	3/20/2001	3.8	mg/kg	
			OU4-KREEG-(110,170)	3/20/2001	5.1	mg/kg	
			OU4-KREEG-(110,190)	3/20/2001	11.6	mg/kg	
			OU4-KREEG-(110,210)	3/20/2001	3.1	mg/kg	
			OU4-KREEG-(110,230)	3/22/2001	14.4	mg/kg	
			OU4-KREEG-(110,250)	3/20/2001	3.9	mg/kg	
			OU4-KREEG-(110,270)	3/20/2001	5.2	mg/kg	
			OU4-KREEG-(110,290)	3/20/2001	16.4	mg/kg	
			OU4-KREEG-(110,330)	3/22/2001	4	mg/kg	
			OU4-KREEG-(110,350)	3/22/2001	5.9 J	mg/kg	
			OU4-KREEG-(110,370)	3/22/2001	8.7	mg/kg	
			OU4-KREEG-(110-310)	4/20/2001	3.2	mg/kg	
			OU4-KREEG-(130,150)	3/22/2001	6.1	mg/kg	
			OU4-KREEG-(130,170)	3/22/2001	148	mg/kg	
			OU4-KREEG-(130,190)	3/22/2001	6.6	mg/kg	
			OU4-KREEG-(130,210)	3/22/2001	7.7	mg/kg	
			OU4-KREEG-(130,230)	3/22/2001	3.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-KREEG-(130,250)	3/22/2001	6.2	mg/kg	
			OU4-KREEG-(130,290)	3/22/2001	6.9	mg/kg	
			OU4-KREEG-(130,310)	3/22/2001	4.6	mg/kg	
			OU4-KREEG-(130,330)	3/22/2001	6.6	mg/kg	
			OU4-KREEG-(130,350)	3/22/2001	6.9	mg/kg	
			OU4-KREEG-(150,190)	3/22/2001	2.4	mg/kg	
			OU4-KREEG-(150,210)	3/22/2001	4.8 J	mg/kg	
			OU4-KREEG-(150,230)	3/22/2001	6.3	mg/kg	
			OU4-KREEG-(150,250)	3/22/2001	39.3	mg/kg	
			OU4-KREEG-(150,270)	3/22/2001	3.8	mg/kg	
			OU4-KREEG-(150,290)	3/22/2001	16.3	mg/kg	
			OU4-KREEG-(150,310)	3/22/2001	6.5	mg/kg	
			OU4-KREEG-(150,330)	3/22/2001	7.6	mg/kg	
			OU4-KREEG-(170,190)	3/22/2001	7	mg/kg	
			OU4-KREEG-(170,210)	3/22/2001	25.9	mg/kg	
			OU4-KREEG-(170,230)	3/22/2001	7.3	mg/kg	
			OU4-KREEG-(170,250)	3/22/2001	2.9	mg/kg	
			OU4-KREEG-(170,270)	3/22/2001	0.57 J	mg/kg	
			OU4-KREEG-(170,290)	3/22/2001	2.7	mg/kg	
			OU4-KREEG-(190,170)	3/22/2001	5.9	mg/kg	
			OU4-KREEG-(190,190)	3/22/2001	6.3	mg/kg	
			OU4-KREEG-(190,210)	3/22/2001	7.1	mg/kg	
			OU4-KREEG-(190,230)	3/22/2001	76.8	mg/kg	
			OU4-KREEG-(190,250)	3/22/2001	2.1 J	mg/kg	
			OU4-KREEG-(210,130)	3/22/2001	2.6	mg/kg	
			OU4-KREEG-(210,150)	3/22/2001	1.5 J	mg/kg	
			OU4-KREEG-(210,170)	3/22/2001	2.3 J	mg/kg	
			OU4-KREEG-(210,190)	3/22/2001	13.3	mg/kg	
			OU4-KREEG-(210,230)	3/22/2001	0.74 J	mg/kg	
			OU4-KREEG-(230,110)	3/22/2001	2.1 J	mg/kg	
			OU4-KREEG-(230,130)	3/22/2001	2 J	mg/kg	
			OU4-KREEG-(230,150)	3/22/2001	5.3	mg/kg	
			OU4-KREEG-(230,170)	3/22/2001	7.1	mg/kg	
			OU4-KREEG-(230,50)	3/23/2001	3.7	mg/kg	
			OU4-KREEG-(230,70)	3/22/2001	2.9	mg/kg	
			OU4-KREEG-(230,90)	3/22/2001	3	mg/kg	
			OU4-KREEG-(250,110)	3/22/2001	39.4	mg/kg	
			OU4-KREEG-(250,130)	3/22/2001	1.9 J	mg/kg	
			OU4-KREEG-(250,150)	3/22/2001	3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-KREEG-(250,170)	3/22/2001	16.6	mg/kg	
			OU4-KREEG-(250,190)	3/22/2001	2.6	mg/kg	
			OU4-KREEG-(250,30)	3/23/2001	5.8	mg/kg	
			OU4-KREEG-(250,50)	3/23/2001	4.1	mg/kg	
			OU4-KREEG-(250,70)	3/22/2001	7.8	mg/kg	
			OU4-KREEG-(250,90)	3/22/2001	9.7	mg/kg	
			OU4-KREEG-(270,30)	3/23/2001	7.1	mg/kg	
			OU4-KREEG-(270,50)	3/23/2001	6.3	mg/kg	
			OU4-KREEG-(290,10)	3/23/2001	6.8	mg/kg	
			OU4-KREEG-(290,30)	3/23/2001	8.7	mg/kg	
			OU4-KREEG-(30-370)	4/20/2001	4.9	mg/kg	
			OU4-KREEG-(430,270)	3/22/2001	7.6	mg/kg	
			OU4-KREEG-(50,250)	3/20/2001	5	mg/kg	
			OU4-KREEG-(50,270)	3/20/2001	3.6	mg/kg	
			OU4-KREEG-(50,290)	3/20/2001	25.7	mg/kg	
			OU4-KREEG-(50,310)	3/20/2001	134	mg/kg	
			OU4-KREEG-(50-330)	4/20/2001	103	mg/kg	
			OU4-KREEG-(50-350)	4/20/2001	44.6	mg/kg	
			OU4-KREEG-(50-370)	4/20/2001	13.1	mg/kg	
			OU4-KREEG-(50-390)	4/20/2001	16.9	mg/kg	
			OU4-KREEG-(50-410)	4/20/2001	70.9	mg/kg	
			OU4-KREEG-(50-430)	4/20/2001	68.4	mg/kg	
			OU4-KREEG-(70,250)	3/20/2001	2.2 J	mg/kg	
			OU4-KREEG-(70,270)	3/20/2001	8.1	mg/kg	
			OU4-KREEG-(70,290)	3/20/2001	2.9	mg/kg	
			OU4-KREEG-(70,330)	3/22/2001	26.5	mg/kg	
			OU4-KREEG-(70,350)	3/22/2001	7.4	mg/kg	
			OU4-KREEG-(70,370)	3/22/2001	6	mg/kg	
			OU4-KREEG-(70-310)	4/20/2001	1.8 J	mg/kg	
			OU4-KREEG-(70-390)	4/20/2001	6.4	mg/kg	
			OU4-KREEG-(90,190)	3/20/2001	17.2	mg/kg	
			OU4-KREEG-(90,210)	3/20/2001	5.8	mg/kg	
			OU4-KREEG-(90,230)	3/20/2001	6.3	mg/kg	
			OU4-KREEG-(90,250)	3/20/2001	5.2	mg/kg	
			OU4-KREEG-(90,270)	3/20/2001	3.2	mg/kg	
			OU4-KREEG-(90,290)	3/20/2001	3.6 J	mg/kg	
			OU4-KREEG-(90,330)	3/22/2001	3.6 J	mg/kg	
			OU4-KREEG-(90,350)	3/22/2001	2.2 J	mg/kg	
			OU4-KREEG-(90,370)	3/22/2001	7.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-KREEG-(90-310)	4/20/2001	5.4	mg/kg	
			OU4-KREEG-(90-390)	4/20/2001	7.1	mg/kg	
			OU4-KREEG-DUP01	3/22/2001	3.8	mg/kg	OU4-KREEG-(230,150)
			OU4-KREEG-DUP02	3/23/2001	4.9	mg/kg	OU4-KREEG-(290,10)
			OU4-KREEG-DUP03	4/20/2001	15.7	mg/kg	OU4-KREEG-(90,230)
			OU4-KREEG-DUP04	3/22/2001	5	mg/kg	OU4-KREEG-(150,270)
			OU4-KREEG-DUP05	3/23/2001	8.3	mg/kg	OU4-KREEG-(290,30)
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 32*					
			OU4-WATKN-(330,50)	3/23/2001	6.9	mg/kg	
			OU4-WATKN-(330,70)	3/23/2001	7.6	mg/kg	
			OU4-WATKN-(330,90)	3/23/2001	6.3	mg/kg	
			OU4-WATKN-(350,30)	3/23/2001	9	mg/kg	
			OU4-WATKN-(350,50)	3/23/2001	2.4 J	mg/kg	
			OU4-WATKN-(350,70)	3/23/2001	4.4	mg/kg	
			OU4-WATKN-(350,90)	3/23/2001	5.2	mg/kg	
			OU4-WATKN-(370,10)	3/23/2001	8.2	mg/kg	
			OU4-WATKN-(370,30)	3/23/2001	82.4	mg/kg	
			OU4-WATKN-(370,50)	3/23/2001	5.1	mg/kg	
			OU4-WATKN-(390,10)	3/23/2001	6.8	mg/kg	
			OU4-WATKN-(390,30)	3/23/2001	4	mg/kg	
			OU4-WATKN-(390,50)	3/23/2001	4.5	mg/kg	
			OU4-WATKN-(410,10)	3/23/2001	6.1	mg/kg	
			OU4-WATKN-(410,30)	3/23/2001	6.6	mg/kg	
			OU4-WATKN-(410,50)	3/23/2001	4.5	mg/kg	
			OU4-WATKN-(430,10)	3/23/2001	6.3	mg/kg	
			OU4-WATKN-(430,30)	3/23/2001	6	mg/kg	
			OU4-WATKN-DUP01	3/23/2001	8.6	mg/kg	OU4-WATKN-(370,10)
CSA	*9*	*4400 Massachusetts Avenue, Lot 33*					
			OU5-CSA-9-L33-(100,100)	1/18/2002	3.5	mg/kg	
			OU5-CSA-9-L33-(100,120)	1/18/2002	5.8	mg/kg	
			OU5-CSA-9-L33-(100,140)	1/18/2002	11.2	mg/kg	
			OU5-CSA-9-L33-(100,160)	1/18/2002	27	mg/kg	
			OU5-CSA-9-L33-(100,180)	1/18/2002	26.8	mg/kg	
			OU5-CSA-9-L33-(100,60)	1/18/2002	5.7	mg/kg	
			OU5-CSA-9-L33-(100,80)	1/18/2002	4.4	mg/kg	
			OU5-CSA-9-L33-(120,100)	1/18/2002	2.9	mg/kg	
			OU5-CSA-9-L33-(120,120)	1/18/2002	8.5	mg/kg	
			OU5-CSA-9-L33-(120,140)	1/18/2002	20.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-9-L33-(120,160)	1/18/2002	7.5	mg/kg	
			OU5-CSA-9-L33-(120,180)	1/18/2002	7	mg/kg	
			OU5-CSA-9-L33-(120,40)	1/18/2002	5.1	mg/kg	
			OU5-CSA-9-L33-(120,60)	1/18/2002	5.3	mg/kg	
			OU5-CSA-9-L33-(120,80)	1/18/2002	6.7	mg/kg	
			OU5-CSA-9-L33-(140,100)	1/18/2002	8.3	mg/kg	
			OU5-CSA-9-L33-(140,120)	1/18/2002	4.3	mg/kg	
			OU5-CSA-9-L33-(140,140)	1/18/2002	23	mg/kg	
			OU5-CSA-9-L33-(140,160)	1/18/2002	4.7	mg/kg	
			OU5-CSA-9-L33-(140,180)	1/18/2002	5.5	mg/kg	
			OU5-CSA-9-L33-(140,20)	1/18/2002	4.4	mg/kg	
			OU5-CSA-9-L33-(140,40)	1/18/2002	3.8	mg/kg	
			OU5-CSA-9-L33-(140,60)	1/18/2002	6.9	mg/kg	
			OU5-CSA-9-L33-(140,80)	1/18/2002	5.7	mg/kg	
			OU5-CSA-9-L33-(160,100)	1/18/2002	2.8	mg/kg	
			OU5-CSA-9-L33-(160,120)	1/18/2002	5.4	mg/kg	
			OU5-CSA-9-L33-(160,140)	1/18/2002	42.3	mg/kg	
			OU5-CSA-9-L33-(160,160)	1/18/2002	6.4	mg/kg	
			OU5-CSA-9-L33-(160,180)	1/18/2002	4	mg/kg	
			OU5-CSA-9-L33-(160,20)	1/18/2002	2.7	mg/kg	
			OU5-CSA-9-L33-(160,200)	1/18/2002	4.6	mg/kg	
			OU5-CSA-9-L33-(160,40)	1/18/2002	3.2	mg/kg	
			OU5-CSA-9-L33-(180,100)	1/18/2002	4	mg/kg	
			OU5-CSA-9-L33-(180,120)	1/18/2002	11.1	mg/kg	
			OU5-CSA-9-L33-(180,160)	1/18/2002	6.3	mg/kg	
			OU5-CSA-9-L33-(180,180)	1/18/2002	3.9	mg/kg	
			OU5-CSA-9-L33-(180,20)	1/18/2002	4.9	mg/kg	
			OU5-CSA-9-L33-(180,40)	1/18/2002	5.8	mg/kg	
			OU5-CSA-9-L33-(180,80)	1/18/2002	8.4	mg/kg	
			OU5-CSA-9-L33-(20,160)	1/18/2002	25.8	mg/kg	
			OU5-CSA-9-L33-(200,100)	1/18/2002	1.8 J	mg/kg	
			OU5-CSA-9-L33-(200,140)	1/18/2002	4.8	mg/kg	
			OU5-CSA-9-L33-(200,80)	1/18/2002	1.5 J	mg/kg	
			OU5-CSA-9-L33-(40,140)	1/18/2002	22.8	mg/kg	
			OU5-CSA-9-L33-(40,160)	1/18/2002	22.3	mg/kg	
			OU5-CSA-9-L33-(60,100)	1/18/2002	5.2	mg/kg	
			OU5-CSA-9-L33-(60,160)	1/18/2002	24	mg/kg	
			OU5-CSA-9-L33-(60,80)	1/18/2002	5.6	mg/kg	
			OU5-CSA-9-L33-(80,100)	1/18/2002	4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-9-L33-(80,120)	1/18/2002	4.4	mg/kg	
			OU5-CSA-9-L33-(80,140)	1/18/2002	17.4	mg/kg	
			OU5-CSA-9-L33-(80,160)	1/18/2002	74.5	mg/kg	
			OU5-CSA-9-L33-(80,180)	1/18/2002	18.9	mg/kg	
			OU5-CSA-9-L33-(80,80)	1/18/2002	4.4	mg/kg	
			OU5-CSA-9-L33-DUP01	1/18/2002	5	mg/kg	OU5-CSA-9-L33-(180,160)
			OU5-CSA-9-L33-DUP02	1/18/2002	31.6	mg/kg	OU5-CSA-9-L33-(40,160)
			OU5-CSA-9-L33-DUP03	1/18/2002	17.1	mg/kg	OU5-CSA-9-L33-(100,180)
			OU5-CSA-9-L33-SB1	1/14/2002	6 J	mg/kg	
CSA	9	4400 Massachusetts Avenue, Lot 34					
			OU5-CSA-9-L34-(100,180)	1/18/2002	5.4	mg/kg	
			OU5-CSA-9-L34-(100,20)	1/18/2002	42.2	mg/kg	
			OU5-CSA-9-L34-(100,40)	1/18/2002	16.1	mg/kg	
			OU5-CSA-9-L34-(100,60)	1/18/2002	23.8	mg/kg	
			OU5-CSA-9-L34-(100,80)	1/18/2002	10.3	mg/kg	
			OU5-CSA-9-L34-(120,100)	1/18/2002	14.6	mg/kg	
			OU5-CSA-9-L34-(120,40)	1/18/2002	23.9	mg/kg	
			OU5-CSA-9-L34-(120,60)	1/18/2002	10.2	mg/kg	
			OU5-CSA-9-L34-(120,80)	1/18/2002	6.9	mg/kg	
			OU5-CSA-9-L34-(140,100)	1/18/2002	6.1	mg/kg	
			OU5-CSA-9-L34-(140,40)	1/18/2002	19.2	mg/kg	
			OU5-CSA-9-L34-(140,60)	1/18/2002	10.2	mg/kg	
			OU5-CSA-9-L34-(140,80)	1/18/2002	6.5	mg/kg	
			OU5-CSA-9-L34-(160,140)	1/18/2002	4.5	mg/kg	
			OU5-CSA-9-L34-(160,160)	1/18/2002	5.1	mg/kg	
			OU5-CSA-9-L34-(160,180)	1/18/2002	4.6	mg/kg	
			OU5-CSA-9-L34-(160,40)	1/18/2002	5.8	mg/kg	
			OU5-CSA-9-L34-(160,60)	1/18/2002	4	mg/kg	
			OU5-CSA-9-L34-(160,80)	1/18/2002	3.1	mg/kg	
			OU5-CSA-9-L34-(180,100)	1/18/2002	4.4	mg/kg	
			OU5-CSA-9-L34-(180,120)	1/18/2002	6.1	mg/kg	
			OU5-CSA-9-L34-(180,140)	1/18/2002	7.7	mg/kg	
			OU5-CSA-9-L34-(180,160)	1/18/2002	4.6	mg/kg	
			OU5-CSA-9-L34-(180,180)	1/18/2002	6.1	mg/kg	
			OU5-CSA-9-L34-(180,200)	1/18/2002	6.1	mg/kg	
			OU5-CSA-9-L34-(180,60)	1/18/2002	4.4	mg/kg	
			OU5-CSA-9-L34-(180,80)	1/18/2002	4.2	mg/kg	
			OU5-CSA-9-L34-(20,100)	1/18/2002	6.7	mg/kg	
			OU5-CSA-9-L34-(20,120)	1/18/2002	5.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CSA-9-L34-(200,100)	1/18/2002	3.6	mg/kg	
			OU5-CSA-9-L34-(200,120)	1/18/2002	5.4	mg/kg	
			OU5-CSA-9-L34-(200,140)	1/18/2002	7.8	mg/kg	
			OU5-CSA-9-L34-(200,160)	1/18/2002	5.3	mg/kg	
			OU5-CSA-9-L34-(200,60)	1/18/2002	6.4	mg/kg	
			OU5-CSA-9-L34-(200,80)	1/18/2002	3.7	mg/kg	
			OU5-CSA-9-L34-(220,100)	1/18/2002	3.8	mg/kg	
			OU5-CSA-9-L34-(220,60)	1/18/2002	3.8	mg/kg	
			OU5-CSA-9-L34-(220,80)	1/18/2002	4	mg/kg	
			OU5-CSA-9-L34-(40,100)	1/18/2002	4.9	mg/kg	
			OU5-CSA-9-L34-(40,120)	1/18/2002	7.6	mg/kg	
			OU5-CSA-9-L34-(40,140)	1/18/2002	6.5	mg/kg	
			OU5-CSA-9-L34-(60,20)	1/18/2002	20.6	mg/kg	
			OU5-CSA-9-L34-(60,40)	1/18/2002	5.1	mg/kg	
			OU5-CSA-9-L34-(80,160)	1/18/2002	4.8	mg/kg	
			OU5-CSA-9-L34-(80,20)	1/18/2002	35.5	mg/kg	
			OU5-CSA-9-L34-(80,40)	1/18/2002	19.9	mg/kg	
			OU5-CSA-9-L34-(80,60)	1/18/2002	5	mg/kg	
			OU5-CSA-9-L34-DUP01	1/18/2002	7.4	mg/kg	OU5-CSA-9-L34-(20,120)
			OU5-CSA-9-L34-DUP02	1/18/2002	4.5	mg/kg	OU5-CSA-9-L34-(160,140)
			OU5-CSA-9-L34-SB1	1/14/2002	6 J	mg/kg	
OU4	*OU4*	*4400 Massachusetts Avenue, Lot 8*					
			OU4-AU08-(330,430)	3/13/2001	11.7 J	mg/kg	
			OU4-AU08-(350,410)	3/13/2001	31.6 J	mg/kg	
			OU4-AU08-(350,430)	3/13/2001	22.6 J	mg/kg	
			OU4-AU08-(350,450)	3/13/2001	10.2 J	mg/kg	
			OU4-AU08-(350,470)	3/13/2001	7.52 J	mg/kg	
			OU4-AU08-(370,390)	3/13/2001	9.27 J	mg/kg	
			OU4-AU08-(370,410)	3/13/2001	6.64 J	mg/kg	
			OU4-AU08-(370,430)	3/13/2001	10.1 J	mg/kg	
			OU4-AU08-(370,450)	3/13/2001	6.71 J	mg/kg	
			OU4-AU08-(370,470)	3/13/2001	10.8	mg/kg	
			OU4-AU08-(370,490)	3/13/2001	4.06 J	mg/kg	
			OU4-AU08-(390,370)	3/13/2001	3.78 J	mg/kg	
			OU4-AU08-(390,390)	3/13/2001	5.2 J	mg/kg	
			OU4-AU08-(390,410)	3/13/2001	5.94 J	mg/kg	
			OU4-AU08-(390,430)	3/13/2001	5.21 J	mg/kg	
			OU4-AU08-(390,450)	3/13/2001	8.99	mg/kg	
			OU4-AU08-(390,470)	3/13/2001	8.87	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU08-(390,490)	3/13/2001	4.2	mg/kg	
			OU4-AU08-(390,510)	3/13/2001	4.47 J	mg/kg	
			OU4-AU08-(410,350)	3/13/2001	3.87 J	mg/kg	
			OU4-AU08-(410,370)	3/13/2001	6.28 J	mg/kg	
			OU4-AU08-(410,390)	3/13/2001	4.86 J	mg/kg	
			OU4-AU08-(410,410)	3/13/2001	8.96 J	mg/kg	
			OU4-AU08-(410,430)	3/13/2001	12.7 J	mg/kg	
			OU4-AU08-(410,450)	3/13/2001	12.3	mg/kg	
			OU4-AU08-(410,470)	3/13/2001	12.7	mg/kg	
			OU4-AU08-(410,490)	3/12/2001	6.52	mg/kg	
			OU4-AU08-(410,510)	3/12/2001	6.4 J	mg/kg	
			OU4-AU08-(410,530)	3/12/2001	4.55	mg/kg	
			OU4-AU08-(410,550)	3/12/2001	4.08	mg/kg	
			OU4-AU08-(430,330)	3/13/2001	4.7 J	mg/kg	
			OU4-AU08-(430,350)	3/13/2001	5.45 J	mg/kg	
			OU4-AU08-(430,370)	3/13/2001	3.09 J	mg/kg	
			OU4-AU08-(430,390)	3/13/2001	3.42 J	mg/kg	
			OU4-AU08-(430,410)	3/13/2001	3.89	mg/kg	
			OU4-AU08-(430,430)	3/13/2001	10.7	mg/kg	
			OU4-AU08-(430,450)	3/13/2001	9.25 J	mg/kg	
			OU4-AU08-(430,470)	3/12/2001	12.7 J	mg/kg	
			OU4-AU08-(430,490)	3/12/2001	9.14	mg/kg	
			OU4-AU08-(430,510)	3/12/2001	5.05	mg/kg	
			OU4-AU08-(430,530)	3/12/2001	5.89	mg/kg	
			OU4-AU08-(430,550)	3/12/2001	4.81 J	mg/kg	
			OU4-AU08-(450,310)	3/13/2001	6.77 J	mg/kg	
			OU4-AU08-(450,330)	3/13/2001	5.48 J	mg/kg	
			OU4-AU08-(450,350)	3/13/2001	6.13 J	mg/kg	
			OU4-AU08-(450,370)	3/13/2001	4.2 J	mg/kg	
			OU4-AU08-(450,390)	3/13/2001	3.72	mg/kg	
			OU4-AU08-(450,410)	3/13/2001	5.2	mg/kg	
			OU4-AU08-(450,430)	3/13/2001	8.06	mg/kg	
			OU4-AU08-(450,450)	3/12/2001	7.91	mg/kg	
			OU4-AU08-(450,470)	3/12/2001	3.71 J	mg/kg	
			OU4-AU08-(450,490)	3/12/2001	7.56 J	mg/kg	
			OU4-AU08-(450,510)	3/12/2001	5.54 J	mg/kg	
			OU4-AU08-(450,530)	3/12/2001	5.16	mg/kg	
			OU4-AU08-(470,290)	3/13/2001	5.72 J	mg/kg	
			OU4-AU08-(470,310)	3/13/2001	6.91 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-AU08-(470,330)	3/13/2001	6.31 J	mg/kg	
			OU4-AU08-(470,350)	3/13/2001	5.16	mg/kg	
			OU4-AU08-(470,370)	3/13/2001	6.55	mg/kg	
			OU4-AU08-(470,390)	3/13/2001	5.92 J	mg/kg	
			OU4-AU08-(470,410)	3/13/2001	7.05	mg/kg	
			OU4-AU08-(470,430)	3/12/2001	5.75	mg/kg	
			OU4-AU08-(470,450)	3/12/2001	6.12	mg/kg	
			OU4-AU08-(470,470)	3/12/2001	8.35	mg/kg	
			OU4-AU08-(470,490)	3/12/2001	3.94	mg/kg	
			OU4-AU08-(470,510)	3/13/2001	5.69 J	mg/kg	
			OU4-AU08-(490,270)	3/13/2001	6.76 J	mg/kg	
			OU4-AU08-(490,310)	3/13/2001	8.39 J	mg/kg	
			OU4-AU08-(490,330)	3/13/2001	8.25 J	mg/kg	
			OU4-AU08-(490,350)	3/13/2001	6.29	mg/kg	
			OU4-AU08-(490,370)	3/13/2001	3.6 J	mg/kg	
			OU4-AU08-(490,390)	3/13/2001	2.88 J	mg/kg	
			OU4-AU08-(490,410)	3/12/2001	2.87 J	mg/kg	
			OU4-AU08-(490,430)	3/12/2001	9.56	mg/kg	
			OU4-AU08-(490,450)	3/12/2001	3.39	mg/kg	
			OU4-AU08-(490,470)	3/12/2001	5.86	mg/kg	
			OU4-AU08-(490,490)	3/13/2001	7.69 J	mg/kg	
			OU4-AU08-(510,270)	3/13/2001	6.18 J	mg/kg	
			OU4-AU08-(510,290)	3/13/2001	7.14 J	mg/kg	
			OU4-AU08-(510,310)	3/13/2001	8.93 J	mg/kg	
			OU4-AU08-(510,350)	3/13/2001	8.52	mg/kg	
			OU4-AU08-(510,370)	3/13/2001	7.71 J	mg/kg	
			OU4-AU08-(510,390)	3/12/2001	9.09 J	mg/kg	
			OU4-AU08-(510,410)	3/12/2001	0.75	mg/kg	
			OU4-AU08-(510,430)	3/12/2001	8.02	mg/kg	
			OU4-AU08-(510,450)	3/12/2001	4.37	mg/kg	
			OU4-AU08-(530,290)	3/13/2001	6.2 J	mg/kg	
			OU4-AU08-(530,310)	3/13/2001	7.06 J	mg/kg	
			OU4-AU08-(530,330)	3/13/2001	5.26 J	mg/kg	
			OU4-AU08-(530,350)	3/13/2001	7.63	mg/kg	
			OU4-AU08-(530,370)	3/13/2001	7.89	mg/kg	
			OU4-AU08-(530,390)	3/12/2001	8.15 J	mg/kg	
			OU4-AU08-(530,410)	3/12/2001	6.44	mg/kg	
			OU4-AU08-(530,430)	3/12/2001	3.9 J	mg/kg	
			OU4-AU08-(550,330)	3/13/2001	8.49 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU4-AU08-(550,390)	3/13/2001	6.22	mg/kg	
			OU4-AU08-(570,350)	3/13/2001	5.16 J	mg/kg	
			OU4-AU08-(570,370)	3/13/2001	9.95	mg/kg	
			OU4-AU08-(590,350)	3/13/2001	6.46	mg/kg	
			OU4-AU08-DUP-01	3/13/2001	3.49 J	mg/kg	OU4-AU8-(490,390)
			OU4-AU08-DUP-02	3/13/2001	5.46 J	mg/kg	OU4-AU8-(430,330)
			OU4-AU08-DUP-03	3/13/2001	8.23 J	mg/kg	OU4-AU8-(450,310)
			OU4-AU08-DUP-04	3/13/2001	34.2 J	mg/kg	OU4-AU8-(350,410)
			OU4-AU08-DUP-05	3/12/2001	5.11	mg/kg	OU4-AU8-(470,490)
			OU4-AU08-DUP-06	3/13/2001	11.2 J	mg/kg	OU4-AU8-(330,430)
CSA	8	4427 Springdale Street					
			OU5-CSA-8-4427SS-(100,100)	1/17/2002	6.6	mg/kg	
			OU5-CSA-8-4427SS-(100,120)	1/17/2002	4.7	mg/kg	
			OU5-CSA-8-4427SS-(100,20)	1/17/2002	106	mg/kg	
			OU5-CSA-8-4427SS-(100,40)	1/17/2002	39.1	mg/kg	
			OU5-CSA-8-4427SS-(100,60)	1/17/2002	135	mg/kg	
			OU5-CSA-8-4427SS-(100,80)	1/17/2002	8.4	mg/kg	
			OU5-CSA-8-4427SS-(120,40)	1/17/2002	85	mg/kg	
			OU5-CSA-8-4427SS-(120,60)	1/17/2002	24.7	mg/kg	
			OU5-CSA-8-4427SS-(120,80)	1/17/2002	11.6	mg/kg	
			OU5-CSA-8-4427SS-(40,100)	1/17/2002	36.5	mg/kg	
			OU5-CSA-8-4427SS-(40,120)	1/17/2002	6.2	mg/kg	
			OU5-CSA-8-4427SS-(40,140)	1/17/2002	7.9	mg/kg	
			OU5-CSA-8-4427SS-(40,80)	1/17/2002	45.9	mg/kg	
			OU5-CSA-8-4427SS-(60,100)	1/17/2002	11.5	mg/kg	
			OU5-CSA-8-4427SS-(60,120)	1/17/2002	6.8	mg/kg	
			OU5-CSA-8-4427SS-(60,140)	1/17/2002	8	mg/kg	
			OU5-CSA-8-4427SS-(60,40)	1/17/2002	17.1	mg/kg	
			OU5-CSA-8-4427SS-(60,60)	1/17/2002	83.4	mg/kg	
			OU5-CSA-8-4427SS-(60,80)	1/17/2002	17.6	mg/kg	
			OU5-CSA-8-4427SS-(80,100)	1/17/2002	7.3	mg/kg	
			OU5-CSA-8-4427SS-(80,120)	1/17/2002	4.8	mg/kg	
			OU5-CSA-8-4427SS-(80,140)	1/17/2002	7.2	mg/kg	
			OU5-CSA-8-4427SS-(80,20)	1/17/2002	76.2	mg/kg	
			OU5-CSA-8-4427SS-(80,40)	1/17/2002	114	mg/kg	
			OU5-CSA-8-4427SS-(80,60)	1/17/2002	9.5	mg/kg	
			OU5-CSA-8-4427SS-DUP01	1/17/2002	19.9	mg/kg	OU5-CSA-8-4427SS-(120,60)
			OU5-CSA-8-4427SS-SB1	1/14/2002	12.8 J	mg/kg	
			OU5-CSA-8-4427SS-SB2	1/14/2002	11.2 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4427SS-SB3	1/14/2002	7.5 J	mg/kg	
			OU5-CSA-8-4427SS-SB4	1/14/2002	5.7 J	mg/kg	
			OU5-CSA-8-4427SS-SB5	1/14/2002	1.4 J	mg/kg	
			OU5-CSA-8-4427SS-SB6	1/14/2002	1.7 J	mg/kg	
			OU5-CSA-8-4427SS-SB7	1/14/2002	1.8 J	mg/kg	
CSA	8	4428 Sedgwick Street					
			OU5-CSA-8-4428SegS-(100,100)	12/18/2001	17.6 L	mg/kg	
			OU5-CSA-8-4428SegS-(100,120)	12/18/2001	17 L	mg/kg	
			OU5-CSA-8-4428SegS-(100,140)	12/18/2001	13.9 L	mg/kg	
			OU5-CSA-8-4428SegS-(100,40)	12/18/2001	22.4 L	mg/kg	
			OU5-CSA-8-4428SegS-(100,60)	12/18/2001	20.6 L	mg/kg	
			OU5-CSA-8-4428SegS-(100,80)	12/18/2001	8.4 L	mg/kg	
			OU5-CSA-8-4428SegS-(120,100)	12/18/2001	13.8 L	mg/kg	
			OU5-CSA-8-4428SegS-(120,40)	12/18/2001	20.7 L	mg/kg	
			OU5-CSA-8-4428SegS-(120,60)	12/18/2001	2.1 JL	mg/kg	
			OU5-CSA-8-4428SegS-(120,80)	12/18/2001	17.7 L	mg/kg	
			OU5-CSA-8-4428SegS-(140,40)	12/18/2001	23.5 L	mg/kg	
			OU5-CSA-8-4428SegS-(140,60)	12/18/2001	22.5 L	mg/kg	
			OU5-CSA-8-4428SegS-(20,120)	12/18/2001	24.8 L	mg/kg	
			OU5-CSA-8-4428SegS-(20,140)	12/18/2001	13.8 L	mg/kg	
			OU5-CSA-8-4428SegS-(40,100)	12/18/2001	13.3 L	mg/kg	
			OU5-CSA-8-4428SegS-(40,120)	12/18/2001	17 L	mg/kg	
			OU5-CSA-8-4428SegS-(40,140)	12/18/2001	11.1 L	mg/kg	
			OU5-CSA-8-4428SegS-(40,80)	12/18/2001	12.6 L	mg/kg	
			OU5-CSA-8-4428SegS-(60,100)	12/18/2001	28.9 L	mg/kg	
			OU5-CSA-8-4428SegS-(60,120)	12/18/2001	22.2 L	mg/kg	
			OU5-CSA-8-4428SegS-(60,140)	12/18/2001	9 L	mg/kg	
			OU5-CSA-8-4428SegS-(60,160)	12/18/2001	5.5 L	mg/kg	
			OU5-CSA-8-4428SegS-(60,40)	12/18/2001	10.1 L	mg/kg	
			OU5-CSA-8-4428SegS-(60,60)	12/18/2001	36.5 L	mg/kg	
			OU5-CSA-8-4428SegS-(60,80)	12/18/2001	8.8 L	mg/kg	
			OU5-CSA-8-4428SegS-(80,120)	12/18/2001	55.9 L	mg/kg	
			OU5-CSA-8-4428SegS-(80,140)	12/18/2001	12.3 L	mg/kg	
			OU5-CSA-8-4428SegS-(80,160)	12/18/2001	15 L	mg/kg	
			OU5-CSA-8-4428SegS-(80,20)	12/18/2001	14 L	mg/kg	
			OU5-CSA-8-4428SegS-(80,40)	12/18/2001	13.7 L	mg/kg	
			OU5-CSA-8-4428SegS-(80,60)	12/18/2001	10.4 L	mg/kg	
			OU5-CSA-8-4428SegS-DUP01	12/18/2001	21.3 L	mg/kg	OU5-CSA-8-4428SegS-(140,60)
			OU5-CSA-8-4428SegS-DUP02	12/18/2001	15.1 L	mg/kg	OU5-CSA-8-4428SegS-(80,140)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4428SegS-SB1	12/17/2001	7.2	mg/kg	
CSA	8	4430 Tindall Street					
			OU5-CSA-8-4430TinS-(100,20)	1/22/2002	11.1	mg/kg	
			OU5-CSA-8-4430TinS-(100,40)	1/22/2002	9.1	mg/kg	
			OU5-CSA-8-4430TinS-(100,60)	1/22/2002	8.3	mg/kg	
			OU5-CSA-8-4430TinS-(100,80)	1/22/2002	9.1	mg/kg	
			OU5-CSA-8-4430TinS-(120,40)	1/22/2002	7.9	mg/kg	
			OU5-CSA-8-4430TinS-(20,100)	1/22/2002	6.8	mg/kg	
			OU5-CSA-8-4430TinS-(20,120)	1/22/2002	12.1	mg/kg	
			OU5-CSA-8-4430TinS-(40,100)	1/22/2002	10.1	mg/kg	
			OU5-CSA-8-4430TinS-(40,120)	1/22/2002	9.1	mg/kg	
			OU5-CSA-8-4430TinS-(40,60)	1/22/2002	6.1	mg/kg	
			OU5-CSA-8-4430TinS-(40,80)	1/22/2002	8.3	mg/kg	
			OU5-CSA-8-4430TinS-(60,100)	1/22/2002	8.9	mg/kg	
			OU5-CSA-8-4430TinS-(60,120)	1/22/2002	8.9	mg/kg	
			OU5-CSA-8-4430TinS-(60,140)	1/22/2002	8.1	mg/kg	
			OU5-CSA-8-4430TinS-(60,20)	1/22/2002	8.4	mg/kg	
			OU5-CSA-8-4430TinS-(60,40)	1/22/2002	9.8	mg/kg	
			OU5-CSA-8-4430TinS-(60,60)	1/22/2002	6.9	mg/kg	
			OU5-CSA-8-4430TinS-(80,100)	1/22/2002	9.4	mg/kg	
			OU5-CSA-8-4430TinS-(80,120)	1/22/2002	8.1	mg/kg	
			OU5-CSA-8-4430TinS-(80,20)	1/22/2002	10.9	mg/kg	
			OU5-CSA-8-4430TinS-(80,40)	1/22/2002	10.7	mg/kg	
			OU5-CSA-8-4430TinS-(80,60)	1/22/2002	3.8	mg/kg	
			OU5-CSA-8-4430TinS-DUP01	1/22/2002	8.6	mg/kg	OU5-CSA-8-4430TinS-(100,40)
			OU5-CSA-8-4430TinS-SB1	1/21/2002	6.4	mg/kg	
CSA	8	4434 Tindall Street					
			OU5-CSA-8-4434TinS-(100,100)	11/2/2001	11.6	mg/kg	
			OU5-CSA-8-4434TinS-(100,120)	11/2/2001	13	mg/kg	
			OU5-CSA-8-4434TinS-(100,140)	11/2/2001	11.6	mg/kg	
			OU5-CSA-8-4434TinS-(100,160)	11/2/2001	5.4	mg/kg	
			OU5-CSA-8-4434TinS-(100,80)	11/2/2001	10.9	mg/kg	
			OU5-CSA-8-4434TinS-(120,120)	11/2/2001	13.2	mg/kg	
			OU5-CSA-8-4434TinS-(120,140)	11/2/2001	9.3	mg/kg	
			OU5-CSA-8-4434TinS-(120,160)	11/2/2001	9.4	mg/kg	
			OU5-CSA-8-4434TinS-(120,40)	11/2/2001	8.3	mg/kg	
			OU5-CSA-8-4434TinS-(120,60)	11/2/2001	11.7	mg/kg	
			OU5-CSA-8-4434TinS-(120,80)	11/2/2001	6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4434TinS-(140,100)	11/2/2001	8.6	mg/kg	
			OU5-CSA-8-4434TinS-(140,120)	11/2/2001	11.8	mg/kg	
			OU5-CSA-8-4434TinS-(140,140)	11/2/2001	9.2	mg/kg	
			OU5-CSA-8-4434TinS-(140,40)	11/2/2001	12.4	mg/kg	
			OU5-CSA-8-4434TinS-(140,60)	11/2/2001	9.9	mg/kg	
			OU5-CSA-8-4434TinS-(160,100)	11/2/2001	66.5	mg/kg	
			OU5-CSA-8-4434TinS-(160,40)	11/2/2001	8.7	mg/kg	
			OU5-CSA-8-4434TinS-(160,60)	11/2/2001	13	mg/kg	
			OU5-CSA-8-4434TinS-(160,80)	11/2/2001	195	mg/kg	
			OU5-CSA-8-4434TinS-(180,60)	11/2/2001	149	mg/kg	
			OU5-CSA-8-4434TinS-(80,120)	11/2/2001	6.9	mg/kg	
			OU5-CSA-8-4434TinS-(80,140)	11/2/2001	10.5	mg/kg	
			OU5-CSA-8-4434TinS-DUP01	11/2/2001	11	mg/kg	OU5-CSA-8-4434TinS-(100,100)
			OU5-CSA-8-4434TinS-SB1	10/29/2001	2.3 J	mg/kg	
CSA	6	4437 Warren Street					
			OU5-CSA-6-4437WS-(100,40)	2/25/2002	8.9	mg/kg	
			OU5-CSA-6-4437WS-(100,60)	2/25/2002	23.5	mg/kg	
			OU5-CSA-6-4437WS-(100,80)	2/25/2002	5.9	mg/kg	
			OU5-CSA-6-4437WS-(120,40)	2/25/2002	6.5	mg/kg	
			OU5-CSA-6-4437WS-(120,60)	2/25/2002	19.6	mg/kg	
			OU5-CSA-6-4437WS-(120,80)	2/25/2002	6.2	mg/kg	
			OU5-CSA-6-4437WS-(140,100)	2/25/2002	10.9	mg/kg	
			OU5-CSA-6-4437WS-(140,60)	2/25/2002	3.8	mg/kg	
			OU5-CSA-6-4437WS-(140,80)	2/25/2002	9.4	mg/kg	
			OU5-CSA-6-4437WS-(160,60)	2/25/2002	6.4	mg/kg	
			OU5-CSA-6-4437WS-(20,40)	2/25/2002	3.1	mg/kg	
			OU5-CSA-6-4437WS-(20,60)	2/25/2002	2.7	mg/kg	
			OU5-CSA-6-4437WS-(40,20)	2/25/2002	3.6	mg/kg	
			OU5-CSA-6-4437WS-(40,40)	2/25/2002	3.6	mg/kg	
			OU5-CSA-6-4437WS-(40,60)	2/25/2002	3.3	mg/kg	
			OU5-CSA-6-4437WS-(60,20)	2/25/2002	5.9	mg/kg	
			OU5-CSA-6-4437WS-(60,40)	2/25/2002	5.6	mg/kg	
			OU5-CSA-6-4437WS-(60,60)	2/25/2002	4.7	mg/kg	
			OU5-CSA-6-4437WS-(80,20)	2/25/2002	3.6	mg/kg	
			OU5-CSA-6-4437WS-(80,40)	2/25/2002	3.8	mg/kg	
			OU5-CSA-6-4437WS-(80,60)	2/25/2002	3.8	mg/kg	
			OU5-CSA-6-4437WS-(80,80)	2/25/2002	5.7	mg/kg	
			OU5-CSA-6-4437WS-DUP01	2/25/2002	6.2	mg/kg	OU5-CSA-6-4437WS-(60,40)
			OU5-CSA-6-4437WS-SB1	2/28/2002	2.8	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
CSA	8	4438 Tindall Street					
			OU5-CSA-8-4438TinS-(140,140)	9/25/2001	11	mg/kg	
			OU5-CSA-8-4438TinS-(140,160)	9/25/2001	109	mg/kg	
			OU5-CSA-8-4438TinS-(140,180)	9/25/2001	8.3	mg/kg	
			OU5-CSA-8-4438TinS-(160,100)	9/25/2001	37	mg/kg	
			OU5-CSA-8-4438TinS-(160,120)	9/25/2001	79	mg/kg	
			OU5-CSA-8-4438TinS-(160,140)	9/25/2001	46	mg/kg	
			OU5-CSA-8-4438TinS-(160,160)	9/25/2001	46	mg/kg	
			OU5-CSA-8-4438TinS-(160,180)	9/25/2001	18	mg/kg	
			OU5-CSA-8-4438TinS-(180,100)	9/25/2001	185	mg/kg	
			OU5-CSA-8-4438TinS-(180,140)	9/25/2001	286	mg/kg	
			OU5-CSA-8-4438TinS-(180,160)	9/25/2001	67	mg/kg	
			OU5-CSA-8-4438TinS-(180,180)	9/25/2001	59	mg/kg	
			OU5-CSA-8-4438TinS-(180,60)	9/25/2001	100	mg/kg	
			OU5-CSA-8-4438TinS-(180,80)	9/25/2001	225	mg/kg	
			OU5-CSA-8-4438TinS-(200,100)	9/25/2001	18	mg/kg	
			OU5-CSA-8-4438TinS-(200,120)	9/25/2001	42	mg/kg	
			OU5-CSA-8-4438TinS-(200,140)	9/25/2001	112	mg/kg	
			OU5-CSA-8-4438TinS-(200,160)	9/25/2001	99	mg/kg	
			OU5-CSA-8-4438TinS-(200,60)	9/25/2001	74	mg/kg	
			OU5-CSA-8-4438TinS-(200,80)	9/25/2001	277	mg/kg	
			OU5-CSA-8-4438TinS-(220,100)	9/25/2001	56	mg/kg	
			OU5-CSA-8-4438TinS-(220,120)	9/25/2001	78	mg/kg	
			OU5-CSA-8-4438TinS-(220,80)	9/25/2001	53	mg/kg	
			OU5-CSA-8-4438TinS-DUP01	9/25/2001	59	mg/kg	OU5-CSA-8-4438TinS-(160,140)
			OU5-CSA-8-4438TinS-DUP02	9/25/2001	246	mg/kg	OU5-CSA-8-4438TinS-(180,80)
			OU5-CSA-8-4438TinS-SB1	9/24/2001	8.5	mg/kg	
			OU5-CSA-8-4438TinS-SB2	9/24/2001	5.2	mg/kg	
			OU5-CSA-8-4438TinS-SB3	9/24/2001	4.5	mg/kg	
			OU5-CSA-8-4438TinS-SB4	9/24/2001	2.3 J	mg/kg	
			OU5-CSA-8-4438TinS-SB5	9/24/2001	2.2 J	mg/kg	
			OU5-CSA-8-4438TinS-SB6	9/24/2001	1.1 J	mg/kg	
CSA	8	4442 Tindall Street					
			OU5-CSA-8-4442TinS-(200,160)	10/29/2001	78.3 J	mg/kg	
			OU5-CSA-8-4442TinS-(200,180)	10/29/2001	41.8 J	mg/kg	
			OU5-CSA-8-4442TinS-(200,200)	10/29/2001	17.4 J	mg/kg	
			OU5-CSA-8-4442TinS-(220,120)	10/29/2001	74.8 J	mg/kg	
			OU5-CSA-8-4442TinS-(220,140)	10/29/2001	40.7 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4442TinS-(220,160)	10/29/2001	29.8 J	mg/kg	
			OU5-CSA-8-4442TinS-(220,180)	10/29/2001	92.6 J	mg/kg	
			OU5-CSA-8-4442TinS-(220,200)	10/29/2001	32.4 J	mg/kg	
			OU5-CSA-8-4442TinS-(240,100)	10/29/2001	41.8 J	mg/kg	
			OU5-CSA-8-4442TinS-(240,120)	10/29/2001	45.7 J	mg/kg	
			OU5-CSA-8-4442TinS-(240,160)	10/29/2001	2.7 J	mg/kg	
			OU5-CSA-8-4442TinS-(240,180)	10/29/2001	71.4 J	mg/kg	
			OU5-CSA-8-4442TinS-(240,200)	10/29/2001	113 J	mg/kg	
			OU5-CSA-8-4442TinS-(240,220)	10/29/2001	6.7 J	mg/kg	
			OU5-CSA-8-4442TinS-(240,80)	10/29/2001	48.9 J	mg/kg	
			OU5-CSA-8-4442TinS-(260,100)	10/29/2001	53.9 J	mg/kg	
			OU5-CSA-8-4442TinS-(260,120)	10/29/2001	13.3 J	mg/kg	
			OU5-CSA-8-4442TinS-(260,140)	10/29/2001	53.8 J	mg/kg	
			OU5-CSA-8-4442TinS-(260,160)	10/29/2001	40.4 J	mg/kg	
			OU5-CSA-8-4442TinS-(260,180)	10/29/2001	86.5 J	mg/kg	
			OU5-CSA-8-4442TinS-(280,100)	10/29/2001	44.8 J	mg/kg	
			OU5-CSA-8-4442TinS-(280,120)	10/29/2001	57.5 J	mg/kg	
			OU5-CSA-8-4442TinS-(280,140)	10/29/2001	123 J	mg/kg	
			OU5-CSA-8-4442TinS-DUP01	10/29/2001	54.6 J	mg/kg	OU5-CSA-8-4442TinS-(260,100)
			OU5-CSA-8-4442TinS-SB1	10/29/2001	2.4	mg/kg	
			OU5-CSA-8-4442TinS-SB2	10/29/2001	6.3	mg/kg	
			OU5-CSA-8-4442TinS-SB3	10/29/2001	6.3	mg/kg	
			OU5-CSA-8-4442TinS-SB4	10/29/2001	3.4	mg/kg	
			OU5-CSA-8-4442TinS-SB5	10/29/2001	3.3	mg/kg	
			OU5-CSA-8-4442TinS-SB6	10/29/2001	3.3	mg/kg	
CSA	8	4444 Springdale Street					
			OU5-CSA-8-4444SS-(100,100)	10/19/2001	6.1	mg/kg	
			OU5-CSA-8-4444SS-(100,40)	10/19/2001	8.2	mg/kg	
			OU5-CSA-8-4444SS-(100,60)	10/19/2001	6.6	mg/kg	
			OU5-CSA-8-4444SS-(100,80)	10/19/2001	4.2	mg/kg	
			OU5-CSA-8-4444SS-(120,40)	10/19/2001	5.9	mg/kg	
			OU5-CSA-8-4444SS-(120,60)	10/19/2001	11.9	mg/kg	
			OU5-CSA-8-4444SS-(20,120)	10/19/2001	5.2	mg/kg	
			OU5-CSA-8-4444SS-(20,140)	10/19/2001	4.5	mg/kg	
			OU5-CSA-8-4444SS-(40,100)	10/19/2001	6.8	mg/kg	
			OU5-CSA-8-4444SS-(40,120)	10/19/2001	11.7	mg/kg	
			OU5-CSA-8-4444SS-(40,140)	10/19/2001	5	mg/kg	
			OU5-CSA-8-4444SS-(40,60)	10/19/2001	3	mg/kg	
			OU5-CSA-8-4444SS-(40,80)	10/19/2001	6.1	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4444SS-(60,100)	10/19/2001	8.1	mg/kg	
			OU5-CSA-8-4444SS-(60,120)	10/19/2001	9.7	mg/kg	
			OU5-CSA-8-4444SS-(60,140)	10/19/2001	7.4	mg/kg	
			OU5-CSA-8-4444SS-(60,20)	10/19/2001	3.7	mg/kg	
			OU5-CSA-8-4444SS-(60,40)	10/19/2001	7.7	mg/kg	
			OU5-CSA-8-4444SS-(60,60)	10/19/2001	4.7	mg/kg	
			OU5-CSA-8-4444SS-(60,80)	10/19/2001	4.5	mg/kg	
			OU5-CSA-8-4444SS-(80,100)	10/19/2001	3.6	mg/kg	
			OU5-CSA-8-4444SS-(80,120)	10/19/2001	4.1	mg/kg	
			OU5-CSA-8-4444SS-(80,140)	10/19/2001	4.7	mg/kg	
			OU5-CSA-8-4444SS-(80,20)	10/19/2001	5.1	mg/kg	
			OU5-CSA-8-4444SS-(80,40)	10/19/2001	15.2	mg/kg	
			OU5-CSA-8-4444SS-(80,60)	10/19/2001	3.8	mg/kg	
			OU5-CSA-8-4444SS-DUP01	10/19/2001	18.8	mg/kg	OU5-CSA-8-4444SS-(80,40)
			OU5-CSA-8-4444SS-SB1	10/15/2001	3.7	mg/kg	
CSA	8	4445 Sedgwick Street					
			OU5-CSA-8-4445SegS-(100,20)	11/8/2001	4.8	mg/kg	
			OU5-CSA-8-4445SegS-(100,40)	11/8/2001	19.2	mg/kg	
			OU5-CSA-8-4445SegS-(100,60)	11/8/2001	15.9	mg/kg	
			OU5-CSA-8-4445SegS-(100,80)	11/8/2001	13.4	mg/kg	
			OU5-CSA-8-4445SegS-(120,20)	11/8/2001	10.3	mg/kg	
			OU5-CSA-8-4445SegS-(120,40)	11/8/2001	5.3	mg/kg	
			OU5-CSA-8-4445SegS-(20,100)	11/8/2001	25.5	mg/kg	
			OU5-CSA-8-4445SegS-(40,100)	11/8/2001	13.4	mg/kg	
			OU5-CSA-8-4445SegS-(40,120)	11/8/2001	8.6	mg/kg	
			OU5-CSA-8-4445SegS-(40,60)	11/8/2001	1.6 J	mg/kg	
			OU5-CSA-8-4445SegS-(40,80)	11/8/2001	17.7	mg/kg	
			OU5-CSA-8-4445SegS-(60,100)	11/8/2001	12.5	mg/kg	
			OU5-CSA-8-4445SegS-(60,120)	11/8/2001	11.5	mg/kg	
			OU5-CSA-8-4445SegS-(60,20)	11/8/2001	13.7	mg/kg	
			OU5-CSA-8-4445SegS-(60,40)	11/8/2001	7.3	mg/kg	
			OU5-CSA-8-4445SegS-(60,80)	11/8/2001	8	mg/kg	
			OU5-CSA-8-4445SegS-(80,0)	11/8/2001	8.7	mg/kg	
			OU5-CSA-8-4445SegS-(80,100)	11/8/2001	13.7	mg/kg	
			OU5-CSA-8-4445SegS-(80,120)	11/8/2001	12.9	mg/kg	
			OU5-CSA-8-4445SegS-(80,20)	11/8/2001	10.8	mg/kg	
			OU5-CSA-8-4445SegS-(80,40)	11/8/2001	9	mg/kg	
			OU5-CSA-8-4445SegS-(80,80)	11/8/2001	8.5	mg/kg	
			OU5-CSA-8-4445SegS-DUP01	11/8/2001	15.1	mg/kg	OU5-CSA-8-4445SegS-(100,60)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4445SegS-SB1	11/7/2001	4	mg/kg	
CSA	8	4446 Tindall Street					
			OU5-CSA-8-4446TinS-(240,200)	9/25/2001	9.6	mg/kg	
			OU5-CSA-8-4446TinS-(240,220)	9/25/2001	6.4	mg/kg	
			OU5-CSA-8-4446TinS-(260,160)	9/25/2001	314	mg/kg	
			OU5-CSA-8-4446TinS-(260,180)	9/25/2001	270	mg/kg	
			OU5-CSA-8-4446TinS-(260,200)	9/25/2001	152	mg/kg	
			OU5-CSA-8-4446TinS-(260,220)	9/25/2001	4.9	mg/kg	
			OU5-CSA-8-4446TinS-(280,120)	9/25/2001	55	mg/kg	
			OU5-CSA-8-4446TinS-(280,140)	9/25/2001	23	mg/kg	
			OU5-CSA-8-4446TinS-(280,160)	9/25/2001	410	mg/kg	
			OU5-CSA-8-4446TinS-(280,180)	9/25/2001	293	mg/kg	
			OU5-CSA-8-4446TinS-(280,200)	9/25/2001	99	mg/kg	
			OU5-CSA-8-4446TinS-(280,220)	9/25/2001	32	mg/kg	
			OU5-CSA-8-4446TinS-(300,100)	9/25/2001	203	mg/kg	
			OU5-CSA-8-4446TinS-(300,120)	9/25/2001	99	mg/kg	
			OU5-CSA-8-4446TinS-(300,140)	9/25/2001	37	mg/kg	
			OU5-CSA-8-4446TinS-(300,180)	9/25/2001	21	mg/kg	
			OU5-CSA-8-4446TinS-(300,200)	9/25/2001	144	mg/kg	
			OU5-CSA-8-4446TinS-(300,220)	9/25/2001	177	mg/kg	
			OU5-CSA-8-4446TinS-(300,240)	9/25/2001	5.3	mg/kg	
			OU5-CSA-8-4446TinS-(320,120)	9/25/2001	157	mg/kg	
			OU5-CSA-8-4446TinS-(320,140)	9/25/2001	197	mg/kg	
			OU5-CSA-8-4446TinS-(320,160)	9/25/2001	7.8	mg/kg	
			OU5-CSA-8-4446TinS-(320,180)	9/25/2001	54	mg/kg	
			OU5-CSA-8-4446TinS-(320,200)	9/25/2001	54	mg/kg	
			OU5-CSA-8-4446TinS-(340,120)	9/25/2001	159	mg/kg	
			OU5-CSA-8-4446TinS-(340,140)	9/25/2001	82	mg/kg	
			OU5-CSA-8-4446TinS-DUP01	9/25/2001	167	mg/kg	OU5-CSA-8-4446TinS-(320,120)
			OU5-CSA-8-4446TinS-SB-DUP76	9/24/2001	9.6	mg/kg	OU5-CSA-8-4446TinS-SB3
			OU5-CSA-8-4446TinS-SB1	9/24/2001	7.2	mg/kg	
			OU5-CSA-8-4446TinS-SB2	9/24/2001	15	mg/kg	
			OU5-CSA-8-4446TinS-SB3	9/24/2001	9.8	mg/kg	
			OU5-CSA-8-4446TinS-SB4	9/24/2001	3	mg/kg	
			OU5-CSA-8-4446TinS-SB5	9/24/2001	1.8 J	mg/kg	
			OU5-CSA-8-4446TinS-SB6	9/24/2001	3.9	mg/kg	
CSA	8	4447 Springdale Street					
			OU5-CSA-8-4447SS-(100,100)	1/23/2002	5.3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4447SS-(100,40)	1/23/2002	10.7	mg/kg	
			OU5-CSA-8-4447SS-(100,60)	1/23/2002	12.5	mg/kg	
			OU5-CSA-8-4447SS-(100,80)	1/23/2002	9	mg/kg	
			OU5-CSA-8-4447SS-(20,100)	1/23/2002	6.8	mg/kg	
			OU5-CSA-8-4447SS-(20,120)	1/23/2002	8	mg/kg	
			OU5-CSA-8-4447SS-(20,140)	1/23/2002	5.9	mg/kg	
			OU5-CSA-8-4447SS-(40,100)	1/23/2002	5.5	mg/kg	
			OU5-CSA-8-4447SS-(40,120)	1/23/2002	16.1	mg/kg	
			OU5-CSA-8-4447SS-(40,140)	1/23/2002	6.7	mg/kg	
			OU5-CSA-8-4447SS-(40,40)	1/23/2002	19.6	mg/kg	
			OU5-CSA-8-4447SS-(40,60)	1/23/2002	10.9	mg/kg	
			OU5-CSA-8-4447SS-(40,80)	1/23/2002	5.9	mg/kg	
			OU5-CSA-8-4447SS-(60,100)	1/23/2002	3.1	mg/kg	
			OU5-CSA-8-4447SS-(60,120)	1/23/2002	20	mg/kg	
			OU5-CSA-8-4447SS-(60,140)	1/23/2002	16.9	mg/kg	
			OU5-CSA-8-4447SS-(60,160)	1/23/2002	5.1	mg/kg	
			OU5-CSA-8-4447SS-(60,20)	1/23/2002	6.9	mg/kg	
			OU5-CSA-8-4447SS-(60,40)	1/23/2002	4	mg/kg	
			OU5-CSA-8-4447SS-(60,60)	1/23/2002	3.8	mg/kg	
			OU5-CSA-8-4447SS-(80,100)	1/23/2002	9.3	mg/kg	
			OU5-CSA-8-4447SS-(80,120)	1/23/2002	7.8	mg/kg	
			OU5-CSA-8-4447SS-(80,140)	1/23/2002	13.6	mg/kg	
			OU5-CSA-8-4447SS-(80,20)	1/23/2002	7.2	mg/kg	
			OU5-CSA-8-4447SS-(80,40)	1/23/2002	14.1	mg/kg	
			OU5-CSA-8-4447SS-(80,60)	1/23/2002	4	mg/kg	
			OU5-CSA-8-4447SS-DUP01	1/23/2002	6.7	mg/kg	OU5-CSA-8-4447SS-(80,100)
			OU5-CSA-8-4447SS-SB1	1/21/2002	4.1	mg/kg	
CSA	8	4456 Springdale Street					
			OU5-CSA-8-4456SS-(100,40)	11/26/2001	28.9 J	mg/kg	
			OU5-CSA-8-4456SS-(100,60)	11/26/2001	137 J	mg/kg	
			OU5-CSA-8-4456SS-(100,80)	11/26/2001	254 J	mg/kg	
			OU5-CSA-8-4456SS-(20,100)	11/26/2001	158 J	mg/kg	
			OU5-CSA-8-4456SS-(20,120)	11/26/2001	177 J	mg/kg	
			OU5-CSA-8-4456SS-(20,80)	11/26/2001	165 J	mg/kg	
			OU5-CSA-8-4456SS-(40,100)	11/26/2001	118 J	mg/kg	
			OU5-CSA-8-4456SS-(40,120)	11/26/2001	15.7 J	mg/kg	
			OU5-CSA-8-4456SS-(40,140)	11/26/2001	53.1 J	mg/kg	
			OU5-CSA-8-4456SS-(40,40)	11/26/2001	7.4 J	mg/kg	
			OU5-CSA-8-4456SS-(40,60)	11/26/2001	29.5 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4456SS-(40,80)	11/26/2001	129 J	mg/kg	
			OU5-CSA-8-4456SS-(60,100)	11/26/2001	17.9 J	mg/kg	
			OU5-CSA-8-4456SS-(60,120)	11/26/2001	54.4 J	mg/kg	
			OU5-CSA-8-4456SS-(60,140)	11/26/2001	149 J	mg/kg	
			OU5-CSA-8-4456SS-(60,20)	11/26/2001	105 J	mg/kg	
			OU5-CSA-8-4456SS-(60,40)	11/26/2001	73.3 J	mg/kg	
			OU5-CSA-8-4456SS-(60,60)	11/26/2001	14.9 J	mg/kg	
			OU5-CSA-8-4456SS-(60,80)	11/26/2001	9.2 J	mg/kg	
			OU5-CSA-8-4456SS-(80,100)	11/26/2001	40.4 J	mg/kg	
			OU5-CSA-8-4456SS-(80,120)	11/26/2001	105 J	mg/kg	
			OU5-CSA-8-4456SS-(80,20)	11/26/2001	45.3 J	mg/kg	
			OU5-CSA-8-4456SS-(80,40)	11/26/2001	41.2 J	mg/kg	
			OU5-CSA-8-4456SS-(80,60)	11/26/2001	29.1 J	mg/kg	
			OU5-CSA-8-4456SS-(80,80)	11/26/2001	108 J	mg/kg	
			OU5-CSA-8-4456SS-DUP01	11/26/2001	93.8 J	mg/kg	OU5-CSA-8-4456SS-(60,20)
			OU5-CSA-8-4456SS-SB-DUP67	11/26/2001	0.52 J	mg/kg	OU5-CSA-8-4456SS-SB4
			OU5-CSA-8-4456SS-SB1	11/26/2001	6 J	mg/kg	
			OU5-CSA-8-4456SS-SB2	11/26/2001	0.43 J	mg/kg	
			OU5-CSA-8-4456SS-SB3	11/26/2001	0.47 J	mg/kg	
			OU5-CSA-8-4456SS-SB4	11/26/2001	0.38 UJ	mg/kg	
			OU5-CSA-8-4456SS-SB5	11/26/2001	0.38 UJ	mg/kg	
			OU5-CSA-8-4456SS-SB6	11/26/2001	0.39 UJ	mg/kg	
CSA	8	4457 Sedgwick Street					
			OU5-CSA-8-4457SegS-(100,20)	11/8/2001	5.9	mg/kg	
			OU5-CSA-8-4457SegS-(100,40)	11/8/2001	6	mg/kg	
			OU5-CSA-8-4457SegS-(100,60)	11/8/2001	5	mg/kg	
			OU5-CSA-8-4457SegS-(100,80)	11/8/2001	6.5	mg/kg	
			OU5-CSA-8-4457SegS-(120,40)	11/8/2001	2.2 J	mg/kg	
			OU5-CSA-8-4457SegS-(20,100)	11/8/2001	5.6	mg/kg	
			OU5-CSA-8-4457SegS-(20,120)	11/8/2001	3.5	mg/kg	
			OU5-CSA-8-4457SegS-(20,80)	11/8/2001	9.7	mg/kg	
			OU5-CSA-8-4457SegS-(40,100)	11/8/2001	78.6	mg/kg	
			OU5-CSA-8-4457SegS-(40,120)	11/8/2001	8	mg/kg	
			OU5-CSA-8-4457SegS-(40,140)	11/8/2001	4.6	mg/kg	
			OU5-CSA-8-4457SegS-(40,40)	11/8/2001	8	mg/kg	
			OU5-CSA-8-4457SegS-(40,60)	11/8/2001	10	mg/kg	
			OU5-CSA-8-4457SegS-(40,80)	11/8/2001	7.4	mg/kg	
			OU5-CSA-8-4457SegS-(60,100)	11/8/2001	5.1	mg/kg	
			OU5-CSA-8-4457SegS-(60,120)	11/8/2001	14.7	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4457SegS-(60,140)	11/8/2001	3.8	mg/kg	
			OU5-CSA-8-4457SegS-(60,20)	11/8/2001	4.1	mg/kg	
			OU5-CSA-8-4457SegS-(60,40)	11/8/2001	5	mg/kg	
			OU5-CSA-8-4457SegS-(80,100)	11/8/2001	5.8	mg/kg	
			OU5-CSA-8-4457SegS-(80,120)	11/8/2001	13.1	mg/kg	
			OU5-CSA-8-4457SegS-(80,20)	11/8/2001	12.1	mg/kg	
			OU5-CSA-8-4457SegS-(80,40)	11/8/2001	6.4	mg/kg	
			OU5-CSA-8-4457SegS-(80,60)	11/8/2001	5.1	mg/kg	
			OU5-CSA-8-4457SegS-(80,80)	11/8/2001	5.8	mg/kg	
			OU5-CSA-8-4457SegS-DUP01	11/8/2001	7.6	mg/kg	OU5-CSA-8-4457SegS-(60,100)
			OU5-CSA-8-4457SegS-SB1	11/7/2001	2.2 J	mg/kg	
CSA	8	4458 Tindall Street					
			OU5-CSA-8-4458TinS-(420,260)	1/22/2002	7.1	mg/kg	
			OU5-CSA-8-4458TinS-(420,280)	1/22/2002	9.1	mg/kg	
			OU5-CSA-8-4458TinS-(440,220)	1/22/2002	6.1	mg/kg	
			OU5-CSA-8-4458TinS-(440,240)	1/22/2002	5.5	mg/kg	
			OU5-CSA-8-4458TinS-(440,260)	1/22/2002	7.1	mg/kg	
			OU5-CSA-8-4458TinS-(440,280)	1/22/2002	16.7	mg/kg	
			OU5-CSA-8-4458TinS-(440,300)	1/22/2002	7.9	mg/kg	
			OU5-CSA-8-4458TinS-(460,180)	1/22/2002	10.2	mg/kg	
			OU5-CSA-8-4458TinS-(460,200)	1/22/2002	15.9	mg/kg	
			OU5-CSA-8-4458TinS-(460,240)	1/22/2002	3.7	mg/kg	
			OU5-CSA-8-4458TinS-(460,260)	1/22/2002	7	mg/kg	
			OU5-CSA-8-4458TinS-(460,280)	1/22/2002	6.5	mg/kg	
			OU5-CSA-8-4458TinS-(460,300)	1/22/2002	6.7	mg/kg	
			OU5-CSA-8-4458TinS-(480,180)	1/22/2002	5.9	mg/kg	
			OU5-CSA-8-4458TinS-(480,200)	1/22/2002	7.7	mg/kg	
			OU5-CSA-8-4458TinS-(480,220)	1/22/2002	3.5	mg/kg	
			OU5-CSA-8-4458TinS-(480,240)	1/22/2002	5.1	mg/kg	
			OU5-CSA-8-4458TinS-(480,260)	1/22/2002	11.3	mg/kg	
			OU5-CSA-8-4458TinS-(500,180)	1/22/2002	8.1	mg/kg	
			OU5-CSA-8-4458TinS-(500,200)	1/22/2002	8.8	mg/kg	
			OU5-CSA-8-4458TinS-DUP01	1/22/2002	8.5	mg/kg	OU5-CSA-8-4458TinS-(500,200)
			OU5-CSA-8-4458TinS-SB1	1/21/2002	5.7	mg/kg	
CSA	8	4460 Springdale Street					
			OU5-CSA-8-4460SS(0,100)	6/10/2002	10	mg/kg	
			OU5-CSA-8-4460SS(100,100)	6/10/2002	7.8	mg/kg	
			OU5-CSA-8-4460SS(100,20)	6/10/2002	14.3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CSA-8-4460SS(100,40)	6/10/2002	13.8	mg/kg	
			OU5-CSA-8-4460SS(100,60)	6/10/2002	12.5	mg/kg	
			OU5-CSA-8-4460SS(100,80)	6/10/2002	13.4	mg/kg	
			OU5-CSA-8-4460SS(120,20)	6/10/2002	3.6	mg/kg	
			OU5-CSA-8-4460SS(120,40)	6/10/2002	9.1	mg/kg	
			OU5-CSA-8-4460SS(120,60)	6/10/2002	5	mg/kg	
			OU5-CSA-8-4460SS(20,100)	6/10/2002	6.6	mg/kg	
			OU5-CSA-8-4460SS(20,120)	6/10/2002	5.2	mg/kg	
			OU5-CSA-8-4460SS(20,40)	6/10/2002	7.4	mg/kg	
			OU5-CSA-8-4460SS(20,60)	6/10/2002	6.1	mg/kg	
			OU5-CSA-8-4460SS(20,80)	6/10/2002	24.4	mg/kg	
			OU5-CSA-8-4460SS(40,0)	6/10/2002	30	mg/kg	
			OU5-CSA-8-4460SS(40,100)	6/10/2002	5.6	mg/kg	
			OU5-CSA-8-4460SS(40,120)	6/10/2002	6.6	mg/kg	
			OU5-CSA-8-4460SS(40,20)	6/10/2002	35.9	mg/kg	
			OU5-CSA-8-4460SS(40,40)	6/10/2002	16.6	mg/kg	
			OU5-CSA-8-4460SS(40,60)	6/10/2002	10	mg/kg	
			OU5-CSA-8-4460SS(40,80)	6/10/2002	6.6	mg/kg	
			OU5-CSA-8-4460SS(60,0)	6/10/2002	13.5	mg/kg	
			OU5-CSA-8-4460SS(60,100)	6/10/2002	19.4	mg/kg	
			OU5-CSA-8-4460SS(60,120)	6/10/2002	5.9	mg/kg	
			OU5-CSA-8-4460SS(60,140)	6/10/2002	5.6	mg/kg	
			OU5-CSA-8-4460SS(60,20)	6/10/2002	21.9	mg/kg	
			OU5-CSA-8-4460SS(60,60)	6/10/2002	8.4	mg/kg	
			OU5-CSA-8-4460SS(60,80)	6/10/2002	8.7	mg/kg	
			OU5-CSA-8-4460SS(80,0)	6/10/2002	8.9	mg/kg	
			OU5-CSA-8-4460SS(80,100)	6/10/2002	22.2	mg/kg	
			OU5-CSA-8-4460SS(80,120)	6/10/2002	9	mg/kg	
			OU5-CSA-8-4460SS(80,140)	6/10/2002	5.4	mg/kg	
			OU5-CSA-8-4460SS(80,20)	6/10/2002	18.8	mg/kg	
			OU5-CSA-8-4460SS(80,40)	6/10/2002	5.3	mg/kg	
			OU5-CSA-8-4460SS(80,60)	6/10/2002	5.3	mg/kg	
			OU5-CSA-8-4460SS(80,80)	6/10/2002	10.6	mg/kg	
			OU5-CSA-8-4460SS-DUP115	6/10/2002	9.7	mg/kg	OU5-CSA-8-4460SS(60,80)
			OU5-CSA-8-4460SS-SB1	7/2/2002	5.2	mg/kg	
CSA	8	4462 Tindall Street					
			OU5-CSA-8-4462TinS-(480,260)	11/6/2001	14.9 J	mg/kg	
			OU5-CSA-8-4462TinS-(480,280)	11/6/2001	11.6 J	mg/kg	
			OU5-CSA-8-4462TinS-(480,300)	11/6/2001	8.4 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4462TinS-(500,220)	11/6/2001	24.3 J	mg/kg	
			OU5-CSA-8-4462TinS-(500,240)	11/6/2001	12.9 J	mg/kg	
			OU5-CSA-8-4462TinS-(500,260)	11/6/2001	11.5 UJ	mg/kg	
			OU5-CSA-8-4462TinS-(500,300)	11/6/2001	30.9 J	mg/kg	
			OU5-CSA-8-4462TinS-(500,320)	11/6/2001	7.4 J	mg/kg	
			OU5-CSA-8-4462TinS-(520,200)	11/6/2001	27.8 J	mg/kg	
			OU5-CSA-8-4462TinS-(520,220)	11/6/2001	48.5 J	mg/kg	
			OU5-CSA-8-4462TinS-(520,240)	11/6/2001	4.4 J	mg/kg	
			OU5-CSA-8-4462TinS-(520,280)	11/6/2001	36.5 J	mg/kg	
			OU5-CSA-8-4462TinS-(520,300)	11/6/2001	27 J	mg/kg	
			OU5-CSA-8-4462TinS-(520,320)	11/6/2001	6.7 J	mg/kg	
			OU5-CSA-8-4462TinS-(540,200)	11/6/2001	31.1 J	mg/kg	
			OU5-CSA-8-4462TinS-(540,220)	11/6/2001	10.4 J	mg/kg	
			OU5-CSA-8-4462TinS-(540,240)	11/6/2001	17.6 J	mg/kg	
			OU5-CSA-8-4462TinS-(540,260)	11/6/2001	49.1 J	mg/kg	
			OU5-CSA-8-4462TinS-(540,280)	11/6/2001	44.4 J	mg/kg	
			OU5-CSA-8-4462TinS-(560,220)	11/6/2001	25.3 J	mg/kg	
			OU5-CSA-8-4462TinS-(560,240)	11/6/2001	7.9 J	mg/kg	
			OU5-CSA-8-4462TinS-DUP01	11/6/2001	32.1 J	mg/kg	OU5-CSA-8-4462TinS-(500,220)
			OU5-CSA-8-4462TinS-SB1	11/7/2001	12.8	mg/kg	
CSA	8	4477 Sedgwick Street					
			OU5-CSA-8-4477SegS-(100,100)	2/26/2002	5.3 L	mg/kg	
			OU5-CSA-8-4477SegS-(100,20)	2/26/2002	3.5 L	mg/kg	
			OU5-CSA-8-4477SegS-(100,40)	2/26/2002	4.7 L	mg/kg	
			OU5-CSA-8-4477SegS-(100,60)	2/26/2002	4.5 L	mg/kg	
			OU5-CSA-8-4477SegS-(100,80)	2/26/2002	4.8 L	mg/kg	
			OU5-CSA-8-4477SegS-(120,40)	2/26/2002	2.3 L	mg/kg	
			OU5-CSA-8-4477SegS-(120,60)	2/26/2002	4.8 L	mg/kg	
			OU5-CSA-8-4477SegS-(20,100)	2/26/2002	5.4 L	mg/kg	
			OU5-CSA-8-4477SegS-(20,120)	2/26/2002	5.7 L	mg/kg	
			OU5-CSA-8-4477SegS-(40,100)	2/26/2002	6.3 L	mg/kg	
			OU5-CSA-8-4477SegS-(40,120)	2/26/2002	5 L	mg/kg	
			OU5-CSA-8-4477SegS-(40,140)	2/26/2002	7.6 L	mg/kg	
			OU5-CSA-8-4477SegS-(40,60)	2/26/2002	6.3 L	mg/kg	
			OU5-CSA-8-4477SegS-(40,80)	2/26/2002	15.5 L	mg/kg	
			OU5-CSA-8-4477SegS-(60,100)	2/26/2002	6.6 L	mg/kg	
			OU5-CSA-8-4477SegS-(60,120)	2/26/2002	5.3 L	mg/kg	
			OU5-CSA-8-4477SegS-(60,140)	2/26/2002	5.3 L	mg/kg	
			OU5-CSA-8-4477SegS-(60,20)	2/26/2002	5.5 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-8-4477SegS-(60,40)	2/26/2002	4.8 L	mg/kg	
			OU5-CSA-8-4477SegS-(60,60)	2/26/2002	6.5 L	mg/kg	
			OU5-CSA-8-4477SegS-(80,100)	2/26/2002	5.1 L	mg/kg	
			OU5-CSA-8-4477SegS-(80,120)	2/26/2002	5.2 L	mg/kg	
			OU5-CSA-8-4477SegS-(80,140)	2/26/2002	4.6 L	mg/kg	
			OU5-CSA-8-4477SegS-(80,20)	2/26/2002	4 L	mg/kg	
			OU5-CSA-8-4477SegS-(80,40)	2/26/2002	2.8 L	mg/kg	
			OU5-CSA-8-4477SegS-(80,60)	2/26/2002	2.9 L	mg/kg	
			OU5-CSA-8-4477SegS-(80,80)	2/26/2002	4.5 L	mg/kg	
			OU5-CSA-8-4477SegS-DUP01	2/26/2002	4.7 L	mg/kg	OU5-CSA-8-4477SegS-(100,60)
			OU5-CSA-8-4477SegS-SB1	2/28/2002	5	mg/kg	
CSA	10	4615 Rodman Street					
			OU5-CSA-10-4615RS-(100,100)	11/1/2001	31.9	mg/kg	
			OU5-CSA-10-4615RS-(100,120)	11/1/2001	22.9	mg/kg	
			OU5-CSA-10-4615RS-(100,140)	11/1/2001	32.2	mg/kg	
			OU5-CSA-10-4615RS-(100,160)	11/1/2001	4.6	mg/kg	
			OU5-CSA-10-4615RS-(100,40)	11/1/2001	13.2	mg/kg	
			OU5-CSA-10-4615RS-(100,60)	11/1/2001	17.7	mg/kg	
			OU5-CSA-10-4615RS-(100,80)	11/1/2001	14.7	mg/kg	
			OU5-CSA-10-4615RS-(120,100)	11/1/2001	14.3	mg/kg	
			OU5-CSA-10-4615RS-(120,120)	11/1/2001	12.2	mg/kg	
			OU5-CSA-10-4615RS-(120,40)	11/1/2001	84	mg/kg	
			OU5-CSA-10-4615RS-(120,60)	11/1/2001	20.8	mg/kg	
			OU5-CSA-10-4615RS-(120,80)	11/1/2001	35.6	mg/kg	
			OU5-CSA-10-4615RS-(140,40)	11/1/2001	10.1	mg/kg	
			OU5-CSA-10-4615RS-(140,60)	11/1/2001	9.4	mg/kg	
			OU5-CSA-10-4615RS-(20,100)	11/1/2001	32.2	mg/kg	
			OU5-CSA-10-4615RS-(20,120)	11/1/2001	4.4	mg/kg	
			OU5-CSA-10-4615RS-(20,140)	11/1/2001	4	mg/kg	
			OU5-CSA-10-4615RS-(20,80)	11/1/2001	73.5	mg/kg	
			OU5-CSA-10-4615RS-(40,100)	11/1/2001	61.7	mg/kg	
			OU5-CSA-10-4615RS-(40,120)	11/1/2001	2.3	mg/kg	
			OU5-CSA-10-4615RS-(40,140)	11/1/2001	1.1 J	mg/kg	
			OU5-CSA-10-4615RS-(40,40)	11/1/2001	46.7	mg/kg	
			OU5-CSA-10-4615RS-(40,60)	11/1/2001	82.1	mg/kg	
			OU5-CSA-10-4615RS-(40,80)	11/1/2001	80.5	mg/kg	
			OU5-CSA-10-4615RS-(60,100)	11/1/2001	13.3	mg/kg	
			OU5-CSA-10-4615RS-(60,120)	11/1/2001	3.5	mg/kg	
			OU5-CSA-10-4615RS-(60,140)	11/1/2001	6.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-10-4615RS-(60,20)	11/1/2001	23.1	mg/kg	
			OU5-CSA-10-4615RS-(60,40)	11/1/2001	97.2	mg/kg	
			OU5-CSA-10-4615RS-(60,60)	11/1/2001	66.1	mg/kg	
			OU5-CSA-10-4615RS-(60,80)	11/1/2001	92.7	mg/kg	
			OU5-CSA-10-4615RS-(80,100)	11/1/2001	8.3	mg/kg	
			OU5-CSA-10-4615RS-(80,120)	11/1/2001	7.3	mg/kg	
			OU5-CSA-10-4615RS-(80,140)	11/1/2001	47.9	mg/kg	
			OU5-CSA-10-4615RS-(80,160)	11/1/2001	4.6	mg/kg	
			OU5-CSA-10-4615RS-(80,20)	11/1/2001	43.5	mg/kg	
			OU5-CSA-10-4615RS-(80,40)	11/1/2001	34.5	mg/kg	
			OU5-CSA-10-4615RS-(80,60)	11/1/2001	55.7	mg/kg	
			OU5-CSA-10-4615RS-(80,80)	11/1/2001	5.1	mg/kg	
			OU5-CSA-10-4615RS-DUP01	11/1/2001	63.3	mg/kg	OU5-CSA-10-4615RS-(40,100)
			OU5-CSA-10-4615RS-DUP02	11/1/2001	108	mg/kg	OU5-CSA-10-4615RS-(60,80)
			OU5-CSA-10-4615RS-SB1	10/29/2001	17.5 J	mg/kg	
			OU5-CSA-10-4615RS-SB2	10/29/2001	1.9 J	mg/kg	
			OU5-CSA-10-4615RS-SB3	10/29/2001	1.1 J	mg/kg	
			OU5-CSA-10-4615RS-SB4	10/29/2001	2.4	mg/kg	
			OU5-CSA-10-4615RS-SB5	10/29/2001	2	mg/kg	
			OU5-CSA-10-4615RS-SB6	10/29/2001	2.4	mg/kg	
OU4	OU4	4621 Rockwood Parkway					
			OU4-4621RP-(110,310)	2/12/2001	5.75	mg/kg	
			OU4-4621RP-(110,330)	2/12/2001	6.58 J	mg/kg	
			OU4-4621RP-(110,350)	2/12/2001	5.77	mg/kg	
			OU4-4621RP-(110,370)	2/12/2001	15.7	mg/kg	
			OU4-4621RP-(110,390)	2/12/2001	72.3	mg/kg	
			OU4-4621RP-(110,410)	2/12/2001	35.2	mg/kg	
			OU4-4621RP-(130,310)	2/12/2001	8.87 J	mg/kg	
			OU4-4621RP-(130,330)	2/12/2001	13.3	mg/kg	
			OU4-4621RP-(130,350)	2/12/2001	40.9	mg/kg	
			OU4-4621RP-(130,370)	2/12/2001	25.9	mg/kg	
			OU4-4621RP-(130,390)	2/12/2001	46.3	mg/kg	
			OU4-4621RP-(150,310)	2/12/2001	7.04 J	mg/kg	
			OU4-4621RP-(150,330)	2/12/2001	6.92	mg/kg	
			OU4-4621RP-(150,350)	2/12/2001	36 J	mg/kg	
			OU4-4621RP-(150,370)	2/12/2001	25.9	mg/kg	
			OU4-4621RP-(190,330)	2/12/2001	6.35 J	mg/kg	
			OU4-4621RP-(30,310)	2/12/2001	5.2 J	mg/kg	
			OU4-4621RP-(30,330)	2/12/2001	5.52 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4621RP-(30,350)	2/12/2001	5.13	mg/kg	
			OU4-4621RP-(30,370)	2/12/2001	4.81 J	mg/kg	
			OU4-4621RP-(30,390)	2/12/2001	7.37	mg/kg	
			OU4-4621RP-(30,410)	2/12/2001	5.65 J	mg/kg	
			OU4-4621RP-(30,430)	2/12/2001	4.72	mg/kg	
			OU4-4621RP-(30,450)	2/12/2001	5.16 J	mg/kg	
			OU4-4621RP-(50,310)	2/12/2001	5.29 J	mg/kg	
			OU4-4621RP-(50,350)	2/12/2001	3.19 J	mg/kg	
			OU4-4621RP-(50,370)	2/12/2001	3.92	mg/kg	
			OU4-4621RP-(50,390)	2/12/2001	4.89 J	mg/kg	
			OU4-4621RP-(50,410)	2/12/2001	5.25	mg/kg	
			OU4-4621RP-(50,430)	2/12/2001	7.75	mg/kg	
			OU4-4621RP-(50,450)	2/12/2001	6.21 J	mg/kg	
			OU4-4621RP-(70,310)	2/12/2001	5.8 J	mg/kg	
			OU4-4621RP-(70,370)	2/12/2001	4.08 J	mg/kg	
			OU4-4621RP-(70,390)	2/12/2001	4 J	mg/kg	
			OU4-4621RP-(70,410)	2/12/2001	4.85 J	mg/kg	
			OU4-4621RP-(70,430)	2/12/2001	4.89	mg/kg	
			OU4-4621RP-(90,310)	2/12/2001	9.45	mg/kg	
			OU4-4621RP-(90,350)	2/12/2001	3.68	mg/kg	
			OU4-4621RP-(90,370)	2/12/2001	6.63 J	mg/kg	
			OU4-4621RP-(90,390)	2/12/2001	49.9	mg/kg	
			OU4-4621RP-(90,410)	2/12/2001	45.4	mg/kg	
			OU4-4621RP-DUP01	2/12/2001	5.09	mg/kg	OU4-4621RP-(30,370)
			OU4-4621RP-DUP02	2/12/2001	6.06	mg/kg	OU4-4621RP-(50,450)
CSA	5	4624 Van Ness Street					
			OU5-CSA-5-4624VNS-(100,40)	2/7/2002	6.8	mg/kg	
			OU5-CSA-5-4624VNS-(100,60)	2/7/2002	5.4	mg/kg	
			OU5-CSA-5-4624VNS-(120,60)	2/7/2002	22.8	mg/kg	
			OU5-CSA-5-4624VNS-(20,100)	2/7/2002	4	mg/kg	
			OU5-CSA-5-4624VNS-(20,40)	2/7/2002	3.6	mg/kg	
			OU5-CSA-5-4624VNS-(20,60)	2/7/2002	3.2	mg/kg	
			OU5-CSA-5-4624VNS-(20,80)	2/7/2002	3.9	mg/kg	
			OU5-CSA-5-4624VNS-(40,100)	2/7/2002	10.1	mg/kg	
			OU5-CSA-5-4624VNS-(40,20)	2/7/2002	2.7	mg/kg	
			OU5-CSA-5-4624VNS-(40,40)	2/7/2002	4.6	mg/kg	
			OU5-CSA-5-4624VNS-(40,60)	2/7/2002	4.1	mg/kg	
			OU5-CSA-5-4624VNS-(40,80)	2/7/2002	16	mg/kg	
			OU5-CSA-5-4624VNS-(60,40)	2/7/2002	4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-5-4624VNS-(60,80)	2/7/2002	6.2	mg/kg	
			OU5-CSA-5-4624VNS-(80,40)	2/7/2002	3.9	mg/kg	
			OU5-CSA-5-4624VNS-(80,60)	2/7/2002	9.5	mg/kg	
			OU5-CSA-5-4624VNS-(80,80)	2/7/2002	8.4	mg/kg	
			OU5-CSA-5-4624VNS-DUP01	2/7/2002	8.2	mg/kg	OU5-CSA-5-4624VNS-(100,40)
			OU5-CSA-5-4624VNS-SB1	2/4/2002	3.1	mg/kg	
OU4	*OU4*	*4625 Rockwood Parkway*					
			OU4-4625RP-(10,250)	2/13/2001	28 J	mg/kg	
			OU4-4625RP-(110,250)	2/13/2001	6.19 J	mg/kg	
			OU4-4625RP-(110,270)	2/13/2001	6.31 J	mg/kg	
			OU4-4625RP-(110,290)	2/13/2001	6.37 J	mg/kg	
			OU4-4625RP-(130,250)	2/13/2001	6.12 J	mg/kg	
			OU4-4625RP-(130,270)	2/13/2001	4.11 J	mg/kg	
			OU4-4625RP-(130,290)	2/13/2001	4.69 J	mg/kg	
			OU4-4625RP-(30,250)	2/13/2001	21.8 J	mg/kg	
			OU4-4625RP-(30,270)	2/13/2001	96.5 J	mg/kg	
			OU4-4625RP-(30,290)	2/13/2001	85.4 J	mg/kg	
			OU4-4625RP-(30,310)	2/13/2001	21.4 J	mg/kg	
			OU4-4625RP-(50,250)	2/13/2001	9.09 J	mg/kg	
			OU4-4625RP-(50,270)	2/13/2001	10.1 J	mg/kg	
			OU4-4625RP-(50,290)	2/13/2001	45.8 J	mg/kg	
			OU4-4625RP-(50,310)	2/13/2001	29.7 J	mg/kg	
			OU4-4625RP-(70,250)	2/13/2001	6.81 J	mg/kg	
			OU4-4625RP-(70,290)	2/13/2001	7.78 J	mg/kg	
			OU4-4625RP-(70,310)	2/13/2001	4.07 J	mg/kg	
			OU4-4625RP-(90,270)	2/13/2001	15.4 J	mg/kg	
			OU4-4625RP-(90,290)	2/13/2001	10.5 J	mg/kg	
			OU4-4625RP-2-SB(1)	2/13/2001	3.84 J	mg/kg	
			OU4-4625RP-3-SB(1)	2/13/2001	12.8 J	mg/kg	
			OU4-4625RP-4-SB(1)	2/13/2001	7.33 J	mg/kg	
			OU4-4625RP-DUP01	2/13/2001	6.32 J	mg/kg	OU4-4625RP-(130,290)
CSA	*4*	*4625 Sedgwick Street*					
			OU5-CSA-4-4625SegS-(100,40)	12/6/2001	3.8	mg/kg	
			OU5-CSA-4-4625SegS-(100,60)	12/6/2001	8.1	mg/kg	
			OU5-CSA-4-4625SegS-(20,20)	12/6/2001	3.3	mg/kg	
			OU5-CSA-4-4625SegS-(20,40)	12/6/2001	2.4 J	mg/kg	
			OU5-CSA-4-4625SegS-(20,60)	12/6/2001	2 J	mg/kg	
			OU5-CSA-4-4625SegS-(40,0)	12/6/2001	2.8 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-4-4625SegS-(40,20)	12/6/2001	3.2	mg/kg	
			OU5-CSA-4-4625SegS-(40,40)	12/6/2001	2.2 J	mg/kg	
			OU5-CSA-4-4625SegS-(40,60)	12/6/2001	2.8	mg/kg	
			OU5-CSA-4-4625SegS-(60,20)	12/6/2001	3	mg/kg	
			OU5-CSA-4-4625SegS-(60,40)	12/6/2001	2.7	mg/kg	
			OU5-CSA-4-4625SegS-(60,60)	12/6/2001	1.9 J	mg/kg	
			OU5-CSA-4-4625SegS-(60,80)	12/6/2001	3.8	mg/kg	
			OU5-CSA-4-4625SegS-(80,20)	12/6/2001	5.5	mg/kg	
			OU5-CSA-4-4625SegS-(80,40)	12/6/2001	27.9	mg/kg	
			OU5-CSA-4-4625SegS-(80,60)	12/6/2001	3.3	mg/kg	
			OU5-CSA-4-4625SegS-(80,80)	12/6/2001	2.7	mg/kg	
			OU5-CSA-4-4625SegS-DUP01	12/6/2001	2.6	mg/kg	OU5-CSA-4-4625SegS-(20,40)
			OU5-CSA-4-4625SegS-SB1	12/3/2001	5.5	mg/kg	
OU4	OU4	4629 Rockwood Parkway					
			OU4-4629RP-(10,190)	2/12/2001	6.9 J	mg/kg	
			OU4-4629RP-(10,210)	2/12/2001	4.74 J	mg/kg	
			OU4-4629RP-(10,230)	2/12/2001	5.08 J	mg/kg	
			OU4-4629RP-(110,190)	2/12/2001	10.7 J	mg/kg	
			OU4-4629RP-(110,210)	2/12/2001	7.86 J	mg/kg	
			OU4-4629RP-(110,230)	2/12/2001	5.76 J	mg/kg	
			OU4-4629RP-(130,190)	2/12/2001	6.93 J	mg/kg	
			OU4-4629RP-(130,210)	2/12/2001	7.37 J	mg/kg	
			OU4-4629RP-(130,230)	2/12/2001	6.52 J	mg/kg	
			OU4-4629RP-(170,190)	2/13/2001	10.6 J	mg/kg	
			OU4-4629RP-(30,190)	2/12/2001	5.03 J	mg/kg	
			OU4-4629RP-(30,210)	2/12/2001	7.24 J	mg/kg	
			OU4-4629RP-(30,230)	2/12/2001	5.31 J	mg/kg	
			OU4-4629RP-(50,190)	2/12/2001	5.42 J	mg/kg	
			OU4-4629RP-(50,210)	2/12/2001	5.61 J	mg/kg	
			OU4-4629RP-(50,230)	2/12/2001	5.94 J	mg/kg	
			OU4-4629RP-(70,190)	2/12/2001	5.58 J	mg/kg	
			OU4-4629RP-(70,230)	2/12/2001	6.9 J	mg/kg	
			OU4-4629RP-(90,190)	2/12/2001	7.52 J	mg/kg	
			OU4-4629RP-(90,210)	2/12/2001	8.66 J	mg/kg	
			OU4-4629RP-DUP01	2/13/2001	8.74 J	mg/kg	OU4-4629RP-(110,190)
OU4	OU4	4633 Rockwood Parkway					
			OU4-4633RP-(10,150)	2/13/2001	7.02	mg/kg	
			OU4-4633RP-(10,170)	2/13/2001	9.8	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4633RP-(10,190)	2/13/2001	7.65	mg/kg	
			OU4-4633RP-(110,130)	2/13/2001	5.37	mg/kg	
			OU4-4633RP-(110,150)	2/13/2001	5.98	mg/kg	
			OU4-4633RP-(110,170)	2/13/2001	4.04	mg/kg	
			OU4-4633RP-(130,130)	2/13/2001	7.89 J	mg/kg	
			OU4-4633RP-(130,150)	2/13/2001	5.83 J	mg/kg	
			OU4-4633RP-(130,170)	2/13/2001	6.09 J	mg/kg	
			OU4-4633RP-(150,130)	2/13/2001	9.31 J	mg/kg	
			OU4-4633RP-(150,150)	2/13/2001	11.9 J	mg/kg	
			OU4-4633RP-(150,170)	2/13/2001	4.52 J	mg/kg	
			OU4-4633RP-(170,130)	2/13/2001	8.43	mg/kg	
			OU4-4633RP-(170,150)	2/13/2001	7.85	mg/kg	
			OU4-4633RP-(170,170)	2/13/2001	26.6 J	mg/kg	
			OU4-4633RP-(190,130)	2/13/2001	27.4	mg/kg	
			OU4-4633RP-(30,130)	2/13/2001	4.77	mg/kg	
			OU4-4633RP-(30,150)	2/13/2001	5.09	mg/kg	
			OU4-4633RP-(30,170)	2/13/2001	6.27	mg/kg	
			OU4-4633RP-(50,130)	2/13/2001	11.2	mg/kg	
			OU4-4633RP-(50,150)	2/13/2001	6.77	mg/kg	
			OU4-4633RP-(50,170)	2/13/2001	10.6	mg/kg	
			OU4-4633RP-(70,130)	2/13/2001	6.09	mg/kg	
			OU4-4633RP-(70,150)	2/13/2001	32.9	mg/kg	
			OU4-4633RP-(70,170)	2/13/2001	5.67 J	mg/kg	
			OU4-4633RP-(90,170)	2/13/2001	11.1 J	mg/kg	
			OU4-4633RP-1-SB(1)	2/13/2001	4.81	mg/kg	
			OU4-4633RP-3-SB(1)	2/13/2001	7.74	mg/kg	
			OU4-4633RP-4-SB(1)	2/13/2001	6.56	mg/kg	
			OU4-4633RP-DUP01	2/13/2001	4.56 J	mg/kg	
OU4	*OU4*	*4637 Rockwood Parkway*					
			OU4-4637RP-(10,110)	2/14/2001	11.9	mg/kg	
			OU4-4637RP-(10,130)	2/14/2001	3.7	mg/kg	
			OU4-4637RP-(10,90)	2/14/2001	7.95 J	mg/kg	
			OU4-4637RP-(110,110)	2/14/2001	8.65 J	mg/kg	
			OU4-4637RP-(110,70)	2/14/2001	10.8	mg/kg	
			OU4-4637RP-(110,90)	2/14/2001	7.5	mg/kg	
			OU4-4637RP-(130,110)	2/14/2001	9.17	mg/kg	
			OU4-4637RP-(130,130)	2/14/2001	16	mg/kg	
			OU4-4637RP-(130,70)	2/14/2001	65.9 J	mg/kg	
			OU4-4637RP-(130,90)	2/14/2001	16.1	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4637RP-(150,110)	2/14/2001	8.78	mg/kg	
			OU4-4637RP-(150,70)	2/14/2001	9.49	mg/kg	
			OU4-4637RP-(150,90)	2/14/2001	48 J	mg/kg	
			OU4-4637RP-(170,110)	2/14/2001	14.3	mg/kg	
			OU4-4637RP-(170,70)	2/14/2001	14.6	mg/kg	
			OU4-4637RP-(170,90)	2/14/2001	17.7	mg/kg	
			OU4-4637RP-(190,110)	2/14/2001	35.3	mg/kg	
			OU4-4637RP-(190,70)	2/14/2001	33.5	mg/kg	
			OU4-4637RP-(190,90)	2/14/2001	15.6	mg/kg	
			OU4-4637RP-(30,110)	2/14/2001	6.66	mg/kg	
			OU4-4637RP-(30,130)	2/14/2001	10.2	mg/kg	
			OU4-4637RP-(30,90)	2/14/2001	280	mg/kg	
			OU4-4637RP-(50,70)	2/14/2001	10.6 J	mg/kg	
			OU4-4637RP-(70,70)	2/14/2001	6.84 J	mg/kg	
			OU4-4637RP-(90,70)	2/14/2001	81.1	mg/kg	
			OU4-4637RP-DUP01	2/14/2001	16.4	mg/kg	OU4-4637RP-(190,90)
OU4	OU4	4641 Rockwood Parkway					
			OU4-4641RP-(10,10)	2/14/2001	5.43	mg/kg	
			OU4-4641RP-(10,30)	2/14/2001	5.33	mg/kg	
			OU4-4641RP-(10,50)	2/14/2001	4.24	mg/kg	
			OU4-4641RP-(10,70)	2/14/2001	10.2	mg/kg	
			OU4-4641RP-(110,10)	2/14/2001	21.4	mg/kg	
			OU4-4641RP-(110,30)	2/14/2001	18.4	mg/kg	
			OU4-4641RP-(110,50)	2/14/2001	8.75	mg/kg	
			OU4-4641RP-(110,70)	2/14/2001	21.7	mg/kg	
			OU4-4641RP-(130,10)	2/14/2001	11.1	mg/kg	
			OU4-4641RP-(130,30)	2/14/2001	4.88	mg/kg	
			OU4-4641RP-(130,50)	2/14/2001	17.3	mg/kg	
			OU4-4641RP-(130,70)	2/14/2001	20	mg/kg	
			OU4-4641RP-(150,10)	2/14/2001	11.6	mg/kg	
			OU4-4641RP-(150,30)	2/14/2001	23.9	mg/kg	
			OU4-4641RP-(150,50)	2/14/2001	14	mg/kg	
			OU4-4641RP-(150,70)	2/14/2001	9.52	mg/kg	
			OU4-4641RP-(170,10)	2/14/2001	20.9	mg/kg	
			OU4-4641RP-(170,30)	2/14/2001	22.9	mg/kg	
			OU4-4641RP-(170,50)	2/14/2001	11.9	mg/kg	
			OU4-4641RP-(170,70)	2/14/2001	7.17	mg/kg	
			OU4-4641RP-(190,10)	2/14/2001	54.3	mg/kg	
			OU4-4641RP-(190,30)	2/14/2001	169	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4641RP-(190,50)	2/14/2001	48.2	mg/kg	
			OU4-4641RP-(190,70)	2/14/2001	11.7	mg/kg	
			OU4-4641RP-(210,10)	2/14/2001	27.3	mg/kg	
			OU4-4641RP-(210,30)	2/14/2001	164	mg/kg	
			OU4-4641RP-(210,50)	2/14/2001	154	mg/kg	
			OU4-4641RP-(210,70)	2/14/2001	45.7	mg/kg	
			OU4-4641RP-(30,10)	2/14/2001	3.47	mg/kg	
			OU4-4641RP-(30,30)	2/14/2001	4.72	mg/kg	
			OU4-4641RP-(30,50)	2/14/2001	4.6	mg/kg	
			OU4-4641RP-(30,70)	2/14/2001	6.57	mg/kg	
			OU4-4641RP-(50,10)	2/14/2001	6.31	mg/kg	
			OU4-4641RP-(50,70)	2/14/2001	6.38	mg/kg	
			OU4-4641RP-(70,10)	2/14/2001	8.16	mg/kg	
			OU4-4641RP-(70,30)	2/14/2001	18.6	mg/kg	
			OU4-4641RP-(70,50)	2/14/2001	10.6	mg/kg	
			OU4-4641RP-(70,70)	2/14/2001	4.69	mg/kg	
			OU4-4641RP-(90,10)	2/14/2001	7.47	mg/kg	
			OU4-4641RP-(90,30)	2/14/2001	9.96	mg/kg	
			OU4-4641RP-(90,70)	2/14/2001	26.7	mg/kg	
			OU4-4641RP-DUP01	2/14/2001	172	mg/kg	OU4-4641RP-(210,30)
			OU4-4641RP-DUP02	2/14/2001	14.3	mg/kg	OU4-4641RP-(90,30)
CSA	5	4647 Massachusetts Avenue					
			OU5-CSA-5-4647MA-(100,200)	11/9/2001	26.5	mg/kg	
			OU5-CSA-5-4647MA-(140,180)	11/9/2001	4.5	mg/kg	
			OU5-CSA-5-4647MA-(140,200)	11/9/2001	3.1	mg/kg	
			OU5-CSA-5-4647MA-(160,140)	11/9/2001	7.5	mg/kg	
			OU5-CSA-5-4647MA-(160,160)	11/9/2001	6.6	mg/kg	
			OU5-CSA-5-4647MA-(160,180)	11/9/2001	3.7	mg/kg	
			OU5-CSA-5-4647MA-(160,200)	11/9/2001	3.3	mg/kg	
			OU5-CSA-5-4647MA-(180,100)	11/9/2001	5.8	mg/kg	
			OU5-CSA-5-4647MA-(180,120)	11/9/2001	3.8	mg/kg	
			OU5-CSA-5-4647MA-(180,160)	11/9/2001	6.1	mg/kg	
			OU5-CSA-5-4647MA-(180,180)	11/9/2001	4.3	mg/kg	
			OU5-CSA-5-4647MA-(180,200)	11/9/2001	4.6	mg/kg	
			OU5-CSA-5-4647MA-(200,120)	11/9/2001	3.5	mg/kg	
			OU5-CSA-5-4647MA-(200,160)	11/9/2001	9.2	mg/kg	
			OU5-CSA-5-4647MA-(200,60)	11/9/2001	26.2	mg/kg	
			OU5-CSA-5-4647MA-(200,80)	11/9/2001	19.1	mg/kg	
			OU5-CSA-5-4647MA-(220,100)	11/9/2001	13.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-5-4647MA-(220,120)	11/9/2001	11.8	mg/kg	
			OU5-CSA-5-4647MA-(220,60)	11/9/2001	13.8	mg/kg	
			OU5-CSA-5-4647MA-(220,80)	11/9/2001	11.2	mg/kg	
			OU5-CSA-5-4647MA-(240,80)	11/9/2001	15.8	mg/kg	
			OU5-CSA-5-4647MA-DUP01	11/9/2001	5.3	mg/kg	OU5-CSA-5-4647MA-(180,200)
			OU5-CSA-5-4647MA-SB1	11/7/2001	7	mg/kg	
CSA	5	4651 Massachusetts Avenue					
			OU5-CSA-5-4651MA-(100,160)	10/30/2001	8.1	mg/kg	
			OU5-CSA-5-4651MA-(100,180)	10/30/2001	6.3	mg/kg	
			OU5-CSA-5-4651MA-(120,120)	10/30/2001	3.9	mg/kg	
			OU5-CSA-5-4651MA-(120,140)	10/30/2001	4.5	mg/kg	
			OU5-CSA-5-4651MA-(120,180)	10/30/2001	6.3	mg/kg	
			OU5-CSA-5-4651MA-(140,100)	10/30/2001	23.2	mg/kg	
			OU5-CSA-5-4651MA-(140,120)	10/30/2001	48.3	mg/kg	
			OU5-CSA-5-4651MA-(140,140)	10/30/2001	3.4	mg/kg	
			OU5-CSA-5-4651MA-(140,160)	10/30/2001	3 J	mg/kg	
			OU5-CSA-5-4651MA-(140,80)	10/30/2001	9.6	mg/kg	
			OU5-CSA-5-4651MA-(160,100)	10/30/2001	3.9	mg/kg	
			OU5-CSA-5-4651MA-(160,120)	10/30/2001	2.3	mg/kg	
			OU5-CSA-5-4651MA-(160,40)	10/30/2001	15.8	mg/kg	
			OU5-CSA-5-4651MA-(160,60)	10/30/2001	56.3	mg/kg	
			OU5-CSA-5-4651MA-(160,80)	10/30/2001	11.3	mg/kg	
			OU5-CSA-5-4651MA-(180,40)	10/30/2001	11.2	mg/kg	
			OU5-CSA-5-4651MA-(180,60)	10/30/2001	153	mg/kg	
			OU5-CSA-5-4651MA-(180,80)	10/30/2001	125	mg/kg	
			OU5-CSA-5-4651MA-(200,40)	10/30/2001	9.7	mg/kg	
			OU5-CSA-5-4651MA-(200,60)	10/30/2001	21	mg/kg	
			OU5-CSA-5-4651MA-DUP01	10/30/2001	120	mg/kg	OU5-CSA-5-4651MA-(180,80)
			OU5-CSA-5-4651MA-SB1	10/29/2001	91.1 J	mg/kg	
			OU5-CSA-5-4651MA-SB2	10/29/2001	5.9 J	mg/kg	
			OU5-CSA-5-4651MA-SB3	10/29/2001	3.2 J	mg/kg	
			OU5-CSA-5-4651MA-SB4	10/29/2001	3.2 J	mg/kg	
			OU5-CSA-5-4651MA-SB5	10/29/2001	3.4 J	mg/kg	
			OU5-CSA-5-4651MA-SB6	10/29/2001	2.8 J	mg/kg	
CSA	5	4655 Massachusetts Avenue					
			OU5-CSA-5-4655MA (Crawlspace 1)	10/19/2001	5.6	mg/kg	
			OU5-CSA-5-4655MA (Crawlspace 2)	5/22/2002	2.1	mg/kg	
			OU5-CSA-5-4655MA-(100,100)	10/19/2001	3.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-5-4655MA-(100,120)	10/19/2001	3.3	mg/kg	
			OU5-CSA-5-4655MA-(100,140)	10/19/2001	2.9	mg/kg	
			OU5-CSA-5-4655MA-(100,160)	10/19/2001	6.4	mg/kg	
			OU5-CSA-5-4655MA-(100,80)	10/19/2001	4.4	mg/kg	
			OU5-CSA-5-4655MA-(120,120)	10/19/2001	3.2	mg/kg	
			OU5-CSA-5-4655MA-(120,140)	10/19/2001	2.9	mg/kg	
			OU5-CSA-5-4655MA-(120,160)	10/19/2001	2 J	mg/kg	
			OU5-CSA-5-4655MA-(20,20)	10/19/2001	3.2	mg/kg	
			OU5-CSA-5-4655MA-(20,40)	10/19/2001	10.2	mg/kg	
			OU5-CSA-5-4655MA-(20,60)	10/19/2001	37.7	mg/kg	
			OU5-CSA-5-4655MA-(40,100)	10/19/2001	290	mg/kg	
			OU5-CSA-5-4655MA-(40,20)	10/19/2001	3.9	mg/kg	
			OU5-CSA-5-4655MA-(40,40)	10/19/2001	10.3	mg/kg	
			OU5-CSA-5-4655MA-(40,60)	10/19/2001	6.3	mg/kg	
			OU5-CSA-5-4655MA-(40,80)	10/19/2001	195	mg/kg	
			OU5-CSA-5-4655MA-(60,100)	10/19/2001	4.2	mg/kg	
			OU5-CSA-5-4655MA-(60,120)	10/19/2001	13	mg/kg	
			OU5-CSA-5-4655MA-(60,20)	10/19/2001	4.1	mg/kg	
			OU5-CSA-5-4655MA-(60,40)	10/19/2001	5.7	mg/kg	
			OU5-CSA-5-4655MA-(60,60)	10/19/2001	4.3	mg/kg	
			OU5-CSA-5-4655MA-(80,100)	10/19/2001	73	mg/kg	
			OU5-CSA-5-4655MA-(80,120)	10/19/2001	56.3	mg/kg	
			OU5-CSA-5-4655MA-(80,140)	10/19/2001	60.2	mg/kg	
			OU5-CSA-5-4655MA-(80,160)	10/19/2001	27.1	mg/kg	
			OU5-CSA-5-4655MA-(80,40)	10/19/2001	5	mg/kg	
			OU5-CSA-5-4655MA-(80,60)	10/19/2001	63.3	mg/kg	
			OU5-CSA-5-4655MA-(80,80)	10/19/2001	85.5	mg/kg	
			OU5-CSA-5-4655MA-DUP01	10/19/2001	3.2	mg/kg	OU5-CSA-5-4655MA-(100,140)
			OU5-CSA-5-4655MA-SB1	10/29/2001	2.7	mg/kg	
CSA	10	4708 Sedgwick Street					
			OU5-CSA-10-4708SegS-(0,20)	11/30/2001	9.4	mg/kg	
			OU5-CSA-10-4708SegS-(0,40)	11/30/2001	7.2	mg/kg	
			OU5-CSA-10-4708SegS-(0,60)	11/30/2001	1.8 J	mg/kg	
			OU5-CSA-10-4708SegS-(100,40)	11/30/2001	5.3	mg/kg	
			OU5-CSA-10-4708SegS-(100,60)	11/30/2001	12.3	mg/kg	
			OU5-CSA-10-4708SegS-(20,20)	11/30/2001	6	mg/kg	
			OU5-CSA-10-4708SegS-(20,40)	11/30/2001	4	mg/kg	
			OU5-CSA-10-4708SegS-(20,60)	11/30/2001	6.2	mg/kg	
			OU5-CSA-10-4708SegS-(40,20)	11/30/2001	23.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-10-4708SegS-(40,40)	11/30/2001	6.6	mg/kg	
			OU5-CSA-10-4708SegS-(40,60)	11/30/2001	4	mg/kg	
			OU5-CSA-10-4708SegS-(40,80)	11/30/2001	2 J	mg/kg	
			OU5-CSA-10-4708SegS-(60,40)	11/30/2001	4.3	mg/kg	
			OU5-CSA-10-4708SegS-(60,60)	11/30/2001	7.1	mg/kg	
			OU5-CSA-10-4708SegS-(60,80)	11/30/2001	5	mg/kg	
			OU5-CSA-10-4708SegS-(80,60)	11/30/2001	6	mg/kg	
			OU5-CSA-10-4708SegS-(80,80)	11/30/2001	2.3 J	mg/kg	
			OU5-CSA-10-4708SegS-DUP01	11/30/2001	6.3	mg/kg	OU5-CSA-10-4708SegS-(20,60)
			OU5-CSA-10-4708SegS-SB1	11/26/2001	1.8 J	mg/kg	
OU4	OU4	4710 Quebec Street					
			OU4-4710QS-(10,70)	2/2/2001	12.5	mg/kg	
			OU4-4710QS-(10,90)	2/2/2001	41.5	mg/kg	
			OU4-4710QS-(110,110)	2/2/2001	25.3	mg/kg	
			OU4-4710QS-(110,130)	2/2/2001	12.5	mg/kg	
			OU4-4710QS-(110,50)	2/2/2001	42.7	mg/kg	
			OU4-4710QS-(110,70)	2/2/2001	49.4	mg/kg	
			OU4-4710QS-(110,90)	2/2/2001	27.2	mg/kg	
			OU4-4710QS-(130,110)	2/2/2001	20.8	mg/kg	
			OU4-4710QS-(130,70)	2/2/2001	17.2	mg/kg	
			OU4-4710QS-(130,90)	2/2/2001	3.52	mg/kg	
			OU4-4710QS-(150,90)	2/2/2001	5.7	mg/kg	
			OU4-4710QS-(30,110)	2/2/2001	6.82	mg/kg	
			OU4-4710QS-(30,50)	2/2/2001	6.97	mg/kg	
			OU4-4710QS-(30,70)	2/2/2001	38.6	mg/kg	
			OU4-4710QS-(30,90)	2/2/2001	39.1	mg/kg	
			OU4-4710QS-(50,110)	2/2/2001	19.6	mg/kg	
			OU4-4710QS-(50,130)	2/2/2001	6.16	mg/kg	
			OU4-4710QS-(50,30)	2/2/2001	9.74	mg/kg	
			OU4-4710QS-(50,50)	2/2/2001	6.58	mg/kg	
			OU4-4710QS-(50,70)	2/2/2001	30.8	mg/kg	
			OU4-4710QS-(50,90)	2/2/2001	30.7	mg/kg	
			OU4-4710QS-(70,10)	2/2/2001	8.03	mg/kg	
			OU4-4710QS-(70,110)	2/2/2001	20	mg/kg	
			OU4-4710QS-(70,130)	2/2/2001	7.98	mg/kg	
			OU4-4710QS-(70,150)	2/2/2001	3.52	mg/kg	
			OU4-4710QS-(70,30)	2/2/2001	7.46	mg/kg	
			OU4-4710QS-(70,50)	2/2/2001	56.3	mg/kg	
			OU4-4710QS-(70,70)	2/2/2001	15.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4710QS-(90,110)	2/2/2001	35.1	mg/kg	
			OU4-4710QS-(90,130)	2/2/2001	5.38	mg/kg	
			OU4-4710QS-(90,150)	2/2/2001	17.2	mg/kg	
			OU4-4710QS-(90,30)	2/2/2001	10.6	mg/kg	
			OU4-4710QS-(90,50)	2/2/2001	5.13	mg/kg	
			OU4-4710QS-(90,90)	2/2/2001	10.4	mg/kg	
			OU4-4710QS-DUP01	2/2/2001	21.3	mg/kg	OU4-4710QS-(130,70)
			OU4-4710QS-DUP02	2/2/2001	22	mg/kg	OU4-4710QS-(110,110)
OU4	OU4	4710 Woodway Lane					
			OU4-4710WL-(-10,110)	2/12/2001	4.97	mg/kg	
			OU4-4710WL-(-10,130)	2/9/2001	17.8	mg/kg	
			OU4-4710WL-(10,110)	2/12/2001	8.43 J	mg/kg	
			OU4-4710WL-(10,150)	2/7/2001	4.15	mg/kg	
			OU4-4710WL-(10,90)	2/12/2001	8.64	mg/kg	
			OU4-4710WL-(110,110)	2/7/2001	5.43	mg/kg	
			OU4-4710WL-(110,130)	2/7/2001	5.16	mg/kg	
			OU4-4710WL-(110,150)	2/7/2001	4.85 J	mg/kg	
			OU4-4710WL-(110,170)	2/7/2001	4.32	mg/kg	
			OU4-4710WL-(110,190)	2/8/2001	6.58	mg/kg	
			OU4-4710WL-(110,210)	2/8/2001	3.17	mg/kg	
			OU4-4710WL-(110,230)	2/8/2001	3.49	mg/kg	
			OU4-4710WL-(110,250)	2/8/2001	4.36	mg/kg	
			OU4-4710WL-(110,70)	2/7/2001	6.9	mg/kg	
			OU4-4710WL-(110,90)	2/7/2001	7.85	mg/kg	
			OU4-4710WL-(130,-10)	2/9/2001	5.51	mg/kg	
			OU4-4710WL-(130,-30)	2/12/2001	6	mg/kg	
			OU4-4710WL-(130,110)	2/7/2001	4.85 J	mg/kg	
			OU4-4710WL-(130,130)	2/7/2001	4.93	mg/kg	
			OU4-4710WL-(130,150)	2/7/2001	6.91 J	mg/kg	
			OU4-4710WL-(130,170)	2/8/2001	3.37	mg/kg	
			OU4-4710WL-(130,190)	2/8/2001	3.79	mg/kg	
			OU4-4710WL-(130,210)	2/8/2001	3.44	mg/kg	
			OU4-4710WL-(130,230)	2/8/2001	3.08	mg/kg	
			OU4-4710WL-(130,250)	2/8/2001	4.92	mg/kg	
			OU4-4710WL-(130,270)	2/9/2001	3.24 J	mg/kg	
			OU4-4710WL-(130,50)	2/7/2001	5.51	mg/kg	
			OU4-4710WL-(130,70)	2/7/2001	27.6 J	mg/kg	
			OU4-4710WL-(130,90)	2/7/2001	6.59	mg/kg	
			OU4-4710WL-(150,-10)	2/9/2001	8.13	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4710WL-(150,-30)	2/9/2001	6.43	mg/kg	
			OU4-4710WL-(150,10)	2/7/2001	3.42	mg/kg	
			OU4-4710WL-(150,110)	2/7/2001	7.74 J	mg/kg	
			OU4-4710WL-(150,130)	2/7/2001	4.25	mg/kg	
			OU4-4710WL-(150,150)	2/8/2001	4.75	mg/kg	
			OU4-4710WL-(150,170)	2/8/2001	5.91	mg/kg	
			OU4-4710WL-(150,190)	2/8/2001	4.95	mg/kg	
			OU4-4710WL-(150,210)	2/8/2001	5.65	mg/kg	
			OU4-4710WL-(150,230)	2/8/2001	4.53	mg/kg	
			OU4-4710WL-(150,250)	2/9/2001	4.17 J	mg/kg	
			OU4-4710WL-(150,270)	2/9/2001	2.99 J	mg/kg	
			OU4-4710WL-(150,290)	2/9/2001	3.06 J	mg/kg	
			OU4-4710WL-(150,30)	2/7/2001	10.6	mg/kg	
			OU4-4710WL-(150,50)	2/7/2001	22.3	mg/kg	
			OU4-4710WL-(150,70)	2/7/2001	8.36	mg/kg	
			OU4-4710WL-(150,90)	2/7/2001	33.7	mg/kg	
			OU4-4710WL-(170,-10)	2/7/2001	6.6	mg/kg	
			OU4-4710WL-(170,-30)	2/9/2001	3.97	mg/kg	
			OU4-4710WL-(170,10)	2/7/2001	3.87	mg/kg	
			OU4-4710WL-(170,110)	2/7/2001	5.7	mg/kg	
			OU4-4710WL-(170,130)	2/8/2001	5.52	mg/kg	
			OU4-4710WL-(170,150)	2/8/2001	5.07	mg/kg	
			OU4-4710WL-(170,170)	2/8/2001	7.3	mg/kg	
			OU4-4710WL-(170,190)	2/8/2001	5.4	mg/kg	
			OU4-4710WL-(170,210)	2/8/2001	4.01	mg/kg	
			OU4-4710WL-(170,230)	2/9/2001	3.22 J	mg/kg	
			OU4-4710WL-(170,250)	2/9/2001	3.21 J	mg/kg	
			OU4-4710WL-(170,270)	2/9/2001	3.15 J	mg/kg	
			OU4-4710WL-(170,290)	2/12/2001	5.9	mg/kg	
			OU4-4710WL-(170,30)	2/7/2001	8.36	mg/kg	
			OU4-4710WL-(170,310)	2/12/2001	13.3	mg/kg	
			OU4-4710WL-(170,50)	2/7/2001	4.98	mg/kg	
			OU4-4710WL-(170,70)	2/7/2001	5.6	mg/kg	
			OU4-4710WL-(170,90)	2/7/2001	60.6 J	mg/kg	
			OU4-4710WL-(190,10)	2/7/2001	6.63	mg/kg	
			OU4-4710WL-(190,110)	2/8/2001	6.41	mg/kg	
			OU4-4710WL-(190,130)	2/8/2001	4.62	mg/kg	
			OU4-4710WL-(190,150)	2/8/2001	5.24	mg/kg	
			OU4-4710WL-(190,170)	2/8/2001	4.95	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4710WL-(190,190)	2/8/2001	3.59	mg/kg	
			OU4-4710WL-(190,210)	2/9/2001	4.57 J	mg/kg	
			OU4-4710WL-(190,230)	2/9/2001	3.38	mg/kg	
			OU4-4710WL-(190,250)	2/9/2001	10.7 J	mg/kg	
			OU4-4710WL-(190,270)	2/12/2001	11.7	mg/kg	
			OU4-4710WL-(190,290)	2/12/2001	4.39	mg/kg	
			OU4-4710WL-(190,30)	2/7/2001	4.91	mg/kg	
			OU4-4710WL-(190,310)	2/12/2001	3.82	mg/kg	
			OU4-4710WL-(190,330)	2/12/2001	20.1 J	mg/kg	
			OU4-4710WL-(190,50)	2/7/2001	6.95 J	mg/kg	
			OU4-4710WL-(190,70)	2/7/2001	4.56	mg/kg	
			OU4-4710WL-(190,90)	2/7/2001	38.2	mg/kg	
			OU4-4710WL-(210,110)	2/8/2001	6.36	mg/kg	
			OU4-4710WL-(210,130)	2/8/2001	4.78	mg/kg	
			OU4-4710WL-(210,150)	2/9/2001	4.51 J	mg/kg	
			OU4-4710WL-(210,170)	2/9/2001	5.29 J	mg/kg	
			OU4-4710WL-(210,190)	2/9/2001	5.29 J	mg/kg	
			OU4-4710WL-(210,210)	2/9/2001	5.09 J	mg/kg	
			OU4-4710WL-(210,230)	2/9/2001	2.49 J	mg/kg	
			OU4-4710WL-(210,250)	2/12/2001	4.46	mg/kg	
			OU4-4710WL-(210,270)	2/12/2001	5.68	mg/kg	
			OU4-4710WL-(210,290)	2/12/2001	5.26	mg/kg	
			OU4-4710WL-(210,30)	2/7/2001	4.78	mg/kg	
			OU4-4710WL-(210,310)	2/12/2001	2.78 J	mg/kg	
			OU4-4710WL-(210,50)	2/7/2001	5.52	mg/kg	
			OU4-4710WL-(210,70)	2/7/2001	5.53	mg/kg	
			OU4-4710WL-(210,90)	2/8/2001	5.31	mg/kg	
			OU4-4710WL-(230,110)	2/8/2001	5.71	mg/kg	
			OU4-4710WL-(230,130)	2/9/2001	5.3 J	mg/kg	
			OU4-4710WL-(230,150)	2/9/2001	5.31 J	mg/kg	
			OU4-4710WL-(230,170)	2/9/2001	5.84 J	mg/kg	
			OU4-4710WL-(230,190)	2/9/2001	2.97 J	mg/kg	
			OU4-4710WL-(230,210)	2/9/2001	7.05 J	mg/kg	
			OU4-4710WL-(230,230)	2/12/2001	6.2	mg/kg	
			OU4-4710WL-(230,250)	2/12/2001	2.72	mg/kg	
			OU4-4710WL-(230,270)	2/12/2001	3.02	mg/kg	
			OU4-4710WL-(230,290)	2/12/2001	4.07 J	mg/kg	
			OU4-4710WL-(230,50)	2/7/2001	5.26	mg/kg	
			OU4-4710WL-(230,70)	2/8/2001	5.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4710WL-(230,90)	2/8/2001	5.61	mg/kg	
			OU4-4710WL-(250,110)	2/9/2001	4.76	mg/kg	
			OU4-4710WL-(250,130)	2/9/2001	5.16	mg/kg	
			OU4-4710WL-(250,150)	2/9/2001	5.83 J	mg/kg	
			OU4-4710WL-(250,170)	2/9/2001	4.98 J	mg/kg	
			OU4-4710WL-(250,190)	2/9/2001	3.18 J	mg/kg	
			OU4-4710WL-(250,210)	2/9/2001	5.44 J	mg/kg	
			OU4-4710WL-(250,230)	2/12/2001	4.53	mg/kg	
			OU4-4710WL-(250,250)	2/12/2001	2.49 J	mg/kg	
			OU4-4710WL-(250,70)	2/8/2001	9.49	mg/kg	
			OU4-4710WL-(250,90)	2/8/2001	6	mg/kg	
			OU4-4710WL-(270,110)	2/9/2001	5.22	mg/kg	
			OU4-4710WL-(270,130)	2/9/2001	5.3 J	mg/kg	
			OU4-4710WL-(270,150)	2/9/2001	7.12 J	mg/kg	
			OU4-4710WL-(270,170)	2/9/2001	4.91 J	mg/kg	
			OU4-4710WL-(270,190)	2/9/2001	3.5	mg/kg	
			OU4-4710WL-(270,210)	2/9/2001	8.55 J	mg/kg	
			OU4-4710WL-(270,230)	2/12/2001	6.19	mg/kg	
			OU4-4710WL-(270,70)	2/8/2001	4.73	mg/kg	
			OU4-4710WL-(270,90)	2/9/2001	4.69 J	mg/kg	
			OU4-4710WL-(290,110)	2/9/2001	5.77 J	mg/kg	
			OU4-4710WL-(290,130)	2/9/2001	5.32 J	mg/kg	
			OU4-4710WL-(290,150)	2/9/2001	4.29 J	mg/kg	
			OU4-4710WL-(290,170)	2/9/2001	2.99	mg/kg	
			OU4-4710WL-(290,190)	2/9/2001	4.84	mg/kg	
			OU4-4710WL-(290,210)	2/9/2001	4.89 J	mg/kg	
			OU4-4710WL-(290,90)	2/9/2001	5.73 J	mg/kg	
			OU4-4710WL-(30,110)	2/9/2001	7.16 J	mg/kg	
			OU4-4710WL-(30,130)	2/7/2001	16.1	mg/kg	
			OU4-4710WL-(30,150)	2/7/2001	13.3	mg/kg	
			OU4-4710WL-(30,170)	2/7/2001	4.29	mg/kg	
			OU4-4710WL-(30,70)	2/12/2001	3.37	mg/kg	
			OU4-4710WL-(30,90)	2/9/2001	13.5	mg/kg	
			OU4-4710WL-(310,110)	2/9/2001	4.43	mg/kg	
			OU4-4710WL-(310,130)	2/9/2001	5.94 J	mg/kg	
			OU4-4710WL-(310,150)	2/9/2001	5.18 J	mg/kg	
			OU4-4710WL-(310,170)	2/9/2001	5.06	mg/kg	
			OU4-4710WL-(330,130)	2/9/2001	4.53	mg/kg	
			OU4-4710WL-(330,150)	2/9/2001	4.1	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4710WL-(50,110)	2/7/2001	6.88	mg/kg	
			OU4-4710WL-(50,130)	2/7/2001	8.16	mg/kg	
			OU4-4710WL-(50,150)	2/7/2001	6.4	mg/kg	
			OU4-4710WL-(50,170)	2/7/2001	7.65 J	mg/kg	
			OU4-4710WL-(50,190)	2/7/2001	4 J	mg/kg	
			OU4-4710WL-(50,50)	2/12/2001	6.22	mg/kg	
			OU4-4710WL-(50,70)	2/9/2001	10.8	mg/kg	
			OU4-4710WL-(50,90)	2/9/2001	26.9	mg/kg	
			OU4-4710WL-(70,110)	2/7/2001	5.4	mg/kg	
			OU4-4710WL-(70,130)	2/7/2001	10.3	mg/kg	
			OU4-4710WL-(70,150)	2/7/2001	8.37 J	mg/kg	
			OU4-4710WL-(70,170)	2/7/2001	4.6 J	mg/kg	
			OU4-4710WL-(70,190)	2/7/2001	3.83 J	mg/kg	
			OU4-4710WL-(70,210)	2/7/2001	4.99 J	mg/kg	
			OU4-4710WL-(70,30)	2/12/2001	12.5	mg/kg	
			OU4-4710WL-(70,50)	2/9/2001	19.2 J	mg/kg	
			OU4-4710WL-(70,70)	2/9/2001	7.12	mg/kg	
			OU4-4710WL-(70,90)	2/7/2001	5.98	mg/kg	
			OU4-4710WL-(90,110)	2/7/2001	5.27	mg/kg	
			OU4-4710WL-(90,130)	2/7/2001	4.59 J	mg/kg	
			OU4-4710WL-(90,150)	2/7/2001	5.83	mg/kg	
			OU4-4710WL-(90,170)	2/7/2001	7.31 J	mg/kg	
			OU4-4710WL-(90,190)	2/7/2001	3.89 J	mg/kg	
			OU4-4710WL-(90,210)	2/8/2001	4.4	mg/kg	
			OU4-4710WL-(90,230)	2/8/2001	6.4	mg/kg	
			OU4-4710WL-(90,50)	2/12/2001	9.17	mg/kg	
			OU4-4710WL-(90,70)	2/7/2001	14.2	mg/kg	
			OU4-4710WL-(90,90)	2/7/2001	6.41	mg/kg	
			OU4-4710WL-DUP01	2/7/2001	6.27	mg/kg	OU4-4710WL-(190,50)
			OU4-4710WL-DUP02	2/8/2001	6.33	mg/kg	OU4-4710WL-(210,90)
			OU4-4710WL-DUP03	2/7/2001	10.5	mg/kg	OU4-4710WL-(70,130)
			OU4-4710WL-DUP04	2/8/2001	4.38	mg/kg	OU4-4710WL-(150,150)
			OU4-4710WL-DUP05	2/9/2001	4.98 J	mg/kg	OU4-4710WL-(270,170)
			OU4-4710WL-DUP06	2/9/2001	5.45 J	mg/kg	OU4-4710WL-(190,210)
			OU4-4710WL-DUP07	2/12/2001	4.16	mg/kg	OU4-4710WL-(210,250)
			OU4-4710WL-DUP08	2/9/2001	18.4 J	mg/kg	OU4-4710WL-(-10,130)
			OU4-4710WL-DUP09	2/12/2001	21.7 J	mg/kg	OU4-4710WL-(190,330)
CSA	4	4715 Sedgwick Street					
			OU5-CSA-4-4715SegS-(0,40)	12/17/2001	8.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-4-4715SegS-(0,60)	12/17/2001	4.5	mg/kg	
			OU5-CSA-4-4715SegS-(100,100)	12/17/2001	8.1	mg/kg	
			OU5-CSA-4-4715SegS-(100,20)	12/17/2001	3.1	mg/kg	
			OU5-CSA-4-4715SegS-(100,40)	12/17/2001	7.4	mg/kg	
			OU5-CSA-4-4715SegS-(100,60)	12/17/2001	8.1	mg/kg	
			OU5-CSA-4-4715SegS-(100,80)	12/17/2001	15.9	mg/kg	
			OU5-CSA-4-4715SegS-(120,100)	12/17/2001	6.8	mg/kg	
			OU5-CSA-4-4715SegS-(120,40)	12/17/2001	7.8	mg/kg	
			OU5-CSA-4-4715SegS-(120,60)	12/17/2001	7.6	mg/kg	
			OU5-CSA-4-4715SegS-(120,80)	12/17/2001	9.5	mg/kg	
			OU5-CSA-4-4715SegS-(140,100)	12/17/2001	4.3 J	mg/kg	
			OU5-CSA-4-4715SegS-(140,40)	12/17/2001	3.2	mg/kg	
			OU5-CSA-4-4715SegS-(140,60)	12/17/2001	1.6 J	mg/kg	
			OU5-CSA-4-4715SegS-(140,80)	12/17/2001	8.4	mg/kg	
			OU5-CSA-4-4715SegS-(160,40)	12/17/2001	3.5 J	mg/kg	
			OU5-CSA-4-4715SegS-(160,60)	12/17/2001	5.5	mg/kg	
			OU5-CSA-4-4715SegS-(160,80)	12/17/2001	6.3	mg/kg	
			OU5-CSA-4-4715SegS-(20,0)	12/17/2001	6.3	mg/kg	
			OU5-CSA-4-4715SegS-(20,20)	12/17/2001	7.9	mg/kg	
			OU5-CSA-4-4715SegS-(20,40)	12/17/2001	17.8	mg/kg	
			OU5-CSA-4-4715SegS-(20,60)	12/17/2001	3.2	mg/kg	
			OU5-CSA-4-4715SegS-(40,0)	12/17/2001	5	mg/kg	
			OU5-CSA-4-4715SegS-(40,20)	12/17/2001	5.1	mg/kg	
			OU5-CSA-4-4715SegS-(40,40)	12/17/2001	5.6	mg/kg	
			OU5-CSA-4-4715SegS-(40,60)	12/17/2001	2.8 J	mg/kg	
			OU5-CSA-4-4715SegS-(40,80)	12/17/2001	2.6	mg/kg	
			OU5-CSA-4-4715SegS-(60,20)	12/17/2001	6.2	mg/kg	
			OU5-CSA-4-4715SegS-(60,60)	12/17/2001	36	mg/kg	
			OU5-CSA-4-4715SegS-(60,80)	12/17/2001	5.8	mg/kg	
			OU5-CSA-4-4715SegS-(80,20)	12/17/2001	5.8	mg/kg	
			OU5-CSA-4-4715SegS-(80,40)	12/17/2001	3	mg/kg	
			OU5-CSA-4-4715SegS-(80,80)	12/17/2001	50.1	mg/kg	
			OU5-CSA-4-4715SegS-DUP01	12/17/2001	3.7 J	mg/kg	OU5-CSA-4-4715SegS-(40,20)
			OU5-CSA-4-4715SegS-DUP02	12/17/2001	7.3	mg/kg	OU5-CSA-4-4715SegS-(100,40)
			OU5-CSA-4-4715SegS-SB1	12/17/2001	2.8	mg/kg	
CSA	10	4801 Quebec Street					
			OU5-CSA-10-4801QS-(100,0)	1/2/2002	47.8	mg/kg	
			OU5-CSA-10-4801QS-(100,100)	1/2/2002	26.2	mg/kg	
			OU5-CSA-10-4801QS-(100,120)	1/2/2002	6.7	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-10-4801QS-(100,140)	1/2/2002	4.2	mg/kg	
			OU5-CSA-10-4801QS-(100,160)	1/2/2002	2.3 J	mg/kg	
			OU5-CSA-10-4801QS-(100,20)	1/2/2002	14.3	mg/kg	
			OU5-CSA-10-4801QS-(100,40)	1/2/2002	74.4	mg/kg	
			OU5-CSA-10-4801QS-(100,60)	1/2/2002	19.6	mg/kg	
			OU5-CSA-10-4801QS-(100,80)	1/2/2002	13.4	mg/kg	
			OU5-CSA-10-4801QS-(120,100)	1/2/2002	3.9	mg/kg	
			OU5-CSA-10-4801QS-(120,120)	1/2/2002	4.5	mg/kg	
			OU5-CSA-10-4801QS-(120,140)	1/2/2002	3.8	mg/kg	
			OU5-CSA-10-4801QS-(120,160)	1/2/2002	6	mg/kg	
			OU5-CSA-10-4801QS-(120,20)	1/2/2002	15.6	mg/kg	
			OU5-CSA-10-4801QS-(120,40)	1/2/2002	4.9	mg/kg	
			OU5-CSA-10-4801QS-(120,60)	1/2/2002	3.7 J	mg/kg	
			OU5-CSA-10-4801QS-(140,100)	1/2/2002	6.1	mg/kg	
			OU5-CSA-10-4801QS-(140,120)	1/2/2002	5.1	mg/kg	
			OU5-CSA-10-4801QS-(140,140)	1/2/2002	3.4	mg/kg	
			OU5-CSA-10-4801QS-(140,160)	1/2/2002	4.7	mg/kg	
			OU5-CSA-10-4801QS-(140,20)	1/2/2002	9.7	mg/kg	
			OU5-CSA-10-4801QS-(140,40)	1/2/2002	8.2	mg/kg	
			OU5-CSA-10-4801QS-(140,80)	1/2/2002	4	mg/kg	
			OU5-CSA-10-4801QS-(160,100)	1/2/2002	2.7 J	mg/kg	
			OU5-CSA-10-4801QS-(160,120)	1/2/2002	4.9	mg/kg	
			OU5-CSA-10-4801QS-(160,40)	1/2/2002	4.5	mg/kg	
			OU5-CSA-10-4801QS-(160,60)	1/2/2002	3.7 J	mg/kg	
			OU5-CSA-10-4801QS-(160,80)	1/2/2002	3.1	mg/kg	
			OU5-CSA-10-4801QS-(180,60)	1/2/2002	3.6	mg/kg	
			OU5-CSA-10-4801QS-(180,80)	1/2/2002	3.1	mg/kg	
			OU5-CSA-10-4801QS-(20,100)	1/2/2002	28.2	mg/kg	
			OU5-CSA-10-4801QS-(20,120)	1/2/2002	6.3	mg/kg	
			OU5-CSA-10-4801QS-(40,100)	1/2/2002	5.1	mg/kg	
			OU5-CSA-10-4801QS-(40,120)	1/2/2002	5.7	mg/kg	
			OU5-CSA-10-4801QS-(40,140)	1/2/2002	12.6	mg/kg	
			OU5-CSA-10-4801QS-(40,60)	1/2/2002	19	mg/kg	
			OU5-CSA-10-4801QS-(40,80)	1/2/2002	30	mg/kg	
			OU5-CSA-10-4801QS-(60,100)	1/2/2002	25.2	mg/kg	
			OU5-CSA-10-4801QS-(60,120)	1/2/2002	17.4	mg/kg	
			OU5-CSA-10-4801QS-(60,140)	1/2/2002	70.4	mg/kg	
			OU5-CSA-10-4801QS-(60,40)	1/2/2002	32.2	mg/kg	
			OU5-CSA-10-4801QS-(60,60)	1/2/2002	65.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match
			OU5-CSA-10-4801QS-(60,80)	1/2/2002	49.6		mg/kg	
			OU5-CSA-10-4801QS-(80,100)	1/2/2002	25.4		mg/kg	
			OU5-CSA-10-4801QS-(80,120)	1/2/2002	50.8		mg/kg	
			OU5-CSA-10-4801QS-(80,140)	1/2/2002	7.2		mg/kg	
			OU5-CSA-10-4801QS-(80,20)	1/2/2002	26.3		mg/kg	
			OU5-CSA-10-4801QS-(80,40)	1/2/2002	2.8		mg/kg	
			OU5-CSA-10-4801QS-(80,60)	1/2/2002	30.8		mg/kg	
			OU5-CSA-10-4801QS-(80,80)	1/2/2002	24.3		mg/kg	
			OU5-CSA-10-4801QS-DUP01	1/2/2002	15.3		mg/kg	OU5-CSA-10-4801QS-(100,20)
			OU5-CSA-10-4801QS-DUP02	1/2/2002	5.7		mg/kg	OU5-CSA-10-4801QS-(140,120)
			OU5-CSA-10-4801QS-DUP03	1/2/2002	28.9		mg/kg	OU5-CSA-10-4801QS-(80,80)
OU4	OU4	4810 Glenbrook Road						
			OU4-4810GR-(100,100)	4/23/2002	6.1	\2	mg/kg	
			OU4-4810GR-(100,120)	4/23/2002	4.4	\2	mg/kg	
			OU4-4810GR-(100,140)	4/23/2002	8.7	\2	mg/kg	
			OU4-4810GR-(100,160)	4/23/2002	8.4	\2	mg/kg	
			OU4-4810GR-(100,20)	4/23/2002	5.2	\2	mg/kg	
			OU4-4810GR-(100,40)	4/23/2002	50.7	\2	mg/kg	
			OU4-4810GR-(100,60)	4/23/2002	23.3	\2	mg/kg	
			OU4-4810GR-(100,80)	4/23/2002	3.4	\2	mg/kg	
			OU4-4810GR-(120,100)	4/23/2002	4.2	\2	mg/kg	
			OU4-4810GR-(120,120)	4/23/2002	3.5	\2	mg/kg	
			OU4-4810GR-(120,140)	4/23/2002	5.1	\2	mg/kg	
			OU4-4810GR-(120,160)	4/23/2002	3.7	\2	mg/kg	
			OU4-4810GR-(120,20)	4/23/2002	42.9	\2	mg/kg	
			OU4-4810GR-(120,40)	4/23/2002	12.2	\2	mg/kg	
			OU4-4810GR-(120,60)	4/23/2002	8.1	\2	mg/kg	
			OU4-4810GR-(120,80)	4/23/2002	9.6	\2	mg/kg	
			OU4-4810GR-(140,100)	4/23/2002	5	\2	mg/kg	
			OU4-4810GR-(140,120)	4/23/2002	4.4	\2	mg/kg	
			OU4-4810GR-(140,140)	4/23/2002	5	\2	mg/kg	
			OU4-4810GR-(140,160)	4/23/2002	5.2	\2	mg/kg	
			OU4-4810GR-(140,20)	4/23/2002	13	\2	mg/kg	
			OU4-4810GR-(140,40)	4/23/2002	17.3	\2	mg/kg	
			OU4-4810GR-(140,60)	4/23/2002	2	\2	mg/kg	
			OU4-4810GR-(160,100)	4/23/2002	4.8	\2	mg/kg	
			OU4-4810GR-(160,120)	4/23/2002	4	\2	mg/kg	
			OU4-4810GR-(160,140)	4/23/2002	2.3	\2	mg/kg	
			OU4-4810GR-(160,160)	4/23/2002	3.7	\2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4810GR-(160,20)	4/23/2002	3.4 \2	mg/kg	
			OU4-4810GR-(160,40)	4/23/2002	2.6 \2	mg/kg	
			OU4-4810GR-(160,60)	4/23/2002	3.8 \2	mg/kg	
			OU4-4810GR-(160,80)	4/23/2002	1.8 J \2	mg/kg	
			OU4-4810GR-(20,20)	4/23/2002	3.5 \2	mg/kg	
			OU4-4810GR-(20,60)	4/23/2002	4.5 \2	mg/kg	
			OU4-4810GR-(40,100)	4/23/2002	4.6 \2	mg/kg	
			OU4-4810GR-(40,120)	4/23/2002	5.6 \2	mg/kg	
			OU4-4810GR-(40,140)	4/23/2002	5.8 \2	mg/kg	
			OU4-4810GR-(40,20)	4/23/2002	4.2 \2	mg/kg	
			OU4-4810GR-(40,40)	4/23/2002	3.5 \2	mg/kg	
			OU4-4810GR-(40,60)	4/23/2002	5.6 \2	mg/kg	
			OU4-4810GR-(40,80)	4/23/2002	4.3 \2	mg/kg	
			OU4-4810GR-(60,100)	4/23/2002	45.9 \2	mg/kg	
			OU4-4810GR-(60,120)	4/23/2002	5.3 \2	mg/kg	
			OU4-4810GR-(60,140)	4/23/2002	4 \2	mg/kg	
			OU4-4810GR-(60,20)	4/23/2002	3.3 \2	mg/kg	
			OU4-4810GR-(60,40)	4/23/2002	12.5 \2	mg/kg	
			OU4-4810GR-(60,60)	4/23/2002	4.8 \2	mg/kg	
			OU4-4810GR-(60,80)	4/23/2002	4.3 \2	mg/kg	
			OU4-4810GR-(80,100)	4/23/2002	5.6 \2	mg/kg	
			OU4-4810GR-(80,120)	4/23/2002	5.1 \2	mg/kg	
			OU4-4810GR-(80,140)	4/23/2002	4.5 \2	mg/kg	
			OU4-4810GR-(80,20)	4/23/2002	11.7 \2	mg/kg	
			OU4-4810GR-(80,40)	4/23/2002	5.6 \2	mg/kg	
			OU4-4810GR-(80,60)	4/23/2002	5.1 \2	mg/kg	
			OU4-4810GR-(80,80)	4/23/2002	3.2 \2	mg/kg	
			OU4-4810GR-DUP01	4/23/2002	3.3 \2	mg/kg	OU4-4810GR-(120,100)
			OU4-4810GR-DUP02	4/23/2002	3.5 \2	mg/kg	OU4-4810GR-(100,80)
			OU4-4810GR-DUP03	4/23/2002	6.3 \2	mg/kg	OU4-4810GR-(40,60)
			OU4-4810GR-DUP04	4/23/2002	2.9 \2	mg/kg	OU4-4810GR-(20,60)
CTA	1D	4810 Sedgwick Street					
			OU5-CTA-1D-4810SegS-(0,40)	11/20/2001	2.2 J	mg/kg	
			OU5-CTA-1D-4810SegS-(0,60)	11/20/2001	3.9	mg/kg	
			OU5-CTA-1D-4810SegS-(100,40)	11/20/2001	9.8	mg/kg	
			OU5-CTA-1D-4810SegS-(100,60)	11/20/2001	5.1	mg/kg	
			OU5-CTA-1D-4810SegS-(100,80)	11/20/2001	6.1	mg/kg	
			OU5-CTA-1D-4810SegS-(120,100)	11/20/2001	4.7	mg/kg	
			OU5-CTA-1D-4810SegS-(120,40)	11/20/2001	5.7	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-4810SegS-(120,60)	11/20/2001	6.3	mg/kg	
			OU5-CTA-1D-4810SegS-(120,80)	11/20/2001	8.1	mg/kg	
			OU5-CTA-1D-4810SegS-(140,100)	11/20/2001	4.9	mg/kg	
			OU5-CTA-1D-4810SegS-(140,60)	11/20/2001	14.8	mg/kg	
			OU5-CTA-1D-4810SegS-(140,80)	11/20/2001	8.4	mg/kg	
			OU5-CTA-1D-4810SegS-(160,60)	11/20/2001	7.4	mg/kg	
			OU5-CTA-1D-4810SegS-(20,0)	11/20/2001	4.7	mg/kg	
			OU5-CTA-1D-4810SegS-(20,20)	11/20/2001	3.5	mg/kg	
			OU5-CTA-1D-4810SegS-(20,40)	11/20/2001	4	mg/kg	
			OU5-CTA-1D-4810SegS-(20,60)	11/20/2001	4.3	mg/kg	
			OU5-CTA-1D-4810SegS-(40,20)	11/20/2001	2.7	mg/kg	
			OU5-CTA-1D-4810SegS-(40,40)	11/20/2001	3.8	mg/kg	
			OU5-CTA-1D-4810SegS-(40,60)	11/20/2001	4	mg/kg	
			OU5-CTA-1D-4810SegS-(60,20)	11/20/2001	3.8	mg/kg	
			OU5-CTA-1D-4810SegS-(60,40)	11/20/2001	3.8	mg/kg	
			OU5-CTA-1D-4810SegS-(60,60)	11/20/2001	4.7	mg/kg	
			OU5-CTA-1D-4810SegS-(60,80)	11/20/2001	7.8 J	mg/kg	
			OU5-CTA-1D-4810SegS-(80,40)	11/20/2001	5.7	mg/kg	
			OU5-CTA-1D-4810SegS-(80,60)	11/20/2001	7.2	mg/kg	
			OU5-CTA-1D-4810SegS-(80,80)	11/20/2001	5.7	mg/kg	
			OU5-CTA-1D-4810SegS-DUP01	11/20/2001	4.5	mg/kg	OU5-CTA-1D-4810SegS-(40,40)
CSA	10	4813 Quebec Street					
			OU5-CSA-10-4813QS-(100,100)	11/5/2001	3.4	mg/kg	
			OU5-CSA-10-4813QS-(100,120)	11/5/2001	3	mg/kg	
			OU5-CSA-10-4813QS-(100,40)	11/5/2001	5.7	mg/kg	
			OU5-CSA-10-4813QS-(100,60)	11/5/2001	3.4	mg/kg	
			OU5-CSA-10-4813QS-(100,80)	11/5/2001	2.6 J	mg/kg	
			OU5-CSA-10-4813QS-(120,100)	11/5/2001	7.2	mg/kg	
			OU5-CSA-10-4813QS-(120,120)	11/5/2001	2.1 J	mg/kg	
			OU5-CSA-10-4813QS-(120,140)	11/5/2001	2.6 J	mg/kg	
			OU5-CSA-10-4813QS-(120,60)	11/5/2001	3 J	mg/kg	
			OU5-CSA-10-4813QS-(120,80)	11/5/2001	4.5	mg/kg	
			OU5-CSA-10-4813QS-(140,100)	11/5/2001	3.9	mg/kg	
			OU5-CSA-10-4813QS-(140,120)	11/5/2001	2.4	mg/kg	
			OU5-CSA-10-4813QS-(140,140)	11/5/2001	3.1	mg/kg	
			OU5-CSA-10-4813QS-(140,60)	11/5/2001	4.3	mg/kg	
			OU5-CSA-10-4813QS-(140,80)	11/5/2001	7.2	mg/kg	
			OU5-CSA-10-4813QS-(160,100)	11/5/2001	4.4	mg/kg	
			OU5-CSA-10-4813QS-(160,120)	11/5/2001	1.9 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-10-4813QS-(160,140)	11/5/2001	3.3	mg/kg	
			OU5-CSA-10-4813QS-(160,160)	11/5/2001	3.4	mg/kg	
			OU5-CSA-10-4813QS-(160,80)	11/5/2001	5.7	mg/kg	
			OU5-CSA-10-4813QS-(180,100)	11/5/2001	5.4	mg/kg	
			OU5-CSA-10-4813QS-(180,120)	11/5/2001	3.1	mg/kg	
			OU5-CSA-10-4813QS-(180,140)	11/5/2001	4.4	mg/kg	
			OU5-CSA-10-4813QS-(180,180)	11/5/2001	4.2	mg/kg	
			OU5-CSA-10-4813QS-(180160)	11/5/2001	4.7	mg/kg	
			OU5-CSA-10-4813QS-(20,40)	11/5/2001	50.7	mg/kg	
			OU5-CSA-10-4813QS-(20,60)	11/5/2001	142	mg/kg	
			OU5-CSA-10-4813QS-(200,100)	11/5/2001	5.3	mg/kg	
			OU5-CSA-10-4813QS-(200,120)	11/5/2001	4.2	mg/kg	
			OU5-CSA-10-4813QS-(200,140)	11/5/2001	4.4	mg/kg	
			OU5-CSA-10-4813QS-(200,160)	11/5/2001	3.8	mg/kg	
			OU5-CSA-10-4813QS-(200,180)	11/5/2001	24.6	mg/kg	
			OU5-CSA-10-4813QS-(200,200)	11/5/2001	20.7	mg/kg	
			OU5-CSA-10-4813QS-(220,120)	11/5/2001	4.5	mg/kg	
			OU5-CSA-10-4813QS-(220,140)	11/5/2001	3.1	mg/kg	
			OU5-CSA-10-4813QS-(220,160)	11/5/2001	4.6	mg/kg	
			OU5-CSA-10-4813QS-(40,0)	11/5/2001	7.7	mg/kg	
			OU5-CSA-10-4813QS-(40,20)	11/5/2001	91.6	mg/kg	
			OU5-CSA-10-4813QS-(40,40)	11/5/2001	51.6	mg/kg	
			OU5-CSA-10-4813QS-(40,80)	11/5/2001	105	mg/kg	
			OU5-CSA-10-4813QS-(60,100)	11/5/2001	3.1	mg/kg	
			OU5-CSA-10-4813QS-(60,20)	11/5/2001	61.3	mg/kg	
			OU5-CSA-10-4813QS-(60,40)	11/5/2001	84.5	mg/kg	
			OU5-CSA-10-4813QS-(60,60)	11/5/2001	56.5	mg/kg	
			OU5-CSA-10-4813QS-(60,80)	11/5/2001	18.4	mg/kg	
			OU5-CSA-10-4813QS-(80,100)	11/5/2001	2.7	mg/kg	
			OU5-CSA-10-4813QS-(80,20)	11/5/2001	7.5	mg/kg	
			OU5-CSA-10-4813QS-(80,40)	11/5/2001	89.1	mg/kg	
			OU5-CSA-10-4813QS-(80,60)	11/5/2001	3.2 J	mg/kg	
			OU5-CSA-10-4813QS-DUP01	11/5/2001	63.5	mg/kg	OU5-CSA-10-4813QS-(60,20)
			OU5-CSA-10-4813QS-DUP02	11/5/2001	2 J	mg/kg	OU5-CSA-10-4813QS-(120,120)
			OU5-CSA-10-4813QS-DUP03	11/5/2001	54.7	mg/kg	OU5-CSA-10-4813QS-(60,60)
CTA	1D	4828 Rodman Street					
			OU5-CTA-1D-4828RS-(0,60)	12/13/2001	6.6	mg/kg	
			OU5-CTA-1D-4828RS-(100,100)	12/13/2001	7.6	mg/kg	
			OU5-CTA-1D-4828RS-(100,40)	12/13/2001	5.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-4828RS-(100,60)	12/13/2001	10.7	mg/kg	
			OU5-CTA-1D-4828RS-(100,80)	12/13/2001	21.5	mg/kg	
			OU5-CTA-1D-4828RS-(120,100)	12/13/2001	2.9	mg/kg	
			OU5-CTA-1D-4828RS-(120,120)	12/13/2001	5.3	mg/kg	
			OU5-CTA-1D-4828RS-(120,40)	12/13/2001	4	mg/kg	
			OU5-CTA-1D-4828RS-(120,60)	12/13/2001	9.6	mg/kg	
			OU5-CTA-1D-4828RS-(120,80)	12/13/2001	10	mg/kg	
			OU5-CTA-1D-4828RS-(140,40)	12/13/2001	3	mg/kg	
			OU5-CTA-1D-4828RS-(140,60)	12/13/2001	3.2	mg/kg	
			OU5-CTA-1D-4828RS-(140,80)	12/13/2001	3.8	mg/kg	
			OU5-CTA-1D-4828RS-(20,20)	12/13/2001	7.6	mg/kg	
			OU5-CTA-1D-4828RS-(20,40)	12/13/2001	6.4	mg/kg	
			OU5-CTA-1D-4828RS-(20,60)	12/13/2001	1.7 J	mg/kg	
			OU5-CTA-1D-4828RS-(20,80)	12/13/2001	8.1	mg/kg	
			OU5-CTA-1D-4828RS-(40,20)	12/13/2001	7.2	mg/kg	
			OU5-CTA-1D-4828RS-(40,40)	12/13/2001	3.6	mg/kg	
			OU5-CTA-1D-4828RS-(40,60)	12/13/2001	5.1	mg/kg	
			OU5-CTA-1D-4828RS-(40,80)	12/13/2001	8.5	mg/kg	
			OU5-CTA-1D-4828RS-(60,100)	12/13/2001	6.6	mg/kg	
			OU5-CTA-1D-4828RS-(60,20)	12/13/2001	9.5	mg/kg	
			OU5-CTA-1D-4828RS-(60,40)	12/13/2001	3.5	mg/kg	
			OU5-CTA-1D-4828RS-(60,60)	12/13/2001	3 J	mg/kg	
			OU5-CTA-1D-4828RS-(60,80)	12/13/2001	3.9	mg/kg	
			OU5-CTA-1D-4828RS-(80,100)	12/13/2001	42.4	mg/kg	
			OU5-CTA-1D-4828RS-(80,20)	12/13/2001	6.5	mg/kg	
			OU5-CTA-1D-4828RS-(80,40)	12/13/2001	5	mg/kg	
			OU5-CTA-1D-4828RS-(80,60)	12/13/2001	5.3	mg/kg	
			OU5-CTA-1D-4828RS-(80,80)	12/13/2001	7.1	mg/kg	
			OU5-CTA-1D-4828RS-DUP01	12/13/2001	7.4	mg/kg	OU5-CTA-1D-4828RS-(40,20)
			OU5-CTA-1D-4828RS-DUP02	12/13/2001	8.7	mg/kg	OU5-CTA-1D-4828RS-(120,80)
CSA	*10*	*4834 Quebec Street*					
			OU5-CSA-10-4834QS-(100,100)	1/30/2002	3.8	mg/kg	
			OU5-CSA-10-4834QS-(100,120)	1/30/2002	5.5	mg/kg	
			OU5-CSA-10-4834QS-(100,40)	1/30/2002	5.1	mg/kg	
			OU5-CSA-10-4834QS-(100,60)	1/30/2002	4.2	mg/kg	
			OU5-CSA-10-4834QS-(120,100)	1/30/2002	6.8	mg/kg	
			OU5-CSA-10-4834QS-(120,120)	1/30/2002	10.3	mg/kg	
			OU5-CSA-10-4834QS-(120,140)	1/30/2002	5.4	mg/kg	
			OU5-CSA-10-4834QS-(120,60)	1/30/2002	5.1	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CSA-10-4834QS-(120,80)	1/30/2002	36.1	mg/kg	
			OU5-CSA-10-4834QS-(140,100)	1/30/2002	5.9	mg/kg	
			OU5-CSA-10-4834QS-(140,120)	1/30/2002	3.3	mg/kg	
			OU5-CSA-10-4834QS-(140,140)	1/30/2002	5.3	mg/kg	
			OU5-CSA-10-4834QS-(140,60)	1/30/2002	5.4	mg/kg	
			OU5-CSA-10-4834QS-(140,80)	1/30/2002	12.1	mg/kg	
			OU5-CSA-10-4834QS-(160,100)	1/30/2002	4.2	mg/kg	
			OU5-CSA-10-4834QS-(160,120)	1/30/2002	6.3	mg/kg	
			OU5-CSA-10-4834QS-(160,140)	1/30/2002	4.5	mg/kg	
			OU5-CSA-10-4834QS-(160,80)	1/30/2002	6.4	mg/kg	
			OU5-CSA-10-4834QS-(180,100)	1/30/2002	5.2	mg/kg	
			OU5-CSA-10-4834QS-(180,120)	1/30/2002	4.9	mg/kg	
			OU5-CSA-10-4834QS-(180,140)	1/30/2002	5.1	mg/kg	
			OU5-CSA-10-4834QS-(180,160)	1/30/2002	5.3	mg/kg	
			OU5-CSA-10-4834QS-(180,80)	1/30/2002	4.6	mg/kg	
			OU5-CSA-10-4834QS-(20,80)	1/30/2002	4.8	mg/kg	
			OU5-CSA-10-4834QS-(200,100)	1/30/2002	4	mg/kg	
			OU5-CSA-10-4834QS-(200,120)	1/30/2002	3.9	mg/kg	
			OU5-CSA-10-4834QS-(200,140)	1/30/2002	3.5	mg/kg	
			OU5-CSA-10-4834QS-(40,100)	1/30/2002	3.6	mg/kg	
			OU5-CSA-10-4834QS-(40,40)	1/30/2002	2.8	mg/kg	
			OU5-CSA-10-4834QS-(40,60)	1/30/2002	3.7	mg/kg	
			OU5-CSA-10-4834QS-(40,80)	1/30/2002	3.7	mg/kg	
			OU5-CSA-10-4834QS-(60,100)	1/30/2002	3.5	mg/kg	
			OU5-CSA-10-4834QS-(60,20)	1/30/2002	7.5	mg/kg	
			OU5-CSA-10-4834QS-(60,40)	1/30/2002	2.8	mg/kg	
			OU5-CSA-10-4834QS-(60,60)	1/30/2002	4.4	mg/kg	
			OU5-CSA-10-4834QS-(60,80)	1/30/2002	3.3	mg/kg	
			OU5-CSA-10-4834QS-(80,100)	1/30/2002	3.1	mg/kg	
			OU5-CSA-10-4834QS-(80,120)	1/30/2002	3	mg/kg	
			OU5-CSA-10-4834QS-(80,40)	1/30/2002	5	mg/kg	
			OU5-CSA-10-4834QS-(80,60)	1/30/2002	4.6	mg/kg	
			OU5-CSA-10-4834QS-(80,80)	1/30/2002	4.2	mg/kg	
			OU5-CSA-10-4834QS-DUP01	1/30/2002	4.5	mg/kg	OU5-CSA-10-4834QS-(80,60)
			OU5-CSA-10-4834QS-DUP02	1/30/2002	8.3	mg/kg	OU5-CSA-10-4834QS-(140,100)
			OU5-CSA-10-4834QS-SB1	1/28/2002	4.9	mg/kg	
CTA	**1D**	**4834 Rodman Street**					
			OU5-CTA-1D-4834RS-(100,100)	12/6/2001	9.5	mg/kg	
			OU5-CTA-1D-4834RS-(100,120)	12/6/2001	9.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-4834RS-(100,20)	12/6/2001	7.2	mg/kg	
			OU5-CTA-1D-4834RS-(100,40)	12/6/2001	4.6	mg/kg	
			OU5-CTA-1D-4834RS-(100,60)	12/6/2001	7.7	mg/kg	
			OU5-CTA-1D-4834RS-(100,80)	12/6/2001	16	mg/kg	
			OU5-CTA-1D-4834RS-(120,100)	12/6/2001	11.3	mg/kg	
			OU5-CTA-1D-4834RS-(120,120)	12/6/2001	9.4	mg/kg	
			OU5-CTA-1D-4834RS-(120,40)	12/6/2001	4.5	mg/kg	
			OU5-CTA-1D-4834RS-(120,60)	12/6/2001	6	mg/kg	
			OU5-CTA-1D-4834RS-(120,80)	12/6/2001	18.1	mg/kg	
			OU5-CTA-1D-4834RS-(140,100)	12/6/2001	16	mg/kg	
			OU5-CTA-1D-4834RS-(140,120)	12/6/2001	6.3	mg/kg	
			OU5-CTA-1D-4834RS-(140,40)	12/6/2001	5.6	mg/kg	
			OU5-CTA-1D-4834RS-(140,60)	12/6/2001	9.3	mg/kg	
			OU5-CTA-1D-4834RS-(140,80)	12/6/2001	12.5	mg/kg	
			OU5-CTA-1D-4834RS-(160,60)	12/6/2001	6.9	mg/kg	
			OU5-CTA-1D-4834RS-(20,60)	12/6/2001	4.9	mg/kg	
			OU5-CTA-1D-4834RS-(20,80)	12/6/2001	4.7	mg/kg	
			OU5-CTA-1D-4834RS-(40,20)	12/6/2001	5.1	mg/kg	
			OU5-CTA-1D-4834RS-(40,40)	12/6/2001	10.2	mg/kg	
			OU5-CTA-1D-4834RS-(40,60)	12/6/2001	12.6	mg/kg	
			OU5-CTA-1D-4834RS-(40,80)	12/6/2001	2.4	mg/kg	
			OU5-CTA-1D-4834RS-(60,100)	12/6/2001	4.5	mg/kg	
			OU5-CTA-1D-4834RS-(60,20)	12/6/2001	7.1	mg/kg	
			OU5-CTA-1D-4834RS-(60,40)	12/6/2001	8.6	mg/kg	
			OU5-CTA-1D-4834RS-(60,60)	12/6/2001	5.8	mg/kg	
			OU5-CTA-1D-4834RS-(60,80)	12/6/2001	3.6	mg/kg	
			OU5-CTA-1D-4834RS-(80,20)	12/6/2001	6.6	mg/kg	
			OU5-CTA-1D-4834RS-(80,40)	12/6/2001	3.7 J	mg/kg	
			OU5-CTA-1D-4834RS-DUP01	12/6/2001	5.8	mg/kg	OU5-CTA-1D-4834RS-(60,40)
			OU5-CTA-1D-4834RS-DUP02	12/6/2001	7.8	mg/kg	OU5-CTA-1D-4834RS-(120,80)
CTA	1D	4847 Sedgwick Street					
			OU5-CTA-1D-4847SegS-(100,40)	1/23/2002	11.9	mg/kg	
			OU5-CTA-1D-4847SegS-(100,60)	1/23/2002	11.5	mg/kg	
			OU5-CTA-1D-4847SegS-(100,80)	1/23/2002	9.9	mg/kg	
			OU5-CTA-1D-4847SegS-(120,100)	1/23/2002	7.3	mg/kg	
			OU5-CTA-1D-4847SegS-(120,60)	1/23/2002	13.7	mg/kg	
			OU5-CTA-1D-4847SegS-(120,80)	1/23/2002	4.6	mg/kg	
			OU5-CTA-1D-4847SegS-(140,100)	1/23/2002	4.2	mg/kg	
			OU5-CTA-1D-4847SegS-(140,60)	1/23/2002	31.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-4847SegS-(140,80)	1/23/2002	14.7	mg/kg	
			OU5-CTA-1D-4847SegS-(160,100)	1/23/2002	11.1	mg/kg	
			OU5-CTA-1D-4847SegS-(160,60)	1/23/2002	11	mg/kg	
			OU5-CTA-1D-4847SegS-(160,80)	1/23/2002	5.5	mg/kg	
			OU5-CTA-1D-4847SegS-(180,80)	1/23/2002	6.4	mg/kg	
			OU5-CTA-1D-4847SegS-(20,20)	1/23/2002	5.8	mg/kg	
			OU5-CTA-1D-4847SegS-(20,40)	1/23/2002	4.4	mg/kg	
			OU5-CTA-1D-4847SegS-(20,60)	1/23/2002	7	mg/kg	
			OU5-CTA-1D-4847SegS-(40,20)	1/23/2002	17	mg/kg	
			OU5-CTA-1D-4847SegS-(40,40)	1/23/2002	12.8	mg/kg	
			OU5-CTA-1D-4847SegS-(40,60)	1/23/2002	13.7	mg/kg	
			OU5-CTA-1D-4847SegS-(60,40)	1/23/2002	4.6	mg/kg	
			OU5-CTA-1D-4847SegS-(60,60)	1/23/2002	3.4	mg/kg	
			OU5-CTA-1D-4847SegS-(60,80)	1/23/2002	5.6	mg/kg	
			OU5-CTA-1D-4847SegS-(80,40)	1/23/2002	5.5	mg/kg	
			OU5-CTA-1D-4847SegS-(80,60)	1/23/2002	12.6	mg/kg	
			OU5-CTA-1D-4847SegS-(80,80)	1/23/2002	6.4	mg/kg	
			OU5-CTA-1D-4847SegS-DUP01	1/23/2002	5.4	mg/kg	OU5-CTA-1D-4847SegS-(80,40)
CTA	1D	4849 Rodman Street					
			OU5-CTA-1D-4849RS-(0,120)	9/5/2002	64.1	mg/kg	
			OU5-CTA-1D-4849RS-(100,100)	9/5/2002	9	mg/kg	
			OU5-CTA-1D-4849RS-(100,20)	9/5/2002	3.9	mg/kg	
			OU5-CTA-1D-4849RS-(100,40)	9/5/2002	6.1	mg/kg	
			OU5-CTA-1D-4849RS-(100,60)	9/5/2002	38.1	mg/kg	
			OU5-CTA-1D-4849RS-(100,80)	9/5/2002	4.5	mg/kg	
			OU5-CTA-1D-4849RS-(120,20)	9/5/2002	3.6	mg/kg	
			OU5-CTA-1D-4849RS-(120,40)	9/5/2002	3.7	mg/kg	
			OU5-CTA-1D-4849RS-(20,100)	9/5/2002	33.8	mg/kg	
			OU5-CTA-1D-4849RS-(20,120)	9/5/2002	4.4	mg/kg	
			OU5-CTA-1D-4849RS-(20,140)	9/5/2002	10.4	mg/kg	
			OU5-CTA-1D-4849RS-(20,60)	9/5/2002	14.4	mg/kg	
			OU5-CTA-1D-4849RS-(20,80)	9/5/2002	12.6	mg/kg	
			OU5-CTA-1D-4849RS-(40,100)	9/5/2002	57.1	mg/kg	
			OU5-CTA-1D-4849RS-(40,120)	9/5/2002	28.4	mg/kg	
			OU5-CTA-1D-4849RS-(40,140)	9/5/2002	10.4	mg/kg	
			OU5-CTA-1D-4849RS-(40,20)	9/5/2002	3.8	mg/kg	
			OU5-CTA-1D-4849RS-(40,40)	9/5/2002	30.6	mg/kg	
			OU5-CTA-1D-4849RS-(40,60)	9/5/2002	8.2	mg/kg	
			OU5-CTA-1D-4849RS-(40,80)	9/5/2002	4.8	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-4849RS-(60,100)	9/5/2002	10.1	mg/kg	
			OU5-CTA-1D-4849RS-(60,120)	9/5/2002	52.1	mg/kg	
			OU5-CTA-1D-4849RS-(60,140)	9/5/2002	8.9	mg/kg	
			OU5-CTA-1D-4849RS-(60,20)	9/5/2002	11.2	mg/kg	
			OU5-CTA-1D-4849RS-(60,40)	9/5/2002	23.8	mg/kg	
			OU5-CTA-1D-4849RS-(60,60)	9/5/2002	8.4	mg/kg	
			OU5-CTA-1D-4849RS-(60,80)	9/5/2002	7	mg/kg	
			OU5-CTA-1D-4849RS-(80,100)	9/5/2002	4.2	mg/kg	
			OU5-CTA-1D-4849RS-(80,120)	9/5/2002	4	mg/kg	
			OU5-CTA-1D-4849RS-(80,140)	9/5/2002	16.2	mg/kg	
			OU5-CTA-1D-4849RS-(80,20)	9/5/2002	5.2	mg/kg	
			OU5-CTA-1D-4849RS-(80,40)	9/5/2002	59.1	mg/kg	
			OU5-CTA-1D-4849RS-(80,60)	9/5/2002	5.6	mg/kg	
			OU5-CTA-1D-4849RS-(80,80)	9/5/2002	5.6	mg/kg	
			OU5-CTA-1D-4849RS-DUP01	9/5/2002	11.6	mg/kg	OU5-CTA-1D-4849RS-(60,60)
			OU5-CTA-1D-4849RS-DUP02	9/5/2002	65.6	mg/kg	OU5-CTA-1D-4849RS-(40,100)
CSA	12	4850 Rockwood Parkway					
			OU5-CSA-12-4850RP-(100,100)	10/31/2001	6 L	mg/kg	
			OU5-CSA-12-4850RP-(100,160)	10/31/2001	54.3 L	mg/kg	
			OU5-CSA-12-4850RP-(100,180)	10/31/2001	32.4 L	mg/kg	
			OU5-CSA-12-4850RP-(100,200)	10/31/2001	17.3 L	mg/kg	
			OU5-CSA-12-4850RP-(100,40)	10/31/2001	11.2 L	mg/kg	
			OU5-CSA-12-4850RP-(100,60)	10/31/2001	124 L	mg/kg	
			OU5-CSA-12-4850RP-(100,80)	10/31/2001	28.1 L	mg/kg	
			OU5-CSA-12-4850RP-(120,100)	10/31/2001	3.2 JL	mg/kg	
			OU5-CSA-12-4850RP-(120,120)	10/31/2001	16.6 L	mg/kg	
			OU5-CSA-12-4850RP-(120,140)	10/31/2001	15.1 L	mg/kg	
			OU5-CSA-12-4850RP-(120,160)	10/31/2001	16.6 L	mg/kg	
			OU5-CSA-12-4850RP-(120,180)	10/31/2001	9.7 L	mg/kg	
			OU5-CSA-12-4850RP-(120,200)	10/31/2001	4.9 L	mg/kg	
			OU5-CSA-12-4850RP-(120,40)	10/31/2001	3.4 L	mg/kg	
			OU5-CSA-12-4850RP-(120,60)	10/31/2001	16.9 L	mg/kg	
			OU5-CSA-12-4850RP-(120,80)	10/31/2001	11.3 L	mg/kg	
			OU5-CSA-12-4850RP-(140,100)	10/31/2001	7.4 L	mg/kg	
			OU5-CSA-12-4850RP-(140,140)	10/31/2001	16.8 L	mg/kg	
			OU5-CSA-12-4850RP-(140,160)	10/31/2001	5.2 L	mg/kg	
			OU5-CSA-12-4850RP-(140,180)	10/31/2001	3.6 L	mg/kg	
			OU5-CSA-12-4850RP-(140,200)	10/31/2001	3.1 JL	mg/kg	
			OU5-CSA-12-4850RP-(140,220)	10/31/2001	9.4 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-4850RP-(140,60)	10/31/2001	4.7 L	mg/kg	
			OU5-CSA-12-4850RP-(160,120)	10/31/2001	42 L	mg/kg	
			OU5-CSA-12-4850RP-(160,140)	10/31/2001	5.7 L	mg/kg	
			OU5-CSA-12-4850RP-(160,160)	10/31/2001	4.1 L	mg/kg	
			OU5-CSA-12-4850RP-(160,180)	10/31/2001	3.9 L	mg/kg	
			OU5-CSA-12-4850RP-(160,200)	10/31/2001	8.6 L	mg/kg	
			OU5-CSA-12-4850RP-(160,80)	10/31/2001	30.3 L	mg/kg	
			OU5-CSA-12-4850RP-(180,100)	10/31/2001	3.6 L	mg/kg	
			OU5-CSA-12-4850RP-(180,120)	10/31/2001	5.1 L	mg/kg	
			OU5-CSA-12-4850RP-(180,140)	10/31/2001	3.3 L	mg/kg	
			OU5-CSA-12-4850RP-(180,160)	10/31/2001	2.8 L	mg/kg	
			OU5-CSA-12-4850RP-(180,80)	10/31/2001	2.5 JL	mg/kg	
			OU5-CSA-12-4850RP-(20,120)	10/31/2001	112 L	mg/kg	
			OU5-CSA-12-4850RP-(20,140)	10/31/2001	119 L	mg/kg	
			OU5-CSA-12-4850RP-(200,100)	10/31/2001	3.2 L	mg/kg	
			OU5-CSA-12-4850RP-(200,120)	10/31/2001	2.4 L	mg/kg	
			OU5-CSA-12-4850RP-(200,140)	10/31/2001	3.5 L	mg/kg	
			OU5-CSA-12-4850RP-(220,100)	10/31/2001	25.6 L	mg/kg	
			OU5-CSA-12-4850RP-(40,100)	10/31/2001	23.4 L	mg/kg	
			OU5-CSA-12-4850RP-(40,120)	10/31/2001	96 L	mg/kg	
			OU5-CSA-12-4850RP-(40,140)	10/31/2001	57.8 L	mg/kg	
			OU5-CSA-12-4850RP-(40,160)	10/31/2001	29 L	mg/kg	
			OU5-CSA-12-4850RP-(40,80)	10/31/2001	53.2 L	mg/kg	
			OU5-CSA-12-4850RP-(60,100)	10/31/2001	8.9 L	mg/kg	
			OU5-CSA-12-4850RP-(60,120)	10/31/2001	44.2 L	mg/kg	
			OU5-CSA-12-4850RP-(60,140)	10/31/2001	20.2 L	mg/kg	
			OU5-CSA-12-4850RP-(60,160)	10/31/2001	17.1 L	mg/kg	
			OU5-CSA-12-4850RP-(60,40)	10/31/2001	39.8 L	mg/kg	
			OU5-CSA-12-4850RP-(60,60)	10/31/2001	406 L	mg/kg	
			OU5-CSA-12-4850RP-(60,80)	10/31/2001	51.8 L	mg/kg	
			OU5-CSA-12-4850RP-(80,100)	10/31/2001	24 L	mg/kg	
			OU5-CSA-12-4850RP-(80,120)	10/31/2001	14.4 L	mg/kg	
			OU5-CSA-12-4850RP-(80,140)	10/31/2001	42.5 L	mg/kg	
			OU5-CSA-12-4850RP-(80,160)	10/31/2001	25.6 L	mg/kg	
			OU5-CSA-12-4850RP-(80,180)	10/31/2001	11.4 L	mg/kg	
			OU5-CSA-12-4850RP-(80,20)	10/31/2001	6.2 L	mg/kg	
			OU5-CSA-12-4850RP-(80,40)	10/31/2001	126 L	mg/kg	
			OU5-CSA-12-4850RP-(80,60)	10/31/2001	57.7 L	mg/kg	
			OU5-CSA-12-4850RP-(80,80)	10/31/2001	19.2 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-4850RP-DUP01	10/31/2001	5.5 L	mg/kg	OU5-CSA-12-4850RP-(140,160)
			OU5-CSA-12-4850RP-DUP02	10/31/2001	32.3 L	mg/kg	OU5-CSA-12-4850RP-(40,80)
			OU5-CSA-12-4850RP-DUP03	10/31/2001	97.9 L	mg/kg	OU5-CSA-12-4850RP-(100,100)
			OU5-CSA-12-4850RP-SB1	10/29/2001	33.1	mg/kg	
			OU5-CSA-12-4850RP-SB2	10/29/2001	12	mg/kg	
			OU5-CSA-12-4850RP-SB3	10/29/2001	2.4	mg/kg	
			OU5-CSA-12-4850RP-SB4	10/29/2001	2.2 J	mg/kg	
			OU5-CSA-12-4850RP-SB5	10/29/2001	1.2 J	mg/kg	
			OU5-CSA-12-4850RP-SB6	10/29/2001	2.5 J	mg/kg	
CTA	1D	4853 Sedgwick Street					
			OU5-CTA-1D-4853SegS-(100,100)	12/5/2001	4	mg/kg	
			OU5-CTA-1D-4853SegS-(100,120)	12/5/2001	7.3	mg/kg	
			OU5-CTA-1D-4853SegS-(100,20)	12/5/2001	3.9	mg/kg	
			OU5-CTA-1D-4853SegS-(100,40)	12/5/2001	9.7	mg/kg	
			OU5-CTA-1D-4853SegS-(100,60)	12/5/2001	7.7	mg/kg	
			OU5-CTA-1D-4853SegS-(100,80)	12/5/2001	6.8	mg/kg	
			OU5-CTA-1D-4853SegS-(120,40)	12/5/2001	4.9	mg/kg	
			OU5-CTA-1D-4853SegS-(120,60)	12/5/2001	6.9	mg/kg	
			OU5-CTA-1D-4853SegS-(20,100)	12/5/2001	4.8	mg/kg	
			OU5-CTA-1D-4853SegS-(20,120)	12/5/2001	5.7	mg/kg	
			OU5-CTA-1D-4853SegS-(20,140)	12/5/2001	4.4	mg/kg	
			OU5-CTA-1D-4853SegS-(20,80)	12/5/2001	4.2	mg/kg	
			OU5-CTA-1D-4853SegS-(40,100)	12/5/2001	5.4	mg/kg	
			OU5-CTA-1D-4853SegS-(40,120)	12/5/2001	4.9	mg/kg	
			OU5-CTA-1D-4853SegS-(40,140)	12/5/2001	4.7	mg/kg	
			OU5-CTA-1D-4853SegS-(40,20)	12/5/2001	8	mg/kg	
			OU5-CTA-1D-4853SegS-(40,40)	12/5/2001	5.7	mg/kg	
			OU5-CTA-1D-4853SegS-(40,60)	12/5/2001	8.8	mg/kg	
			OU5-CTA-1D-4853SegS-(40,80)	12/5/2001	5.6	mg/kg	
			OU5-CTA-1D-4853SegS-(60,140)	12/5/2001	2.9 J	mg/kg	
			OU5-CTA-1D-4853SegS-(60,20)	12/5/2001	8.4	mg/kg	
			OU5-CTA-1D-4853SegS-(60,40)	12/5/2001	29.8	mg/kg	
			OU5-CTA-1D-4853SegS-(60,60)	12/5/2001	28.4	mg/kg	
			OU5-CTA-1D-4853SegS-(60,80)	12/5/2001	8.3	mg/kg	
			OU5-CTA-1D-4853SegS-(80,100)	12/5/2001	5.4	mg/kg	
			OU5-CTA-1D-4853SegS-(80,120)	12/5/2001	7.4	mg/kg	
			OU5-CTA-1D-4853SegS-(80,140)	12/5/2001	4.8	mg/kg	
			OU5-CTA-1D-4853SegS-(80,160)	12/5/2001	6.4	mg/kg	
			OU5-CTA-1D-4853SegS-(80,20)	12/5/2001	7.3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-4853SegS-(80,40)	12/5/2001	27.3	mg/kg	
			OU5-CTA-1D-4853SegS-DUP01	12/5/2001	23.9	mg/kg	OU5-CTA-1D-4853SegS-(60,60)
			OU5-CTA-1D-4853SegS-DUP02	12/5/2001	4.9	mg/kg	OU5-CTA-1D-4853SegS-(80,140)
OU4	OU4	4861 Indian Lane					
			OU4-4861IL-(110,130)	2/1/2001	4.28 J	mg/kg	
			OU4-4861IL-(110,30)	2/1/2001	7.09	mg/kg	
			OU4-4861IL-(110,50)	2/1/2001	51.2	mg/kg	
			OU4-4861IL-(110,70)	2/1/2001	15.2 J	mg/kg	
			OU4-4861IL-(130,50)	2/1/2001	8.94	mg/kg	
			OU4-4861IL-(150,110)	2/1/2001	6.16	mg/kg	
			OU4-4861IL-(150,130)	2/1/2001	7.37 J	mg/kg	
			OU4-4861IL-(150,150)	2/1/2001	6.05 J	mg/kg	
			OU4-4861IL-(150,190)	2/1/2001	6.16 J	mg/kg	
			OU4-4861IL-(150,50)	2/1/2001	31.1	mg/kg	
			OU4-4861IL-(150,70)	2/1/2001	6.83	mg/kg	
			OU4-4861IL-(170,110)	2/1/2001	5.51	mg/kg	
			OU4-4861IL-(170,130)	2/1/2001	5.34	mg/kg	
			OU4-4861IL-(170,150)	2/1/2001	5.09 J	mg/kg	
			OU4-4861IL-(170,190)	2/1/2001	6.11 J	mg/kg	
			OU4-4861IL-(170,70)	2/1/2001	10.9	mg/kg	
			OU4-4861IL-(170,90)	2/1/2001	12.7	mg/kg	
			OU4-4861IL-(190,110)	2/1/2001	4.82	mg/kg	
			OU4-4861IL-(190,130)	2/1/2001	4.72 J	mg/kg	
			OU4-4861IL-(190,210)	2/1/2001	6.19	mg/kg	
			OU4-4861IL-(190,90)	2/1/2001	4.04	mg/kg	
			OU4-4861IL-(210,110)	2/1/2001	3.85	mg/kg	
			OU4-4861IL-(210,130)	2/1/2001	3.91	mg/kg	
			OU4-4861IL-(230,110)	2/1/2001	3.96 J	mg/kg	
			OU4-4861IL-(230,130)	2/1/2001	1.47	mg/kg	
			OU4-4861IL-(230,150)	2/1/2001	3.2 J	mg/kg	
			OU4-4861IL-(250,130)	2/1/2001	5.76	mg/kg	
			OU4-4861IL-(30,110)	2/1/2001	5.6 J	mg/kg	
			OU4-4861IL-(30,90)	2/1/2001	3.98 J	mg/kg	
			OU4-4861IL-(50,110)	2/1/2001	4.24 J	mg/kg	
			OU4-4861IL-(50,50)	2/1/2001	5.68 J	mg/kg	
			OU4-4861IL-(50,70)	2/1/2001	2.51 J	mg/kg	
			OU4-4861IL-(50,90)	2/1/2001	5.07 J	mg/kg	
			OU4-4861IL-(70,10)	2/1/2001	5.64 J	mg/kg	
			OU4-4861IL-(70,110)	2/1/2001	4.17 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4861IL-(70,130)	2/1/2001	4.14 J	mg/kg	
			OU4-4861IL-(70,30)	2/1/2001	5.86	mg/kg	
			OU4-4861IL-(70,50)	2/1/2001	7.72 J	mg/kg	
			OU4-4861IL-(70,70)	2/1/2001	3.98 J	mg/kg	
			OU4-4861IL-(70,90)	2/1/2001	5.2 J	mg/kg	
			OU4-4861IL-(90,110)	2/1/2001	8.23 J	mg/kg	
			OU4-4861IL-(90,130)	2/1/2001	4.51 J	mg/kg	
			OU4-4861IL-(90,30)	2/1/2001	17.1	mg/kg	
			OU4-4861IL-(90,50)	2/1/2001	28.6	mg/kg	
			OU4-4861IL-(90,70)	2/1/2001	50 J	mg/kg	
			OU4-4861IL-(90,90)	2/1/2001	6.65 J	mg/kg	
			OU4-4861IL-DUP-01	2/1/2001	4.03 J	mg/kg	OU4-4861IL-30,90
			OU4-4861IL-DUP-02	2/1/2001	3.94 J	mg/kg	OU4-4861IL-110,130
			OU4-4861IL-DUP-03	2/1/2001	6.69 J	mg/kg	OU4-4861IL-150,150
OU4	OU4	4871 Glenbrook Road					
			OU4-4871-(10,110)	4/17/2001	4	mg/kg	
			OU4-4871-(10,90)	4/17/2001	12.5	mg/kg	
			OU4-4871-(110,130)	4/17/2001	3.7	mg/kg	
			OU4-4871-(110,150)	4/17/2001	11.8	mg/kg	
			OU4-4871-(110,170)	4/17/2001	4.2	mg/kg	
			OU4-4871-(110,190)	4/17/2001	3.8	mg/kg	
			OU4-4871-(110,210)	4/17/2001	11.8	mg/kg	
			OU4-4871-(110,230)	4/17/2001	4.1	mg/kg	
			OU4-4871-(110,30)	4/17/2001	3.2 J	mg/kg	
			OU4-4871-(110,50)	4/17/2001	3	mg/kg	
			OU4-4871-(110,70)	4/17/2001	2.4 J	mg/kg	
			OU4-4871-(110,90)	4/17/2001	3	mg/kg	
			OU4-4871-(130,110)	4/17/2001	7.7	mg/kg	
			OU4-4871-(130,130)	4/17/2001	5.2	mg/kg	
			OU4-4871-(130,150)	4/17/2001	4.2	mg/kg	
			OU4-4871-(130,170)	4/17/2001	4.7	mg/kg	
			OU4-4871-(130,190)	4/17/2001	4	mg/kg	
			OU4-4871-(130,210)	4/17/2001	3.9	mg/kg	
			OU4-4871-(130,50)	4/17/2001	4.2	mg/kg	
			OU4-4871-(130,70)	4/17/2001	9	mg/kg	
			OU4-4871-(130,90)	4/17/2001	3.1	mg/kg	
			OU4-4871-(150,110)	4/17/2001	5.8	mg/kg	
			OU4-4871-(150,130)	4/17/2001	5.7	mg/kg	
			OU4-4871-(150,150)	4/17/2001	5.1	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU4-4871-(150,170)	4/17/2001	2.2 J	mg/kg	
			OU4-4871-(150,190)	4/17/2001	5.9	mg/kg	
			OU4-4871-(150,210)	4/17/2001	5.3	mg/kg	
			OU4-4871-(170,130)	4/17/2001	4.4	mg/kg	
			OU4-4871-(170,150)	4/17/2001	5.3	mg/kg	
			OU4-4871-(170,170)	4/17/2001	4.8	mg/kg	
			OU4-4871-(170,190)	4/17/2001	4.4	mg/kg	
			OU4-4871-(30,110)	4/17/2001	5.9	mg/kg	
			OU4-4871-(30,130)	4/17/2001	4.7	mg/kg	
			OU4-4871-(30,150)	4/17/2001	2.5 J	mg/kg	
			OU4-4871-(30,70)	4/17/2001	5	mg/kg	
			OU4-4871-(30,90)	4/17/2001	6.2	mg/kg	
			OU4-4871-(50,110)	4/17/2001	4.8	mg/kg	
			OU4-4871-(50,130)	4/17/2001	5	mg/kg	
			OU4-4871-(50,150)	4/17/2001	2.9	mg/kg	
			OU4-4871-(50,170)	4/17/2001	2.3 J	mg/kg	
			OU4-4871-(50,50)	4/17/2001	6.1	mg/kg	
			OU4-4871-(50,70)	4/17/2001	5.5	mg/kg	
			OU4-4871-(50,90)	4/17/2001	5.2	mg/kg	
			OU4-4871-(70,170)	4/17/2001	4.3	mg/kg	
			OU4-4871-(70,190)	4/17/2001	4.6	mg/kg	
			OU4-4871-(70,30)	4/17/2001	5.1	mg/kg	
			OU4-4871-(70,50)	4/17/2001	6	mg/kg	
			OU4-4871-(70,70)	4/17/2001	4.1 J	mg/kg	
			OU4-4871-(70,90)	4/17/2001	6.8	mg/kg	
			OU4-4871-(90,10)	4/17/2001	4.3	mg/kg	
			OU4-4871-(90,150)	4/17/2001	2.8 J	mg/kg	
			OU4-4871-(90,170)	4/17/2001	6.1	mg/kg	
			OU4-4871-(90,190)	4/17/2001	4.2	mg/kg	
			OU4-4871-(90,210)	4/17/2001	20.4	mg/kg	
			OU4-4871-(90,30)	4/17/2001	2.7 J	mg/kg	
			OU4-4871-(90,50)	4/17/2001	2.7 J	mg/kg	
			OU4-4871-(90,70)	4/17/2001	3.6	mg/kg	
			OU4-4871-(90,90)	4/17/2001	4.9	mg/kg	
			OU4-4871-DUP01	4/17/2001	5	mg/kg	OU4-4871-(110,130)
			OU4-4871-DUP02	4/17/2001	7.1	mg/kg	OU4-4871-(150,110)
			OU4-4871-DUP03	4/17/2001	4.6	mg/kg	OU4-4871-(150,150)
CTA	1D	4901 Rodman Street					
			OU5-CTA-1D-4901RS-(0,120)	12/7/2001	2.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-4901RS-(100,100)	12/7/2001	3.2	mg/kg	
			OU5-CTA-1D-4901RS-(100,120)	12/7/2001	2.5 J	mg/kg	
			OU5-CTA-1D-4901RS-(100,40)	12/7/2001	4.1	mg/kg	
			OU5-CTA-1D-4901RS-(100,60)	12/7/2001	3.5	mg/kg	
			OU5-CTA-1D-4901RS-(100,80)	12/7/2001	6.1	mg/kg	
			OU5-CTA-1D-4901RS-(20,100)	12/7/2001	3.3	mg/kg	
			OU5-CTA-1D-4901RS-(20,120)	12/7/2001	8.4	mg/kg	
			OU5-CTA-1D-4901RS-(20,140)	12/7/2001	4.9	mg/kg	
			OU5-CTA-1D-4901RS-(20,60)	12/7/2001	2.7 J	mg/kg	
			OU5-CTA-1D-4901RS-(20,80)	12/7/2001	3.6	mg/kg	
			OU5-CTA-1D-4901RS-(40,100)	12/7/2001	24.2	mg/kg	
			OU5-CTA-1D-4901RS-(40,120)	12/7/2001	10.6	mg/kg	
			OU5-CTA-1D-4901RS-(40,140)	12/7/2001	9.7	mg/kg	
			OU5-CTA-1D-4901RS-(40,160)	12/7/2001	4.2	mg/kg	
			OU5-CTA-1D-4901RS-(40,20)	12/7/2001	7.9	mg/kg	
			OU5-CTA-1D-4901RS-(40,40)	12/7/2001	3.5	mg/kg	
			OU5-CTA-1D-4901RS-(40,60)	12/7/2001	5.9	mg/kg	
			OU5-CTA-1D-4901RS-(40,80)	12/7/2001	5.9	mg/kg	
			OU5-CTA-1D-4901RS-(60,100)	12/7/2001	4.2	mg/kg	
			OU5-CTA-1D-4901RS-(60,120)	12/7/2001	9.6	mg/kg	
			OU5-CTA-1D-4901RS-(60,140)	12/7/2001	26.6	mg/kg	
			OU5-CTA-1D-4901RS-(60,160)	12/7/2001	3.9	mg/kg	
			OU5-CTA-1D-4901RS-(60,20)	12/7/2001	6.4	mg/kg	
			OU5-CTA-1D-4901RS-(60,40)	12/7/2001	6.5	mg/kg	
			OU5-CTA-1D-4901RS-(60,60)	12/7/2001	21.5	mg/kg	
			OU5-CTA-1D-4901RS-(60,80)	12/7/2001	15.4	mg/kg	
			OU5-CTA-1D-4901RS-(80,100)	12/7/2001	1.7 J	mg/kg	
			OU5-CTA-1D-4901RS-(80,120)	12/7/2001	3	mg/kg	
			OU5-CTA-1D-4901RS-(80,140)	12/7/2001	14	mg/kg	
			OU5-CTA-1D-4901RS-(80,160)	12/7/2001	4.5	mg/kg	
			OU5-CTA-1D-4901RS-(80,40)	12/7/2001	5.3	mg/kg	
			OU5-CTA-1D-4901RS-(80,60)	12/7/2001	3.9	mg/kg	
			OU5-CTA-1D-4901RS-(80,80)	12/7/2001	2.9 J	mg/kg	
			OU5-CTA-1D-4901RS-DUP01	12/7/2001	4	mg/kg	OU5-CTA-1D-4901RS-(100,60)
			OU5-CTA-1D-4901RS-DUP02	12/7/2001	3.7	mg/kg	OU5-CTA-1D-4901RS-(40,40)
CSA	12	4907 Indian Lane					
			OU5-CSA-12-4907IL-(100,100)	12/31/2001	15.6	mg/kg	
			OU5-CSA-12-4907IL-(100,120)	12/31/2001	15.6	mg/kg	
			OU5-CSA-12-4907IL-(100,140)	12/31/2001	17.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-4907IL-(100,160)	12/31/2001	18.7	mg/kg	
			OU5-CSA-12-4907IL-(100,180)	12/31/2001	12	mg/kg	
			OU5-CSA-12-4907IL-(100,20)	12/31/2001	5.2	mg/kg	
			OU5-CSA-12-4907IL-(100,40)	12/31/2001	21	mg/kg	
			OU5-CSA-12-4907IL-(100,60)	12/31/2001	49.4	mg/kg	
			OU5-CSA-12-4907IL-(100,80)	12/31/2001	19.5	mg/kg	
			OU5-CSA-12-4907IL-(120,100)	12/31/2001	17.1	mg/kg	
			OU5-CSA-12-4907IL-(120,120)	12/31/2001	10	mg/kg	
			OU5-CSA-12-4907IL-(120,140)	12/31/2001	6.2	mg/kg	
			OU5-CSA-12-4907IL-(120,160)	12/31/2001	6.2	mg/kg	
			OU5-CSA-12-4907IL-(120,180)	12/31/2001	7.3	mg/kg	
			OU5-CSA-12-4907IL-(120,20)	12/31/2001	5.8	mg/kg	
			OU5-CSA-12-4907IL-(120,40)	12/31/2001	6.5	mg/kg	
			OU5-CSA-12-4907IL-(120,60)	12/31/2001	20.9	mg/kg	
			OU5-CSA-12-4907IL-(120,80)	12/31/2001	16.6	mg/kg	
			OU5-CSA-12-4907IL-(140,100)	12/31/2001	5.8	mg/kg	
			OU5-CSA-12-4907IL-(140,120)	12/31/2001	6.6	mg/kg	
			OU5-CSA-12-4907IL-(140,140)	12/31/2001	3.3	mg/kg	
			OU5-CSA-12-4907IL-(140,180)	12/31/2001	9	mg/kg	
			OU5-CSA-12-4907IL-(140,200)	12/31/2001	4.6	mg/kg	
			OU5-CSA-12-4907IL-(140,40)	12/31/2001	4.1	mg/kg	
			OU5-CSA-12-4907IL-(140,60)	12/31/2001	22.4	mg/kg	
			OU5-CSA-12-4907IL-(140,80)	12/31/2001	17.7	mg/kg	
			OU5-CSA-12-4907IL-(160,100)	12/31/2001	5.9	mg/kg	
			OU5-CSA-12-4907IL-(160,120)	12/31/2001	5.2	mg/kg	
			OU5-CSA-12-4907IL-(160,180)	12/31/2001	4.1	mg/kg	
			OU5-CSA-12-4907IL-(160,200)	12/31/2001	3.4	mg/kg	
			OU5-CSA-12-4907IL-(160,220)	12/31/2001	4.4	mg/kg	
			OU5-CSA-12-4907IL-(160,60)	12/31/2001	4.3	mg/kg	
			OU5-CSA-12-4907IL-(160,80)	12/31/2001	8.7	mg/kg	
			OU5-CSA-12-4907IL-(180,100)	12/31/2001	6.2	mg/kg	
			OU5-CSA-12-4907IL-(180,120)	12/31/2001	5.5	mg/kg	
			OU5-CSA-12-4907IL-(180,140)	12/31/2001	4.1	mg/kg	
			OU5-CSA-12-4907IL-(180,160)	12/31/2001	5	mg/kg	
			OU5-CSA-12-4907IL-(180,180)	12/31/2001	4.8	mg/kg	
			OU5-CSA-12-4907IL-(180,200)	12/31/2001	4.2	mg/kg	
			OU5-CSA-12-4907IL-(180,220)	12/31/2001	5.4	mg/kg	
			OU5-CSA-12-4907IL-(180,60)	12/31/2001	3.4	mg/kg	
			OU5-CSA-12-4907IL-(180,80)	12/31/2001	3.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-4907IL-(20,120)	12/31/2001	36.3	mg/kg	
			OU5-CSA-12-4907IL-(20,140)	12/31/2001	9.5	mg/kg	
			OU5-CSA-12-4907IL-(200,100)	12/31/2001	5.8	mg/kg	
			OU5-CSA-12-4907IL-(200,120)	12/31/2001	7	mg/kg	
			OU5-CSA-12-4907IL-(200,140)	12/31/2001	4.6	mg/kg	
			OU5-CSA-12-4907IL-(200,160)	12/31/2001	6.5	mg/kg	
			OU5-CSA-12-4907IL-(200,180)	12/31/2001	5	mg/kg	
			OU5-CSA-12-4907IL-(200,200)	12/31/2001	5.9	mg/kg	
			OU5-CSA-12-4907IL-(200,220)	12/31/2001	2.9	mg/kg	
			OU5-CSA-12-4907IL-(200,80)	12/31/2001	2.1 J	mg/kg	
			OU5-CSA-12-4907IL-(220,100)	12/31/2001	5.9	mg/kg	
			OU5-CSA-12-4907IL-(220,120)	12/31/2001	6.4	mg/kg	
			OU5-CSA-12-4907IL-(220,140)	12/31/2001	4	mg/kg	
			OU5-CSA-12-4907IL-(220,160)	12/31/2001	4.6	mg/kg	
			OU5-CSA-12-4907IL-(220,180)	12/31/2001	3.9	mg/kg	
			OU5-CSA-12-4907IL-(220,200)	12/31/2001	4.6	mg/kg	
			OU5-CSA-12-4907IL-(240,100)	12/31/2001	3.4	mg/kg	
			OU5-CSA-12-4907IL-(240,120)	12/31/2001	2.8 J	mg/kg	
			OU5-CSA-12-4907IL-(240,140)	12/31/2001	3.3	mg/kg	
			OU5-CSA-12-4907IL-(240,160)	12/31/2001	3.1	mg/kg	
			OU5-CSA-12-4907IL-(260,120)	12/31/2001	2.7	mg/kg	
			OU5-CSA-12-4907IL-(40,100)	12/31/2001	6	mg/kg	
			OU5-CSA-12-4907IL-(40,120)	12/31/2001	29.3	mg/kg	
			OU5-CSA-12-4907IL-(40,140)	12/31/2001	23	mg/kg	
			OU5-CSA-12-4907IL-(40,80)	12/31/2001	7.1	mg/kg	
			OU5-CSA-12-4907IL-(60,100)	12/31/2001	45.6	mg/kg	
			OU5-CSA-12-4907IL-(60,120)	12/31/2001	38	mg/kg	
			OU5-CSA-12-4907IL-(60,140)	12/31/2001	37.1	mg/kg	
			OU5-CSA-12-4907IL-(60,160)	12/31/2001	21.2	mg/kg	
			OU5-CSA-12-4907IL-(60,60)	12/31/2001	4.9	mg/kg	
			OU5-CSA-12-4907IL-(60,80)	12/31/2001	22.3	mg/kg	
			OU5-CSA-12-4907IL-(80,100)	12/31/2001	24.2	mg/kg	
			OU5-CSA-12-4907IL-(80,120)	12/31/2001	19.4	mg/kg	
			OU5-CSA-12-4907IL-(80,140)	12/31/2001	38.3	mg/kg	
			OU5-CSA-12-4907IL-(80,160)	12/31/2001	43.7	mg/kg	
			OU5-CSA-12-4907IL-(80,40)	12/31/2001	7.9	mg/kg	
			OU5-CSA-12-4907IL-(80,60)	12/31/2001	30.1	mg/kg	
			OU5-CSA-12-4907IL-(80,80)	12/31/2001	25.6	mg/kg	
			OU5-CSA-12-4907IL-DUP01	12/31/2001	20.2	mg/kg	OU5-CSA-12-4907IL-(80,120)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-4907IL-DUP02	12/31/2001	5.7	mg/kg	OU5-CSA-12-4907IL-(60,60)
			OU5-CSA-12-4907IL-DUP03	12/31/2001	5.1	mg/kg	OU5-CSA-12-4907IL-(120,140)
			OU5-CSA-12-4907IL-DUP04	12/31/2001	29.5	mg/kg	OU5-CSA-12-4907IL-(80,60)
			OU5-CSA-12-4907IL-SB1	1/7/2002	1.4 J	mg/kg	
CTA	1A	4911 Van Ness Street					
			OU5-CTA-1A-4911VNS-(0,80)	1/25/2002	3	mg/kg	
			OU5-CTA-1A-4911VNS-(100,100)	1/25/2002	7.9	mg/kg	
			OU5-CTA-1A-4911VNS-(100,40)	1/25/2002	26	mg/kg	
			OU5-CTA-1A-4911VNS-(100,60)	1/25/2002	30.7	mg/kg	
			OU5-CTA-1A-4911VNS-(100,80)	1/25/2002	3.9	mg/kg	
			OU5-CTA-1A-4911VNS-(120,100)	1/25/2002	10	mg/kg	
			OU5-CTA-1A-4911VNS-(120,60)	1/25/2002	3.6	mg/kg	
			OU5-CTA-1A-4911VNS-(120,80)	1/25/2002	3.8	mg/kg	
			OU5-CTA-1A-4911VNS-(140,100)	1/25/2002	6.2	mg/kg	
			OU5-CTA-1A-4911VNS-(140,60)	1/25/2002	15.2	mg/kg	
			OU5-CTA-1A-4911VNS-(140,80)	1/25/2002	4.2	mg/kg	
			OU5-CTA-1A-4911VNS-(20,40)	1/25/2002	33.4	mg/kg	
			OU5-CTA-1A-4911VNS-(20,60)	1/25/2002	12.1	mg/kg	
			OU5-CTA-1A-4911VNS-(20,80)	1/25/2002	4.3	mg/kg	
			OU5-CTA-1A-4911VNS-(40,20)	1/25/2002	6.1	mg/kg	
			OU5-CTA-1A-4911VNS-(40,40)	1/25/2002	6.3	mg/kg	
			OU5-CTA-1A-4911VNS-(40,60)	1/25/2002	18.5	mg/kg	
			OU5-CTA-1A-4911VNS-(40,80)	1/25/2002	3.6	mg/kg	
			OU5-CTA-1A-4911VNS-(60,100)	1/25/2002	2.9	mg/kg	
			OU5-CTA-1A-4911VNS-(60,20)	1/25/2002	12.1	mg/kg	
			OU5-CTA-1A-4911VNS-(60,40)	1/25/2002	4.1	mg/kg	
			OU5-CTA-1A-4911VNS-(60,60)	1/25/2002	5.5	mg/kg	
			OU5-CTA-1A-4911VNS-(60,80)	1/25/2002	2.7	mg/kg	
			OU5-CTA-1A-4911VNS-(80,100)	1/25/2002	3.7	mg/kg	
			OU5-CTA-1A-4911VNS-(80,40)	1/25/2002	3.1	mg/kg	
			OU5-CTA-1A-4911VNS-(80,80)	1/25/2002	2.8	mg/kg	
			OU5-CTA-1A-4911VNS-DUP01	1/25/2002	3.9	mg/kg	OU5-CTA-1A-4911VNS-(120,60)
CTA	1A	4915 Van Ness Street					
			OU5-CTA-1A-4915VNS-(100,100)	1/31/2002	3.7	mg/kg	
			OU5-CTA-1A-4915VNS-(100,120)	1/31/2002	2.8	mg/kg	
			OU5-CTA-1A-4915VNS-(100,60)	1/31/2002	4.7	mg/kg	
			OU5-CTA-1A-4915VNS-(100,80)	1/31/2002	7.4	mg/kg	
			OU5-CTA-1A-4915VNS-(120,100)	1/31/2002	7.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1A-4915VNS-(120,120)	1/31/2002	5.2	mg/kg	
			OU5-CTA-1A-4915VNS-(120,140)	1/31/2002	4.1	mg/kg	
			OU5-CTA-1A-4915VNS-(120,80)	1/31/2002	9.4	mg/kg	
			OU5-CTA-1A-4915VNS-(20,100)	1/31/2002	4.7	mg/kg	
			OU5-CTA-1A-4915VNS-(20,80)	1/31/2002	3.9	mg/kg	
			OU5-CTA-1A-4915VNS-(40,100)	1/31/2002	4.8	mg/kg	
			OU5-CTA-1A-4915VNS-(40,20)	1/31/2002	3.2	mg/kg	
			OU5-CTA-1A-4915VNS-(40,40)	1/31/2002	4	mg/kg	
			OU5-CTA-1A-4915VNS-(40,60)	1/31/2002	3.9	mg/kg	
			OU5-CTA-1A-4915VNS-(40,80)	1/31/2002	5.3	mg/kg	
			OU5-CTA-1A-4915VNS-(60,100)	1/31/2002	7.4	mg/kg	
			OU5-CTA-1A-4915VNS-(60,120)	1/31/2002	16.1	mg/kg	
			OU5-CTA-1A-4915VNS-(60,20)	1/31/2002	9.8	mg/kg	
			OU5-CTA-1A-4915VNS-(60,40)	1/31/2002	4.9	mg/kg	
			OU5-CTA-1A-4915VNS-(60,60)	1/31/2002	5.9	mg/kg	
			OU5-CTA-1A-4915VNS-(60,80)	1/31/2002	5.7	mg/kg	
			OU5-CTA-1A-4915VNS-(80,100)	1/31/2002	3.4	mg/kg	
			OU5-CTA-1A-4915VNS-(80,120)	1/31/2002	6	mg/kg	
			OU5-CTA-1A-4915VNS-(80,40)	1/31/2002	14.8	mg/kg	
			OU5-CTA-1A-4915VNS-(80,60)	1/31/2002	5	mg/kg	
			OU5-CTA-1A-4915VNS-DUP01	1/31/2002	13.8	mg/kg	OU5-CTA-1A-4915VNS-(80,40)
CSA	11	4918 Hillbrook Lane					
			OU5-CSA-11-4918HL-(100,100)	1/31/2002	2.5	mg/kg	
			OU5-CSA-11-4918HL-(100,120)	1/31/2002	14.3	mg/kg	
			OU5-CSA-11-4918HL-(100,60)	1/31/2002	7.6	mg/kg	
			OU5-CSA-11-4918HL-(120,100)	1/31/2002	3.8	mg/kg	
			OU5-CSA-11-4918HL-(120,120)	1/31/2002	10.2	mg/kg	
			OU5-CSA-11-4918HL-(120,60)	1/31/2002	6.8	mg/kg	
			OU5-CSA-11-4918HL-(120,80)	1/31/2002	10.1	mg/kg	
			OU5-CSA-11-4918HL-(140,100)	1/31/2002	4.4	mg/kg	
			OU5-CSA-11-4918HL-(140,120)	1/31/2002	15.9	mg/kg	
			OU5-CSA-11-4918HL-(140,60)	1/31/2002	2.9	mg/kg	
			OU5-CSA-11-4918HL-(140,80)	1/31/2002	4.6	mg/kg	
			OU5-CSA-11-4918HL-(160,100)	1/31/2002	5.4	mg/kg	
			OU5-CSA-11-4918HL-(160,120)	1/31/2002	3.8	mg/kg	
			OU5-CSA-11-4918HL-(160,60)	1/31/2002	8.1	mg/kg	
			OU5-CSA-11-4918HL-(160,80)	1/31/2002	3.9	mg/kg	
			OU5-CSA-11-4918HL-(180,60)	1/31/2002	5.4	mg/kg	
			OU5-CSA-11-4918HL-(180,80)	1/31/2002	4.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4918HL-(20,40)	1/31/2002	4	mg/kg	
			OU5-CSA-11-4918HL-(20,60)	1/31/2002	5.7	mg/kg	
			OU5-CSA-11-4918HL-(20,80)	1/31/2002	8.8	mg/kg	
			OU5-CSA-11-4918HL-(40,20)	1/31/2002	5.8	mg/kg	
			OU5-CSA-11-4918HL-(40,40)	1/31/2002	26.4	mg/kg	
			OU5-CSA-11-4918HL-(40,60)	1/31/2002	54.6	mg/kg	
			OU5-CSA-11-4918HL-(40,80)	1/31/2002	15.4	mg/kg	
			OU5-CSA-11-4918HL-(60,100)	1/31/2002	2.2	mg/kg	
			OU5-CSA-11-4918HL-(60,20)	1/31/2002	23.8	mg/kg	
			OU5-CSA-11-4918HL-(60,40)	1/31/2002	25.3	mg/kg	
			OU5-CSA-11-4918HL-(60,60)	1/31/2002	56.6	mg/kg	
			OU5-CSA-11-4918HL-(60,80)	1/31/2002	18.3	mg/kg	
			OU5-CSA-11-4918HL-(80,100)	1/31/2002	7	mg/kg	
			OU5-CSA-11-4918HL-(80,40)	1/31/2002	5.8	mg/kg	
			OU5-CSA-11-4918HL-(80,60)	1/31/2002	6.3	mg/kg	
			OU5-CSA-11-4918HL-(80,80)	1/31/2002	5.7	mg/kg	
			OU5-CSA-11-4918HL-DUP01	1/31/2002	21.1	mg/kg	OU5-CSA-11-4918HL-(60,40)
			OU5-CSA-11-4918HL-DUP02	1/31/2002	7.8	mg/kg	OU5-CSA-11-4918HL-(120,80)
			OU5-CSA-11-4918HL-SB1	1/28/2002	16.1 K	mg/kg	
CTA	1D	4920 Rodman Street					
			OU5-CTA-1D-4920RS-(100,120)	10/18/2001	3.4	mg/kg	
			OU5-CTA-1D-4920RS-(100,20)	10/18/2001	3.3	mg/kg	
			OU5-CTA-1D-4920RS-(100,40)	10/18/2001	3.5	mg/kg	
			OU5-CTA-1D-4920RS-(100,60)	10/18/2001	2.8	mg/kg	
			OU5-CTA-1D-4920RS-(100,80)	10/18/2001	9.6	mg/kg	
			OU5-CTA-1D-4920RS-(120,120)	10/18/2001	2.5	mg/kg	
			OU5-CTA-1D-4920RS-(120,140)	10/18/2001	5.7	mg/kg	
			OU5-CTA-1D-4920RS-(120,40)	10/18/2001	5	mg/kg	
			OU5-CTA-1D-4920RS-(120,60)	10/18/2001	3.4	mg/kg	
			OU5-CTA-1D-4920RS-(120,80)	10/18/2001	5.8	mg/kg	
			OU5-CTA-1D-4920RS-(140,100)	10/18/2001	6.4	mg/kg	
			OU5-CTA-1D-4920RS-(140,120)	10/18/2001	4	mg/kg	
			OU5-CTA-1D-4920RS-(140,140)	10/18/2001	3.2	mg/kg	
			OU5-CTA-1D-4920RS-(140,40)	10/18/2001	1.7 J	mg/kg	
			OU5-CTA-1D-4920RS-(140,80)	10/18/2001	4	mg/kg	
			OU5-CTA-1D-4920RS-(160,100)	10/18/2001	4.9	mg/kg	
			OU5-CTA-1D-4920RS-(160,120)	10/18/2001	6.1	mg/kg	
			OU5-CTA-1D-4920RS-(160,140)	10/18/2001	8	mg/kg	
			OU5-CTA-1D-4920RS-(160,40)	10/18/2001	3.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1D-4920RS-(160,60)	10/18/2001	6.1	mg/kg	
			OU5-CTA-1D-4920RS-(160,80)	10/18/2001	6	mg/kg	
			OU5-CTA-1D-4920RS-(180,100)	10/18/2001	5.8	mg/kg	
			OU5-CTA-1D-4920RS-(180,120)	10/18/2001	7.2	mg/kg	
			OU5-CTA-1D-4920RS-(180,140)	10/18/2001	4.2	mg/kg	
			OU5-CTA-1D-4920RS-(180,160)	10/18/2001	4.3	mg/kg	
			OU5-CTA-1D-4920RS-(180,60)	10/18/2001	14	mg/kg	
			OU5-CTA-1D-4920RS-(180,80)	10/18/2001	6.7	mg/kg	
			OU5-CTA-1D-4920RS-(20,100)	10/18/2001	4.6	mg/kg	
			OU5-CTA-1D-4920RS-(200,100)	10/18/2001	5.2	mg/kg	
			OU5-CTA-1D-4920RS-(200,120)	10/18/2001	6.2	mg/kg	
			OU5-CTA-1D-4920RS-(200,140)	10/18/2001	5.2	mg/kg	
			OU5-CTA-1D-4920RS-(200,160)	10/18/2001	3.8	mg/kg	
			OU5-CTA-1D-4920RS-(200,60)	10/18/2001	12.6	mg/kg	
			OU5-CTA-1D-4920RS-(200,80)	10/18/2001	29.8	mg/kg	
			OU5-CTA-1D-4920RS-(220,140)	10/18/2001	5.1	mg/kg	
			OU5-CTA-1D-4920RS-(220,160)	10/18/2001	3.3 J	mg/kg	
			OU5-CTA-1D-4920RS-(220,180)	10/18/2001	4 J	mg/kg	
			OU5-CTA-1D-4920RS-(40,100)	10/18/2001	13.7	mg/kg	
			OU5-CTA-1D-4920RS-(40,40)	10/18/2001	2.5	mg/kg	
			OU5-CTA-1D-4920RS-(40,60)	10/18/2001	4	mg/kg	
			OU5-CTA-1D-4920RS-(40,80)	10/18/2001	3.2	mg/kg	
			OU5-CTA-1D-4920RS-(60,100)	10/18/2001	26	mg/kg	
			OU5-CTA-1D-4920RS-(60,120)	10/18/2001	3.1	mg/kg	
			OU5-CTA-1D-4920RS-(60,20)	10/18/2001	3.6	mg/kg	
			OU5-CTA-1D-4920RS-(60,40)	10/18/2001	9.6	mg/kg	
			OU5-CTA-1D-4920RS-(60,60)	10/18/2001	19.5	mg/kg	
			OU5-CTA-1D-4920RS-(60,80)	10/18/2001	9.6	mg/kg	
			OU5-CTA-1D-4920RS-(80,100)	10/18/2001	12.2	mg/kg	
			OU5-CTA-1D-4920RS-(80,120)	10/18/2001	7.3	mg/kg	
			OU5-CTA-1D-4920RS-(80,20)	10/18/2001	4.8	mg/kg	
			OU5-CTA-1D-4920RS-(80,40)	10/18/2001	13.5	mg/kg	
			OU5-CTA-1D-4920RS-(80,60)	10/18/2001	15.7	mg/kg	
			OU5-CTA-1D-4920RS-(80,80)	10/18/2001	5.2	mg/kg	
			OU5-CTA-1D-4920RS-DUP01	10/18/2001	4.9	mg/kg	OU5-CTA-1D-4920RS-(140,100)
			OU5-CTA-1D-4920RS-DUP02	10/18/2001	4.9	mg/kg	OU5-CTA-1D-4920RS-(140,80)
			OU5-CTA-1D-4920RS-DUP03	10/18/2001	6.2	mg/kg	OU5-CTA-1D-4920RS-(160,60)
CSA	11	4922 Quebec Street					
			OU5-CSA-11-4922QS-(100,100)	9/12/2001	4.8 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4922QS-(100,120)	9/12/2001	5.7 L	mg/kg	
			OU5-CSA-11-4922QS-(100,60)	9/12/2001	8.3 L	mg/kg	
			OU5-CSA-11-4922QS-(100,80)	9/12/2001	4.9 L	mg/kg	
			OU5-CSA-11-4922QS-(120,100)	9/12/2001	4.3 L	mg/kg	
			OU5-CSA-11-4922QS-(120,120)	9/12/2001	3.7 L	mg/kg	
			OU5-CSA-11-4922QS-(120,40)	9/12/2001	4.4 L	mg/kg	
			OU5-CSA-11-4922QS-(120,60)	9/12/2001	8.6 L	mg/kg	
			OU5-CSA-11-4922QS-(120,80)	9/12/2001	12.5 L	mg/kg	
			OU5-CSA-11-4922QS-(140,100)	9/12/2001	2.4 JL	mg/kg	
			OU5-CSA-11-4922QS-(140,120)	9/12/2001	3 JL	mg/kg	
			OU5-CSA-11-4922QS-(140,40)	9/12/2001	5 L	mg/kg	
			OU5-CSA-11-4922QS-(140,60)	9/12/2001	4.6 L	mg/kg	
			OU5-CSA-11-4922QS-(140,80)	9/12/2001	59.8 L	mg/kg	
			OU5-CSA-11-4922QS-(160,100)	9/12/2001	0.43 UL	mg/kg	
			OU5-CSA-11-4922QS-(160,120)	9/12/2001	0.45 UL	mg/kg	
			OU5-CSA-11-4922QS-(160,40)	9/12/2001	2.9 L	mg/kg	
			OU5-CSA-11-4922QS-(160,60)	9/12/2001	3.5 L	mg/kg	
			OU5-CSA-11-4922QS-(160,80)	9/12/2001	0.42 UL	mg/kg	
			OU5-CSA-11-4922QS-(180,40)	9/12/2001	3.5 L	mg/kg	
			OU5-CSA-11-4922QS-(180,60)	9/12/2001	3.9 L	mg/kg	
			OU5-CSA-11-4922QS-(20,100)	9/12/2001	5.1 L	mg/kg	
			OU5-CSA-11-4922QS-(20,120)	9/12/2001	5.4 L	mg/kg	
			OU5-CSA-11-4922QS-(20,40)	9/12/2001	43.1 L	mg/kg	
			OU5-CSA-11-4922QS-(20,60)	9/12/2001	35.8 L	mg/kg	
			OU5-CSA-11-4922QS-(20,80)	9/12/2001	6.2 L	mg/kg	
			OU5-CSA-11-4922QS-(40,100)	9/12/2001	97 L	mg/kg	
			OU5-CSA-11-4922QS-(40,120)	9/12/2001	61.7 L	mg/kg	
			OU5-CSA-11-4922QS-(40,40)	9/12/2001	6.8 L	mg/kg	
			OU5-CSA-11-4922QS-(40,60)	9/12/2001	46.4 L	mg/kg	
			OU5-CSA-11-4922QS-(40,80)	9/12/2001	41.9 L	mg/kg	
			OU5-CSA-11-4922QS-(60,100)	9/12/2001	27.6 L	mg/kg	
			OU5-CSA-11-4922QS-(60,40)	9/12/2001	5.7 L	mg/kg	
			OU5-CSA-11-4922QS-(60,60)	9/12/2001	69.1 L	mg/kg	
			OU5-CSA-11-4922QS-(60,80)	9/12/2001	29.7 L	mg/kg	
			OU5-CSA-11-4922QS-(60.120)	9/12/2001	57.8 L	mg/kg	
			OU5-CSA-11-4922QS-(80,100)	9/12/2001	3 L	mg/kg	
			OU5-CSA-11-4922QS-(80,120)	9/12/2001	2.1 JL	mg/kg	
			OU5-CSA-11-4922QS-(80,40)	9/12/2001	2.1 JL	mg/kg	
			OU5-CSA-11-4922QS-DUP01	9/12/2001	64.5 L	mg/kg	OU5-CSA-11-4922QS-(40,120)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4922QS-DUP02	9/12/2001	43.9 L	mg/kg	OU5-CSA-11-4922QS-(40,80)
CTA	1D	4924 Van Ness Street					
			OU5-CTA-1D-4924VNS-(0,20)	12/17/2001	2.4 J	mg/kg	
			OU5-CTA-1D-4924VNS-(0,40)	12/17/2001	4.7	mg/kg	
			OU5-CTA-1D-4924VNS-(0,60)	12/17/2001	2.9	mg/kg	
			OU5-CTA-1D-4924VNS-(100,100)	12/17/2001	3	mg/kg	
			OU5-CTA-1D-4924VNS-(100,40)	12/17/2001	5.5	mg/kg	
			OU5-CTA-1D-4924VNS-(100,60)	12/17/2001	10.3	mg/kg	
			OU5-CTA-1D-4924VNS-(100,80)	12/17/2001	1.7 J	mg/kg	
			OU5-CTA-1D-4924VNS-(120,100)	12/17/2001	3.3	mg/kg	
			OU5-CTA-1D-4924VNS-(120,120)	12/17/2001	3.6	mg/kg	
			OU5-CTA-1D-4924VNS-(120,60)	12/17/2001	2.1 J	mg/kg	
			OU5-CTA-1D-4924VNS-(120,80)	12/17/2001	1.9 J	mg/kg	
			OU5-CTA-1D-4924VNS-(140,100)	12/17/2001	5.4	mg/kg	
			OU5-CTA-1D-4924VNS-(140,120)	12/17/2001	4.8	mg/kg	
			OU5-CTA-1D-4924VNS-(140,60)	12/17/2001	5.3	mg/kg	
			OU5-CTA-1D-4924VNS-(140,80)	12/17/2001	9.6	mg/kg	
			OU5-CTA-1D-4924VNS-(160,100)	12/17/2001	3.4	mg/kg	
			OU5-CTA-1D-4924VNS-(160,120)	12/17/2001	7.3	mg/kg	
			OU5-CTA-1D-4924VNS-(160,60)	12/17/2001	4.5	mg/kg	
			OU5-CTA-1D-4924VNS-(160,80)	12/17/2001	4.9	mg/kg	
			OU5-CTA-1D-4924VNS-(20,20)	12/17/2001	3.5	mg/kg	
			OU5-CTA-1D-4924VNS-(20,40)	12/17/2001	3	mg/kg	
			OU5-CTA-1D-4924VNS-(20,60)	12/17/2001	2.5 J	mg/kg	
			OU5-CTA-1D-4924VNS-(20,80)	12/17/2001	4.2	mg/kg	
			OU5-CTA-1D-4924VNS-(40,20)	12/17/2001	2 J	mg/kg	
			OU5-CTA-1D-4924VNS-(40,40)	12/17/2001	1.7 J	mg/kg	
			OU5-CTA-1D-4924VNS-(40,60)	12/17/2001	3.5	mg/kg	
			OU5-CTA-1D-4924VNS-(40,80)	12/17/2001	3.8	mg/kg	
			OU5-CTA-1D-4924VNS-(60,40)	12/17/2001	2.4 J	mg/kg	
			OU5-CTA-1D-4924VNS-(60,60)	12/17/2001	3	mg/kg	
			OU5-CTA-1D-4924VNS-(60,80)	12/17/2001	5.6	mg/kg	
			OU5-CTA-1D-4924VNS-(80,100)	12/17/2001	3.8	mg/kg	
			OU5-CTA-1D-4924VNS-(80,40)	12/17/2001	6.9	mg/kg	
			OU5-CTA-1D-4924VNS-(80,60)	12/17/2001	3.7	mg/kg	
			OU5-CTA-1D-4924VNS-(80,80)	12/17/2001	2.5 J	mg/kg	
			OU5-CTA-1D-4924VNS-DUP01	12/17/2001	11.4	mg/kg	OU5-CTA-1D-4924VNS-(100,60)
			OU5-CTA-1D-4924VNS-DUP02	12/17/2001	4.3	mg/kg	OU5-CTA-1D-4924VNS-(40,60)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
CSA	12	4925 Loughboro Road					
			OU5-CSA-12-4925LR-SB1	1/21/2002	4.7	mg/kg	
CSA	12	4925 Loughboro Road, Lot 20					
			OU5-CSA-12-L20-(0,140)	2/18/2002	3.4	mg/kg	
			OU5-CSA-12-L20-(0,160)	2/18/2002	3.7	mg/kg	
			OU5-CSA-12-L20-(100,0)	2/18/2002	2.7	mg/kg	
			OU5-CSA-12-L20-(100,100)	2/18/2002	3.7	mg/kg	
			OU5-CSA-12-L20-(100,120)	2/18/2002	3.3	mg/kg	
			OU5-CSA-12-L20-(100,140)	2/18/2002	3.4	mg/kg	
			OU5-CSA-12-L20-(100,160)	2/18/2002	3.4	mg/kg	
			OU5-CSA-12-L20-(100,180)	2/18/2002	4	mg/kg	
			OU5-CSA-12-L20-(100,20)	2/18/2002	2.9	mg/kg	
			OU5-CSA-12-L20-(100,200)	2/18/2002	11.7	mg/kg	
			OU5-CSA-12-L20-(100,220)	2/18/2002	52.6	mg/kg	
			OU5-CSA-12-L20-(100,40)	2/18/2002	3.3	mg/kg	
			OU5-CSA-12-L20-(100,60)	2/18/2002	3.2	mg/kg	
			OU5-CSA-12-L20-(100,80)	2/18/2002	3.3	mg/kg	
			OU5-CSA-12-L20-(120,100)	2/18/2002	4.4	mg/kg	
			OU5-CSA-12-L20-(120,120)	2/18/2002	3.8	mg/kg	
			OU5-CSA-12-L20-(120,140)	2/18/2002	4.2	mg/kg	
			OU5-CSA-12-L20-(120,160)	2/18/2002	3.9	mg/kg	
			OU5-CSA-12-L20-(120,180)	2/18/2002	10.9	mg/kg	
			OU5-CSA-12-L20-(120,20)	2/18/2002	3.5	mg/kg	
			OU5-CSA-12-L20-(120,200)	2/18/2002	59.1	mg/kg	
			OU5-CSA-12-L20-(120,220)	2/18/2002	21.7	mg/kg	
			OU5-CSA-12-L20-(120,40)	2/18/2002	2.5	mg/kg	
			OU5-CSA-12-L20-(120,60)	2/18/2002	3	mg/kg	
			OU5-CSA-12-L20-(120,80)	2/18/2002	2.8	mg/kg	
			OU5-CSA-12-L20-(140,100)	2/18/2002	4.1	mg/kg	
			OU5-CSA-12-L20-(140,120)	2/18/2002	2.9 J	mg/kg	
			OU5-CSA-12-L20-(140,140)	2/18/2002	2.7	mg/kg	
			OU5-CSA-12-L20-(140,160)	2/18/2002	3.4	mg/kg	
			OU5-CSA-12-L20-(140,180)	2/18/2002	7.6	mg/kg	
			OU5-CSA-12-L20-(140,20)	2/18/2002	4	mg/kg	
			OU5-CSA-12-L20-(140,200)	2/18/2002	90.4	mg/kg	
			OU5-CSA-12-L20-(140,220)	2/18/2002	25	mg/kg	
			OU5-CSA-12-L20-(140,40)	2/18/2002	2.9	mg/kg	
			OU5-CSA-12-L20-(140,60)	2/18/2002	1.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-L20-(140,80)	2/18/2002	2.7	mg/kg	
			OU5-CSA-12-L20-(160,100)	2/18/2002	3.7	mg/kg	
			OU5-CSA-12-L20-(160,120)	2/18/2002	4.6	mg/kg	
			OU5-CSA-12-L20-(160,140)	2/18/2002	5.7	mg/kg	
			OU5-CSA-12-L20-(160,160)	2/18/2002	5.2	mg/kg	
			OU5-CSA-12-L20-(160,180)	2/18/2002	4.9	mg/kg	
			OU5-CSA-12-L20-(160,40)	2/18/2002	2.3	mg/kg	
			OU5-CSA-12-L20-(160,60)	2/18/2002	3	mg/kg	
			OU5-CSA-12-L20-(160,80)	2/18/2002	3.5	mg/kg	
			OU5-CSA-12-L20-(180,100)	2/18/2002	4.4	mg/kg	
			OU5-CSA-12-L20-(180,120)	2/18/2002	4.8	mg/kg	
			OU5-CSA-12-L20-(180,140)	2/18/2002	4.5	mg/kg	
			OU5-CSA-12-L20-(180,60)	2/18/2002	2.4	mg/kg	
			OU5-CSA-12-L20-(180-80)	2/18/2002	3.3	mg/kg	
			OU5-CSA-12-L20-(20,120)	2/18/2002	4	mg/kg	
			OU5-CSA-12-L20-(20,140)	2/18/2002	2.9	mg/kg	
			OU5-CSA-12-L20-(20,160)	2/18/2002	4.8	mg/kg	
			OU5-CSA-12-L20-(20,180)	2/18/2002	3.4	mg/kg	
			OU5-CSA-12-L20-(200,100)	2/18/2002	4.2	mg/kg	
			OU5-CSA-12-L20-(200,120)	2/18/2002	6.1	mg/kg	
			OU5-CSA-12-L20-(200,80)	2/18/2002	2.5	mg/kg	
			OU5-CSA-12-L20-(40,100)	2/18/2002	3.5	mg/kg	
			OU5-CSA-12-L20-(40,120)	2/18/2002	4.3	mg/kg	
			OU5-CSA-12-L20-(40,140)	2/18/2002	3.6	mg/kg	
			OU5-CSA-12-L20-(40,160)	2/18/2002	3.7	mg/kg	
			OU5-CSA-12-L20-(40,180)	2/18/2002	3	mg/kg	
			OU5-CSA-12-L20-(60,100)	2/18/2002	5.5	mg/kg	
			OU5-CSA-12-L20-(60,120)	2/18/2002	2.4	mg/kg	
			OU5-CSA-12-L20-(60,140)	2/18/2002	3.8	mg/kg	
			OU5-CSA-12-L20-(60,160)	2/18/2002	2.6	mg/kg	
			OU5-CSA-12-L20-(60,180)	2/18/2002	2.7	mg/kg	
			OU5-CSA-12-L20-(60,200)	2/18/2002	2.7	mg/kg	
			OU5-CSA-12-L20-(60,60)	2/18/2002	4.3	mg/kg	
			OU5-CSA-12-L20-(60,80)	2/18/2002	4.4	mg/kg	
			OU5-CSA-12-L20-(80,100)	2/18/2002	3.3	mg/kg	
			OU5-CSA-12-L20-(80,120)	2/18/2002	3.7	mg/kg	
			OU5-CSA-12-L20-(80,140)	2/18/2002	3.3	mg/kg	
			OU5-CSA-12-L20-(80,160)	2/18/2002	4.1	mg/kg	
			OU5-CSA-12-L20-(80,180)	2/18/2002	5.3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-L20-(80,200)	2/18/2002	5.8	mg/kg	
			OU5-CSA-12-L20-(80,40)	2/18/2002	3.7	mg/kg	
			OU5-CSA-12-L20-(80,60)	2/18/2002	2.7	mg/kg	
			OU5-CSA-12-L20-(80,80)	2/18/2002	4	mg/kg	
			OU5-CSA-12-L20-DUP01	2/18/2002	78.1	mg/kg	OU5-CSA-12-L20-(140,200)
			OU5-CSA-12-L20-DUP02	2/18/2002	4.6	mg/kg	OU5-CSA-12-L20-(160,180)
			OU5-CSA-12-L20-DUP03	2/18/2002	3.8	mg/kg	OU5-CSA-12-L20-(160,100)
			OU5-CSA-12-L20-SB1	2/28/2002	5.9 L	mg/kg	
CSA	11	4938 Quebec Street					
			OU5-CSA-11-4938QS-(0,40)	11/20/2001	6.1 J	mg/kg	
			OU5-CSA-11-4938QS-(0,60)	11/20/2001	5 J	mg/kg	
			OU5-CSA-11-4938QS-(100,20)	11/20/2001	19 J	mg/kg	
			OU5-CSA-11-4938QS-(100,40)	11/20/2001	10.2 J	mg/kg	
			OU5-CSA-11-4938QS-(100,60)	11/20/2001	22.1 J	mg/kg	
			OU5-CSA-11-4938QS-(100,80)	11/20/2001	8.8 J	mg/kg	
			OU5-CSA-11-4938QS-(120,20)	11/20/2001	4 J	mg/kg	
			OU5-CSA-11-4938QS-(120,40)	11/20/2001	16.5 J	mg/kg	
			OU5-CSA-11-4938QS-(120,60)	11/20/2001	26 J	mg/kg	
			OU5-CSA-11-4938QS-(120,80)	11/20/2001	3.1 J	mg/kg	
			OU5-CSA-11-4938QS-(140,20)	11/20/2001	3 J	mg/kg	
			OU5-CSA-11-4938QS-(140,40)	11/20/2001	3.4 J	mg/kg	
			OU5-CSA-11-4938QS-(140,60)	11/20/2001	5 J	mg/kg	
			OU5-CSA-11-4938QS-(20,20)	11/20/2001	16.4 J	mg/kg	
			OU5-CSA-11-4938QS-(20,40)	11/20/2001	18.5 J	mg/kg	
			OU5-CSA-11-4938QS-(20,60)	11/20/2001	9.5 J	mg/kg	
			OU5-CSA-11-4938QS-(20,80)	11/20/2001	15.1 J	mg/kg	
			OU5-CSA-11-4938QS-(40,20)	11/20/2001	9.9 J	mg/kg	
			OU5-CSA-11-4938QS-(40,40)	11/20/2001	12.2 J	mg/kg	
			OU5-CSA-11-4938QS-(40,60)	11/20/2001	11.3 J	mg/kg	
			OU5-CSA-11-4938QS-(40,80)	11/20/2001	17.6 J	mg/kg	
			OU5-CSA-11-4938QS-(60,20)	11/20/2001	3.6 J	mg/kg	
			OU5-CSA-11-4938QS-(60,40)	11/20/2001	16.6 J	mg/kg	
			OU5-CSA-11-4938QS-(60,60)	11/20/2001	25.3 J	mg/kg	
			OU5-CSA-11-4938QS-(60,80)	11/20/2001	4 J	mg/kg	
			OU5-CSA-11-4938QS-(80,20)	11/20/2001	2.1 J	mg/kg	
			OU5-CSA-11-4938QS-(80,60)	11/20/2001	26.7 J	mg/kg	
			OU5-CSA-11-4938QS-(80,80)	11/20/2001	5.3 J	mg/kg	
			OU5-CSA-11-4938QS-DUP01	11/20/2001	15.4 J	mg/kg	OU5-CSA-11-4938QS-(40,60)
			OU5-CSA-11-4938QS-DUP02	11/20/2001	9.8 J	mg/kg	OU5-CSA-11-4938QS-(40,20)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4938QS-SB1	12/3/2001	4.4	mg/kg	
CSA	12	4940 Indian Lane					
			OU5-CSA-12-4940IL-(100,100)	12/21/2001	16.3	mg/kg	
			OU5-CSA-12-4940IL-(100,120)	12/21/2001	4.4	mg/kg	
			OU5-CSA-12-4940IL-(100,160)	12/21/2001	6.5	mg/kg	
			OU5-CSA-12-4940IL-(100,180)	12/21/2001	14.7	mg/kg	
			OU5-CSA-12-4940IL-(100,20)	12/21/2001	4.6	mg/kg	
			OU5-CSA-12-4940IL-(100,200)	12/21/2001	8.4	mg/kg	
			OU5-CSA-12-4940IL-(100,220)	12/21/2001	8.3	mg/kg	
			OU5-CSA-12-4940IL-(100,240)	12/21/2001	2.3	mg/kg	
			OU5-CSA-12-4940IL-(100,40)	12/21/2001	4.8	mg/kg	
			OU5-CSA-12-4940IL-(100,60)	12/21/2001	5.6	mg/kg	
			OU5-CSA-12-4940IL-(100,80)	12/21/2001	5.6	mg/kg	
			OU5-CSA-12-4940IL-(120,100)	12/21/2001	5.8	mg/kg	
			OU5-CSA-12-4940IL-(120,120)	12/21/2001	1.2 J	mg/kg	
			OU5-CSA-12-4940IL-(120,140)	12/21/2001	21.9	mg/kg	
			OU5-CSA-12-4940IL-(120,180)	12/21/2001	18.7	mg/kg	
			OU5-CSA-12-4940IL-(120,200)	12/21/2001	11.6	mg/kg	
			OU5-CSA-12-4940IL-(120,220)	12/21/2001	5.6	mg/kg	
			OU5-CSA-12-4940IL-(120,240)	12/21/2001	2.8	mg/kg	
			OU5-CSA-12-4940IL-(120,40)	12/21/2001	22.3	mg/kg	
			OU5-CSA-12-4940IL-(120,60)	12/21/2001	5	mg/kg	
			OU5-CSA-12-4940IL-(120,80)	12/21/2001	3.3	mg/kg	
			OU5-CSA-12-4940IL-(140,100)	12/21/2001	5.2	mg/kg	
			OU5-CSA-12-4940IL-(140,120)	12/21/2001	16.9	mg/kg	
			OU5-CSA-12-4940IL-(140,140)	12/21/2001	28.2	mg/kg	
			OU5-CSA-12-4940IL-(140,180)	12/21/2001	5.4	mg/kg	
			OU5-CSA-12-4940IL-(140,200)	12/21/2001	13.7	mg/kg	
			OU5-CSA-12-4940IL-(140,220)	12/21/2001	13	mg/kg	
			OU5-CSA-12-4940IL-(140,240)	12/21/2001	2.9	mg/kg	
			OU5-CSA-12-4940IL-(140,260)	12/21/2001	5.8	mg/kg	
			OU5-CSA-12-4940IL-(140,40)	12/21/2001	4.3	mg/kg	
			OU5-CSA-12-4940IL-(140,60)	12/21/2001	2 J	mg/kg	
			OU5-CSA-12-4940IL-(140,80)	12/21/2001	5.4	mg/kg	
			OU5-CSA-12-4940IL-(160,100)	12/21/2001	4.5	mg/kg	
			OU5-CSA-12-4940IL-(160,120)	12/21/2001	3.8	mg/kg	
			OU5-CSA-12-4940IL-(160,140)	12/21/2001	2.8	mg/kg	
			OU5-CSA-12-4940IL-(160,160)	12/21/2001	1.7 J	mg/kg	
			OU5-CSA-12-4940IL-(160,200)	12/21/2001	17	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-4940IL-(160,220)	12/21/2001	4.4	mg/kg	
			OU5-CSA-12-4940IL-(160,240)	12/21/2001	2.4 J	mg/kg	
			OU5-CSA-12-4940IL-(160,260)	12/21/2001	3.8	mg/kg	
			OU5-CSA-12-4940IL-(160,60)	12/21/2001	4.8	mg/kg	
			OU5-CSA-12-4940IL-(160,80)	12/21/2001	4.1	mg/kg	
			OU5-CSA-12-4940IL-(180,100)	12/21/2001	4.2	mg/kg	
			OU5-CSA-12-4940IL-(180,120)	12/21/2001	4.5	mg/kg	
			OU5-CSA-12-4940IL-(180,140)	12/21/2001	3.7	mg/kg	
			OU5-CSA-12-4940IL-(180,160)	12/21/2001	2.4	mg/kg	
			OU5-CSA-12-4940IL-(180,180)	12/21/2001	3.5	mg/kg	
			OU5-CSA-12-4940IL-(180,200)	12/21/2001	4.9	mg/kg	
			OU5-CSA-12-4940IL-(180,220)	12/21/2001	5.4	mg/kg	
			OU5-CSA-12-4940IL-(180,240)	12/21/2001	3.3	mg/kg	
			OU5-CSA-12-4940IL-(180,260)	12/21/2001	3	mg/kg	
			OU5-CSA-12-4940IL-(180,80)	12/21/2001	5	mg/kg	
			OU5-CSA-12-4940IL-(20,160)	12/21/2001	35	mg/kg	
			OU5-CSA-12-4940IL-(20,180)	12/21/2001	4.6	mg/kg	
			OU5-CSA-12-4940IL-(20,200)	12/21/2001	7.5	mg/kg	
			OU5-CSA-12-4940IL-(20,220)	12/21/2001	5.3	mg/kg	
			OU5-CSA-12-4940IL-(200,120)	12/21/2001	2.2	mg/kg	
			OU5-CSA-12-4940IL-(200,140)	12/21/2001	2.7	mg/kg	
			OU5-CSA-12-4940IL-(200,160)	12/21/2001	3.5	mg/kg	
			OU5-CSA-12-4940IL-(200,180)	12/21/2001	3.2	mg/kg	
			OU5-CSA-12-4940IL-(200,200)	12/21/2001	3.9	mg/kg	
			OU5-CSA-12-4940IL-(200,220)	12/21/2001	2.3	mg/kg	
			OU5-CSA-12-4940IL-(200,240)	12/21/2001	2.9	mg/kg	
			OU5-CSA-12-4940IL-(200,260)	12/21/2001	3	mg/kg	
			OU5-CSA-12-4940IL-(220,160)	12/21/2001	2	mg/kg	
			OU5-CSA-12-4940IL-(220,180)	12/21/2001	3.4	mg/kg	
			OU5-CSA-12-4940IL-(220,200)	12/21/2001	2.6	mg/kg	
			OU5-CSA-12-4940IL-(220,220)	12/21/2001	1.9 J	mg/kg	
			OU5-CSA-12-4940IL-(220,240)	12/21/2001	1.3 J	mg/kg	
			OU5-CSA-12-4940IL-(220,260)	12/21/2001	3.1	mg/kg	
			OU5-CSA-12-4940IL-(240,220)	12/21/2001	2.1	mg/kg	
			OU5-CSA-12-4940IL-(240,240)	12/21/2001	2.1 J	mg/kg	
			OU5-CSA-12-4940IL-(240,260)	12/21/2001	2 J	mg/kg	
			OU5-CSA-12-4940IL-(40,100)	12/21/2001	7.5	mg/kg	
			OU5-CSA-12-4940IL-(40,120)	12/21/2001	26.2	mg/kg	
			OU5-CSA-12-4940IL-(40,140)	12/21/2001	24.8	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-4940IL-(40,160)	12/21/2001	18.5	mg/kg	
			OU5-CSA-12-4940IL-(40,180)	12/21/2001	23.6	mg/kg	
			OU5-CSA-12-4940IL-(40,200)	12/21/2001	7.6	mg/kg	
			OU5-CSA-12-4940IL-(40,220)	12/21/2001	4.1	mg/kg	
			OU5-CSA-12-4940IL-(40,240)	12/21/2001	5.1	mg/kg	
			OU5-CSA-12-4940IL-(40,60)	12/21/2001	5.2	mg/kg	
			OU5-CSA-12-4940IL-(40,80)	12/21/2001	7.7	mg/kg	
			OU5-CSA-12-4940IL-(60,100)	12/21/2001	23.2	mg/kg	
			OU5-CSA-12-4940IL-(60,120)	12/21/2001	7	mg/kg	
			OU5-CSA-12-4940IL-(60,140)	12/21/2001	31.8	mg/kg	
			OU5-CSA-12-4940IL-(60,160)	12/21/2001	31.6	mg/kg	
			OU5-CSA-12-4940IL-(60,180)	12/21/2001	31.1	mg/kg	
			OU5-CSA-12-4940IL-(60,20)	12/21/2001	3.5	mg/kg	
			OU5-CSA-12-4940IL-(60,200)	12/21/2001	13.8	mg/kg	
			OU5-CSA-12-4940IL-(60,220)	12/21/2001	14.7	mg/kg	
			OU5-CSA-12-4940IL-(60,240)	12/21/2001	21.7	mg/kg	
			OU5-CSA-12-4940IL-(60,40)	12/21/2001	3.6	mg/kg	
			OU5-CSA-12-4940IL-(60,60)	12/21/2001	3.6	mg/kg	
			OU5-CSA-12-4940IL-(60,80)	12/21/2001	5.3	mg/kg	
			OU5-CSA-12-4940IL-(80,100)	12/21/2001	4.7	mg/kg	
			OU5-CSA-12-4940IL-(80,120)	12/21/2001	6.2	mg/kg	
			OU5-CSA-12-4940IL-(80,140)	12/21/2001	18.8	mg/kg	
			OU5-CSA-12-4940IL-(80,160)	12/21/2001	6.1	mg/kg	
			OU5-CSA-12-4940IL-(80,180)	12/21/2001	46.1	mg/kg	
			OU5-CSA-12-4940IL-(80,20)	12/21/2001	5	mg/kg	
			OU5-CSA-12-4940IL-(80,200)	12/21/2001	6.8	mg/kg	
			OU5-CSA-12-4940IL-(80,220)	12/21/2001	10.9	mg/kg	
			OU5-CSA-12-4940IL-(80,240)	12/21/2001	2.2	mg/kg	
			OU5-CSA-12-4940IL-(80,40)	12/21/2001	7.2	mg/kg	
			OU5-CSA-12-4940IL-(80,60)	12/21/2001	6.4	mg/kg	
			OU5-CSA-12-4940IL-DUP01	12/21/2001	4.7	mg/kg	OU5-CSA-12-4940IL-(120,80)
			OU5-CSA-12-4940IL-DUP02	12/21/2001	4.7	mg/kg	OU5-CSA-12-4940IL-(160,80)
			OU5-CSA-12-4940IL-DUP03	12/21/2001	4	mg/kg	OU5-CSA-12-4940IL-(120,140)
			OU5-CSA-12-4940IL-DUP04	12/21/2001	30.6	mg/kg	OU5-CSA-12-4940IL-(40,140)
			OU5-CSA-12-4940IL-DUP05	12/21/2001	58.4	mg/kg	OU5-CSA-12-4940IL-(80,180)
			OU5-CSA-12-4940IL-SB1	12/17/2001	22.5	mg/kg	
CSA	11	4944 Quebec Street					
			OU5-CSA-11-4944QS-(100,20)	1/28/2002	4.9	mg/kg	
			OU5-CSA-11-4944QS-(100,40)	1/28/2002	7.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4944QS-(100,60)	1/28/2002	3.6	mg/kg	
			OU5-CSA-11-4944QS-(100,80)	1/28/2002	7.7	mg/kg	
			OU5-CSA-11-4944QS-(120,20)	1/28/2002	2.8	mg/kg	
			OU5-CSA-11-4944QS-(120,40)	1/28/2002	6.6	mg/kg	
			OU5-CSA-11-4944QS-(120,60)	1/28/2002	2.4	mg/kg	
			OU5-CSA-11-4944QS-(120,80)	1/28/2002	4.3	mg/kg	
			OU5-CSA-11-4944QS-(140,20)	1/28/2002	5.8	mg/kg	
			OU5-CSA-11-4944QS-(140,40)	1/28/2002	4.2	mg/kg	
			OU5-CSA-11-4944QS-(140,60)	1/28/2002	5.9	mg/kg	
			OU5-CSA-11-4944QS-(140,80)	1/28/2002	6	mg/kg	
			OU5-CSA-11-4944QS-(20,20)	1/28/2002	19.6	mg/kg	
			OU5-CSA-11-4944QS-(20,40)	1/28/2002	13.4	mg/kg	
			OU5-CSA-11-4944QS-(20,60)	1/28/2002	16.2	mg/kg	
			OU5-CSA-11-4944QS-(20,80)	1/28/2002	24.3	mg/kg	
			OU5-CSA-11-4944QS-(40,20)	1/28/2002	16.4	mg/kg	
			OU5-CSA-11-4944QS-(40,40)	1/28/2002	30.9	mg/kg	
			OU5-CSA-11-4944QS-(40,60)	1/28/2002	20.7	mg/kg	
			OU5-CSA-11-4944QS-(40,80)	1/28/2002	11.1	mg/kg	
			OU5-CSA-11-4944QS-(60,20)	1/28/2002	4.2	mg/kg	
			OU5-CSA-11-4944QS-(60,40)	1/28/2002	21.8	mg/kg	
			OU5-CSA-11-4944QS-(60,60)	1/28/2002	9.1	mg/kg	
			OU5-CSA-11-4944QS-(60,80)	1/28/2002	28.5	mg/kg	
			OU5-CSA-11-4944QS-(80,20)	1/28/2002	6.1	mg/kg	
			OU5-CSA-11-4944QS-(80,60)	1/28/2002	6.3	mg/kg	
			OU5-CSA-11-4944QS-(80,80)	1/28/2002	5.6	mg/kg	
			OU5-CSA-11-4944QS-DUP01	1/28/2002	33.8	mg/kg	OU5-CSA-11-4944QS-(40,40)
			OU5-CSA-11-4944QS-SB-DUP69	1/28/2002	2.1	mg/kg	OU5-CSA-11-4944QS-SB4
			OU5-CSA-11-4944QS-SB1	1/28/2002	2.7	mg/kg	
			OU5-CSA-11-4944QS-SB2	1/28/2002	2.5	mg/kg	
			OU5-CSA-11-4944QS-SB3	1/28/2002	2.1	mg/kg	
			OU5-CSA-11-4944QS-SB4	1/28/2002	2.3	mg/kg	
			OU5-CSA-11-4944QS-SB5	1/28/2002	1.8	mg/kg	
			OU5-CSA-11-4944QS-SB6	1/28/2002	1.4	mg/kg	
CSA	11	4950 Quebec Street					
			OU5-CSA-11-4950QS-(100,100)	12/19/2001	5.4	mg/kg	
			OU5-CSA-11-4950QS-(100,20)	12/19/2001	8.8	mg/kg	
			OU5-CSA-11-4950QS-(100,40)	12/19/2001	3.2	mg/kg	
			OU5-CSA-11-4950QS-(100,60)	12/19/2001	3.1	mg/kg	
			OU5-CSA-11-4950QS-(100,80)	12/19/2001	2.8 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4950QS-(120,100)	12/19/2001	3.9	mg/kg	
			OU5-CSA-11-4950QS-(120,20)	12/19/2001	3.8	mg/kg	
			OU5-CSA-11-4950QS-(120,40)	12/19/2001	2.5 J	mg/kg	
			OU5-CSA-11-4950QS-(120,60)	12/19/2001	3	mg/kg	
			OU5-CSA-11-4950QS-(120,80)	12/19/2001	4.9	mg/kg	
			OU5-CSA-11-4950QS-(140,100)	12/19/2001	2.7	mg/kg	
			OU5-CSA-11-4950QS-(140,20)	12/19/2001	3.6	mg/kg	
			OU5-CSA-11-4950QS-(140,40)	12/19/2001	2.5 J	mg/kg	
			OU5-CSA-11-4950QS-(140,60)	12/19/2001	3	mg/kg	
			OU5-CSA-11-4950QS-(140,80)	12/19/2001	2.6 J	mg/kg	
			OU5-CSA-11-4950QS-(160,100)	12/19/2001	2.6 J	mg/kg	
			OU5-CSA-11-4950QS-(160,60)	12/19/2001	3 J	mg/kg	
			OU5-CSA-11-4950QS-(160,80)	12/19/2001	3.1	mg/kg	
			OU5-CSA-11-4950QS-(20,100)	12/19/2001	10	mg/kg	
			OU5-CSA-11-4950QS-(20,20)	12/19/2001	16.1	mg/kg	
			OU5-CSA-11-4950QS-(20,40)	12/19/2001	4.4	mg/kg	
			OU5-CSA-11-4950QS-(20,60)	12/19/2001	9.3	mg/kg	
			OU5-CSA-11-4950QS-(20,80)	12/19/2001	9.2	mg/kg	
			OU5-CSA-11-4950QS-(40,100)	12/19/2001	3	mg/kg	
			OU5-CSA-11-4950QS-(40,20)	12/19/2001	6.6	mg/kg	
			OU5-CSA-11-4950QS-(40,40)	12/19/2001	17.9	mg/kg	
			OU5-CSA-11-4950QS-(40,60)	12/19/2001	21.4	mg/kg	
			OU5-CSA-11-4950QS-(40,80)	12/19/2001	8.6	mg/kg	
			OU5-CSA-11-4950QS-(60,100)	12/19/2001	5.5	mg/kg	
			OU5-CSA-11-4950QS-(60,20)	12/19/2001	3.7	mg/kg	
			OU5-CSA-11-4950QS-(60,40)	12/19/2001	8.5	mg/kg	
			OU5-CSA-11-4950QS-(60,60)	12/19/2001	6.8	mg/kg	
			OU5-CSA-11-4950QS-(60,80)	12/19/2001	6.4	mg/kg	
			OU5-CSA-11-4950QS-(80,100)	12/19/2001	3.7	mg/kg	
			OU5-CSA-11-4950QS-(80,80)	12/19/2001	5.1	mg/kg	
			OU5-CSA-11-4950QS-DUP01	12/19/2001	2.5 J	mg/kg	OU5-CSA-11-4950QS-(100,80)
			OU5-CSA-11-4950QS-DUP02	12/19/2001	12.8	mg/kg	OU5-CSA-11-4950QS-(20,80)
			OU5-CSA-11-4950QS-SB1	12/17/2001	4.2	mg/kg	
CSA	11	4955 Glenbrook Road					
			OU5-CSA-11-4955GR-(100,100)	11/2/2001	5.3 K	mg/kg	
			OU5-CSA-11-4955GR-(100,160)	11/2/2001	30.1 K	mg/kg	
			OU5-CSA-11-4955GR-(100,180)	11/2/2001	7 K	mg/kg	
			OU5-CSA-11-4955GR-(100,20)	11/2/2001	11.9 K	mg/kg	
			OU5-CSA-11-4955GR-(100,40)	11/2/2001	25.4 K	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4955GR-(100,60)	11/2/2001	24.2 K	mg/kg	
			OU5-CSA-11-4955GR-(100,80)	11/2/2001	9.2 K	mg/kg	
			OU5-CSA-11-4955GR-(120,100)	11/2/2001	28 K	mg/kg	
			OU5-CSA-11-4955GR-(120,120)	11/2/2001	16.4 K	mg/kg	
			OU5-CSA-11-4955GR-(120,140)	11/2/2001	28.4 K	mg/kg	
			OU5-CSA-11-4955GR-(120,160)	11/2/2001	7.9 K	mg/kg	
			OU5-CSA-11-4955GR-(120,180)	11/2/2001	5.4 K	mg/kg	
			OU5-CSA-11-4955GR-(120,20)	11/2/2001	7.2 K	mg/kg	
			OU5-CSA-11-4955GR-(120,40)	11/2/2001	9 K	mg/kg	
			OU5-CSA-11-4955GR-(120,60)	11/2/2001	5.5 K	mg/kg	
			OU5-CSA-11-4955GR-(140,100)	11/2/2001	36.4 K	mg/kg	
			OU5-CSA-11-4955GR-(140,120)	11/2/2001	39.9 K	mg/kg	
			OU5-CSA-11-4955GR-(140,140)	11/2/2001	27.3 K	mg/kg	
			OU5-CSA-11-4955GR-(140,180)	11/2/2001	15.5 K	mg/kg	
			OU5-CSA-11-4955GR-(140,40)	11/2/2001	8.3 K	mg/kg	
			OU5-CSA-11-4955GR-(140,60)	11/2/2001	25.1 K	mg/kg	
			OU5-CSA-11-4955GR-(140,80)	11/2/2001	38.3 K	mg/kg	
			OU5-CSA-11-4955GR-(140160)	11/2/2001	25.9 K	mg/kg	
			OU5-CSA-11-4955GR-(160,100)	11/2/2001	20.4 K	mg/kg	
			OU5-CSA-11-4955GR-(160,120)	11/2/2001	35.6 K	mg/kg	
			OU5-CSA-11-4955GR-(160,140)	11/2/2001	3.5 K	mg/kg	
			OU5-CSA-11-4955GR-(160,160)	11/2/2001	3.5 K	mg/kg	
			OU5-CSA-11-4955GR-(160,180)	11/2/2001	3.9 K	mg/kg	
			OU5-CSA-11-4955GR-(160,200)	11/2/2001	11.5 K	mg/kg	
			OU5-CSA-11-4955GR-(160,40)	11/2/2001	5.8 K	mg/kg	
			OU5-CSA-11-4955GR-(160,60)	11/2/2001	19.4 K	mg/kg	
			OU5-CSA-11-4955GR-(160,80)	11/2/2001	16.9 K	mg/kg	
			OU5-CSA-11-4955GR-(180,60)	11/2/2001	4.2 K	mg/kg	
			OU5-CSA-11-4955GR-(180,80)	11/2/2001	5.9 K	mg/kg	
			OU5-CSA-11-4955GR-(20,100)	11/2/2001	4.8 K	mg/kg	
			OU5-CSA-11-4955GR-(20,120)	11/2/2001	29.6 K	mg/kg	
			OU5-CSA-11-4955GR-(20,140)	11/2/2001	3.9 K	mg/kg	
			OU5-CSA-11-4955GR-(20,160)	11/2/2001	3.9 K	mg/kg	
			OU5-CSA-11-4955GR-(40,100)	11/2/2001	8.7 K	mg/kg	
			OU5-CSA-11-4955GR-(40,120)	11/2/2001	31.9 K	mg/kg	
			OU5-CSA-11-4955GR-(40,140)	11/2/2001	4.2 K	mg/kg	
			OU5-CSA-11-4955GR-(40,160)	11/2/2001	3.6 K	mg/kg	
			OU5-CSA-11-4955GR-(40,60)	11/2/2001	9.2 K	mg/kg	
			OU5-CSA-11-4955GR-(40,80)	11/2/2001	11.8 K	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4955GR-(60,0)	11/2/2001	18.1 K	mg/kg	
			OU5-CSA-11-4955GR-(60,100)	11/2/2001	5.5 K	mg/kg	
			OU5-CSA-11-4955GR-(60,120)	11/2/2001	4.1 K	mg/kg	
			OU5-CSA-11-4955GR-(60,140)	11/2/2001	5.9 K	mg/kg	
			OU5-CSA-11-4955GR-(60,160)	11/2/2001	4.2 K	mg/kg	
			OU5-CSA-11-4955GR-(60,20)	11/2/2001	13.6 K	mg/kg	
			OU5-CSA-11-4955GR-(60,40)	11/2/2001	8.8 K	mg/kg	
			OU5-CSA-11-4955GR-(60,60)	11/2/2001	22.1 K	mg/kg	
			OU5-CSA-11-4955GR-(60,80)	11/2/2001	14.3 K	mg/kg	
			OU5-CSA-11-4955GR-(80,100)	11/2/2001	4.3 K	mg/kg	
			OU5-CSA-11-4955GR-(80,120)	11/2/2001	24.8 K	mg/kg	
			OU5-CSA-11-4955GR-(80,140)	11/2/2001	12.1 K	mg/kg	
			OU5-CSA-11-4955GR-(80,160)	11/2/2001	27.4 K	mg/kg	
			OU5-CSA-11-4955GR-(80,180)	11/2/2001	5.1 K	mg/kg	
			OU5-CSA-11-4955GR-(80,20)	11/2/2001	12.1 K	mg/kg	
			OU5-CSA-11-4955GR-(80,40)	11/2/2001	18.9 K	mg/kg	
			OU5-CSA-11-4955GR-(80,60)	11/2/2001	6.4 K	mg/kg	
			OU5-CSA-11-4955GR-(80,80)	11/2/2001	20.2 K	mg/kg	
			OU5-CSA-11-4955GR-DUP01	11/2/2001	22.4 K	mg/kg	OU5-CSA-11-4955GR-(80,120)
			OU5-CSA-11-4955GR-DUP02	11/2/2001	16.6 K	mg/kg	OU5-CSA-11-4955GR-(60,80)
			OU5-CSA-11-4955GR-DUP03	11/2/2001	27.7 K	mg/kg	OU5-CSA-11-4955GR-(140,60)
			OU5-CSA-11-4955GR-SB1	11/13/2001	3.7	mg/kg	
CSA	11	4959 Hillbrook Lane					
			OU5-CSA-11-4959HL-(0,100)	12/4/2001	7.4	mg/kg	
			OU5-CSA-11-4959HL-(0,20)	12/4/2001	4.7	mg/kg	
			OU5-CSA-11-4959HL-(0,40)	12/4/2001	7.6	mg/kg	
			OU5-CSA-11-4959HL-(0,60)	12/4/2001	12.2	mg/kg	
			OU5-CSA-11-4959HL-(0,80)	12/4/2001	8.4	mg/kg	
			OU5-CSA-11-4959HL-(100,100)	12/4/2001	7.8	mg/kg	
			OU5-CSA-11-4959HL-(100,40)	12/4/2001	2.9 J	mg/kg	
			OU5-CSA-11-4959HL-(100,80)	12/4/2001	5.6	mg/kg	
			OU5-CSA-11-4959HL-(120,100)	12/4/2001	5.7	mg/kg	
			OU5-CSA-11-4959HL-(120,20)	12/4/2001	4.3	mg/kg	
			OU5-CSA-11-4959HL-(140,100)	12/4/2001	27.6	mg/kg	
			OU5-CSA-11-4959HL-(140,20)	12/4/2001	12.8	mg/kg	
			OU5-CSA-11-4959HL-(140,40)	12/4/2001	13.9	mg/kg	
			OU5-CSA-11-4959HL-(140,60)	12/4/2001	8.5	mg/kg	
			OU5-CSA-11-4959HL-(140,80)	12/4/2001	7.5	mg/kg	
			OU5-CSA-11-4959HL-(160,100)	12/4/2001	4.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4959HL-(160,20)	12/4/2001	4.4	mg/kg	
			OU5-CSA-11-4959HL-(160,40)	12/4/2001	3.4 J	mg/kg	
			OU5-CSA-11-4959HL-(160,60)	12/4/2001	5.6	mg/kg	
			OU5-CSA-11-4959HL-(160,80)	12/4/2001	7.3	mg/kg	
			OU5-CSA-11-4959HL-(20,100)	12/4/2001	3 J	mg/kg	
			OU5-CSA-11-4959HL-(20,20)	12/4/2001	5	mg/kg	
			OU5-CSA-11-4959HL-(20,40)	12/4/2001	0.85 U	mg/kg	
			OU5-CSA-11-4959HL-(20,60)	12/4/2001	9.4	mg/kg	
			OU5-CSA-11-4959HL-(20,80)	12/4/2001	4	mg/kg	
			OU5-CSA-11-4959HL-(40,100)	12/4/2001	11.7	mg/kg	
			OU5-CSA-11-4959HL-(40,20)	12/4/2001	18	mg/kg	
			OU5-CSA-11-4959HL-(40,40)	12/4/2001	15.3	mg/kg	
			OU5-CSA-11-4959HL-(40,60)	12/4/2001	15.4	mg/kg	
			OU5-CSA-11-4959HL-(40,80)	12/4/2001	15.8	mg/kg	
			OU5-CSA-11-4959HL-(60,100)	12/4/2001	17.1	mg/kg	
			OU5-CSA-11-4959HL-(60,20)	12/4/2001	6.4	mg/kg	
			OU5-CSA-11-4959HL-(60,40)	12/4/2001	4.8	mg/kg	
			OU5-CSA-11-4959HL-(60,60)	12/4/2001	3.6 J	mg/kg	
			OU5-CSA-11-4959HL-(60,80)	12/4/2001	2.4 J	mg/kg	
			OU5-CSA-11-4959HL-(80,100)	12/4/2001	7.9	mg/kg	
			OU5-CSA-11-4959HL-(80,20)	12/4/2001	16.9	mg/kg	
			OU5-CSA-11-4959HL-(80,40)	12/4/2001	14.1	mg/kg	
			OU5-CSA-11-4959HL-(80,80)	12/4/2001	2.8 J	mg/kg	
			OU5-CSA-11-4959HL-DUP01	12/4/2001	18.9	mg/kg	OU5-CSA-11-4959HL-(40,40)
			OU5-CSA-11-4959HL-DUP02	12/4/2001	8.7	mg/kg	OU5-CSA-11-4959HL-(80,40)
			OU5-CSA-11-4959HL-SB1	12/3/2001	3.3	mg/kg	
CSA	11	4962 Quebec Street					
			OU5-CSA-11-4962QS-(100,100)	12/13/2001	11.4 J	mg/kg	
			OU5-CSA-11-4962QS-(100,20)	12/13/2001	6.2 J	mg/kg	
			OU5-CSA-11-4962QS-(100,40)	12/13/2001	8.1 J	mg/kg	
			OU5-CSA-11-4962QS-(100,60)	12/13/2001	29.2 J	mg/kg	
			OU5-CSA-11-4962QS-(100,80)	12/13/2001	9.3 J	mg/kg	
			OU5-CSA-11-4962QS-(120,100)	12/13/2001	8.1 J	mg/kg	
			OU5-CSA-11-4962QS-(120,20)	12/13/2001	13.8 J	mg/kg	
			OU5-CSA-11-4962QS-(120,40)	12/13/2001	8.6 J	mg/kg	
			OU5-CSA-11-4962QS-(120,60)	12/13/2001	9.4 J	mg/kg	
			OU5-CSA-11-4962QS-(120,80)	12/13/2001	8.7 J	mg/kg	
			OU5-CSA-11-4962QS-(140,100)	12/13/2001	10.1 J	mg/kg	
			OU5-CSA-11-4962QS-(140,20)	12/13/2001	12.6 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-4962QS-(140,40)	12/13/2001	9.1 J	mg/kg	
			OU5-CSA-11-4962QS-(140,60)	12/13/2001	7.2 J	mg/kg	
			OU5-CSA-11-4962QS-(140,80)	12/13/2001	11.5 J	mg/kg	
			OU5-CSA-11-4962QS-(20,20)	12/13/2001	6.1 J	mg/kg	
			OU5-CSA-11-4962QS-(20,40)	12/13/2001	16.3 J	mg/kg	
			OU5-CSA-11-4962QS-(20,60)	12/13/2001	20.6 J	mg/kg	
			OU5-CSA-11-4962QS-(20,80)	12/13/2001	14.5 J	mg/kg	
			OU5-CSA-11-4962QS-(40,20)	12/13/2001	13 J	mg/kg	
			OU5-CSA-11-4962QS-(40,40)	12/13/2001	13.9 J	mg/kg	
			OU5-CSA-11-4962QS-(40,60)	12/13/2001	11 J	mg/kg	
			OU5-CSA-11-4962QS-(40,80)	12/13/2001	10.8 J	mg/kg	
			OU5-CSA-11-4962QS-(60,20)	12/13/2001	9.1 J	mg/kg	
			OU5-CSA-11-4962QS-(60,40)	12/13/2001	4.4 J	mg/kg	
			OU5-CSA-11-4962QS-(60,60)	12/13/2001	7.8 J	mg/kg	
			OU5-CSA-11-4962QS-(60,80)	12/13/2001	18.1 J	mg/kg	
			OU5-CSA-11-4962QS-(80,20)	12/13/2001	7 J	mg/kg	
			OU5-CSA-11-4962QS-(80,80)	12/13/2001	10.9 J	mg/kg	
			OU5-CSA-11-4962QS-DUP01	12/13/2001	20.9 J	mg/kg	OU5-CSA-11-4962QS-(20,60)
			OU5-CSA-11-4962QS-DUP02	12/13/2001	11.5 J	mg/kg	OU5-CSA-11-4962QS-(100,80)
			OU5-CSA-11-4962QS-SB1	12/10/2001	2.2	mg/kg	
CSA	12	5001 Loughboro Road					
			OU5-CSA-12-5001LR-(100,100)	12/27/2001	3.2	mg/kg	
			OU5-CSA-12-5001LR-(100,120)	12/27/2001	14.7	mg/kg	
			OU5-CSA-12-5001LR-(100,140)	12/27/2001	6.5	mg/kg	
			OU5-CSA-12-5001LR-(100,160)	12/27/2001	7.2	mg/kg	
			OU5-CSA-12-5001LR-(100,20)	12/27/2001	4.9	mg/kg	
			OU5-CSA-12-5001LR-(100,40)	12/27/2001	3.6	mg/kg	
			OU5-CSA-12-5001LR-(100,60)	12/27/2001	2.8	mg/kg	
			OU5-CSA-12-5001LR-(100,80)	12/27/2001	4.2	mg/kg	
			OU5-CSA-12-5001LR-(120,100)	12/27/2001	4	mg/kg	
			OU5-CSA-12-5001LR-(120,20)	12/27/2001	3.2	mg/kg	
			OU5-CSA-12-5001LR-(120,40)	12/27/2001	4	mg/kg	
			OU5-CSA-12-5001LR-(120,60)	12/27/2001	3.9	mg/kg	
			OU5-CSA-12-5001LR-(120,80)	12/27/2001	2.2	mg/kg	
			OU5-CSA-12-5001LR-(140,40)	12/27/2001	3.2 J	mg/kg	
			OU5-CSA-12-5001LR-(140,60)	12/27/2001	2.7	mg/kg	
			OU5-CSA-12-5001LR-(20,100)	12/27/2001	58.1	mg/kg	
			OU5-CSA-12-5001LR-(20,120)	12/27/2001	10.2	mg/kg	
			OU5-CSA-12-5001LR-(20,140)	12/27/2001	10.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-5001LR-(20,20)	12/27/2001	4.4	mg/kg	
			OU5-CSA-12-5001LR-(20,40)	12/27/2001	7.5	mg/kg	
			OU5-CSA-12-5001LR-(20,60)	12/27/2001	3.4	mg/kg	
			OU5-CSA-12-5001LR-(20,80)	12/27/2001	5.4	mg/kg	
			OU5-CSA-12-5001LR-(40,100)	12/27/2001	7.6	mg/kg	
			OU5-CSA-12-5001LR-(40,120)	12/27/2001	52.2	mg/kg	
			OU5-CSA-12-5001LR-(40,140)	12/27/2001	21.9	mg/kg	
			OU5-CSA-12-5001LR-(40,160)	12/27/2001	14.1	mg/kg	
			OU5-CSA-12-5001LR-(40,20)	12/27/2001	3.7	mg/kg	
			OU5-CSA-12-5001LR-(40,40)	12/27/2001	2.9	mg/kg	
			OU5-CSA-12-5001LR-(40,60)	12/27/2001	3.3	mg/kg	
			OU5-CSA-12-5001LR-(40,80)	12/27/2001	26	mg/kg	
			OU5-CSA-12-5001LR-(60,100)	12/27/2001	1.4 J	mg/kg	
			OU5-CSA-12-5001LR-(60,120)	12/27/2001	5.3	mg/kg	
			OU5-CSA-12-5001LR-(60,140)	12/27/2001	18.1	mg/kg	
			OU5-CSA-12-5001LR-(60,160)	12/27/2001	4.9	mg/kg	
			OU5-CSA-12-5001LR-(60,20)	12/27/2001	4.5	mg/kg	
			OU5-CSA-12-5001LR-(60,40)	12/27/2001	3.8	mg/kg	
			OU5-CSA-12-5001LR-(60,60)	12/27/2001	3.7	mg/kg	
			OU5-CSA-12-5001LR-(80,100)	12/27/2001	3.8	mg/kg	
			OU5-CSA-12-5001LR-(80,120)	12/27/2001	20.3	mg/kg	
			OU5-CSA-12-5001LR-(80,140)	1/2/2002	26.1	mg/kg	
			OU5-CSA-12-5001LR-(80,160)	12/27/2001	4.3	mg/kg	
			OU5-CSA-12-5001LR-(80,20)	12/27/2001	3.4	mg/kg	
			OU5-CSA-12-5001LR-(80,40)	12/27/2001	5.5	mg/kg	
			OU5-CSA-12-5001LR-(80,60)	12/27/2001	4.6	mg/kg	
			OU5-CSA-12-5001LR-(80,80)	12/27/2001	4.9	mg/kg	
			OU5-CSA-12-5001LR-DUP01	12/27/2001	5.4	mg/kg	OU5-CSA-12-5001LR-(120,100)
			OU5-CSA-12-5001LR-DUP02	12/27/2001	3.8	mg/kg	OU5-CSA-12-5001LR-(120,40)
			OU5-CSA-12-5001LR-SB1	1/7/2002	2.8	mg/kg	
CSA	11	5001 Rockwood Parkway					
			OU5-CSA-11-5001RP-(100,100)	12/7/2001	3.7	mg/kg	
			OU5-CSA-11-5001RP-(100,140)	12/7/2001	4.2	mg/kg	
			OU5-CSA-11-5001RP-(100,160)	12/7/2001	3.2	mg/kg	
			OU5-CSA-11-5001RP-(100,180)	12/7/2001	23.7	mg/kg	
			OU5-CSA-11-5001RP-(100,20)	12/7/2001	10.8	mg/kg	
			OU5-CSA-11-5001RP-(100,200)	12/7/2001	6.7	mg/kg	
			OU5-CSA-11-5001RP-(100,220)	12/7/2001	1.3 J	mg/kg	
			OU5-CSA-11-5001RP-(100,40)	12/7/2001	142	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-5001RP-(100,60)	12/7/2001	142	mg/kg	
			OU5-CSA-11-5001RP-(100,80)	12/7/2001	18.3	mg/kg	
			OU5-CSA-11-5001RP-(120,100)	12/7/2001	21.1	mg/kg	
			OU5-CSA-11-5001RP-(120,160)	12/7/2001	3.1	mg/kg	
			OU5-CSA-11-5001RP-(120,180)	12/7/2001	19	mg/kg	
			OU5-CSA-11-5001RP-(120,20)	12/7/2001	5.8	mg/kg	
			OU5-CSA-11-5001RP-(120,200)	12/7/2001	6	mg/kg	
			OU5-CSA-11-5001RP-(120,220)	12/7/2001	36.4	mg/kg	
			OU5-CSA-11-5001RP-(120,240)	12/7/2001	6.5	mg/kg	
			OU5-CSA-11-5001RP-(120,40)	12/7/2001	3.1 J	mg/kg	
			OU5-CSA-11-5001RP-(120,60)	12/7/2001	26.6	mg/kg	
			OU5-CSA-11-5001RP-(120,80)	12/7/2001	73	mg/kg	
			OU5-CSA-11-5001RP-(140,100)	12/7/2001	52.6	mg/kg	
			OU5-CSA-11-5001RP-(140,120)	12/7/2001	18.7	mg/kg	
			OU5-CSA-11-5001RP-(140,160)	12/7/2001	4.2	mg/kg	
			OU5-CSA-11-5001RP-(140,180)	12/7/2001	22.3	mg/kg	
			OU5-CSA-11-5001RP-(140,200)	12/7/2001	111	mg/kg	
			OU5-CSA-11-5001RP-(140,220)	12/7/2001	5.8	mg/kg	
			OU5-CSA-11-5001RP-(140,40)	12/7/2001	3.5	mg/kg	
			OU5-CSA-11-5001RP-(140,60)	12/7/2001	1.8 J	mg/kg	
			OU5-CSA-11-5001RP-(140,80)	12/7/2001	73.7	mg/kg	
			OU5-CSA-11-5001RP-(160,100)	12/7/2001	23.1	mg/kg	
			OU5-CSA-11-5001RP-(160,120)	12/7/2001	14.5	mg/kg	
			OU5-CSA-11-5001RP-(160,140)	12/7/2001	6	mg/kg	
			OU5-CSA-11-5001RP-(160,160)	12/7/2001	19.6	mg/kg	
			OU5-CSA-11-5001RP-(160,180)	12/7/2001	55.3	mg/kg	
			OU5-CSA-11-5001RP-(160,200)	12/7/2001	4.4	mg/kg	
			OU5-CSA-11-5001RP-(160,40)	12/7/2001	2.1 J	mg/kg	
			OU5-CSA-11-5001RP-(160,60)	12/7/2001	1.7 J	mg/kg	
			OU5-CSA-11-5001RP-(160,80)	12/7/2001	2.1 J	mg/kg	
			OU5-CSA-11-5001RP-(180,100)	12/7/2001	1.1 J	mg/kg	
			OU5-CSA-11-5001RP-(180,120)	12/7/2001	23.1	mg/kg	
			OU5-CSA-11-5001RP-(180,140)	12/7/2001	74.9	mg/kg	
			OU5-CSA-11-5001RP-(180,160)	12/7/2001	60.8	mg/kg	
			OU5-CSA-11-5001RP-(180,180)	12/7/2001	4.4	mg/kg	
			OU5-CSA-11-5001RP-(180,60)	12/7/2001	1.9 J	mg/kg	
			OU5-CSA-11-5001RP-(180,80)	12/7/2001	2.2 J	mg/kg	
			OU5-CSA-11-5001RP-(20,140)	12/7/2001	1.1 J	mg/kg	
			OU5-CSA-11-5001RP-(20,160)	12/7/2001	1.8 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-11-5001RP-(200,100)	12/7/2001	2.3 J	mg/kg	
			OU5-CSA-11-5001RP-(200,120)	12/7/2001	7.5	mg/kg	
			OU5-CSA-11-5001RP-(200,140)	12/7/2001	8	mg/kg	
			OU5-CSA-11-5001RP-(200,160)	12/7/2001	5.2	mg/kg	
			OU5-CSA-11-5001RP-(200,60)	12/7/2001	2 J	mg/kg	
			OU5-CSA-11-5001RP-(200,80)	12/7/2001	2.6 J	mg/kg	
			OU5-CSA-11-5001RP-(220,100)	12/7/2001	2.7 J	mg/kg	
			OU5-CSA-11-5001RP-(220,120)	12/7/2001	2.7	mg/kg	
			OU5-CSA-11-5001RP-(220,140)	12/7/2001	3.2 J	mg/kg	
			OU5-CSA-11-5001RP-(220,80)	12/7/2001	1.9 J	mg/kg	
			OU5-CSA-11-5001RP-(240,100)	12/7/2001	1.9 J	mg/kg	
			OU5-CSA-11-5001RP-(240,120)	12/7/2001	2.8	mg/kg	
			OU5-CSA-11-5001RP-(240,140)	12/7/2001	2.8	mg/kg	
			OU5-CSA-11-5001RP-(260,100)	12/7/2001	1.4 J	mg/kg	
			OU5-CSA-11-5001RP-(260,120)	12/7/2001	1.7 J	mg/kg	
			OU5-CSA-11-5001RP-(280,120)	12/7/2001	1.7 J	mg/kg	
			OU5-CSA-11-5001RP-(40,120)	12/7/2001	30	mg/kg	
			OU5-CSA-11-5001RP-(40,140)	12/7/2001	8	mg/kg	
			OU5-CSA-11-5001RP-(40,160)	12/7/2001	1.3 J	mg/kg	
			OU5-CSA-11-5001RP-(40,180)	12/7/2001	4.1	mg/kg	
			OU5-CSA-11-5001RP-(60,100)	12/7/2001	8.4	mg/kg	
			OU5-CSA-11-5001RP-(60,120)	12/7/2001	5.8	mg/kg	
			OU5-CSA-11-5001RP-(60,140)	12/7/2001	9.7	mg/kg	
			OU5-CSA-11-5001RP-(60,160)	12/7/2001	1.5 J	mg/kg	
			OU5-CSA-11-5001RP-(60,180)	12/7/2001	3	mg/kg	
			OU5-CSA-11-5001RP-(60,200)	12/7/2001	1.6 J	mg/kg	
			OU5-CSA-11-5001RP-(60,80)	12/7/2001	16.5	mg/kg	
			OU5-CSA-11-5001RP-(80,160)	12/7/2001	14.2	mg/kg	
			OU5-CSA-11-5001RP-(80,180)	12/7/2001	3.8	mg/kg	
			OU5-CSA-11-5001RP-(80,200)	12/7/2001	1.5 J	mg/kg	
			OU5-CSA-11-5001RP-(80,60)	12/7/2001	46.5	mg/kg	
			OU5-CSA-11-5001RP-(80,80)	12/7/2001	19.4	mg/kg	
			OU5-CSA-11-5001RP-DUP01	12/7/2001	23.9	mg/kg	OU5-CSA-11-5001RP-(80,60)
			OU5-CSA-11-5001RP-DUP02	12/7/2001	0.88 J	mg/kg	OU5-CSA-11-5001RP-(60,200)
			OU5-CSA-11-5001RP-DUP03	12/7/2001	17.9	mg/kg	OU5-CSA-11-5001RP-(140,180)
			OU5-CSA-11-5001RP-DUP04	12/7/2001	489	mg/kg	OU5-CSA-11-5001RP-(60,80)
CTA	1A	5001 Van Ness Street					
			OU5-CTA-1A-5001VNS-(100,120)	10/16/2001	44.6	mg/kg	
			OU5-CTA-1A-5001VNS-(100,140)	10/16/2001	4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1A-5001VNS-(100,160)	10/16/2001	6.2	mg/kg	
			OU5-CTA-1A-5001VNS-(100,180)	10/16/2001	12.7	mg/kg	
			OU5-CTA-1A-5001VNS-(100,40)	10/16/2001	3.1	mg/kg	
			OU5-CTA-1A-5001VNS-(100,60)	10/16/2001	3.3	mg/kg	
			OU5-CTA-1A-5001VNS-(100,80)	10/16/2001	3.4	mg/kg	
			OU5-CTA-1A-5001VNS-(120,100)	10/16/2001	4.3	mg/kg	
			OU5-CTA-1A-5001VNS-(120,120)	10/16/2001	5.8	mg/kg	
			OU5-CTA-1A-5001VNS-(120,140)	10/16/2001	19.6	mg/kg	
			OU5-CTA-1A-5001VNS-(120,160)	10/16/2001	5.3	mg/kg	
			OU5-CTA-1A-5001VNS-(120,180)	10/16/2001	5.5	mg/kg	
			OU5-CTA-1A-5001VNS-(120,60)	10/16/2001	2.5	mg/kg	
			OU5-CTA-1A-5001VNS-(120,80)	10/16/2001	5.1	mg/kg	
			OU5-CTA-1A-5001VNS-(140,100)	10/16/2001	5.5	mg/kg	
			OU5-CTA-1A-5001VNS-(140,120)	10/16/2001	7	mg/kg	
			OU5-CTA-1A-5001VNS-(140,140)	10/16/2001	4.1	mg/kg	
			OU5-CTA-1A-5001VNS-(140,160)	10/16/2001	8.2	mg/kg	
			OU5-CTA-1A-5001VNS-(140,80)	10/16/2001	3.1	mg/kg	
			OU5-CTA-1A-5001VNS-(160,100)	10/16/2001	2.8	mg/kg	
			OU5-CTA-1A-5001VNS-(160,120)	10/16/2001	3	mg/kg	
			OU5-CTA-1A-5001VNS-(160,140)	10/16/2001	9.3	mg/kg	
			OU5-CTA-1A-5001VNS-(180,120)	10/16/2001	3.3	mg/kg	
			OU5-CTA-1A-5001VNS-(20,100)	10/16/2001	5	mg/kg	
			OU5-CTA-1A-5001VNS-(20,120)	10/16/2001	11.4	mg/kg	
			OU5-CTA-1A-5001VNS-(40,100)	10/16/2001	81.9	mg/kg	
			OU5-CTA-1A-5001VNS-(40,120)	10/16/2001	11.2	mg/kg	
			OU5-CTA-1A-5001VNS-(40,140)	10/16/2001	5.4	mg/kg	
			OU5-CTA-1A-5001VNS-(40,40)	10/16/2001	4.4	mg/kg	
			OU5-CTA-1A-5001VNS-(40,60)	10/16/2001	4.1	mg/kg	
			OU5-CTA-1A-5001VNS-(40,80)	10/16/2001	3.6	mg/kg	
			OU5-CTA-1A-5001VNS-(60,100)	10/16/2001	6.2	mg/kg	
			OU5-CTA-1A-5001VNS-(60,120)	10/16/2001	5	mg/kg	
			OU5-CTA-1A-5001VNS-(60,140)	10/16/2001	4.3	mg/kg	
			OU5-CTA-1A-5001VNS-(60,20)	10/16/2001	2.8	mg/kg	
			OU5-CTA-1A-5001VNS-(60,40)	10/16/2001	4.2	mg/kg	
			OU5-CTA-1A-5001VNS-(60,60)	10/16/2001	3.7	mg/kg	
			OU5-CTA-1A-5001VNS-(60,80)	10/16/2001	4	mg/kg	
			OU5-CTA-1A-5001VNS-(80,140)	10/16/2001	2.8	mg/kg	
			OU5-CTA-1A-5001VNS-(80,160)	10/16/2001	6.1	mg/kg	
			OU5-CTA-1A-5001VNS-(80,20)	10/16/2001	3.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1A-5001VNS-(80,40)	10/16/2001	3.9	mg/kg	
			OU5-CTA-1A-5001VNS-(80,60)	10/16/2001	3.3	mg/kg	
			OU5-CTA-1A-5001VNS-(80,80)	10/16/2001	3.5	mg/kg	
			OU5-CTA-1A-5001VNS-DUP01	10/16/2001	11	mg/kg	OU5-CTA-1A-5001VNS-(40,120)
			OU5-CTA-1A-5001VNS-DUP02	10/16/2001	3.6	mg/kg	OU5-CTA-1A-5001VNS-(80,40)
CTA	1C	5011 Sedgwick Street					
			OU5-CTA-1C-5011SegS-(100,120)	9/12/2001	4	mg/kg	
			OU5-CTA-1C-5011SegS-(100,140)	9/12/2001	5	mg/kg	
			OU5-CTA-1C-5011SegS-(100,160)	9/12/2001	4	mg/kg	
			OU5-CTA-1C-5011SegS-(100,20)	9/12/2001	4.5	mg/kg	
			OU5-CTA-1C-5011SegS-(100,40)	9/12/2001	3.9	mg/kg	
			OU5-CTA-1C-5011SegS-(100,60)	9/12/2001	5.1	mg/kg	
			OU5-CTA-1C-5011SegS-(120,100)	9/12/2001	4.4	mg/kg	
			OU5-CTA-1C-5011SegS-(120,120)	9/12/2001	7.6	mg/kg	
			OU5-CTA-1C-5011SegS-(120,140)	9/12/2001	4	mg/kg	
			OU5-CTA-1C-5011SegS-(120,160)	9/12/2001	3.1	mg/kg	
			OU5-CTA-1C-5011SegS-(120,20)	9/12/2001	4.6	mg/kg	
			OU5-CTA-1C-5011SegS-(120,40)	9/12/2001	3.1	mg/kg	
			OU5-CTA-1C-5011SegS-(120,60)	9/12/2001	3	mg/kg	
			OU5-CTA-1C-5011SegS-(120,80)	9/12/2001	5.5	mg/kg	
			OU5-CTA-1C-5011SegS-(140,100)	9/12/2001	2.3	mg/kg	
			OU5-CTA-1C-5011SegS-(140,120)	9/12/2001	3.6	mg/kg	
			OU5-CTA-1C-5011SegS-(140,140)	9/12/2001	3.1	mg/kg	
			OU5-CTA-1C-5011SegS-(140,160)	9/12/2001	6.2	mg/kg	
			OU5-CTA-1C-5011SegS-(140,20)	9/12/2001	6.2	mg/kg	
			OU5-CTA-1C-5011SegS-(140,40)	9/12/2001	17.3	mg/kg	
			OU5-CTA-1C-5011SegS-(140,60)	9/12/2001	2.6 J	mg/kg	
			OU5-CTA-1C-5011SegS-(140,80)	9/12/2001	2.4	mg/kg	
			OU5-CTA-1C-5011SegS-(160,100)	9/12/2001	4.4	mg/kg	
			OU5-CTA-1C-5011SegS-(160,120)	9/12/2001	1.7 J	mg/kg	
			OU5-CTA-1C-5011SegS-(160,140)	9/12/2001	3.6	mg/kg	
			OU5-CTA-1C-5011SegS-(160,160)	9/12/2001	4.6	mg/kg	
			OU5-CTA-1C-5011SegS-(160,60)	9/12/2001	4.7	mg/kg	
			OU5-CTA-1C-5011SegS-(160,80)	9/12/2001	1.8 J	mg/kg	
			OU5-CTA-1C-5011SegS-(20,100)	9/12/2001	3.6	mg/kg	
			OU5-CTA-1C-5011SegS-(20,120)	9/12/2001	3.1	mg/kg	
			OU5-CTA-1C-5011SegS-(20,140)	9/12/2001	3.3	mg/kg	
			OU5-CTA-1C-5011SegS-(20,40)	9/12/2001	3.8	mg/kg	
			OU5-CTA-1C-5011SegS-(20,60)	9/12/2001	3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5011SegS-(20,80)	9/12/2001	3 J	mg/kg	
			OU5-CTA-1C-5011SegS-(40,100)	9/12/2001	6.3	mg/kg	
			OU5-CTA-1C-5011SegS-(40,120)	9/12/2001	5.3	mg/kg	
			OU5-CTA-1C-5011SegS-(40,140)	9/12/2001	7.3	mg/kg	
			OU5-CTA-1C-5011SegS-(40,40)	9/12/2001	6.1	mg/kg	
			OU5-CTA-1C-5011SegS-(40,60)	9/12/2001	4.5	mg/kg	
			OU5-CTA-1C-5011SegS-(40,80)	9/12/2001	4.2	mg/kg	
			OU5-CTA-1C-5011SegS-(60,100)	9/12/2001	10.2	mg/kg	
			OU5-CTA-1C-5011SegS-(60,120)	9/12/2001	13.7	mg/kg	
			OU5-CTA-1C-5011SegS-(60,140)	9/12/2001	3.2 J	mg/kg	
			OU5-CTA-1C-5011SegS-(60,40)	9/12/2001	4.4	mg/kg	
			OU5-CTA-1C-5011SegS-(60,60)	9/12/2001	5.9	mg/kg	
			OU5-CTA-1C-5011SegS-(60,80)	9/12/2001	7.1	mg/kg	
			OU5-CTA-1C-5011SegS-(80,100)	9/12/2001	99.6	mg/kg	
			OU5-CTA-1C-5011SegS-(80,120	9/12/2001	13.8	mg/kg	
			OU5-CTA-1C-5011SegS-(80,140)	9/12/2001	5.6	mg/kg	
			OU5-CTA-1C-5011SegS-(80,20)	9/12/2001	5	mg/kg	
			OU5-CTA-1C-5011SegS-(80,40)	9/12/2001	5.2	mg/kg	
			OU5-CTA-1C-5011SegS-(80,60)	9/12/2001	11.5	mg/kg	
			OU5-CTA-1C-5011SegS-DUP01	9/12/2001	2.5	mg/kg	OU5-CTA-1C-5011SegS-(140,140)
			OU5-CTA-1C-5011SegS-DUP02	9/12/2001	5.4	mg/kg	OU5-CTA-1C-5011SegS-(80,140)
			OU5-CTA-1C-5011SegS-DUP03	9/12/2001	5.9	mg/kg	OU5-CTA-1C-5011SegS-(40,100)
CSA	12	5017 Loughboro Road					
			OU5-CSA-12-5017LR-(100,100)	12/19/2001	20.1 J	mg/kg	
			OU5-CSA-12-5017LR-(100,120)	12/19/2001	3.8 J	mg/kg	
			OU5-CSA-12-5017LR-(100,180)	12/19/2001	7 J	mg/kg	
			OU5-CSA-12-5017LR-(100,20)	12/19/2001	2.6 J	mg/kg	
			OU5-CSA-12-5017LR-(100,200)	12/19/2001	2.9 J	mg/kg	
			OU5-CSA-12-5017LR-(100,220)	12/19/2001	2.9 J	mg/kg	
			OU5-CSA-12-5017LR-(100,240)	12/19/2001	2.1 J	mg/kg	
			OU5-CSA-12-5017LR-(100,260)	12/19/2001	3.4 J	mg/kg	
			OU5-CSA-12-5017LR-(100,40)	12/19/2001	2.9 J	mg/kg	
			OU5-CSA-12-5017LR-(100,60)	12/19/2001	3.2 J	mg/kg	
			OU5-CSA-12-5017LR-(100,80)	12/19/2001	3 J	mg/kg	
			OU5-CSA-12-5017LR-(120,100)	12/19/2001	3.5 J	mg/kg	
			OU5-CSA-12-5017LR-(120,120)	12/19/2001	2.1 J	mg/kg	
			OU5-CSA-12-5017LR-(120,160)	12/19/2001	3.3 J	mg/kg	
			OU5-CSA-12-5017LR-(120,180)	12/19/2001	4.6 J	mg/kg	
			OU5-CSA-12-5017LR-(120,20)	12/19/2001	3.4 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-5017LR-(120,200)	12/19/2001	4.3 J	mg/kg	
			OU5-CSA-12-5017LR-(120,220)	12/19/2001	2.8 J	mg/kg	
			OU5-CSA-12-5017LR-(120,240)	12/19/2001	2.6 J	mg/kg	
			OU5-CSA-12-5017LR-(120,260)	12/19/2001	2.7 J	mg/kg	
			OU5-CSA-12-5017LR-(120,280)	12/19/2001	2.4 J	mg/kg	
			OU5-CSA-12-5017LR-(120,40)	12/19/2001	8.5 J	mg/kg	
			OU5-CSA-12-5017LR-(120,60)	12/19/2001	16.5 J	mg/kg	
			OU5-CSA-12-5017LR-(120,80)	12/19/2001	19.8 J	mg/kg	
			OU5-CSA-12-5017LR-(140,100)	12/19/2001	56.6 J	mg/kg	
			OU5-CSA-12-5017LR-(140,120)	12/19/2001	5.4 J	mg/kg	
			OU5-CSA-12-5017LR-(140,180)	12/19/2001	4.6 J	mg/kg	
			OU5-CSA-12-5017LR-(140,20)	12/19/2001	5.6 J	mg/kg	
			OU5-CSA-12-5017LR-(140,200)	12/19/2001	2.4 J	mg/kg	
			OU5-CSA-12-5017LR-(140,220)	12/19/2001	2.2 J	mg/kg	
			OU5-CSA-12-5017LR-(140,240)	12/19/2001	2.2 J	mg/kg	
			OU5-CSA-12-5017LR-(140,260)	12/19/2001	2.6 J	mg/kg	
			OU5-CSA-12-5017LR-(140,280)	12/19/2001	1.7 J	mg/kg	
			OU5-CSA-12-5017LR-(140,40)	12/19/2001	4.5 J	mg/kg	
			OU5-CSA-12-5017LR-(140,60)	12/19/2001	24.1 J	mg/kg	
			OU5-CSA-12-5017LR-(140,80)	12/19/2001	25.6 J	mg/kg	
			OU5-CSA-12-5017LR-(160,100)	12/19/2001	31.8 J	mg/kg	
			OU5-CSA-12-5017LR-(160,140)	12/19/2001	6.2 J	mg/kg	
			OU5-CSA-12-5017LR-(160,200)	12/19/2001	9.2 J	mg/kg	
			OU5-CSA-12-5017LR-(160,220)	12/19/2001	3.1 J	mg/kg	
			OU5-CSA-12-5017LR-(160,240)	12/19/2001	3.2 J	mg/kg	
			OU5-CSA-12-5017LR-(160,260)	12/19/2001	2.8 J	mg/kg	
			OU5-CSA-12-5017LR-(160,280)	12/19/2001	2.1 J	mg/kg	
			OU5-CSA-12-5017LR-(160,40)	12/19/2001	3.5 J	mg/kg	
			OU5-CSA-12-5017LR-(160,60)	12/19/2001	14.2 J	mg/kg	
			OU5-CSA-12-5017LR-(160,80)	12/19/2001	25.1 J	mg/kg	
			OU5-CSA-12-5017LR-(180,100)	12/19/2001	46.9 J	mg/kg	
			OU5-CSA-12-5017LR-(180,120)	12/19/2001	9.7 J	mg/kg	
			OU5-CSA-12-5017LR-(180,140)	12/19/2001	3 J	mg/kg	
			OU5-CSA-12-5017LR-(180,160)	12/19/2001	3.8 J	mg/kg	
			OU5-CSA-12-5017LR-(180,200)	12/19/2001	1.3 J	mg/kg	
			OU5-CSA-12-5017LR-(180,220)	12/19/2001	1.6 J	mg/kg	
			OU5-CSA-12-5017LR-(180,240)	12/19/2001	2.2 J	mg/kg	
			OU5-CSA-12-5017LR-(180,260)	12/19/2001	2.4 J	mg/kg	
			OU5-CSA-12-5017LR-(180,280)	12/19/2001	3.6 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-5017LR-(180,300)	12/19/2001	3.1 J	mg/kg	
			OU5-CSA-12-5017LR-(180,40)	12/19/2001	2 J	mg/kg	
			OU5-CSA-12-5017LR-(180,60)	12/19/2001	10 J	mg/kg	
			OU5-CSA-12-5017LR-(180,80)	12/19/2001	28.8 J	mg/kg	
			OU5-CSA-12-5017LR-(20,180)	12/19/2001	4 J	mg/kg	
			OU5-CSA-12-5017LR-(20,200)	12/19/2001	7.8 J	mg/kg	
			OU5-CSA-12-5017LR-(20,220)	12/19/2001	3.5 J	mg/kg	
			OU5-CSA-12-5017LR-(200,100)	12/19/2001	16.7 J	mg/kg	
			OU5-CSA-12-5017LR-(200,120)	12/19/2001	6.2 J	mg/kg	
			OU5-CSA-12-5017LR-(200,140)	12/19/2001	2 J	mg/kg	
			OU5-CSA-12-5017LR-(200,160)	12/19/2001	19.1 J	mg/kg	
			OU5-CSA-12-5017LR-(200,200)	12/19/2001	2.2 J	mg/kg	
			OU5-CSA-12-5017LR-(200,220)	12/19/2001	1.3 J	mg/kg	
			OU5-CSA-12-5017LR-(200,240)	12/19/2001	2.7 J	mg/kg	
			OU5-CSA-12-5017LR-(200,260)	12/19/2001	2.7 J	mg/kg	
			OU5-CSA-12-5017LR-(200,280)	12/19/2001	2.5 J	mg/kg	
			OU5-CSA-12-5017LR-(200,300)	12/19/2001	2.7 J	mg/kg	
			OU5-CSA-12-5017LR-(200,40)	12/19/2001	4.2 J	mg/kg	
			OU5-CSA-12-5017LR-(200,60)	12/19/2001	8 J	mg/kg	
			OU5-CSA-12-5017LR-(200,80)	12/19/2001	44 J	mg/kg	
			OU5-CSA-12-5017LR-(220,100)	12/19/2001	8.1 J	mg/kg	
			OU5-CSA-12-5017LR-(220,120)	12/19/2001	12.3 J	mg/kg	
			OU5-CSA-12-5017LR-(220,140)	12/19/2001	16.8 J	mg/kg	
			OU5-CSA-12-5017LR-(220,180)	12/19/2001	3.5 J	mg/kg	
			OU5-CSA-12-5017LR-(220,200)	12/19/2001	3.6 J	mg/kg	
			OU5-CSA-12-5017LR-(220,220)	12/19/2001	1.7 J	mg/kg	
			OU5-CSA-12-5017LR-(220,240)	12/19/2001	2.9 J	mg/kg	
			OU5-CSA-12-5017LR-(220,260)	12/19/2001	3 J	mg/kg	
			OU5-CSA-12-5017LR-(220,280)	12/19/2001	1.6 J	mg/kg	
			OU5-CSA-12-5017LR-(220,300)	12/19/2001	1.9 J	mg/kg	
			OU5-CSA-12-5017LR-(220,60)	12/19/2001	4.1 J	mg/kg	
			OU5-CSA-12-5017LR-(220,80)	12/19/2001	16.7 J	mg/kg	
			OU5-CSA-12-5017LR-(240,100)	12/19/2001	2.3 J	mg/kg	
			OU5-CSA-12-5017LR-(240,120)	12/19/2001	11.9 J	mg/kg	
			OU5-CSA-12-5017LR-(240,140)	12/19/2001	15.3 J	mg/kg	
			OU5-CSA-12-5017LR-(240,160)	12/19/2001	3.2 J	mg/kg	
			OU5-CSA-12-5017LR-(240,180)	12/19/2001	1.4 J	mg/kg	
			OU5-CSA-12-5017LR-(240,200)	12/19/2001	2.2 J	mg/kg	
			OU5-CSA-12-5017LR-(240,220)	12/19/2001	2.1 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-5017LR-(240,240)	12/19/2001	1.9 J	mg/kg	
			OU5-CSA-12-5017LR-(240,260)	12/19/2001	3.1 J	mg/kg	
			OU5-CSA-12-5017LR-(240,280)	12/19/2001	2.1 J	mg/kg	
			OU5-CSA-12-5017LR-(240,60)	12/19/2001	3.5 J	mg/kg	
			OU5-CSA-12-5017LR-(240,80)	12/19/2001	10.2 J	mg/kg	
			OU5-CSA-12-5017LR-(40,120)	12/19/2001	4.7 J	mg/kg	
			OU5-CSA-12-5017LR-(40,140)	12/19/2001	4.5 J	mg/kg	
			OU5-CSA-12-5017LR-(40,160)	12/19/2001	3.7 J	mg/kg	
			OU5-CSA-12-5017LR-(40,180)	12/19/2001	4.7 J	mg/kg	
			OU5-CSA-12-5017LR-(40,200)	12/19/2001	4.2 J	mg/kg	
			OU5-CSA-12-5017LR-(40,220)	12/19/2001	3.9 J	mg/kg	
			OU5-CSA-12-5017LR-(40,240)	12/19/2001	3.7 J	mg/kg	
			OU5-CSA-12-5017LR-(60,100)	12/19/2001	2.8 J	mg/kg	
			OU5-CSA-12-5017LR-(60,120)	12/19/2001	5.2 J	mg/kg	
			OU5-CSA-12-5017LR-(60,140)	12/19/2001	4.2 J	mg/kg	
			OU5-CSA-12-5017LR-(60,160)	12/19/2001	8.3 J	mg/kg	
			OU5-CSA-12-5017LR-(60,180)	12/19/2001	5.6 J	mg/kg	
			OU5-CSA-12-5017LR-(60,200)	12/19/2001	11 J	mg/kg	
			OU5-CSA-12-5017LR-(60,220)	12/19/2001	4.1 J	mg/kg	
			OU5-CSA-12-5017LR-(60,240)	12/19/2001	3.2 J	mg/kg	
			OU5-CSA-12-5017LR-(60,40)	12/19/2001	3.8 J	mg/kg	
			OU5-CSA-12-5017LR-(60,60)	12/19/2001	2.7 J	mg/kg	
			OU5-CSA-12-5017LR-(60,80)	12/19/2001	3.4 J	mg/kg	
			OU5-CSA-12-5017LR-(80,0)	12/19/2001	1.8 J	mg/kg	
			OU5-CSA-12-5017LR-(80,100)	12/19/2001	3.4 J	mg/kg	
			OU5-CSA-12-5017LR-(80,120)	12/19/2001	7.2 J	mg/kg	
			OU5-CSA-12-5017LR-(80,140)	12/19/2001	7.3 J	mg/kg	
			OU5-CSA-12-5017LR-(80,160)	12/19/2001	12.7 J	mg/kg	
			OU5-CSA-12-5017LR-(80,180)	12/19/2001	9.7 J	mg/kg	
			OU5-CSA-12-5017LR-(80,20)	12/19/2001	3.7 J	mg/kg	
			OU5-CSA-12-5017LR-(80,200)	12/19/2001	4.1 J	mg/kg	
			OU5-CSA-12-5017LR-(80,220)	12/19/2001	3.4 J	mg/kg	
			OU5-CSA-12-5017LR-(80,240)	12/19/2001	3.6 J	mg/kg	
			OU5-CSA-12-5017LR-(80,260)	12/19/2001	3 J	mg/kg	
			OU5-CSA-12-5017LR-(80,40)	12/19/2001	5.3 J	mg/kg	
			OU5-CSA-12-5017LR-(80,60)	12/19/2001	4.2 J	mg/kg	
			OU5-CSA-12-5017LR-(80,80)	12/19/2001	6 J	mg/kg	
			OU5-CSA-12-5017LR-DUP01	12/19/2001	16.4 J	mg/kg	OU5-CSA-12-5017LR-(200,100)
			OU5-CSA-12-5017LR-DUP02	12/19/2001	1.5 J	mg/kg	OU5-CSA-12-5017LR-(100,80)

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CSA-12-5017LR-DUP03	12/19/2001	1.5 J	mg/kg	OU5-CSA-12-5017LR-(180,200)
			OU5-CSA-12-5017LR-DUP04	12/19/2001	2.9 J	mg/kg	OU5-CSA-12-5017LR-(160,220)
			OU5-CSA-12-5017LR-DUP05	12/19/2001	10.7 J	mg/kg	OU5-CSA-12-5017LR-(180,120)
			OU5-CSA-12-5017LR-DUP06	12/19/2001	4.9 J	mg/kg	OU5-CSA-12-5017LR-(80,200)
			OU5-CSA-12-5017LR-DUP07	12/19/2001	1.7 J	mg/kg	OU5-CSA-12-5017LR-(120,280)
			OU5-CSA-12-5017LR-SB1	12/17/2001	3.2	mg/kg	
CTA	1C	5026 Tilden Street					
			OU5-CTA-1C-5026TS-(100,100)	1/10/2002	13.5 J	mg/kg	
			OU5-CTA-1C-5026TS-(100,120)	1/10/2002	11.7 J	mg/kg	
			OU5-CTA-1C-5026TS-(100,40)	1/10/2002	7.5 J	mg/kg	
			OU5-CTA-1C-5026TS-(120,100)	1/10/2002	11 J	mg/kg	
			OU5-CTA-1C-5026TS-(120,40)	1/10/2002	7.1 J	mg/kg	
			OU5-CTA-1C-5026TS-(120,60)	1/10/2002	10.5 J	mg/kg	
			OU5-CTA-1C-5026TS-(120,80)	1/10/2002	11 J	mg/kg	
			OU5-CTA-1C-5026TS-(140,100)	1/10/2002	10.9 J	mg/kg	
			OU5-CTA-1C-5026TS-(140,20)	1/10/2002	9.5 J	mg/kg	
			OU5-CTA-1C-5026TS-(140,40)	1/10/2002	11.8 J	mg/kg	
			OU5-CTA-1C-5026TS-(140,60)	1/10/2002	6.6 J	mg/kg	
			OU5-CTA-1C-5026TS-(140,80)	1/10/2002	23.1 J	mg/kg	
			OU5-CTA-1C-5026TS-(160,100)	1/10/2002	20.1 J	mg/kg	
			OU5-CTA-1C-5026TS-(160,20)	1/10/2002	16.7 J	mg/kg	
			OU5-CTA-1C-5026TS-(160,40)	1/10/2002	8 J	mg/kg	
			OU5-CTA-1C-5026TS-(160,60)	1/10/2002	4.9 J	mg/kg	
			OU5-CTA-1C-5026TS-(160,80)	1/10/2002	16.7 J	mg/kg	
			OU5-CTA-1C-5026TS-(180,60)	1/10/2002	7.4 J	mg/kg	
			OU5-CTA-1C-5026TS-(180,80)	1/10/2002	7.2 J	mg/kg	
			OU5-CTA-1C-5026TS-(20,100)	1/10/2002	6.6 J	mg/kg	
			OU5-CTA-1C-5026TS-(20,60)	1/10/2002	7.1 J	mg/kg	
			OU5-CTA-1C-5026TS-(20,80)	1/10/2002	6.8 J	mg/kg	
			OU5-CTA-1C-5026TS-(40,100)	1/10/2002	6.4 J	mg/kg	
			OU5-CTA-1C-5026TS-(40,120)	1/10/2002	6.5 J	mg/kg	
			OU5-CTA-1C-5026TS-(40,40)	1/10/2002	15 J	mg/kg	
			OU5-CTA-1C-5026TS-(40,60)	1/10/2002	12.6 J	mg/kg	
			OU5-CTA-1C-5026TS-(40,80)	1/10/2002	10.1 J	mg/kg	
			OU5-CTA-1C-5026TS-(60,100)	1/10/2002	11.2 J	mg/kg	
			OU5-CTA-1C-5026TS-(60,120)	1/10/2002	11.4 J	mg/kg	
			OU5-CTA-1C-5026TS-(60,40)	1/10/2002	14.7 J	mg/kg	
			OU5-CTA-1C-5026TS-(60,60)	1/10/2002	9.8 J	mg/kg	
			OU5-CTA-1C-5026TS-(60,80)	1/10/2002	16.6 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5026TS-(80,100)	1/10/2002	16.1 J	mg/kg	
			OU5-CTA-1C-5026TS-(80,120)	1/10/2002	6.7 J	mg/kg	
			OU5-CTA-1C-5026TS-(80,40)	1/10/2002	9.4 J	mg/kg	
			OU5-CTA-1C-5026TS-(80,60)	1/10/2002	9.9 J	mg/kg	
			OU5-CTA-1C-5026TS-(80,80)	1/10/2002	12.3 J	mg/kg	
			OU5-CTA-1C-5026TS-DUP01	1/10/2002	9.9 J	mg/kg	OU5-CTA-1C-5026TS-(140,40)
			OU5-CTA-1C-5026TS-DUP02	1/10/2002	6.5 J	mg/kg	OU5-CTA-1C-5026TS-(100,100)
CTA	1C	5030 Van Ness Street					
			OU5-CTA-1C-5030VNS-(0,100)	12/11/2001	5.1	mg/kg	
			OU5-CTA-1C-5030VNS-(0,80)	12/11/2001	18.2	mg/kg	
			OU5-CTA-1C-5030VNS-(100,100)	12/11/2001	10.8	mg/kg	
			OU5-CTA-1C-5030VNS-(100,120)	12/11/2001	8.5	mg/kg	
			OU5-CTA-1C-5030VNS-(100,140)	12/11/2001	8.7	mg/kg	
			OU5-CTA-1C-5030VNS-(100,40)	12/11/2001	3.2	mg/kg	
			OU5-CTA-1C-5030VNS-(100,60)	12/11/2001	5.5	mg/kg	
			OU5-CTA-1C-5030VNS-(100,80)	12/11/2001	4	mg/kg	
			OU5-CTA-1C-5030VNS-(120,100)	12/11/2001	7.5	mg/kg	
			OU5-CTA-1C-5030VNS-(120,120)	12/11/2001	15.4	mg/kg	
			OU5-CTA-1C-5030VNS-(120,140)	12/11/2001	3	mg/kg	
			OU5-CTA-1C-5030VNS-(120,40)	12/11/2001	3.3	mg/kg	
			OU5-CTA-1C-5030VNS-(120,60)	12/11/2001	3.9	mg/kg	
			OU5-CTA-1C-5030VNS-(120,80)	12/11/2001	3.9	mg/kg	
			OU5-CTA-1C-5030VNS-(140,100)	12/11/2001	4.8	mg/kg	
			OU5-CTA-1C-5030VNS-(140,120)	12/11/2001	8.2	mg/kg	
			OU5-CTA-1C-5030VNS-(140,60)	12/11/2001	3.7	mg/kg	
			OU5-CTA-1C-5030VNS-(140,80)	12/11/2001	10.9	mg/kg	
			OU5-CTA-1C-5030VNS-(160,60)	12/11/2001	5.1	mg/kg	
			OU5-CTA-1C-5030VNS-(160,80)	12/11/2001	5.9	mg/kg	
			OU5-CTA-1C-5030VNS-(20,100)	12/11/2001	2.4 J	mg/kg	
			OU5-CTA-1C-5030VNS-(20,40)	12/11/2001	6.5	mg/kg	
			OU5-CTA-1C-5030VNS-(20,60)	12/11/2001	6.9	mg/kg	
			OU5-CTA-1C-5030VNS-(20,80)	12/11/2001	14.1	mg/kg	
			OU5-CTA-1C-5030VNS-(40,100)	12/11/2001	2.3	mg/kg	
			OU5-CTA-1C-5030VNS-(40,20)	12/11/2001	3	mg/kg	
			OU5-CTA-1C-5030VNS-(40,40)	12/11/2001	5.2	mg/kg	
			OU5-CTA-1C-5030VNS-(40,60)	12/11/2001	17.1	mg/kg	
			OU5-CTA-1C-5030VNS-(40,80)	12/11/2001	22.7	mg/kg	
			OU5-CTA-1C-5030VNS-(60,100)	12/11/2001	13.2	mg/kg	
			OU5-CTA-1C-5030VNS-(60,120)	12/11/2001	1.1 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5030VNS-(60,20)	12/11/2001	4.3	mg/kg	
			OU5-CTA-1C-5030VNS-(60,40)	12/11/2001	7.3	mg/kg	
			OU5-CTA-1C-5030VNS-(60,60)	12/11/2001	3	mg/kg	
			OU5-CTA-1C-5030VNS-(60,80)	12/11/2001	9.1	mg/kg	
			OU5-CTA-1C-5030VNS-(80,100)	12/11/2001	2.6 J	mg/kg	
			OU5-CTA-1C-5030VNS-(80,120)	12/11/2001	4.8	mg/kg	
			OU5-CTA-1C-5030VNS-(80,20)	12/11/2001	6.1	mg/kg	
			OU5-CTA-1C-5030VNS-(80,40)	12/11/2001	2.9	mg/kg	
			OU5-CTA-1C-5030VNS-(80,60)	12/11/2001	6.2	mg/kg	
			OU5-CTA-1C-5030VNS-DUP01	12/11/2001	6.5	mg/kg	OU5-CTA-1C-5030VNS-(60,40)
			OU5-CTA-1C-5030VNS-DUP02	12/11/2001	4.1	mg/kg	OU5-CTA-1C-5030VNS-(120,80)
CTA	1C	5032 Tilden Street					
			OU5-CTA-1C-5032TS-(0,60)	11/28/2001	5.9	mg/kg	
			OU5-CTA-1C-5032TS-(100,100)	11/28/2001	11.2	mg/kg	
			OU5-CTA-1C-5032TS-(100,40)	11/28/2001	7.7	mg/kg	
			OU5-CTA-1C-5032TS-(100,60)	11/28/2001	5.9	mg/kg	
			OU5-CTA-1C-5032TS-(100,80)	11/28/2001	7.3	mg/kg	
			OU5-CTA-1C-5032TS-(120,100)	11/28/2001	7.1	mg/kg	
			OU5-CTA-1C-5032TS-(120,120)	11/28/2001	24.3	mg/kg	
			OU5-CTA-1C-5032TS-(120,60)	11/28/2001	5.1	mg/kg	
			OU5-CTA-1C-5032TS-(120,80)	11/28/2001	7.7	mg/kg	
			OU5-CTA-1C-5032TS-(140,100)	11/28/2001	14.3	mg/kg	
			OU5-CTA-1C-5032TS-(140,120)	11/28/2001	9	mg/kg	
			OU5-CTA-1C-5032TS-(140,60)	11/28/2001	7.6	mg/kg	
			OU5-CTA-1C-5032TS-(140,80)	11/28/2001	9.3	mg/kg	
			OU5-CTA-1C-5032TS-(160,60)	11/28/2001	9.9	mg/kg	
			OU5-CTA-1C-5032TS-(160,80)	11/28/2001	9.5	mg/kg	
			OU5-CTA-1C-5032TS-(20,20)	11/28/2001	4.1	mg/kg	
			OU5-CTA-1C-5032TS-(20,40)	11/28/2001	7.1	mg/kg	
			OU5-CTA-1C-5032TS-(20,60)	11/28/2001	11.6	mg/kg	
			OU5-CTA-1C-5032TS-(20,80)	11/28/2001	14.8	mg/kg	
			OU5-CTA-1C-5032TS-(40,20)	11/28/2001	4.5	mg/kg	
			OU5-CTA-1C-5032TS-(40,40)	11/28/2001	4.9	mg/kg	
			OU5-CTA-1C-5032TS-(40,60)	11/28/2001	9.3	mg/kg	
			OU5-CTA-1C-5032TS-(40,80)	11/28/2001	9.1	mg/kg	
			OU5-CTA-1C-5032TS-(60,20)	11/28/2001	6	mg/kg	
			OU5-CTA-1C-5032TS-(60,40)	11/28/2001	8.1	mg/kg	
			OU5-CTA-1C-5032TS-(60,60)	11/28/2001	12.1	mg/kg	
			OU5-CTA-1C-5032TS-(60,80)	11/28/2001	3.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5032TS-(80,100)	11/28/2001	23.7	mg/kg	
			OU5-CTA-1C-5032TS-(80,40)	11/28/2001	24.8	mg/kg	
			OU5-CTA-1C-5032TS-(80,80)	11/28/2001	7.6	mg/kg	
			OU5-CTA-1C-5032TS-DUP01	11/28/2001	12.8	mg/kg	OU5-CTA-1C-5032TS-(20,80)
			OU5-CTA-1C-5032TS-DUP02	11/28/2001	8.4	mg/kg	OU5-CTA-1C-5032TS-(40,60)
CTA	1C	5035 Rockwood Parkway					
			OU5-CTA-1C-5035RP-(100,0)	9/27/2001	11.5 J	mg/kg	
			OU5-CTA-1C-5035RP-(100,100)	9/27/2001	8.8 J	mg/kg	
			OU5-CTA-1C-5035RP-(100,140)	9/27/2001	12.6 J	mg/kg	
			OU5-CTA-1C-5035RP-(100,160)	9/27/2001	5.8 J	mg/kg	
			OU5-CTA-1C-5035RP-(100,20)	9/27/2001	52.1 J	mg/kg	
			OU5-CTA-1C-5035RP-(100,40)	9/27/2001	50.8 J	mg/kg	
			OU5-CTA-1C-5035RP-(100,60)	9/27/2001	59.2 J	mg/kg	
			OU5-CTA-1C-5035RP-(100,80)	9/27/2001	17 J	mg/kg	
			OU5-CTA-1C-5035RP-(120,100)	9/27/2001	5.5 J	mg/kg	
			OU5-CTA-1C-5035RP-(120,140)	9/27/2001	18.9 J	mg/kg	
			OU5-CTA-1C-5035RP-(120,160)	9/27/2001	7.1 J	mg/kg	
			OU5-CTA-1C-5035RP-(120,20)	9/27/2001	5.1 J	mg/kg	
			OU5-CTA-1C-5035RP-(120,40)	9/27/2001	16.7 J	mg/kg	
			OU5-CTA-1C-5035RP-(120,60)	9/27/2001	31.1 J	mg/kg	
			OU5-CTA-1C-5035RP-(120,80)	9/27/2001	2.9 J	mg/kg	
			OU5-CTA-1C-5035RP-(140,100)	9/27/2001	41.6 J	mg/kg	
			OU5-CTA-1C-5035RP-(140,120)	9/27/2001	2.9 J	mg/kg	
			OU5-CTA-1C-5035RP-(140,140)	9/27/2001	2.5 J	mg/kg	
			OU5-CTA-1C-5035RP-(140,40)	9/27/2001	56.4 J	mg/kg	
			OU5-CTA-1C-5035RP-(140,60)	9/27/2001	67.7 J	mg/kg	
			OU5-CTA-1C-5035RP-(140,80)	9/27/2001	8.5 J	mg/kg	
			OU5-CTA-1C-5035RP-(160,100)	9/27/2001	8.2 J	mg/kg	
			OU5-CTA-1C-5035RP-(160,120)	9/27/2001	1.8 J	mg/kg	
			OU5-CTA-1C-5035RP-(160,60)	9/27/2001	105 J	mg/kg	
			OU5-CTA-1C-5035RP-(160,80)	9/27/2001	49.3 J	mg/kg	
			OU5-CTA-1C-5035RP-(180,60)	9/27/2001	13.3 J	mg/kg	
			OU5-CTA-1C-5035RP-(180,80)	9/27/2001	5.4 J	mg/kg	
			OU5-CTA-1C-5035RP-(20,100)	9/27/2001	27.5 J	mg/kg	
			OU5-CTA-1C-5035RP-(20,80)	9/27/2001	20.8 J	mg/kg	
			OU5-CTA-1C-5035RP-(40,100)	9/27/2001	58 J	mg/kg	
			OU5-CTA-1C-5035RP-(40,60)	9/27/2001	3.7 J	mg/kg	
			OU5-CTA-1C-5035RP-(40,80)	9/27/2001	25.6 J	mg/kg	
			OU5-CTA-1C-5035RP-(60,100)	9/27/2001	8.7 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5035RP-(60,120)	9/27/2001	6.7 J	mg/kg	
			OU5-CTA-1C-5035RP-(60,20)	9/27/2001	12.2 J	mg/kg	
			OU5-CTA-1C-5035RP-(60,40)	9/27/2001	2.9 J	mg/kg	
			OU5-CTA-1C-5035RP-(60,60)	9/27/2001	11.4 J	mg/kg	
			OU5-CTA-1C-5035RP-(60,80)	9/27/2001	4.6 J	mg/kg	
			OU5-CTA-1C-5035RP-(80,0)	9/27/2001	8 J	mg/kg	
			OU5-CTA-1C-5035RP-(80,120)	9/27/2001	6.7 J	mg/kg	
			OU5-CTA-1C-5035RP-(80,140)	9/27/2001	2.7 J	mg/kg	
			OU5-CTA-1C-5035RP-(80,20)	9/27/2001	41.4 J	mg/kg	
			OU5-CTA-1C-5035RP-(80,40)	9/27/2001	39.7 J	mg/kg	
			OU5-CTA-1C-5035RP-(80,60)	9/27/2001	59.9 J	mg/kg	
			OU5-CTA-1C-5035RP-(80,80)	9/27/2001	15.5 J	mg/kg	
			OU5-CTA-1C-5035RP-DUP01	9/27/2001	50.9 J	mg/kg	OU5-CTA-1C-5035RP-(160,80)
			OU5-CTA-1C-5035RP-DUP02	9/27/2001	61 J	mg/kg	OU5-CTA-1C-5035RP-(100,60)
CTA	1C	5040 Sedgwick Street					
			OU5-CTA-1C-5040SegS-(105 165)	6/29/2001	5.5	mg/kg	
			OU5-CTA-1C-5040SegS-(105 175)	6/29/2001	2.3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(105 185)	6/29/2001	10.6	mg/kg	
			OU5-CTA-1C-5040SegS-(105 205)	6/29/2001	5	mg/kg	
			OU5-CTA-1C-5040SegS-(105 225)	6/29/2001	4.1 J	mg/kg	
			OU5-CTA-1C-5040SegS-(105 235)	6/29/2001	3.2 J	mg/kg	
			OU5-CTA-1C-5040SegS-(105 245)	6/29/2001	3.9 J	mg/kg	
			OU5-CTA-1C-5040SegS-(105 255)	6/29/2001	5.2	mg/kg	
			OU5-CTA-1C-5040SegS-(105 275)	6/29/2001	14	mg/kg	
			OU5-CTA-1C-5040SegS-(105 285)	6/29/2001	8.1	mg/kg	
			OU5-CTA-1C-5040SegS-(105,265)	4/2/2002	6.8	mg/kg	
			OU5-CTA-1C-5040SegS-(115 175)	6/29/2001	5.5	mg/kg	
			OU5-CTA-1C-5040SegS-(115 185)	6/29/2001	4.3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(115 195)	6/29/2001	5.8	mg/kg	
			OU5-CTA-1C-5040SegS-(115 205)	6/29/2001	4.9	mg/kg	
			OU5-CTA-1C-5040SegS-(115 215)	6/29/2001	3.8 J	mg/kg	
			OU5-CTA-1C-5040SegS-(115 225)	6/29/2001	5.2	mg/kg	
			OU5-CTA-1C-5040SegS-(115 235)	6/29/2001	3.3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(115 245)	6/29/2001	4 J	mg/kg	
			OU5-CTA-1C-5040SegS-(115 265)	6/29/2001	13.4	mg/kg	
			OU5-CTA-1C-5040SegS-(115 275)	6/29/2001	10.5	mg/kg	
			OU5-CTA-1C-5040SegS-(115,255)	4/2/2002	5.3	mg/kg	
			OU5-CTA-1C-5040SegS-(125 195)	6/29/2001	4.5	mg/kg	
			OU5-CTA-1C-5040SegS-(125 205)	6/29/2001	13.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5040SegS-(125 215)	6/29/2001	4.8	mg/kg	
			OU5-CTA-1C-5040SegS-(125 225)	6/29/2001	6.2	mg/kg	
			OU5-CTA-1C-5040SegS-(125 235)	6/29/2001	6.5	mg/kg	
			OU5-CTA-1C-5040SegS-(125 245)	6/29/2001	6.1	mg/kg	
			OU5-CTA-1C-5040SegS-(125 265)	6/29/2001	10.4	mg/kg	
			OU5-CTA-1C-5040SegS-(125,185)	4/2/2002	19.7	mg/kg	
			OU5-CTA-1C-5040SegS-(125,255)	4/2/2002	5	mg/kg	
			OU5-CTA-1C-5040SegS-(135 195)	6/29/2001	8.3	mg/kg	
			OU5-CTA-1C-5040SegS-(135 205)	6/29/2001	6.9	mg/kg	
			OU5-CTA-1C-5040SegS-(135 215)	6/29/2001	19.8	mg/kg	
			OU5-CTA-1C-5040SegS-(135 225)	6/29/2001	6.4	mg/kg	
			OU5-CTA-1C-5040SegS-(135 235)	6/29/2001	5.4	mg/kg	
			OU5-CTA-1C-5040SegS-(135 245)	6/29/2001	5.6	mg/kg	
			OU5-CTA-1C-5040SegS-(135 255)	6/29/2001	8.9	mg/kg	
			OU5-CTA-1C-5040SegS-(135 265)	6/29/2001	11.3	mg/kg	
			OU5-CTA-1C-5040SegS-(145 215)	6/29/2001	6.9	mg/kg	
			OU5-CTA-1C-5040SegS-(145 225)	10/31/2001	9.3	mg/kg	
			OU5-CTA-1C-5040SegS-(145 225)b	2/20/2002	7.8	mg/kg	
			OU5-CTA-1C-5040SegS-(145 235)	6/29/2001	33.3	mg/kg	
			OU5-CTA-1C-5040SegS-(145 245)	6/29/2001	8.7	mg/kg	
			OU5-CTA-1C-5040SegS-(145 255)	6/29/2001	9.5	mg/kg	
			OU5-CTA-1C-5040SegS-(15 175)	6/29/2001	2.7 J	mg/kg	
			OU5-CTA-1C-5040SegS-(15 185)	6/29/2001	2.5 J	mg/kg	
			OU5-CTA-1C-5040SegS-(15 195)	6/29/2001	4.5	mg/kg	
			OU5-CTA-1C-5040SegS-(15 205)	6/29/2001	3.1 J	mg/kg	
			OU5-CTA-1C-5040SegS-(15 215)	6/29/2001	3.4 J	mg/kg	
			OU5-CTA-1C-5040SegS-(155 235)	6/29/2001	8.1	mg/kg	
			OU5-CTA-1C-5040SegS-(155 245)	6/29/2001	8.6	mg/kg	
			OU5-CTA-1C-5040SegS-(155,215)	4/2/2002	13.4	mg/kg	
			OU5-CTA-1C-5040SegS-(165 225)	6/29/2001	13.3	mg/kg	
			OU5-CTA-1C-5040SegS-(25 175)	6/29/2001	2.1 JB	mg/kg	
			OU5-CTA-1C-5040SegS-(25 185)	6/29/2001	2.1 JB	mg/kg	
			OU5-CTA-1C-5040SegS-(25 195)	6/29/2001	2.6 J	mg/kg	
			OU5-CTA-1C-5040SegS-(25 205)	6/29/2001	7.3	mg/kg	
			OU5-CTA-1C-5040SegS-(25 215)	6/29/2001	7.9	mg/kg	
			OU5-CTA-1C-5040SegS-(25 225)	6/29/2001	1.9 JB	mg/kg	
			OU5-CTA-1C-5040SegS-(35 165)	6/29/2001	2.1 JB	mg/kg	
			OU5-CTA-1C-5040SegS-(35 175)	6/29/2001	4.6	mg/kg	
			OU5-CTA-1C-5040SegS-(35 185)	6/29/2001	3.2 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5040SegS-(35 195)	6/29/2001	1.3 JB	mg/kg	
			OU5-CTA-1C-5040SegS-(35 205)	6/29/2001	3.3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(35 215)	6/29/2001	4.6	mg/kg	
			OU5-CTA-1C-5040SegS-(35 225)	6/29/2001	8.8	mg/kg	
			OU5-CTA-1C-5040SegS-(35 235)	6/29/2001	4.3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(45 155)	6/29/2001	3.6 J	mg/kg	
			OU5-CTA-1C-5040SegS-(45 165)	6/29/2001	3.7 J	mg/kg	
			OU5-CTA-1C-5040SegS-(45 175)	6/29/2001	4.1 J	mg/kg	
			OU5-CTA-1C-5040SegS-(45 185)	6/29/2001	2.5 J	mg/kg	
			OU5-CTA-1C-5040SegS-(45 195)	6/29/2001	2.9 J	mg/kg	
			OU5-CTA-1C-5040SegS-(45 205)	6/29/2001	4.5	mg/kg	
			OU5-CTA-1C-5040SegS-(45 215)	6/29/2001	8.7	mg/kg	
			OU5-CTA-1C-5040SegS-(45 225)	6/29/2001	2.7 J	mg/kg	
			OU5-CTA-1C-5040SegS-(45 235)	6/29/2001	5.9	mg/kg	
			OU5-CTA-1C-5040SegS-(45 245)	6/29/2001	7.4	mg/kg	
			OU5-CTA-1C-5040SegS-(5 185)	6/29/2001	3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(5 195)	6/29/2001	2.5 J	mg/kg	
			OU5-CTA-1C-5040SegS-(5 205)	6/29/2001	3.2 J	mg/kg	
			OU5-CTA-1C-5040SegS-(55 145)	6/29/2001	3.5 J	mg/kg	
			OU5-CTA-1C-5040SegS-(55 155)	6/29/2001	3.1 J	mg/kg	
			OU5-CTA-1C-5040SegS-(55 165)	6/29/2001	3.8 J	mg/kg	
			OU5-CTA-1C-5040SegS-(55 175)	6/29/2001	3.1 JB	mg/kg	
			OU5-CTA-1C-5040SegS-(55 185)	6/29/2001	3.2 J	mg/kg	
			OU5-CTA-1C-5040SegS-(55 195)	6/29/2001	3.5 J	mg/kg	
			OU5-CTA-1C-5040SegS-(55 205)	6/29/2001	24	mg/kg	
			OU5-CTA-1C-5040SegS-(55 235)	6/29/2001	4.5	mg/kg	
			OU5-CTA-1C-5040SegS-(55 245)	6/29/2001	4.3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(55 255)	6/29/2001	5.7	mg/kg	
			OU5-CTA-1C-5040SegS-(55 265)	6/29/2001	7.1	mg/kg	
			OU5-CTA-1C-5040SegS-(65 155)	6/29/2001	12	mg/kg	
			OU5-CTA-1C-5040SegS-(65 165)	6/29/2001	15	mg/kg	
			OU5-CTA-1C-5040SegS-(65 175)	6/29/2001	2.6 J	mg/kg	
			OU5-CTA-1C-5040SegS-(65 185)	6/29/2001	5.7	mg/kg	
			OU5-CTA-1C-5040SegS-(65 195)	6/29/2001	5	mg/kg	
			OU5-CTA-1C-5040SegS-(65 225)	6/29/2001	3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(65 235)	6/29/2001	9	mg/kg	
			OU5-CTA-1C-5040SegS-(65 245)	6/29/2001	5.1	mg/kg	
			OU5-CTA-1C-5040SegS-(65 255)	6/29/2001	7	mg/kg	
			OU5-CTA-1C-5040SegS-(65 265)	6/29/2001	9.2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5040SegS-(65 275)	6/29/2001	2.8 J	mg/kg	
			OU5-CTA-1C-5040SegS-(75 135)	6/29/2001	6	mg/kg	
			OU5-CTA-1C-5040SegS-(75 145)	6/29/2001	13.9	mg/kg	
			OU5-CTA-1C-5040SegS-(75 165)	6/29/2001	5.3	mg/kg	
			OU5-CTA-1C-5040SegS-(75 175)	6/29/2001	8.1	mg/kg	
			OU5-CTA-1C-5040SegS-(75 185)	6/29/2001	10.4	mg/kg	
			OU5-CTA-1C-5040SegS-(75 235)	6/29/2001	10.6	mg/kg	
			OU5-CTA-1C-5040SegS-(75 245)	6/29/2001	4.5	mg/kg	
			OU5-CTA-1C-5040SegS-(75 255)	6/29/2001	4.7	mg/kg	
			OU5-CTA-1C-5040SegS-(75 265)	6/29/2001	3.8 J	mg/kg	
			OU5-CTA-1C-5040SegS-(75 275)	6/29/2001	6.2	mg/kg	
			OU5-CTA-1C-5040SegS-(85 135)	6/29/2001	6.1	mg/kg	
			OU5-CTA-1C-5040SegS-(85 145)	6/29/2001	5.4	mg/kg	
			OU5-CTA-1C-5040SegS-(85 155)	6/29/2001	6.7	mg/kg	
			OU5-CTA-1C-5040SegS-(85 165)	6/29/2001	3.7 J	mg/kg	
			OU5-CTA-1C-5040SegS-(85 215)	6/29/2001	2.3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(85 225)	6/29/2001	3.4 J	mg/kg	
			OU5-CTA-1C-5040SegS-(85 235)	6/29/2001	4.6	mg/kg	
			OU5-CTA-1C-5040SegS-(85 245)	6/29/2001	4.2 J	mg/kg	
			OU5-CTA-1C-5040SegS-(85 255)	6/29/2001	4.5	mg/kg	
			OU5-CTA-1C-5040SegS-(85 265)	6/29/2001	3.5 J	mg/kg	
			OU5-CTA-1C-5040SegS-(85 275)	6/29/2001	32.8	mg/kg	
			OU5-CTA-1C-5040SegS-(85 285)	6/29/2001	7.3	mg/kg	
			OU5-CTA-1C-5040SegS-(85 295)	6/29/2001	5.7	mg/kg	
			OU5-CTA-1C-5040SegS-(95 155)	6/29/2001	6.4	mg/kg	
			OU5-CTA-1C-5040SegS-(95 165)	6/29/2001	3.3 J	mg/kg	
			OU5-CTA-1C-5040SegS-(95 225)	6/29/2001	3.4 J	mg/kg	
			OU5-CTA-1C-5040SegS-(95 235)	6/29/2001	2.9 J	mg/kg	
			OU5-CTA-1C-5040SegS-(95 245)	6/29/2001	4.2 J	mg/kg	
			OU5-CTA-1C-5040SegS-(95 255)	6/29/2001	6.8	mg/kg	
			OU5-CTA-1C-5040SegS-(95 265)	6/29/2001	2.8 J	mg/kg	
			OU5-CTA-1C-5040SegS-(95 285)	6/29/2001	7	mg/kg	
			OU5-CTA-1C-5040SegS-(95 295)	6/29/2001	10.9	mg/kg	
			OU5-CTA-1C-5040SegS-(95,275)	4/2/2002	8	mg/kg	
			OU5-CTA-1C-5040SegS-(DUP-01)	6/29/2001	6.9	mg/kg	OU5-CTA-1C-5040SegS-(65 235)
			OU5-CTA-1C-5040SegS-(DUP-02)	6/29/2001	5.4	mg/kg	OU5-CTA-1C-5040SegS-(65 245)
			OU5-CTA-1C-5040SegS-(DUP-03)	6/29/2001	5	mg/kg	OU5-CTA-1C-5040SegS-(55 265)
			OU5-CTA-1C-5040SegS-(DUP-04)	6/29/2001	4.8	mg/kg	OU5-CTA-1C-5040SegS-(95 245)
			OU5-CTA-1C-5040SegS-(DUP-05)	6/29/2001	4.6	mg/kg	OU5-CTA-1C-5040SegS-(95 155)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5040SegS-(DUP-06)	6/29/2001	12.8	mg/kg	OU5-CTA-1C-5040SegS-(125 205)
			OU5-CTA-1C-5040SegS-(DUP-07)	6/29/2001	3.2 J	mg/kg	OU5-CTA-1C-5040SegS-(65 225)
CTA	1C	5040 Upton Street					
			OU5-CTA-1C-5040US-(100,100)	11/26/2001	2.9	mg/kg	
			OU5-CTA-1C-5040US-(100,120)	11/26/2001	7	mg/kg	
			OU5-CTA-1C-5040US-(100,140)	11/26/2001	3.2	mg/kg	
			OU5-CTA-1C-5040US-(100,160)	11/26/2001	5.8	mg/kg	
			OU5-CTA-1C-5040US-(100,20)	11/26/2001	6.5	mg/kg	
			OU5-CTA-1C-5040US-(100,40)	11/26/2001	2.5	mg/kg	
			OU5-CTA-1C-5040US-(100,60)	11/26/2001	2.4	mg/kg	
			OU5-CTA-1C-5040US-(100,80)	11/26/2001	2.4 J	mg/kg	
			OU5-CTA-1C-5040US-(120,100)	11/26/2001	3.5	mg/kg	
			OU5-CTA-1C-5040US-(120,120)	11/26/2001	2.6	mg/kg	
			OU5-CTA-1C-5040US-(120,140)	11/26/2001	10.3	mg/kg	
			OU5-CTA-1C-5040US-(120,160)	11/26/2001	6.5	mg/kg	
			OU5-CTA-1C-5040US-(120,20)	11/26/2001	2.6	mg/kg	
			OU5-CTA-1C-5040US-(120,40)	11/26/2001	4	mg/kg	
			OU5-CTA-1C-5040US-(140,100)	11/26/2001	2.9	mg/kg	
			OU5-CTA-1C-5040US-(140,120)	11/26/2001	2.8	mg/kg	
			OU5-CTA-1C-5040US-(140,140)	11/26/2001	4.4	mg/kg	
			OU5-CTA-1C-5040US-(140,160)	11/26/2001	3.1	mg/kg	
			OU5-CTA-1C-5040US-(140,40)	11/26/2001	4.6	mg/kg	
			OU5-CTA-1C-5040US-(140,60)	11/26/2001	27.3	mg/kg	
			OU5-CTA-1C-5040US-(160,100)	11/26/2001	2.4 J	mg/kg	
			OU5-CTA-1C-5040US-(160,120)	11/26/2001	6.3	mg/kg	
			OU5-CTA-1C-5040US-(160,140)	11/26/2001	4	mg/kg	
			OU5-CTA-1C-5040US-(160,160)	11/26/2001	13.8	mg/kg	
			OU5-CTA-1C-5040US-(160,40)	11/26/2001	3.5	mg/kg	
			OU5-CTA-1C-5040US-(160,60)	11/26/2001	2.8	mg/kg	
			OU5-CTA-1C-5040US-(160,80)	11/26/2001	19.4	mg/kg	
			OU5-CTA-1C-5040US-(180,100)	11/26/2001	3.2	mg/kg	
			OU5-CTA-1C-5040US-(180,120)	11/26/2001	4.3	mg/kg	
			OU5-CTA-1C-5040US-(180,140)	11/26/2001	6.5	mg/kg	
			OU5-CTA-1C-5040US-(180,60)	11/26/2001	12.8	mg/kg	
			OU5-CTA-1C-5040US-(180,80)	11/26/2001	18.2	mg/kg	
			OU5-CTA-1C-5040US-(20,100)	11/26/2001	3.5	mg/kg	
			OU5-CTA-1C-5040US-(20,120)	11/26/2001	3.3	mg/kg	
			OU5-CTA-1C-5040US-(20,140)	11/26/2001	2.2 J	mg/kg	
			OU5-CTA-1C-5040US-(20,160)	11/26/2001	2.7	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5040US-(200,100)	11/26/2001	3.3	mg/kg	
			OU5-CTA-1C-5040US-(200,60)	11/26/2001	5.4	mg/kg	
			OU5-CTA-1C-5040US-(200,80)	11/26/2001	4.6	mg/kg	
			OU5-CTA-1C-5040US-(40,100)	11/26/2001	2.6	mg/kg	
			OU5-CTA-1C-5040US-(40,120)	11/26/2001	2.9	mg/kg	
			OU5-CTA-1C-5040US-(40,140)	11/26/2001	2.5	mg/kg	
			OU5-CTA-1C-5040US-(40,160)	11/26/2001	3.3	mg/kg	
			OU5-CTA-1C-5040US-(40,60)	11/26/2001	1.6 J	mg/kg	
			OU5-CTA-1C-5040US-(40,80)	11/26/2001	3.3	mg/kg	
			OU5-CTA-1C-5040US-(60,0)	11/26/2001	2.9	mg/kg	
			OU5-CTA-1C-5040US-(60,100)	11/26/2001	2.9	mg/kg	
			OU5-CTA-1C-5040US-(60,120)	11/26/2001	2.7	mg/kg	
			OU5-CTA-1C-5040US-(60,140)	11/26/2001	3.7	mg/kg	
			OU5-CTA-1C-5040US-(60,160)	11/26/2001	2.6	mg/kg	
			OU5-CTA-1C-5040US-(60,20)	11/26/2001	2.6	mg/kg	
			OU5-CTA-1C-5040US-(60,40)	11/26/2001	1.7 J	mg/kg	
			OU5-CTA-1C-5040US-(60,60)	11/26/2001	3.4	mg/kg	
			OU5-CTA-1C-5040US-(60,80)	11/26/2001	2.6	mg/kg	
			OU5-CTA-1C-5040US-(80,100)	11/26/2001	2.5	mg/kg	
			OU5-CTA-1C-5040US-(80,120)	11/26/2001	2.9	mg/kg	
			OU5-CTA-1C-5040US-(80,140)	11/26/2001	2.3 J	mg/kg	
			OU5-CTA-1C-5040US-(80,160)	11/26/2001	3.6	mg/kg	
			OU5-CTA-1C-5040US-(80,20)	11/26/2001	2 J	mg/kg	
			OU5-CTA-1C-5040US-(80,40)	11/26/2001	3.5	mg/kg	
			OU5-CTA-1C-5040US-(80,60)	11/26/2001	1.4 J	mg/kg	
			OU5-CTA-1C-5040US-(80,80)	11/26/2001	2.9	mg/kg	
			OU5-CTA-1C-5040US-DUP01	11/26/2001	4.4	mg/kg	OU5-CTA-1C-5040US-(60,20)
			OU5-CTA-1C-5040US-DUP02	11/26/2001	3.9	mg/kg	OU5-CTA-1C-5040US-(160,60)
			OU5-CTA-1C-5040US-DUP03	11/26/2001	2.9	mg/kg	OU5-CTA-1C-5040US-(80,120)
CSA	12	5041 Loughboro Road					
			OU5-CSA-12-5041LR-(0,80)	11/27/2001	1.3 J	mg/kg	
			OU5-CSA-12-5041LR-(100,120)	11/27/2001	3.1	mg/kg	
			OU5-CSA-12-5041LR-(100,140)	11/27/2001	3.5	mg/kg	
			OU5-CSA-12-5041LR-(100,20)	11/27/2001	2.2 J	mg/kg	
			OU5-CSA-12-5041LR-(100,40)	11/27/2001	2 J	mg/kg	
			OU5-CSA-12-5041LR-(100,60)	11/27/2001	2.5	mg/kg	
			OU5-CSA-12-5041LR-(100,80)	11/27/2001	2.6	mg/kg	
			OU5-CSA-12-5041LR-(120,100)	11/27/2001	2.7	mg/kg	
			OU5-CSA-12-5041LR-(120,120)	11/27/2001	3.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-5041LR-(120,140)	11/27/2001	2.2 J	mg/kg	
			OU5-CSA-12-5041LR-(120,40)	11/27/2001	2.1 J	mg/kg	
			OU5-CSA-12-5041LR-(120,60)	11/27/2001	3.2	mg/kg	
			OU5-CSA-12-5041LR-(140,100)	11/27/2001	3.6	mg/kg	
			OU5-CSA-12-5041LR-(140,120)	11/27/2001	3.7	mg/kg	
			OU5-CSA-12-5041LR-(140,60)	11/27/2001	5.7	mg/kg	
			OU5-CSA-12-5041LR-(140,80)	11/27/2001	2.3	mg/kg	
			OU5-CSA-12-5041LR-(160,100)	11/27/2001	2.5	mg/kg	
			OU5-CSA-12-5041LR-(160,80)	11/27/2001	1.1 J	mg/kg	
			OU5-CSA-12-5041LR-(20,100)	11/27/2001	2.9	mg/kg	
			OU5-CSA-12-5041LR-(20,60)	11/27/2001	2.1 J	mg/kg	
			OU5-CSA-12-5041LR-(20,80)	11/27/2001	2.1 J	mg/kg	
			OU5-CSA-12-5041LR-(40,100)	11/27/2001	1.5 J	mg/kg	
			OU5-CSA-12-5041LR-(40,120)	11/27/2001	3	mg/kg	
			OU5-CSA-12-5041LR-(40,20)	11/27/2001	1.7 J	mg/kg	
			OU5-CSA-12-5041LR-(40,40)	11/27/2001	3.4	mg/kg	
			OU5-CSA-12-5041LR-(40,60)	11/27/2001	3.2	mg/kg	
			OU5-CSA-12-5041LR-(40,80)	11/27/2001	2.5	mg/kg	
			OU5-CSA-12-5041LR-(60,0)	11/27/2001	1.4 J	mg/kg	
			OU5-CSA-12-5041LR-(60,100)	11/27/2001	3.2	mg/kg	
			OU5-CSA-12-5041LR-(60,120)	11/27/2001	2.9	mg/kg	
			OU5-CSA-12-5041LR-(60,140)	11/27/2001	1.8 J	mg/kg	
			OU5-CSA-12-5041LR-(60,20)	11/27/2001	2.5	mg/kg	
			OU5-CSA-12-5041LR-(60,40)	11/27/2001	4	mg/kg	
			OU5-CSA-12-5041LR-(60,60)	11/27/2001	3.8	mg/kg	
			OU5-CSA-12-5041LR-(60,80)	11/27/2001	3.7	mg/kg	
			OU5-CSA-12-5041LR-(80,100)	11/27/2001	2.9	mg/kg	
			OU5-CSA-12-5041LR-(80,120)	11/27/2001	2.4 J	mg/kg	
			OU5-CSA-12-5041LR-(80,140)	11/27/2001	2.4 J	mg/kg	
			OU5-CSA-12-5041LR-(80,20)	11/27/2001	3.8	mg/kg	
			OU5-CSA-12-5041LR-(80,40)	11/27/2001	2.2 J	mg/kg	
			OU5-CSA-12-5041LR-(80,60)	11/27/2001	2.5 J	mg/kg	
			OU5-CSA-12-5041LR-(80,80)	11/27/2001	3	mg/kg	
			OU5-CSA-12-5041LR-DUP01	11/27/2001	4	mg/kg	OU5-CSA-12-5041LR-(60,80)
			OU5-CSA-12-5041LR-DUP02	11/27/2001	2.6	mg/kg	OU5-CSA-12-5041LR-(100,80)
			OU5-CSA-12-5041LR-SB-DUP68	11/26/2001	0.63 J	mg/kg	OU5-CSA-12-5041LR-SB5
			OU5-CSA-12-5041LR-SB1	11/26/2001	4.1	mg/kg	
			OU5-CSA-12-5041LR-SB2	11/26/2001	2.5	mg/kg	
			OU5-CSA-12-5041LR-SB3	11/26/2001	1.7 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-5041LR-SB4	11/26/2001	0.77 J	mg/kg	
			OU5-CSA-12-5041LR-SB5	11/26/2001	0.53 U	mg/kg	
			OU5-CSA-12-5041LR-SB6	11/26/2001	0.51 U	mg/kg	
CTA	1C	5041 Upton Street					
			OU5-CTA-1C-5041US-(100,100)	12/3/2001	8.9 J	mg/kg	
			OU5-CTA-1C-5041US-(100,120)	12/3/2001	6.2 J	mg/kg	
			OU5-CTA-1C-5041US-(100,40)	12/3/2001	57.1 J	mg/kg	
			OU5-CTA-1C-5041US-(120,100)	12/3/2001	5.3 J	mg/kg	
			OU5-CTA-1C-5041US-(120,120)	12/3/2001	3 J	mg/kg	
			OU5-CTA-1C-5041US-(120,140)	12/3/2001	12.3 J	mg/kg	
			OU5-CTA-1C-5041US-(120,40)	12/3/2001	12.4 J	mg/kg	
			OU5-CTA-1C-5041US-(120,60)	12/3/2001	8.7 J	mg/kg	
			OU5-CTA-1C-5041US-(120,80)	12/3/2001	5.2 J	mg/kg	
			OU5-CTA-1C-5041US-(140,100)	12/3/2001	2.1 J	mg/kg	
			OU5-CTA-1C-5041US-(140,120)	12/3/2001	5.6 J	mg/kg	
			OU5-CTA-1C-5041US-(140,140)	12/3/2001	5.8 J	mg/kg	
			OU5-CTA-1C-5041US-(140,40)	12/3/2001	26.3 J	mg/kg	
			OU5-CTA-1C-5041US-(140,60)	12/3/2001	5.2 J	mg/kg	
			OU5-CTA-1C-5041US-(140,80)	12/3/2001	4.8 J	mg/kg	
			OU5-CTA-1C-5041US-(160,100)	12/3/2001	5.2 J	mg/kg	
			OU5-CTA-1C-5041US-(160,120)	12/3/2001	5.4 J	mg/kg	
			OU5-CTA-1C-5041US-(160,140)	12/3/2001	6.3 J	mg/kg	
			OU5-CTA-1C-5041US-(160,60)	12/3/2001	4.5 J	mg/kg	
			OU5-CTA-1C-5041US-(160,80)	12/3/2001	8.2 J	mg/kg	
			OU5-CTA-1C-5041US-(180,100)	12/3/2001	7.2 J	mg/kg	
			OU5-CTA-1C-5041US-(180,120)	12/3/2001	10.8 J	mg/kg	
			OU5-CTA-1C-5041US-(180,60)	12/3/2001	11.9 J	mg/kg	
			OU5-CTA-1C-5041US-(180,80)	12/3/2001	4.9 J	mg/kg	
			OU5-CTA-1C-5041US-(20,100)	12/3/2001	5.6 J	mg/kg	
			OU5-CTA-1C-5041US-(20,60)	12/3/2001	22.4 J	mg/kg	
			OU5-CTA-1C-5041US-(20,80)	12/3/2001	17.4 J	mg/kg	
			OU5-CTA-1C-5041US-(200,100)	12/3/2001	25 J	mg/kg	
			OU5-CTA-1C-5041US-(200,80)	12/3/2001	3.3 J	mg/kg	
			OU5-CTA-1C-5041US-(40,100)	12/3/2001	17.9 J	mg/kg	
			OU5-CTA-1C-5041US-(40,120)	12/3/2001	5.4 J	mg/kg	
			OU5-CTA-1C-5041US-(40,20)	12/3/2001	19 J	mg/kg	
			OU5-CTA-1C-5041US-(40,40)	12/3/2001	20.6 J	mg/kg	
			OU5-CTA-1C-5041US-(40,60)	12/3/2001	14.2 J	mg/kg	
			OU5-CTA-1C-5041US-(40,80)	12/3/2001	20.1 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5041US-(60,100)	12/3/2001	10.9 J	mg/kg	
			OU5-CTA-1C-5041US-(60,120)	12/3/2001	7.6 J	mg/kg	
			OU5-CTA-1C-5041US-(60,120)(A)	4/25/2002	8.2	mg/kg	
			OU5-CTA-1C-5041US-(60,120)(B)	4/25/2002	8.9	mg/kg	
			OU5-CTA-1C-5041US-(60,20)	12/3/2001	17.6 J	mg/kg	
			OU5-CTA-1C-5041US-(60,40)	12/3/2001	21.6 J	mg/kg	
			OU5-CTA-1C-5041US-(60,60)	12/3/2001	22.9 J	mg/kg	
			OU5-CTA-1C-5041US-(60,80)	12/3/2001	52.1 J	mg/kg	
			OU5-CTA-1C-5041US-(80,100)	12/3/2001	6.9 J	mg/kg	
			OU5-CTA-1C-5041US-(80,120)	12/3/2001	10.6 J	mg/kg	
			OU5-CTA-1C-5041US-(80,20)	12/3/2001	28.2 J	mg/kg	
			OU5-CTA-1C-5041US-(80,40)	12/3/2001	18.6 J	mg/kg	
			OU5-CTA-1C-5041US-(80,60)	12/3/2001	9 J	mg/kg	
			OU5-CTA-1C-5041US-(80,80)	12/3/2001	4.7 J	mg/kg	
			OU5-CTA-1C-5041US-DUP01	12/3/2001	24.5 J	mg/kg	OU5-CTA-1C-5041US-(60,60)
			OU5-CTA-1C-5041US-DUP02	12/3/2001	32.9 J	mg/kg	OU5-CTA-1C-5041US-(60,120)
			OU5-CTA-1C-5041US-DUP03	12/3/2001	4.7 J	mg/kg	OU5-CTA-1C-5041US-(160,100)
CTA	1C	5044 Van Ness Street					
			OU5-CTA-1C-5044VNS-(100,100)	11/30/2001	14.3 L	mg/kg	
			OU5-CTA-1C-5044VNS-(100,120)	11/30/2001	10.1 L	mg/kg	
			OU5-CTA-1C-5044VNS-(100,20)	11/30/2001	20.5 L	mg/kg	
			OU5-CTA-1C-5044VNS-(100,40)	11/30/2001	3.8 L	mg/kg	
			OU5-CTA-1C-5044VNS-(120,100)	11/30/2001	9.5 L	mg/kg	
			OU5-CTA-1C-5044VNS-(120,120)	11/30/2001	13 L	mg/kg	
			OU5-CTA-1C-5044VNS-(120,140)	11/30/2001	8.3 L	mg/kg	
			OU5-CTA-1C-5044VNS-(120,40)	11/30/2001	3.5 L	mg/kg	
			OU5-CTA-1C-5044VNS-(120,60)	11/30/2001	3.2 L	mg/kg	
			OU5-CTA-1C-5044VNS-(120,80)	11/30/2001	1.7 JL	mg/kg	
			OU5-CTA-1C-5044VNS-(140,100)	11/30/2001	9.6 L	mg/kg	
			OU5-CTA-1C-5044VNS-(140,120)	11/30/2001	2.8 L	mg/kg	
			OU5-CTA-1C-5044VNS-(140,140)	11/30/2001	13.6 L	mg/kg	
			OU5-CTA-1C-5044VNS-(140,40)	11/30/2001	9.5 L	mg/kg	
			OU5-CTA-1C-5044VNS-(140,60)	11/30/2001	15.8 L	mg/kg	
			OU5-CTA-1C-5044VNS-(140,80)	11/30/2001	1.5 JL	mg/kg	
			OU5-CTA-1C-5044VNS-(160,100)	11/30/2001	3.7 L	mg/kg	
			OU5-CTA-1C-5044VNS-(160,120)	11/30/2001	6.1 L	mg/kg	
			OU5-CTA-1C-5044VNS-(160,140)	11/30/2001	6.7 L	mg/kg	
			OU5-CTA-1C-5044VNS-(160,60)	11/30/2001	24.1 L	mg/kg	
			OU5-CTA-1C-5044VNS-(160,80)	11/30/2001	6.1 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CTA-1C-5044VNS-(20,100)	11/30/2001	13 L	mg/kg	
			OU5-CTA-1C-5044VNS-(20,60)	11/30/2001	7.3 L	mg/kg	
			OU5-CTA-1C-5044VNS-(20,80)	11/30/2001	11 L	mg/kg	
			OU5-CTA-1C-5044VNS-(40,100)	11/30/2001	5.7 L	mg/kg	
			OU5-CTA-1C-5044VNS-(40,20)	11/30/2001	4.7 L	mg/kg	
			OU5-CTA-1C-5044VNS-(40,40)	11/30/2001	18 L	mg/kg	
			OU5-CTA-1C-5044VNS-(40,60)	11/30/2001	7.3 L	mg/kg	
			OU5-CTA-1C-5044VNS-(40,80)	11/30/2001	4.1 L	mg/kg	
			OU5-CTA-1C-5044VNS-(60,0)	11/30/2001	7.3 L	mg/kg	
			OU5-CTA-1C-5044VNS-(60,100)	11/30/2001	3 L	mg/kg	
			OU5-CTA-1C-5044VNS-(60,120)	11/30/2001	3 L	mg/kg	
			OU5-CTA-1C-5044VNS-(60,20)	11/30/2001	20 L	mg/kg	
			OU5-CTA-1C-5044VNS-(60,40)	11/30/2001	3 L	mg/kg	
			OU5-CTA-1C-5044VNS-(60,60)	11/30/2001	14.5 L	mg/kg	
			OU5-CTA-1C-5044VNS-(60,80)	11/30/2001	3.5 L	mg/kg	
			OU5-CTA-1C-5044VNS-(80,100)	11/30/2001	2.5 JL	mg/kg	
			OU5-CTA-1C-5044VNS-(80,120)	11/30/2001	5.2 L	mg/kg	
			OU5-CTA-1C-5044VNS-(80,20)	11/30/2001	14.9 L	mg/kg	
			OU5-CTA-1C-5044VNS-(80,40)	11/30/2001	6 L	mg/kg	
			OU5-CTA-1C-5044VNS-(80,60)	11/30/2001	1 JL	mg/kg	
			OU5-CTA-1C-5044VNS-DUP01	11/30/2001	4.2 L	mg/kg	OU5-CTA-1C-5044VNS-(60,40)
			OU5-CTA-1C-5044VNS-DUP02	11/30/2001	17.4 L	mg/kg	OU5-CTA-1C-5044VNS-(80,20)
CTA	1C	5046 Sedgwick Street					
			OU5-CTA-1C-5046SegS-(105 105)	6/28/2001	26 L	mg/kg	
			OU5-CTA-1C-5046SegS-(105 115)	6/28/2001	22.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(105 125)	6/28/2001	4.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(105 135)	6/28/2001	2.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(105 145)	6/28/2001	9.4 L	mg/kg	
			OU5-CTA-1C-5046SegS-(105 155)	6/28/2001	24.2 L	mg/kg	
			OU5-CTA-1C-5046SegS-(115 105)	6/28/2001	37.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(115 115)	6/28/2001	30.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(115 125)	6/28/2001	24.6 L	mg/kg	
			OU5-CTA-1C-5046SegS-(115 135)	6/28/2001	27.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(115 145)	6/28/2001	7.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(115 155)	6/28/2001	67.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(115 165)	6/28/2001	12.6 L	mg/kg	
			OU5-CTA-1C-5046SegS-(115 95)	6/28/2001	24 L	mg/kg	
			OU5-CTA-1C-5046SegS-(125 105)	6/28/2001	28.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(125 115)	6/28/2001	69 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5046SegS-(125 125)	6/28/2001	19.3 L	mg/kg	
			OU5-CTA-1C-5046SegS-(125 135)	6/28/2001	18.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(125 145)	6/28/2001	14 L	mg/kg	
			OU5-CTA-1C-5046SegS-(125 155)	6/28/2001	4.2 L	mg/kg	
			OU5-CTA-1C-5046SegS-(125 175)	6/28/2001	8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(125 85)	6/28/2001	30.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(125 95)	6/28/2001	45.4 L	mg/kg	
			OU5-CTA-1C-5046SegS-(135 105)	6/28/2001	104 L	mg/kg	
			OU5-CTA-1C-5046SegS-(135 115)	6/28/2001	28.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(135 125)	6/28/2001	36.6 L	mg/kg	
			OU5-CTA-1C-5046SegS-(135 185)	6/28/2001	15.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(135 75)	6/28/2001	23.6 L	mg/kg	
			OU5-CTA-1C-5046SegS-(135 95)	6/28/2001	45.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(145 105)	6/28/2001	12.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(145 115)	6/28/2001	18.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(145 125)	6/28/2001	10.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(145 175)	6/29/2001	5.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(145 185)	6/29/2001	5.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(145 195)	6/29/2001	12.4 L	mg/kg	
			OU5-CTA-1C-5046SegS-(145 75)	6/28/2001	41.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(145 85)	6/28/2001	22.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(145 95)	6/28/2001	59.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(155 105)	6/28/2001	37.4 L	mg/kg	
			OU5-CTA-1C-5046SegS-(155 115)	6/28/2001	14.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(155 165)	6/29/2001	4.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(155 205)	6/29/2001	67.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(155 85)	6/28/2001	16.4 L	mg/kg	
			OU5-CTA-1C-5046SegS-(155 95)	6/28/2001	12.6 L	mg/kg	
			OU5-CTA-1C-5046SegS-(165 115)	6/28/2001	14.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(165 165)	6/29/2001	13.6 L	mg/kg	
			OU5-CTA-1C-5046SegS-(165 175)	6/28/2001	19.4 L	mg/kg	
			OU5-CTA-1C-5046SegS-(165 215)	6/29/2001	13.4 L	mg/kg	
			OU5-CTA-1C-5046SegS-(165 95)	6/28/2001	30.2 L	mg/kg	
			OU5-CTA-1C-5046SegS-(175 105)	6/28/2001	20.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(175 115)	6/28/2001	65.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(175 155)	6/28/2001	44.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(175 165)	6/28/2001	26.2 L	mg/kg	
			OU5-CTA-1C-5046SegS-(175 175)	6/28/2001	79.4 L	mg/kg	
			OU5-CTA-1C-5046SegS-(175 205)	6/29/2001	7 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5046SegS-(175 215)	6/29/2001	8.2 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 105)	6/28/2001	26.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 115)	6/28/2001	18.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 125)	6/28/2001	18.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 145)	6/29/2001	8.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 155)	6/28/2001	50.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 165)	6/28/2001	56.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 175)	6/28/2001	77.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 185)	6/29/2001	18.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 195)	6/29/2001	12 L	mg/kg	
			OU5-CTA-1C-5046SegS-(185 205)	6/29/2001	13.8 L	mg/kg	
			OU5-CTA-1C-5046SegS-(195 105)	6/28/2001	15.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(195 115)	6/28/2001	16.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(195 125)	6/28/2001	14.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(195 135)	6/28/2001	14 L	mg/kg	
			OU5-CTA-1C-5046SegS-(195 155)	6/28/2001	32.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(195 165)	6/28/2001	33.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(195 175)	6/28/2001	11.6 L	mg/kg	
			OU5-CTA-1C-5046SegS-(195 185)	6/28/2001	5.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(205 125)	6/28/2001	13.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(205 135)	6/28/2001	64.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(205 165)	6/28/2001	36.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(205 175)	6/28/2001	12.9 L	mg/kg	
			OU5-CTA-1C-5046SegS-(215 135)	6/28/2001	42.3 L	mg/kg	
			OU5-CTA-1C-5046SegS-(215 145)	6/28/2001	30.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(215 165)	6/28/2001	15.6 L	mg/kg	
			OU5-CTA-1C-5046SegS-(225 145)	6/28/2001	10.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(85 125)	6/28/2001	19.3 L	mg/kg	
			OU5-CTA-1C-5046SegS-(85 135)	6/28/2001	10.3 L	mg/kg	
			OU5-CTA-1C-5046SegS-(95 105)	6/28/2001	19.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(95 125)	6/28/2001	27.7 L	mg/kg	
			OU5-CTA-1C-5046SegS-(95 135)	6/28/2001	18.1 L	mg/kg	
			OU5-CTA-1C-5046SegS-(95 145)	6/28/2001	18.5 L	mg/kg	
			OU5-CTA-1C-5046SegS-(DUP-04)	6/29/2001	10.5 L	mg/kg	OU5-CTA-1C-5046SegS-(105 105)
			OU5-CTA-1C-5046SegS-(DUP01)	6/28/2001	21.3 L	mg/kg	OU5-CTA-1C-5046SegS-(115 115)
			OU5-CTA-1C-5046SegS-(DUP02)	6/28/2001	3.2 L	mg/kg	OU5-CTA-1C-5046SegS-(105 135)
			OU5-CTA-1C-5046SegS-DUP03	6/28/2001	35.2 L	mg/kg	OU5-CTA-1C-5046SegS-(145 85)
			OU5-CTA-1C-5046SegS-DUP05	6/28/2001	17 L	mg/kg	OU5-CTA-1C-5046SegS-(185 115)
			OU5-CTA-1C-5046SegS-DUP06	6/28/2001	16.6 L	mg/kg	OU5-CTA-1C-5046SegS-(205 175)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
CTA	1C	5054 Sedgwick Street					
			OU5-CTA-1C-5054SegS-(145 55)	6/28/2001	3.9 J	mg/kg	
			OU5-CTA-1C-5054SegS-(145 65)	6/28/2001	2.4 J	mg/kg	
			OU5-CTA-1C-5054SegS-(155 45)	6/28/2001	2.7 J	mg/kg	
			OU5-CTA-1C-5054SegS-(155 55)	6/29/2001	6.7 L	mg/kg	
			OU5-CTA-1C-5054SegS-(155 65)	6/28/2001	8 J	mg/kg	
			OU5-CTA-1C-5054SegS-(155 75)	6/28/2001	6 J	mg/kg	
			OU5-CTA-1C-5054SegS-(165 35)	6/28/2001	10.9 J	mg/kg	
			OU5-CTA-1C-5054SegS-(165 45)	6/28/2001	6.7 J	mg/kg	
			OU5-CTA-1C-5054SegS-(165 55)	6/28/2001	9.6 J	mg/kg	
			OU5-CTA-1C-5054SegS-(165 65)	6/28/2001	13.1 J	mg/kg	
			OU5-CTA-1C-5054SegS-(165 75)	6/28/2001	9.2 J	mg/kg	
			OU5-CTA-1C-5054SegS-(175 15)	6/28/2001	5.4 J	mg/kg	
			OU5-CTA-1C-5054SegS-(175 25)	6/28/2001	4.5 J	mg/kg	
			OU5-CTA-1C-5054SegS-(175 35)	6/28/2001	5.4 J	mg/kg	
			OU5-CTA-1C-5054SegS-(175 45)	6/28/2001	5.1 J	mg/kg	
			OU5-CTA-1C-5054SegS-(175 55)	6/28/2001	2.8 J	mg/kg	
			OU5-CTA-1C-5054SegS-(175 65)	6/28/2001	9.1 J	mg/kg	
			OU5-CTA-1C-5054SegS-(175 75)	6/28/2001	6.2 J	mg/kg	
			OU5-CTA-1C-5054SegS-(175 85)	6/29/2001	3.2 L	mg/kg	
			OU5-CTA-1C-5054SegS-(175 95)	6/29/2001	11.8 L	mg/kg	
			OU5-CTA-1C-5054SegS-(185 15)	6/28/2001	3.3 J	mg/kg	
			OU5-CTA-1C-5054SegS-(185 25)	6/28/2001	1.8 J	mg/kg	
			OU5-CTA-1C-5054SegS-(185 35)	6/28/2001	2.1 J	mg/kg	
			OU5-CTA-1C-5054SegS-(185 45)	6/28/2001	7.6 J	mg/kg	
			OU5-CTA-1C-5054SegS-(185 5)	6/28/2001	3.6 J	mg/kg	
			OU5-CTA-1C-5054SegS-(185 55)	6/28/2001	5.4 J	mg/kg	
			OU5-CTA-1C-5054SegS-(185 65)	6/28/2001	1.7 J	mg/kg	
			OU5-CTA-1C-5054SegS-(185 75)	6/28/2001	3.9 J	mg/kg	
			OU5-CTA-1C-5054SegS-(185 85)	6/29/2001	13.5 L	mg/kg	
			OU5-CTA-1C-5054SegS-(185 95)	6/29/2001	3.1 L	mg/kg	
			OU5-CTA-1C-5054SegS-(195 105)	6/29/2001	4.7 L	mg/kg	
			OU5-CTA-1C-5054SegS-(195 15)	6/28/2001	3.2 J	mg/kg	
			OU5-CTA-1C-5054SegS-(195 25)	6/28/2001	3.1 J	mg/kg	
			OU5-CTA-1C-5054SegS-(195 35)	6/28/2001	2.3 J	mg/kg	
			OU5-CTA-1C-5054SegS-(195 45)	6/28/2001	3.4 J	mg/kg	
			OU5-CTA-1C-5054SegS-(195 5)	6/28/2001	3.5 J	mg/kg	
			OU5-CTA-1C-5054SegS-(195 55)	6/28/2001	3.7 J	mg/kg	
			OU5-CTA-1C-5054SegS-(205 105)	6/29/2001	11.2 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5054SegS-(205 115)	6/29/2001	13.4 L	mg/kg	
			OU5-CTA-1C-5054SegS-(205 25)	6/28/2001	2.5 J	mg/kg	
			OU5-CTA-1C-5054SegS-(205 35)	6/28/2001	3.4 J	mg/kg	
			OU5-CTA-1C-5054SegS-(205 55)	6/29/2001	4.7 L	mg/kg	
			OU5-CTA-1C-5054SegS-(215 105)	6/29/2001	6.7 L	mg/kg	
			OU5-CTA-1C-5054SegS-(215 115)	6/29/2001	29.6 L	mg/kg	
			OU5-CTA-1C-5054SegS-(215 125)	6/29/2001	20.9 L	mg/kg	
			OU5-CTA-1C-5054SegS-(215 15)	6/28/2001	2.7 J	mg/kg	
			OU5-CTA-1C-5054SegS-(215 25)	6/28/2001	3.6 J	mg/kg	
			OU5-CTA-1C-5054SegS-(215 35)	6/28/2001	3.2 J	mg/kg	
			OU5-CTA-1C-5054SegS-(225 105)	6/28/2001	16.6 J	mg/kg	
			OU5-CTA-1C-5054SegS-(225 115)	6/28/2001	14 J	mg/kg	
			OU5-CTA-1C-5054SegS-(225 125)	6/28/2001	35.3 J	mg/kg	
			OU5-CTA-1C-5054SegS-(225 25)	6/28/2001	4.7 J	mg/kg	
			OU5-CTA-1C-5054SegS-(225 35)	6/28/2001	2.2 J	mg/kg	
			OU5-CTA-1C-5054SegS-(225 75)	6/28/2001	5.8 J	mg/kg	
			OU5-CTA-1C-5054SegS-(225 85)	6/28/2001	6.3 J	mg/kg	
			OU5-CTA-1C-5054SegS-(225 95)	6/28/2001	17 J	mg/kg	
			OU5-CTA-1C-5054SegS-(235 105)	6/28/2001	6.9 J	mg/kg	
			OU5-CTA-1C-5054SegS-(235 115)	6/28/2001	15.4 J	mg/kg	
			OU5-CTA-1C-5054SegS-(235 125)	6/29/2001	26.6 L	mg/kg	
			OU5-CTA-1C-5054SegS-(235 25)	6/28/2001	3.7 J	mg/kg	
			OU5-CTA-1C-5054SegS-(235 35)	6/28/2001	3.8 J	mg/kg	
			OU5-CTA-1C-5054SegS-(235 85)	6/28/2001	12.5 J	mg/kg	
			OU5-CTA-1C-5054SegS-(235 95)	6/28/2001	11 J	mg/kg	
			OU5-CTA-1C-5054SegS-(245 105)	6/29/2001	7.5 L	mg/kg	
			OU5-CTA-1C-5054SegS-(245 115)	6/29/2001	3.2 L	mg/kg	
			OU5-CTA-1C-5054SegS-(245 35)	6/28/2001	4.4 J	mg/kg	
			OU5-CTA-1C-5054SegS-(245 45)	6/28/2001	1.3 J	mg/kg	
			OU5-CTA-1C-5054SegS-(245 95)	6/28/2001	5.9 J	mg/kg	
			OU5-CTA-1C-5054SegS-(250 15)	6/28/2001	3.2 J	mg/kg	
			OU5-CTA-1C-5054SegS-(255 45)	6/28/2001	4 J	mg/kg	
			OU5-CTA-1C-5054SegS-(255 55)	6/28/2001	3.5 J	mg/kg	
			OU5-CTA-1C-5054SegS-(255 85)	6/28/2001	40.6 J	mg/kg	
			OU5-CTA-1C-5054SegS-(265 55)	6/28/2001	6.2 J	mg/kg	
			OU5-CTA-1C-5054SegS-(265 65)	6/28/2001	3.5 J	mg/kg	
			OU5-CTA-1C-5054SegS-(265 75)	6/28/2001	14.7 J	mg/kg	
			OU5-CTA-1C-5054SegS-(265 85)	6/29/2001	3.2 L	mg/kg	
			OU5-CTA-1C-5054SegS-(275 55)	6/29/2001	4.2 L	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result [1]	Units	Duplicate Match
			OU5-CTA-1C-5054SegS-(275 65)	6/29/2001	7.1 L	mg/kg	
			OU5-CTA-1C-5054SegS-(275 75)	6/29/2001	3.5 L	mg/kg	
			OU5-CTA-1C-5054SegS-DUP01	6/28/2001	3.8 J	mg/kg	OU5-CTA-1C-5054SegS-(175 25)
			OU5-CTA-1C-5054SegS-DUP02	6/29/2001	10.3 L	mg/kg	OU5-CTA-1C-5054SegS-(205 105)
			OU5-CTA-1C-5054SegS-DUP03	6/28/2001	6.3 J	mg/kg	OU5-CTA-1C-5054SegS-(225 85)
			OU5-CTA-1C-5054SegS-DUP04	6/29/2001	3.1	mg/kg	OU5-CTA-1C-5054SegS-(275 75)
CTA	1C	5058 Sedgwick Street					
			OU5-CTA-1C-5058SegS-(0,80)	11/29/2001	9.2	mg/kg	
			OU5-CTA-1C-5058SegS-(100,100)	11/29/2001	5.9	mg/kg	
			OU5-CTA-1C-5058SegS-(100,120)	11/29/2001	6.6	mg/kg	
			OU5-CTA-1C-5058SegS-(100,20)	11/29/2001	8.8	mg/kg	
			OU5-CTA-1C-5058SegS-(100,40)	11/29/2001	20.4	mg/kg	
			OU5-CTA-1C-5058SegS-(100,60)	11/29/2001	10.3	mg/kg	
			OU5-CTA-1C-5058SegS-(100,80)	11/29/2001	12.8	mg/kg	
			OU5-CTA-1C-5058SegS-(120,100)	11/29/2001	4.5	mg/kg	
			OU5-CTA-1C-5058SegS-(120,40)	11/29/2001	13.4	mg/kg	
			OU5-CTA-1C-5058SegS-(120,60)	11/29/2001	13.2	mg/kg	
			OU5-CTA-1C-5058SegS-(120,80)	11/29/2001	14	mg/kg	
			OU5-CTA-1C-5058SegS-(140,100)	11/29/2001	6.1	mg/kg	
			OU5-CTA-1C-5058SegS-(140,60)	11/29/2001	6.6	mg/kg	
			OU5-CTA-1C-5058SegS-(140,80)	11/29/2001	5.2	mg/kg	
			OU5-CTA-1C-5058SegS-(160,100)	11/29/2001	6.5	mg/kg	
			OU5-CTA-1C-5058SegS-(20,100)	11/29/2001	7	mg/kg	
			OU5-CTA-1C-5058SegS-(20,120)	11/29/2001	3.8	mg/kg	
			OU5-CTA-1C-5058SegS-(20,60)	11/29/2001	11.2	mg/kg	
			OU5-CTA-1C-5058SegS-(20,80)	11/29/2001	3.6	mg/kg	
			OU5-CTA-1C-5058SegS-(40,100)	11/29/2001	14.5	mg/kg	
			OU5-CTA-1C-5058SegS-(40,120)	11/29/2001	2.6	mg/kg	
			OU5-CTA-1C-5058SegS-(40,40)	11/29/2001	6.1	mg/kg	
			OU5-CTA-1C-5058SegS-(40,60)	11/29/2001	6	mg/kg	
			OU5-CTA-1C-5058SegS-(40,80)	11/29/2001	5.3	mg/kg	
			OU5-CTA-1C-5058SegS-(60,100)	11/29/2001	2.5	mg/kg	
			OU5-CTA-1C-5058SegS-(60,120)	11/29/2001	3.8	mg/kg	
			OU5-CTA-1C-5058SegS-(60,20)	11/29/2001	6.4	mg/kg	
			OU5-CTA-1C-5058SegS-(60,40)	11/29/2001	7.5	mg/kg	
			OU5-CTA-1C-5058SegS-(60,60)	11/29/2001	5.7	mg/kg	
			OU5-CTA-1C-5058SegS-(60,80)	11/29/2001	2.2 J	mg/kg	
			OU5-CTA-1C-5058SegS-(80,100)	11/29/2001	7	mg/kg	
			OU5-CTA-1C-5058SegS-(80,120)	11/29/2001	7.7	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5058SegS-(80,20)	11/29/2001	7.9	mg/kg	
			OU5-CTA-1C-5058SegS-(80,40)	11/29/2001	4.1	mg/kg	
			OU5-CTA-1C-5058SegS-(80,60)	11/29/2001	7.2	mg/kg	
			OU5-CTA-1C-5058SegS-DUP01	11/29/2001	12	mg/kg	OU5-CTA-1C-5058SegS-(100,60)
			OU5-CTA-1C-5058SegS-DUP02	11/29/2001	6.4	mg/kg	OU5-CTA-1C-5058SegS-(40,80)
CSA	*12*	*5060 Overlook Road*					
			OU5-CSA-12-5060OR-(100,100)	1/2/2002	9.7	mg/kg	
			OU5-CSA-12-5060OR-(100,120)	1/2/2002	13.5	mg/kg	
			OU5-CSA-12-5060OR-(100,140)	1/2/2002	24.4	mg/kg	
			OU5-CSA-12-5060OR-(100,160)	1/2/2002	8.9	mg/kg	
			OU5-CSA-12-5060OR-(100,20)	1/2/2002	1.8 J	mg/kg	
			OU5-CSA-12-5060OR-(100,40)	1/2/2002	10.6	mg/kg	
			OU5-CSA-12-5060OR-(100,60)	1/2/2002	4.3	mg/kg	
			OU5-CSA-12-5060OR-(120,0)	1/2/2002	4	mg/kg	
			OU5-CSA-12-5060OR-(120,120)	1/2/2002	16.2	mg/kg	
			OU5-CSA-12-5060OR-(120,140)	1/2/2002	16.1	mg/kg	
			OU5-CSA-12-5060OR-(120,160)	1/2/2002	36.6	mg/kg	
			OU5-CSA-12-5060OR-(120,20)	1/2/2002	9.3	mg/kg	
			OU5-CSA-12-5060OR-(120,40)	1/2/2002	5.1	mg/kg	
			OU5-CSA-12-5060OR-(120,60)	1/2/2002	6.6	mg/kg	
			OU5-CSA-12-5060OR-(140,100)	1/2/2002	8.2	mg/kg	
			OU5-CSA-12-5060OR-(140,120)	1/2/2002	11.7	mg/kg	
			OU5-CSA-12-5060OR-(140,140)	1/2/2002	4.4	mg/kg	
			OU5-CSA-12-5060OR-(140,20)	1/2/2002	3.1	mg/kg	
			OU5-CSA-12-5060OR-(140,40)	1/2/2002	5.1	mg/kg	
			OU5-CSA-12-5060OR-(140,60)	1/2/2002	5.7	mg/kg	
			OU5-CSA-12-5060OR-(140,80)	1/2/2002	7.9	mg/kg	
			OU5-CSA-12-5060OR-(160,100)	1/2/2002	8	mg/kg	
			OU5-CSA-12-5060OR-(160,120)	1/2/2002	8.1	mg/kg	
			OU5-CSA-12-5060OR-(160,80)	1/2/2002	4.8	mg/kg	
			OU5-CSA-12-5060OR-(20,100)	1/2/2002	5.7	mg/kg	
			OU5-CSA-12-5060OR-(20,20)	1/2/2002	49.7	mg/kg	
			OU5-CSA-12-5060OR-(20,40)	1/2/2002	2.2 J	mg/kg	
			OU5-CSA-12-5060OR-(20,60)	1/2/2002	8.8	mg/kg	
			OU5-CSA-12-5060OR-(20,80)	1/2/2002	3.2	mg/kg	
			OU5-CSA-12-5060OR-(40,100)	1/2/2002	5	mg/kg	
			OU5-CSA-12-5060OR-(40,120)	1/2/2002	1.5 J	mg/kg	
			OU5-CSA-12-5060OR-(40,140)	1/2/2002	2.9	mg/kg	
			OU5-CSA-12-5060OR-(40,160)	1/2/2002	2.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match
			OU5-CSA-12-5060OR-(40,20)	1/2/2002	15.8		mg/kg	
			OU5-CSA-12-5060OR-(40,40)	1/2/2002	9.8		mg/kg	
			OU5-CSA-12-5060OR-(40,60)	1/2/2002	13.1		mg/kg	
			OU5-CSA-12-5060OR-(40,80)	1/2/2002	6.4		mg/kg	
			OU5-CSA-12-5060OR-(60,100)	1/2/2002	2.7		mg/kg	
			OU5-CSA-12-5060OR-(60,120)	1/2/2002	5.7		mg/kg	
			OU5-CSA-12-5060OR-(60,140)	1/2/2002	11.1		mg/kg	
			OU5-CSA-12-5060OR-(60,160)	1/2/2002	4.8		mg/kg	
			OU5-CSA-12-5060OR-(60,180)	1/2/2002	3.4		mg/kg	
			OU5-CSA-12-5060OR-(60,20)	1/2/2002	11.4		mg/kg	
			OU5-CSA-12-5060OR-(60,40)	1/2/2002	5.5		mg/kg	
			OU5-CSA-12-5060OR-(60,60)	1/2/2002	8		mg/kg	
			OU5-CSA-12-5060OR-(80,100)	1/2/2002	14.8		mg/kg	
			OU5-CSA-12-5060OR-(80,120)	1/2/2002	9.6		mg/kg	
			OU5-CSA-12-5060OR-(80,140)	1/2/2002	11.4		mg/kg	
			OU5-CSA-12-5060OR-(80,160)	1/2/2002	15.1		mg/kg	
			OU5-CSA-12-5060OR-(80,180)	1/2/2002	4.9		mg/kg	
			OU5-CSA-12-5060OR-(80,20)	1/2/2002	3.9		mg/kg	
			OU5-CSA-12-5060OR-(80,40)	1/2/2002	3.8		mg/kg	
			OU5-CSA-12-5060OR-(80,60)	1/2/2002	6.8		mg/kg	
			OU5-CSA-12-5060OR-DUP01	1/2/2002	9.8		mg/kg	OU5-CSA-12-5060OR-(80,120)
			OU5-CSA-12-5060OR-DUP02	1/2/2002	12.2		mg/kg	OU5-CSA-12-5060OR-(60,20)
			OU5-CSA-12-5060OR-DUP03	1/2/2002	5.5		mg/kg	OU5-CSA-12-5060OR-(120,40)
			OU5-CSA-12-5060OR-SB1	1/7/2002	3.8		mg/kg	
CSA	12	5063 Loughboro Road						
			OU5-CSA-12-5063LR-(0,120)	12/19/2002	11.5	\2	mg/kg	
			OU5-CSA-12-5063LR-(0,140)	12/19/2002	7	\2	mg/kg	
			OU5-CSA-12-5063LR-(0,160)	12/19/2002	3.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,100)	12/19/2002	5.3	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,140)	12/19/2002	5.7	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,160)	12/19/2002	13	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,180)	12/19/2002	15.5	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,20)	12/19/2002	5.7	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,200)	12/19/2002	8.8	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,220)	12/19/2002	3.4	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,40)	12/19/2002	10	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,60)	12/19/2002	3.9	\2	mg/kg	
			OU5-CSA-12-5063LR-(100,80)	12/19/2002	5.6	\2	mg/kg	
			OU5-CSA-12-5063LR-(120,100)	12/19/2002	4.6	\2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1		Units	Duplicate Match
			OU5-CSA-12-5063LR-(120,120)	12/19/2002	3.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(120,140)	12/19/2002	10.6	\2	mg/kg	
			OU5-CSA-12-5063LR-(120,160)	12/19/2002	6.6	\2	mg/kg	
			OU5-CSA-12-5063LR-(120,180)	12/19/2002	27.1	\2	mg/kg	
			OU5-CSA-12-5063LR-(120,200)	12/19/2002	22.1	\2	mg/kg	
			OU5-CSA-12-5063LR-(120,40)	12/19/2002	13.1	\2	mg/kg	
			OU5-CSA-12-5063LR-(120,80)	12/19/2002	8.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(140,100)	12/19/2002	5.3	\2	mg/kg	
			OU5-CSA-12-5063LR-(140,120)	12/19/2002	4.7	\2	mg/kg	
			OU5-CSA-12-5063LR-(140,140)	12/19/2002	4.8	\2	mg/kg	
			OU5-CSA-12-5063LR-(140,160)	12/19/2002	5.1	\2	mg/kg	
			OU5-CSA-12-5063LR-(140,40)	12/19/2002	7.9	\2	mg/kg	
			OU5-CSA-12-5063LR-(140,60)	12/19/2002	6	\2	mg/kg	
			OU5-CSA-12-5063LR-(140,80)	12/19/2002	7.5	\2	mg/kg	
			OU5-CSA-12-5063LR-(160,100)	12/19/2002	4.3	\2	mg/kg	
			OU5-CSA-12-5063LR-(160,120)	12/19/2002	7.4	\2	mg/kg	
			OU5-CSA-12-5063LR-(160,40)	12/19/2002	5.5	\2	mg/kg	
			OU5-CSA-12-5063LR-(160,60)	12/19/2002	5.3	\2	mg/kg	
			OU5-CSA-12-5063LR-(160,80)	12/19/2002	6	\2	mg/kg	
			OU5-CSA-12-5063LR-(180,100)	12/19/2002	14.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(180,60)	12/19/2002	5.5	\2	mg/kg	
			OU5-CSA-12-5063LR-(180,80)	12/19/2002	3	\2	mg/kg	
			OU5-CSA-12-5063LR-(20,100)	12/19/2002	6.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(20,120)	12/19/2002	6.5	\2	mg/kg	
			OU5-CSA-12-5063LR-(20,140)	12/19/2002	8.7	\2	mg/kg	
			OU5-CSA-12-5063LR-(20,160)	12/19/2002	3.9	\2	mg/kg	
			OU5-CSA-12-5063LR-(20,60)	12/19/2002	3.8	\2	mg/kg	
			OU5-CSA-12-5063LR-(20,80)	12/19/2002	2.7	\2	mg/kg	
			OU5-CSA-12-5063LR-(200,100)	12/19/2002	3.9	\2	mg/kg	
			OU5-CSA-12-5063LR-(200,60)	12/19/2002	3.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(200,80)	12/19/2002	3.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(220,100)	12/19/2002	5.6	\2	mg/kg	
			OU5-CSA-12-5063LR-(220,60)	12/19/2002	8.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(220,80)	12/19/2002	16.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(40,100)	12/19/2002	5.2	\2	mg/kg	
			OU5-CSA-12-5063LR-(40,120)	12/19/2002	5.7	\2	mg/kg	
			OU5-CSA-12-5063LR-(40,140)	12/19/2002	4.5	\2	mg/kg	
			OU5-CSA-12-5063LR-(40,160)	12/19/2002	4.8	\2	mg/kg	
			OU5-CSA-12-5063LR-(40,180)	12/19/2002	2.7	\2	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-5063LR-(40,20)	12/19/2002	3.5 \2	mg/kg	
			OU5-CSA-12-5063LR-(40,40)	12/19/2002	3 \2	mg/kg	
			OU5-CSA-12-5063LR-(40,60)	12/19/2002	2.8 \2	mg/kg	
			OU5-CSA-12-5063LR-(40,80)	12/19/2002	6.3 \2	mg/kg	
			OU5-CSA-12-5063LR-(60,100)	12/19/2002	6.3 \2	mg/kg	
			OU5-CSA-12-5063LR-(60,120)	12/19/2002	11.6 \2	mg/kg	
			OU5-CSA-12-5063LR-(60,140)	12/19/2002	7.9 \2	mg/kg	
			OU5-CSA-12-5063LR-(60,160)	12/19/2002	11.2 \2	mg/kg	
			OU5-CSA-12-5063LR-(60,180)	12/19/2002	2.6 \2	mg/kg	
			OU5-CSA-12-5063LR-(60,20)	12/19/2002	8.9 \2	mg/kg	
			OU5-CSA-12-5063LR-(60,40)	12/19/2002	11.4 \2	mg/kg	
			OU5-CSA-12-5063LR-(60,60)	12/19/2002	6.6 \2	mg/kg	
			OU5-CSA-12-5063LR-(60,80)	12/19/2002	8.1 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,100)	12/19/2002	6.8 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,120)	12/19/2002	6.7 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,140)	12/19/2002	10.9 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,160)	12/19/2002	6.5 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,180)	12/19/2002	9.5 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,20)	12/19/2002	3.6 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,200)	12/19/2002	7 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,40)	12/19/2002	10 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,60)	12/19/2002	7 \2	mg/kg	
			OU5-CSA-12-5063LR-(80,80)	12/19/2002	5.8 \2	mg/kg	
			OU5-CSA-12-5063LR-DUP01	12/19/2002	6.2 \2	mg/kg	OU5-CSA-12-5063LR-(40,80)
			OU5-CSA-12-5063LR-DUP02	12/19/2002	10.7 \2	mg/kg	OU5-CSA-12-5063LR-(20,140)
			OU5-CSA-12-5063LR-DUP03	12/19/2002	8.7 \2	mg/kg	OU5-CSA-12-5063LR-(140,40)
			OU5-CSA-12-5063LR-DUP04	12/19/2002	10.9 \2	mg/kg	OU5-CSA-12-5063LR-(120,140)
			OU5-CSA-12-5063LR-SB1	12/19/2002	2.1 \2	mg/kg	
CSA	12	5069 Overlook Road					
			OU5-CSA-12-5069OR-(100,0)	11/13/2001	1.8 J	mg/kg	
			OU5-CSA-12-5069OR-(100,100)	11/13/2001	5.1	mg/kg	
			OU5-CSA-12-5069OR-(100,120)	11/13/2001	4.2	mg/kg	
			OU5-CSA-12-5069OR-(100,140)	11/13/2001	2.8	mg/kg	
			OU5-CSA-12-5069OR-(100,20)	11/13/2001	2.1	mg/kg	
			OU5-CSA-12-5069OR-(100,40)	11/13/2001	2.3 J	mg/kg	
			OU5-CSA-12-5069OR-(100,80)	11/13/2001	5.9	mg/kg	
			OU5-CSA-12-5069OR-(120,0)	11/13/2001	3.2	mg/kg	
			OU5-CSA-12-5069OR-(120,100)	11/13/2001	42.2	mg/kg	
			OU5-CSA-12-5069OR-(120,120)	11/13/2001	2.8 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-12-5069OR-(120,140)	11/13/2001	8.2	mg/kg	
			OU5-CSA-12-5069OR-(120,20)	11/13/2001	2.7	mg/kg	
			OU5-CSA-12-5069OR-(120,40)	11/13/2001	1.9 J	mg/kg	
			OU5-CSA-12-5069OR-(120,60)	11/13/2001	1.7 J	mg/kg	
			OU5-CSA-12-5069OR-(120,80)	11/13/2001	18.6	mg/kg	
			OU5-CSA-12-5069OR-(140,100)	11/13/2001	2 J	mg/kg	
			OU5-CSA-12-5069OR-(140,120)	11/13/2001	3.3	mg/kg	
			OU5-CSA-12-5069OR-(140,140)	11/13/2001	3.1	mg/kg	
			OU5-CSA-12-5069OR-(140,80)	11/13/2001	1.6 J	mg/kg	
			OU5-CSA-12-5069OR-(20,40)	11/13/2001	1.8 J	mg/kg	
			OU5-CSA-12-5069OR-(20,60)	11/13/2001	2.4	mg/kg	
			OU5-CSA-12-5069OR-(20,80)	11/13/2001	2.3	mg/kg	
			OU5-CSA-12-5069OR-(40,100)	11/13/2001	2.8	mg/kg	
			OU5-CSA-12-5069OR-(40,40)	11/13/2001	2.2	mg/kg	
			OU5-CSA-12-5069OR-(40,60)	11/13/2001	2.3	mg/kg	
			OU5-CSA-12-5069OR-(40,80)	11/13/2001	2.1	mg/kg	
			OU5-CSA-12-5069OR-(60,100)	11/13/2001	9.2	mg/kg	
			OU5-CSA-12-5069OR-(60,20)	11/13/2001	1.4 J	mg/kg	
			OU5-CSA-12-5069OR-(60,40)	11/13/2001	1.4 J	mg/kg	
			OU5-CSA-12-5069OR-(60,60)	11/13/2001	2.1 J	mg/kg	
			OU5-CSA-12-5069OR-(60,80)	11/13/2001	1.9 J	mg/kg	
			OU5-CSA-12-5069OR-(80,100)	11/13/2001	3.2	mg/kg	
			OU5-CSA-12-5069OR-(80,120)	11/13/2001	3	mg/kg	
			OU5-CSA-12-5069OR-(80,20)	11/13/2001	2.4	mg/kg	
			OU5-CSA-12-5069OR-(80,40)	11/13/2001	1.6 J	mg/kg	
			OU5-CSA-12-5069OR-(80,60)	11/13/2001	2.6 J	mg/kg	
			OU5-CSA-12-5069OR-DUP01	11/13/2001	2.7	mg/kg	OU5-CSA-12-5069OR-(80,20)
			OU5-CSA-12-5069OR-DUP02	11/13/2001	2.6	mg/kg	OU5-CSA-12-5069OR-(120,20)
			OU5-CSA-12-5069OR-SB1	11/13/2001	0.68 J	mg/kg	
CTA	1B	5100 Upton Street					
			OU5-CTA-1B-5100US-(100,120)	11/13/2001	6.5	mg/kg	
			OU5-CTA-1B-5100US-(100,140)	11/13/2001	27	mg/kg	
			OU5-CTA-1B-5100US-(100,20)	11/13/2001	3.2	mg/kg	
			OU5-CTA-1B-5100US-(100,40)	11/13/2001	6.8	mg/kg	
			OU5-CTA-1B-5100US-(100,60)	11/13/2001	4.3	mg/kg	
			OU5-CTA-1B-5100US-(100,80)	11/13/2001	2.5	mg/kg	
			OU5-CTA-1B-5100US-(120,100)	11/13/2001	14.3	mg/kg	
			OU5-CTA-1B-5100US-(120,120)	11/13/2001	21.2	mg/kg	
			OU5-CTA-1B-5100US-(120,140)	11/13/2001	5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1B-5100US-(120,20)	11/13/2001	3.4	mg/kg	
			OU5-CTA-1B-5100US-(120,40)	11/13/2001	15.3	mg/kg	
			OU5-CTA-1B-5100US-(120,60)	11/13/2001	3.9	mg/kg	
			OU5-CTA-1B-5100US-(140,100)	11/13/2001	6.1	mg/kg	
			OU5-CTA-1B-5100US-(140,120)	11/13/2001	9.8	mg/kg	
			OU5-CTA-1B-5100US-(140,140)	11/13/2001	2.6	mg/kg	
			OU5-CTA-1B-5100US-(140,20)	11/13/2001	4	mg/kg	
			OU5-CTA-1B-5100US-(140,40)	11/13/2001	3.2	mg/kg	
			OU5-CTA-1B-5100US-(140,60)	11/13/2001	16.5	mg/kg	
			OU5-CTA-1B-5100US-(140,80)	11/13/2001	5.4	mg/kg	
			OU5-CTA-1B-5100US-(20,100)	11/13/2001	5.5	mg/kg	
			OU5-CTA-1B-5100US-(20,120)	11/13/2001	6.2	mg/kg	
			OU5-CTA-1B-5100US-(40,100)	11/13/2001	9.1	mg/kg	
			OU5-CTA-1B-5100US-(40,120)	11/13/2001	3.4	mg/kg	
			OU5-CTA-1B-5100US-(40,40)	11/13/2001	12.3	mg/kg	
			OU5-CTA-1B-5100US-(40,60)	11/13/2001	13.7	mg/kg	
			OU5-CTA-1B-5100US-(40,80)	11/13/2001	11.2	mg/kg	
			OU5-CTA-1B-5100US-(60,100)	11/13/2001	1.8 J	mg/kg	
			OU5-CTA-1B-5100US-(60,140)	11/13/2001	1.8 J	mg/kg	
			OU5-CTA-1B-5100US-(60,20)	11/13/2001	7.5	mg/kg	
			OU5-CTA-1B-5100US-(60,40)	11/13/2001	18.6	mg/kg	
			OU5-CTA-1B-5100US-(60,60)	11/13/2001	11.5	mg/kg	
			OU5-CTA-1B-5100US-(60,80)	11/13/2001	15.8	mg/kg	
			OU5-CTA-1B-5100US-(80,100)	11/13/2001	3.2	mg/kg	
			OU5-CTA-1B-5100US-(80,120)	11/13/2001	15.1	mg/kg	
			OU5-CTA-1B-5100US-(80,140)	11/13/2001	51.2	mg/kg	
			OU5-CTA-1B-5100US-(80,20)	11/13/2001	4.1	mg/kg	
			OU5-CTA-1B-5100US-(80,40)	11/13/2001	11.5	mg/kg	
			OU5-CTA-1B-5100US-(80,60)	11/13/2001	17.6	mg/kg	
			OU5-CTA-1B-5100US-(80,80)	11/13/2001	4.4	mg/kg	
			OU5-CTA-1B-5100US-DUP01	11/13/2001	7.3	mg/kg	OU5-CTA-1B-5100US-(140,100)
			OU5-CTA-1B-5100US-DUP02	11/13/2001	3	mg/kg	OU5-CTA-1B-5100US-(40,120)
CTA	1A	5114 52nd Street					
			OU5-CTA-1A-5114(52)-(100,0)	12/11/2001	4.5	mg/kg	
			OU5-CTA-1A-5114(52)-(100,20)	12/11/2001	3.4	mg/kg	
			OU5-CTA-1A-5114(52)-(100,40)	12/11/2001	10.4	mg/kg	
			OU5-CTA-1A-5114(52)-(100,60)	12/11/2001	4.7	mg/kg	
			OU5-CTA-1A-5114(52)-(100,80)	12/11/2001	3.8	mg/kg	
			OU5-CTA-1A-5114(52)-(120,40)	12/11/2001	4.9	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1A-5114(52)-(120,60)	12/11/2001	1.4 J	mg/kg	
			OU5-CTA-1A-5114(52)-(20,0)	12/11/2001	3.8	mg/kg	
			OU5-CTA-1A-5114(52)-(20,20)	12/11/2001	3.7	mg/kg	
			OU5-CTA-1A-5114(52)-(20,40)	12/11/2001	5.1	mg/kg	
			OU5-CTA-1A-5114(52)-(20,60)	12/11/2001	6.6	mg/kg	
			OU5-CTA-1A-5114(52)-(40,0)	12/11/2001	2.9	mg/kg	
			OU5-CTA-1A-5114(52)-(40,20)	12/11/2001	4.3	mg/kg	
			OU5-CTA-1A-5114(52)-(40,40)	12/11/2001	2.5 J	mg/kg	
			OU5-CTA-1A-5114(52)-(40,60)	12/11/2001	1.1 J	mg/kg	
			OU5-CTA-1A-5114(52)-(40,80)	12/11/2001	7.5	mg/kg	
			OU5-CTA-1A-5114(52)-(60,0)	12/11/2001	2.2 J	mg/kg	
			OU5-CTA-1A-5114(52)-(60,100)	12/11/2001	7.6	mg/kg	
			OU5-CTA-1A-5114(52)-(60,20)	12/11/2001	3.5	mg/kg	
			OU5-CTA-1A-5114(52)-(60,60)	12/11/2001	1.2 J	mg/kg	
			OU5-CTA-1A-5114(52)-(60,80)	12/11/2001	1.7 J	mg/kg	
			OU5-CTA-1A-5114(52)-(80,0)	12/11/2001	4.4	mg/kg	
			OU5-CTA-1A-5114(52)-(80,100)	12/11/2001	13.8	mg/kg	
			OU5-CTA-1A-5114(52)-(80,20)	12/11/2001	1.6 J	mg/kg	
			OU5-CTA-1A-5114(52)-(80,40)	12/11/2001	1.7 J	mg/kg	
			OU5-CTA-1A-5114(52)-(80,80)	12/11/2001	5.1	mg/kg	
			OU5-CTA-1A-5114(52)-DUP01	12/11/2001	8.2	mg/kg	OU5-CTA-1A-5114(52)-(100,40)
CTA	1B	5120 Rockwood Parkway					
			OU5-CTA-1B-5120RP-(100,100)	2/27/2002	12.9	mg/kg	
			OU5-CTA-1B-5120RP-(100,120)	2/27/2002	4.3	mg/kg	
			OU5-CTA-1B-5120RP-(100,140)	2/27/2002	2.2	mg/kg	
			OU5-CTA-1B-5120RP-(100,160)	2/27/2002	0.97 J	mg/kg	
			OU5-CTA-1B-5120RP-(100,180)	2/27/2002	2.8 J	mg/kg	
			OU5-CTA-1B-5120RP-(100,20)	2/27/2002	20.7	mg/kg	
			OU5-CTA-1B-5120RP-(100,200)	2/27/2002	2.5 J	mg/kg	
			OU5-CTA-1B-5120RP-(100,40)	2/27/2002	13.1	mg/kg	
			OU5-CTA-1B-5120RP-(100,60)	2/27/2002	32.6	mg/kg	
			OU5-CTA-1B-5120RP-(100,80)	2/27/2002	16.2	mg/kg	
			OU5-CTA-1B-5120RP-(120,120)	2/27/2002	2.6	mg/kg	
			OU5-CTA-1B-5120RP-(120,140)	2/27/2002	13.8	mg/kg	
			OU5-CTA-1B-5120RP-(120,180)	2/27/2002	2 J	mg/kg	
			OU5-CTA-1B-5120RP-(120,20)	2/27/2002	10	mg/kg	
			OU5-CTA-1B-5120RP-(120,200)	2/27/2002	7.8	mg/kg	
			OU5-CTA-1B-5120RP-(120,40)	2/27/2002	9.8	mg/kg	
			OU5-CTA-1B-5120RP-(120,60)	2/27/2002	6.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1B-5120RP-(120,80)	2/27/2002	3.3	mg/kg	
			OU5-CTA-1B-5120RP-(140,100)	2/27/2002	2.3	mg/kg	
			OU5-CTA-1B-5120RP-(140,120)	2/27/2002	6.9	mg/kg	
			OU5-CTA-1B-5120RP-(140,140)	2/27/2002	7.5	mg/kg	
			OU5-CTA-1B-5120RP-(140,160)	2/27/2002	2.6	mg/kg	
			OU5-CTA-1B-5120RP-(140,180)	2/27/2002	6	mg/kg	
			OU5-CTA-1B-5120RP-(140,200)	2/27/2002	3	mg/kg	
			OU5-CTA-1B-5120RP-(140,40)	2/27/2002	11.6	mg/kg	
			OU5-CTA-1B-5120RP-(140,60)	2/27/2002	6.1	mg/kg	
			OU5-CTA-1B-5120RP-(140,80)	2/27/2002	10	mg/kg	
			OU5-CTA-1B-5120RP-(160,100)	2/27/2002	5.1	mg/kg	
			OU5-CTA-1B-5120RP-(160,120)	2/27/2002	3.3	mg/kg	
			OU5-CTA-1B-5120RP-(160,140)	2/27/2002	4.3	mg/kg	
			OU5-CTA-1B-5120RP-(160,160)	2/27/2002	4.1	mg/kg	
			OU5-CTA-1B-5120RP-(160,40)	2/27/2002	5	mg/kg	
			OU5-CTA-1B-5120RP-(160,60)	2/27/2002	9.6	mg/kg	
			OU5-CTA-1B-5120RP-(160,80)	2/27/2002	6.6	mg/kg	
			OU5-CTA-1B-5120RP-(180,100)	2/27/2002	4.1	mg/kg	
			OU5-CTA-1B-5120RP-(180,120)	2/27/2002	2.2	mg/kg	
			OU5-CTA-1B-5120RP-(180,60)	2/27/2002	4.3	mg/kg	
			OU5-CTA-1B-5120RP-(180,80)	2/27/2002	3.9	mg/kg	
			OU5-CTA-1B-5120RP-(200,80)	2/27/2002	7.7	mg/kg	
			OU5-CTA-1B-5120RP-(40,140)	2/27/2002	3.7	mg/kg	
			OU5-CTA-1B-5120RP-(40,160)	2/27/2002	3.7	mg/kg	
			OU5-CTA-1B-5120RP-(40,180)	2/27/2002	4.4	mg/kg	
			OU5-CTA-1B-5120RP-(60,100)	2/27/2002	4.1	mg/kg	
			OU5-CTA-1B-5120RP-(60,120)	2/27/2002	0.96 J	mg/kg	
			OU5-CTA-1B-5120RP-(60,140)	2/27/2002	2.9 J	mg/kg	
			OU5-CTA-1B-5120RP-(60,160)	2/27/2002	2.9	mg/kg	
			OU5-CTA-1B-5120RP-(60,180)	2/27/2002	3.6	mg/kg	
			OU5-CTA-1B-5120RP-(80,100)	2/27/2002	3.9	mg/kg	
			OU5-CTA-1B-5120RP-(80,120)	2/27/2002	3.3	mg/kg	
			OU5-CTA-1B-5120RP-(80,140)	2/27/2002	1.6	mg/kg	
			OU5-CTA-1B-5120RP-(80,160)	2/27/2002	0.91 J	mg/kg	
			OU5-CTA-1B-5120RP-(80,180)	2/27/2002	2.8	mg/kg	
			OU5-CTA-1B-5120RP-(80,60)	2/27/2002	7.1	mg/kg	
			OU5-CTA-1B-5120RP-(80,80)	2/27/2002	3.3	mg/kg	
			OU5-CTA-1B-5120RP-DUP01	2/27/2002	4.4	mg/kg	OU5-CTA-1B-5120RP-(180,100)
			OU5-CTA-1B-5120RP-DUP02	2/27/2002	3.6	mg/kg	OU5-CTA-1B-5120RP-(160,140)

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
CSA	2	5123 Warren Place					
			OU5-CSA-2-5123WP-(100,100)	2/21/2002	2	mg/kg	
			OU5-CSA-2-5123WP-(100,120)	2/21/2002	7	mg/kg	
			OU5-CSA-2-5123WP-(100,40)	2/21/2002	1.7 J	mg/kg	
			OU5-CSA-2-5123WP-(100,80)	2/21/2002	1.9	mg/kg	
			OU5-CSA-2-5123WP-(120,100)	2/21/2002	2.1	mg/kg	
			OU5-CSA-2-5123WP-(120,120)	2/21/2002	2	mg/kg	
			OU5-CSA-2-5123WP-(120,20)	2/21/2002	3.1	mg/kg	
			OU5-CSA-2-5123WP-(120,40)	2/21/2002	2	mg/kg	
			OU5-CSA-2-5123WP-(120,60)	2/21/2002	1.2 J	mg/kg	
			OU5-CSA-2-5123WP-(120,80)	2/21/2002	1.2 J	mg/kg	
			OU5-CSA-2-5123WP-(140,100)	2/21/2002	1.5 J	mg/kg	
			OU5-CSA-2-5123WP-(140,40)	2/21/2002	2.3	mg/kg	
			OU5-CSA-2-5123WP-(140,60)	2/21/2002	1.5 J	mg/kg	
			OU5-CSA-2-5123WP-(140,80)	2/21/2002	1.3 J	mg/kg	
			OU5-CSA-2-5123WP-(160,80)	2/21/2002	1.6	mg/kg	
			OU5-CSA-2-5123WP-(20,80)	2/21/2002	1.2 J	mg/kg	
			OU5-CSA-2-5123WP-(40,100)	2/21/2002	1.7	mg/kg	
			OU5-CSA-2-5123WP-(40,120)	2/21/2002	2.4	mg/kg	
			OU5-CSA-2-5123WP-(40,60)	2/21/2002	3.2	mg/kg	
			OU5-CSA-2-5123WP-(40,80)	2/21/2002	1.6	mg/kg	
			OU5-CSA-2-5123WP-(60,100)	2/21/2002	2.9	mg/kg	
			OU5-CSA-2-5123WP-(60,120)	2/21/2002	1.6 J	mg/kg	
			OU5-CSA-2-5123WP-(60,140)	2/21/2002	1.5 J	mg/kg	
			OU5-CSA-2-5123WP-(60,60)	2/21/2002	2.3	mg/kg	
			OU5-CSA-2-5123WP-(60,80)	2/21/2002	1.4 J	mg/kg	
			OU5-CSA-2-5123WP-(80,100)	2/21/2002	1.6	mg/kg	
			OU5-CSA-2-5123WP-(80,120)	2/21/2002	1.7 J	mg/kg	
			OU5-CSA-2-5123WP-(80,140)	2/21/2002	1.9	mg/kg	
			OU5-CSA-2-5123WP-(80,40)	2/21/2002	1.9	mg/kg	
			OU5-CSA-2-5123WP-(80,60)	2/21/2002	1.9 J	mg/kg	
			OU5-CSA-2-5123WP-(80,80)	2/21/2002	18.1	mg/kg	
			OU5-CSA-2-5123WP-DUP01	2/21/2002	2.2	mg/kg	OU5-CSA-2-5123WP-(140,60)
CTA	1C	5125 Upton Street					
			OU5-CTA-1C-5125US-(100,100)	1/9/2002	7.5	mg/kg	
			OU5-CTA-1C-5125US-(100,120)	1/9/2002	10.1	mg/kg	
			OU5-CTA-1C-5125US-(100,140)	1/9/2002	4.5	mg/kg	
			OU5-CTA-1C-5125US-(100,160)	1/9/2002	4.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5125US-(100,20)	1/9/2002	1.9	mg/kg	
			OU5-CTA-1C-5125US-(100,40)	1/9/2002	4.3	mg/kg	
			OU5-CTA-1C-5125US-(100,60)	1/9/2002	4.3	mg/kg	
			OU5-CTA-1C-5125US-(100,80)	1/9/2002	6.4	mg/kg	
			OU5-CTA-1C-5125US-(120,100)	1/9/2002	3.6	mg/kg	
			OU5-CTA-1C-5125US-(120,120)	1/9/2002	3.6	mg/kg	
			OU5-CTA-1C-5125US-(120,140)	1/9/2002	2.6	mg/kg	
			OU5-CTA-1C-5125US-(120,160)	1/9/2002	3.7	mg/kg	
			OU5-CTA-1C-5125US-(120,20)	1/9/2002	4.2	mg/kg	
			OU5-CTA-1C-5125US-(120,40)	1/9/2002	4.9	mg/kg	
			OU5-CTA-1C-5125US-(120,60)	1/9/2002	4.6	mg/kg	
			OU5-CTA-1C-5125US-(120,80)	1/9/2002	5.2	mg/kg	
			OU5-CTA-1C-5125US-(140,100)	1/9/2002	4.3	mg/kg	
			OU5-CTA-1C-5125US-(140,120)	1/9/2002	3.8	mg/kg	
			OU5-CTA-1C-5125US-(140,140)	1/9/2002	4.8	mg/kg	
			OU5-CTA-1C-5125US-(140,160)	1/9/2002	3	mg/kg	
			OU5-CTA-1C-5125US-(140,20)	1/9/2002	3.9	mg/kg	
			OU5-CTA-1C-5125US-(140,40)	1/9/2002	4.1	mg/kg	
			OU5-CTA-1C-5125US-(140,60)	1/9/2002	5.5	mg/kg	
			OU5-CTA-1C-5125US-(140,80)	1/9/2002	3.4	mg/kg	
			OU5-CTA-1C-5125US-(160,100)	1/9/2002	5.3	mg/kg	
			OU5-CTA-1C-5125US-(160,120)	1/9/2002	6.7	mg/kg	
			OU5-CTA-1C-5125US-(160,140)	1/9/2002	4.4	mg/kg	
			OU5-CTA-1C-5125US-(160,60)	1/9/2002	3.3	mg/kg	
			OU5-CTA-1C-5125US-(160,80)	1/9/2002	4.1	mg/kg	
			OU5-CTA-1C-5125US-(180,100)	1/9/2002	3.6	mg/kg	
			OU5-CTA-1C-5125US-(180,120)	1/9/2002	4.9	mg/kg	
			OU5-CTA-1C-5125US-(180,140)	1/9/2002	3.6	mg/kg	
			OU5-CTA-1C-5125US-(20,100)	1/9/2002	3.2	mg/kg	
			OU5-CTA-1C-5125US-(20,120)	1/9/2002	2.9	mg/kg	
			OU5-CTA-1C-5125US-(20,20)	1/9/2002	3.5	mg/kg	
			OU5-CTA-1C-5125US-(20,40)	1/9/2002	5.8	mg/kg	
			OU5-CTA-1C-5125US-(20,60)	1/9/2002	7	mg/kg	
			OU5-CTA-1C-5125US-(20,80)	1/9/2002	3.1	mg/kg	
			OU5-CTA-1C-5125US-(40,100)	1/9/2002	21.1	mg/kg	
			OU5-CTA-1C-5125US-(40,120)	1/9/2002	8.9	mg/kg	
			OU5-CTA-1C-5125US-(40,140)	1/9/2002	6.6	mg/kg	
			OU5-CTA-1C-5125US-(40,160)	1/9/2002	3.1	mg/kg	
			OU5-CTA-1C-5125US-(40,180)	1/9/2002	3.5	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5125US-(40,20)	1/9/2002	4.5	mg/kg	
			OU5-CTA-1C-5125US-(40,40)	1/9/2002	2.9	mg/kg	
			OU5-CTA-1C-5125US-(40,60)	1/9/2002	4	mg/kg	
			OU5-CTA-1C-5125US-(40,80)	1/9/2002	5.9	mg/kg	
			OU5-CTA-1C-5125US-(60,120)	1/9/2002	93.6	mg/kg	
			OU5-CTA-1C-5125US-(60,160)	1/9/2002	3.7	mg/kg	
			OU5-CTA-1C-5125US-(60,180)	1/9/2002	6.8	mg/kg	
			OU5-CTA-1C-5125US-(60,20)	1/9/2002	11.8	mg/kg	
			OU5-CTA-1C-5125US-(60,40)	1/9/2002	3.6	mg/kg	
			OU5-CTA-1C-5125US-(60,60)	1/9/2002	2.9	mg/kg	
			OU5-CTA-1C-5125US-(60,80)	1/9/2002	2.6	mg/kg	
			OU5-CTA-1C-5125US-(80,140)	1/9/2002	5.6	mg/kg	
			OU5-CTA-1C-5125US-(80,160)	1/9/2002	4	mg/kg	
			OU5-CTA-1C-5125US-(80,180)	1/9/2002	4.3	mg/kg	
			OU5-CTA-1C-5125US-(80,20)	1/9/2002	4.5	mg/kg	
			OU5-CTA-1C-5125US-(80,40)	1/9/2002	4.9	mg/kg	
			OU5-CTA-1C-5125US-(80,60)	1/9/2002	5.3	mg/kg	
			OU5-CTA-1C-5125US-(80,80)	1/9/2002	4.3	mg/kg	
			OU5-CTA-1C-5125US-DUP01	1/9/2002	4.5	mg/kg	OU5-CTA-1C-5125US-(40,20)
			OU5-CTA-1C-5125US-DUP02	1/9/2002	8.6	mg/kg	OU5-CTA-1C-5125US-(100,100)
			OU5-CTA-1C-5125US-DUP03	1/9/2002	4.7	mg/kg	OU5-CTA-1C-5125US-(160,140)
CSA	2	5131 Yuma Street					
			OU5-CSA-2-5131YS-(100,100)	12/20/2001	3.9 K	mg/kg	
			OU5-CSA-2-5131YS-(100,120)	12/20/2001	4.1 K	mg/kg	
			OU5-CSA-2-5131YS-(100,140)	12/20/2001	3.3 K	mg/kg	
			OU5-CSA-2-5131YS-(100,160)	12/20/2001	2.7 K	mg/kg	
			OU5-CSA-2-5131YS-(100,20)	12/20/2001	3.1 K	mg/kg	
			OU5-CSA-2-5131YS-(100,40)	12/20/2001	2.4 JK	mg/kg	
			OU5-CSA-2-5131YS-(100,80)	12/20/2001	50.7 K	mg/kg	
			OU5-CSA-2-5131YS-(120,100)	12/20/2001	6.9 K	mg/kg	
			OU5-CSA-2-5131YS-(120,120)	12/20/2001	3.1 K	mg/kg	
			OU5-CSA-2-5131YS-(120,140)	12/20/2001	2.5 K	mg/kg	
			OU5-CSA-2-5131YS-(120,160)	12/20/2001	3 JK	mg/kg	
			OU5-CSA-2-5131YS-(120,20)	12/20/2001	2.5 JK	mg/kg	
			OU5-CSA-2-5131YS-(120,40)	12/20/2001	3.1 JK	mg/kg	
			OU5-CSA-2-5131YS-(120,80)	12/20/2001	17.2 K	mg/kg	
			OU5-CSA-2-5131YS-(140,100)	12/20/2001	3.2 JK	mg/kg	
			OU5-CSA-2-5131YS-(140,120)	12/20/2001	2.2 JK	mg/kg	
			OU5-CSA-2-5131YS-(140,140)	12/20/2001	2.5 K	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-2-5131YS-(140,20)	12/20/2001	2 JK	mg/kg	
			OU5-CSA-2-5131YS-(140,40)	12/20/2001	3.9 K	mg/kg	
			OU5-CSA-2-5131YS-(140,80)	12/20/2001	5.8 K	mg/kg	
			OU5-CSA-2-5131YS-(160,100)	12/20/2001	2.6 K	mg/kg	
			OU5-CSA-2-5131YS-(160,120)	12/20/2001	1.8 JK	mg/kg	
			OU5-CSA-2-5131YS-(160,40)	12/20/2001	2.8 JK	mg/kg	
			OU5-CSA-2-5131YS-(160,60)	12/20/2001	3.1 JK	mg/kg	
			OU5-CSA-2-5131YS-(160,80)	12/20/2001	1.5 JK	mg/kg	
			OU5-CSA-2-5131YS-(180,100)	12/20/2001	1.8 JK	mg/kg	
			OU5-CSA-2-5131YS-(180,120)	12/20/2001	1.9 JK	mg/kg	
			OU5-CSA-2-5131YS-(180,60)	12/20/2001	2.6 JK	mg/kg	
			OU5-CSA-2-5131YS-(180,80)	12/20/2001	1.9 K	mg/kg	
			OU5-CSA-2-5131YS-(200,80)	12/20/2001	3.2 K	mg/kg	
			OU5-CSA-2-5131YS-(40,120)	12/20/2001	3.6 K	mg/kg	
			OU5-CSA-2-5131YS-(40,140)	12/20/2001	2.8 JK	mg/kg	
			OU5-CSA-2-5131YS-(40,160)	12/20/2001	1.4 JK	mg/kg	
			OU5-CSA-2-5131YS-(40,180)	12/20/2001	0.94 JK	mg/kg	
			OU5-CSA-2-5131YS-(60,100)	12/20/2001	2 JK	mg/kg	
			OU5-CSA-2-5131YS-(60,120)	12/20/2001	2.4 K	mg/kg	
			OU5-CSA-2-5131YS-(60,140)	12/20/2001	3.6 K	mg/kg	
			OU5-CSA-2-5131YS-(60,160)	12/20/2001	2.6 K	mg/kg	
			OU5-CSA-2-5131YS-(60,180)	12/20/2001	1.9 JK	mg/kg	
			OU5-CSA-2-5131YS-(60,200)	12/20/2001	2.7 K	mg/kg	
			OU5-CSA-2-5131YS-(60,80)	12/20/2001	3.5 JK	mg/kg	
			OU5-CSA-2-5131YS-(80,100)	12/20/2001	3.8 K	mg/kg	
			OU5-CSA-2-5131YS-(80,120)	12/20/2001	3 K	mg/kg	
			OU5-CSA-2-5131YS-(80,140)	12/20/2001	8.2 K	mg/kg	
			OU5-CSA-2-5131YS-(80,160)	12/20/2001	4 K	mg/kg	
			OU5-CSA-2-5131YS-(80,180)	12/20/2001	1.4 JK	mg/kg	
			OU5-CSA-2-5131YS-(80,40)	12/20/2001	3.7 K	mg/kg	
			OU5-CSA-2-5131YS-(80,60)	12/20/2001	3.5 K	mg/kg	
			OU5-CSA-2-5131YS-(80,80)	12/20/2001	2.7 K	mg/kg	
			OU5-CSA-2-5131YS-DUP01	12/20/2001	1.9 JK	mg/kg	OU5-CSA-2-5131YS-(80,180)
			OU5-CSA-2-5131YS-DUP02	12/20/2001	3.6 JK	mg/kg	OU5-CSA-2-5131YS-(100,140)
			OU5-CSA-2-5131YS-DUP03	12/20/2001	2.6 K	mg/kg	OU5-CSA-2-5131YS-(120,20)
			OU5-CSA-2-5131YS-SB1	12/17/2001	2.7	mg/kg	
CSA	2	5141 Yuma Street					
			OU5-CSA-2-5141YS-(100,100)	3/25/2002	8.5 K	mg/kg	
			OU5-CSA-2-5141YS-(100,120)	3/25/2002	79.4 K	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-2-5141YS-(100,140)	3/25/2002	6.7 K	mg/kg	
			OU5-CSA-2-5141YS-(100,20)	3/25/2002	4.1 K	mg/kg	
			OU5-CSA-2-5141YS-(100,40)	3/25/2002	3 K	mg/kg	
			OU5-CSA-2-5141YS-(120,100)	3/25/2002	3.8 K	mg/kg	
			OU5-CSA-2-5141YS-(120,120)	3/25/2002	3.2 K	mg/kg	
			OU5-CSA-2-5141YS-(120,40)	3/25/2002	3.2 K	mg/kg	
			OU5-CSA-2-5141YS-(120,60)	3/25/2002	1.8 K	mg/kg	
			OU5-CSA-2-5141YS-(120,80)	3/25/2002	2.8 JK	mg/kg	
			OU5-CSA-2-5141YS-(140,100)	3/25/2002	3.4 K	mg/kg	
			OU5-CSA-2-5141YS-(140,60)	3/25/2002	3.2 K	mg/kg	
			OU5-CSA-2-5141YS-(140,80)	3/25/2002	6.1 K	mg/kg	
			OU5-CSA-2-5141YS-(160,100)	3/25/2002	2.7 K	mg/kg	
			OU5-CSA-2-5141YS-(160,80)	3/25/2002	4.3 K	mg/kg	
			OU5-CSA-2-5141YS-(20,120)	3/25/2002	2.2 K	mg/kg	
			OU5-CSA-2-5141YS-(20,140)	3/25/2002	2 K	mg/kg	
			OU5-CSA-2-5141YS-(20,160)	3/25/2002	1.8 JK	mg/kg	
			OU5-CSA-2-5141YS-(40,100)	3/25/2002	3.2 K	mg/kg	
			OU5-CSA-2-5141YS-(40,160)	3/25/2002	2.1 K	mg/kg	
			OU5-CSA-2-5141YS-(40,80)	3/25/2002	10.3 K	mg/kg	
			OU5-CSA-2-5141YS-(60,100)	3/25/2002	6.3 K	mg/kg	
			OU5-CSA-2-5141YS-(60,120)	3/25/2002	2.9 K	mg/kg	
			OU5-CSA-2-5141YS-(60,140)	3/25/2002	3.5 K	mg/kg	
			OU5-CSA-2-5141YS-(60,160)	3/25/2002	2 K	mg/kg	
			OU5-CSA-2-5141YS-(60,60)	3/25/2002	7.1 K	mg/kg	
			OU5-CSA-2-5141YS-(60,80)	3/25/2002	4.7 K	mg/kg	
			OU5-CSA-2-5141YS-(80,100)	3/25/2002	65.4 K	mg/kg	
			OU5-CSA-2-5141YS-(80,120)	3/25/2002	4.4 K	mg/kg	
			OU5-CSA-2-5141YS-(80,140)	3/25/2002	5.1 K	mg/kg	
			OU5-CSA-2-5141YS-(80,40)	3/25/2002	3.4 K	mg/kg	
			OU5-CSA-2-5141YS-(80,60)	3/25/2002	6.4 K	mg/kg	
			OU5-CSA-2-5141YS-(80,80)	3/25/2002	32.2 K	mg/kg	
			OU5-CSA-2-5141YS-DUP01	3/25/2002	3.3 K	mg/kg	OU5-CSA-2-5141YS-(120,40)
			OU5-CSA-2-5141YS-DUP02	3/25/2002	6.3 K	mg/kg	OU5-CSA-2-5141YS-(60,100)
			OU5-CSA-2-5141YS-SB1	3/27/2002	1.8	mg/kg	
CSA	2	5145 Yuma Street					
			OU5-CSA-2-5145YS-(100,100)	1/29/2002	1.5 J	mg/kg	
			OU5-CSA-2-5145YS-(100,120)	1/29/2002	1.8	mg/kg	
			OU5-CSA-2-5145YS-(100,40)	1/29/2002	3.2	mg/kg	
			OU5-CSA-2-5145YS-(100,60)	1/29/2002	2.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-2-5145YS-(100,80)	1/29/2002	8	mg/kg	
			OU5-CSA-2-5145YS-(120,40)	1/29/2002	5.9	mg/kg	
			OU5-CSA-2-5145YS-(120,60)	1/29/2002	51.4	mg/kg	
			OU5-CSA-2-5145YS-(120,80)	1/29/2002	1.9 J	mg/kg	
			OU5-CSA-2-5145YS-(140,40)	1/29/2002	3.5	mg/kg	
			OU5-CSA-2-5145YS-(140,60)	1/29/2002	4.9	mg/kg	
			OU5-CSA-2-5145YS-(20,80)	1/29/2002	2	mg/kg	
			OU5-CSA-2-5145YS-(40,40)	1/29/2002	2.5	mg/kg	
			OU5-CSA-2-5145YS-(40,60)	1/29/2002	1.7	mg/kg	
			OU5-CSA-2-5145YS-(40,80)	1/29/2002	2 J	mg/kg	
			OU5-CSA-2-5145YS-(60,100)	1/29/2002	1.7 J	mg/kg	
			OU5-CSA-2-5145YS-(60,20)	1/29/2002	3.7	mg/kg	
			OU5-CSA-2-5145YS-(60,40)	1/29/2002	1.9 J	mg/kg	
			OU5-CSA-2-5145YS-(60,60)	1/29/2002	1.9 J	mg/kg	
			OU5-CSA-2-5145YS-(60,80)	1/29/2002	2.8	mg/kg	
			OU5-CSA-2-5145YS-(80,100)	1/29/2002	2.8	mg/kg	
			OU5-CSA-2-5145YS-(80,120)	1/29/2002	3	mg/kg	
			OU5-CSA-2-5145YS-(80,20)	1/29/2002	2.2	mg/kg	
			OU5-CSA-2-5145YS-(80,40)	1/29/2002	3.1	mg/kg	
			OU5-CSA-2-5145YS-DUP01	1/29/2002	1.3 J	mg/kg	OU5-CSA-2-5145YS-(100,100)
			OU5-CSA-2-5145YS-SB1	1/28/2002	2.3	mg/kg	
CSA	2	5147 Yuma Street					
			OU5-CSA-2-5147YS-(100,100)	2/22/2002	2.4	mg/kg	
			OU5-CSA-2-5147YS-(100,120)	2/22/2002	2 J	mg/kg	
			OU5-CSA-2-5147YS-(100,20)	2/22/2002	4.3	mg/kg	
			OU5-CSA-2-5147YS-(100,40)	2/22/2002	9.3	mg/kg	
			OU5-CSA-2-5147YS-(100,60)	2/22/2002	7.6	mg/kg	
			OU5-CSA-2-5147YS-(100,80)	2/22/2002	2.8	mg/kg	
			OU5-CSA-2-5147YS-(120,100)	2/22/2002	2	mg/kg	
			OU5-CSA-2-5147YS-(120,20)	2/22/2002	4	mg/kg	
			OU5-CSA-2-5147YS-(120,40)	2/22/2002	7.2	mg/kg	
			OU5-CSA-2-5147YS-(120,60)	2/22/2002	5.1	mg/kg	
			OU5-CSA-2-5147YS-(120,80)	2/22/2002	3.7	mg/kg	
			OU5-CSA-2-5147YS-(140,20)	2/22/2002	3	mg/kg	
			OU5-CSA-2-5147YS-(140,40)	2/22/2002	6.4	mg/kg	
			OU5-CSA-2-5147YS-(140,60)	2/22/2002	2.6	mg/kg	
			OU5-CSA-2-5147YS-(140,80)	2/22/2002	3.8	mg/kg	
			OU5-CSA-2-5147YS-(160,20)	2/22/2002	2.6 J	mg/kg	
			OU5-CSA-2-5147YS-(160,40)	2/22/2002	2.6	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-2-5147YS-(20,40)	2/22/2002	1.8	mg/kg	
			OU5-CSA-2-5147YS-(20,60)	2/22/2002	2.8 J	mg/kg	
			OU5-CSA-2-5147YS-(20,80)	2/22/2002	2.8	mg/kg	
			OU5-CSA-2-5147YS-(40,0)	2/22/2002	2.3	mg/kg	
			OU5-CSA-2-5147YS-(40,20)	2/22/2002	2	mg/kg	
			OU5-CSA-2-5147YS-(40,40)	2/22/2002	2.4	mg/kg	
			OU5-CSA-2-5147YS-(40,60)	2/22/2002	3	mg/kg	
			OU5-CSA-2-5147YS-(40,80)	2/22/2002	3	mg/kg	
			OU5-CSA-2-5147YS-(60,100)	2/22/2002	2.7	mg/kg	
			OU5-CSA-2-5147YS-(60,20)	2/22/2002	2.6	mg/kg	
			OU5-CSA-2-5147YS-(60,40)	2/22/2002	3	mg/kg	
			OU5-CSA-2-5147YS-(60,80)	2/22/2002	3	mg/kg	
			OU5-CSA-2-5147YS-(80,100)	2/22/2002	5.3	mg/kg	
			OU5-CSA-2-5147YS-(80,20)	2/22/2002	3.4	mg/kg	
			OU5-CSA-2-5147YS-(80,60)	2/22/2002	25.6	mg/kg	
			OU5-CSA-2-5147YS-(80,80)	2/22/2002	9.3	mg/kg	
			OU5-CSA-2-5147YS-DUP01	2/22/2002	2.6	mg/kg	OU5-CSA-2-5147YS-(40,60)
			OU5-CSA-2-5147YS-DUP02	2/22/2002	3.3	mg/kg	OU5-CSA-2-5147YS-(40,80)
			OU5-CSA-2-5147YS-SB1	2/28/2002	2.2	mg/kg	
CTA	1C	5148 Tilden Street					
			OU5-CTA-1C-5148TS-(0,40)	2/18/2002	2.5 J	mg/kg	
			OU5-CTA-1C-5148TS-(0,60)	2/18/2002	4.5 J	mg/kg	
			OU5-CTA-1C-5148TS-(100,100)	2/18/2002	26 J	mg/kg	
			OU5-CTA-1C-5148TS-(100,120)	2/18/2002	8.6 J	mg/kg	
			OU5-CTA-1C-5148TS-(100,140)	2/18/2002	3.9 J	mg/kg	
			OU5-CTA-1C-5148TS-(100,160)	2/18/2002	3.8 J	mg/kg	
			OU5-CTA-1C-5148TS-(100,40)	2/18/2002	5.3 J	mg/kg	
			OU5-CTA-1C-5148TS-(100,60)	2/18/2002	4 J	mg/kg	
			OU5-CTA-1C-5148TS-(100,80)	2/18/2002	6.1 J	mg/kg	
			OU5-CTA-1C-5148TS-(120,100)	2/18/2002	11 J	mg/kg	
			OU5-CTA-1C-5148TS-(120,120)	2/18/2002	2.7 J	mg/kg	
			OU5-CTA-1C-5148TS-(120,140)	2/18/2002	2.6 J	mg/kg	
			OU5-CTA-1C-5148TS-(120,80)	2/18/2002	11.8 J	mg/kg	
			OU5-CTA-1C-5148TS-(140,120)	2/18/2002	2.7 J	mg/kg	
			OU5-CTA-1C-5148TS-(140,140)	2/18/2002	3.9 J	mg/kg	
			OU5-CTA-1C-5148TS-(20,100)	2/18/2002	3.8 J	mg/kg	
			OU5-CTA-1C-5148TS-(20,20)	2/18/2002	4.1 J	mg/kg	
			OU5-CTA-1C-5148TS-(20,40)	2/18/2002	4.4 J	mg/kg	
			OU5-CTA-1C-5148TS-(20,60)	2/18/2002	4.8 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1C-5148TS-(20,80)	2/18/2002	3.7 J	mg/kg	
			OU5-CTA-1C-5148TS-(40,100)	2/18/2002	4.7 J	mg/kg	
			OU5-CTA-1C-5148TS-(40,120)	2/18/2002	6.1 J	mg/kg	
			OU5-CTA-1C-5148TS-(40,20)	2/18/2002	4.4 J	mg/kg	
			OU5-CTA-1C-5148TS-(40,40)	2/18/2002	2.1 J	mg/kg	
			OU5-CTA-1C-5148TS-(40,60)	2/18/2002	4.5 J	mg/kg	
			OU5-CTA-1C-5148TS-(40,80)	2/18/2002	5.5 J	mg/kg	
			OU5-CTA-1C-5148TS-(60,0)	2/18/2002	2.6 J	mg/kg	
			OU5-CTA-1C-5148TS-(60,100)	2/18/2002	1.6 J	mg/kg	
			OU5-CTA-1C-5148TS-(60,120)	2/18/2002	3.8 J	mg/kg	
			OU5-CTA-1C-5148TS-(60,140)	2/18/2002	3.8 J	mg/kg	
			OU5-CTA-1C-5148TS-(60,160)	2/18/2002	3.5 J	mg/kg	
			OU5-CTA-1C-5148TS-(60,20)	2/18/2002	3.3 J	mg/kg	
			OU5-CTA-1C-5148TS-(60,40)	2/18/2002	3.8 J	mg/kg	
			OU5-CTA-1C-5148TS-(60,60)	2/18/2002	3.2 J	mg/kg	
			OU5-CTA-1C-5148TS-(60,80)	2/18/2002	4 J	mg/kg	
			OU5-CTA-1C-5148TS-(80,0)	2/18/2002	7.5 J	mg/kg	
			OU5-CTA-1C-5148TS-(80,120)	2/18/2002	8.8 J	mg/kg	
			OU5-CTA-1C-5148TS-(80,140)	2/18/2002	3.9 J	mg/kg	
			OU5-CTA-1C-5148TS-(80,160)	2/18/2002	3.5 J	mg/kg	
			OU5-CTA-1C-5148TS-(80,20)	2/18/2002	3.4 J	mg/kg	
			OU5-CTA-1C-5148TS-(80,40)	2/18/2002	5.4 J	mg/kg	
			OU5-CTA-1C-5148TS-(80,60)	2/18/2002	4.6 J	mg/kg	
			OU5-CTA-1C-5148TS-(80,80)	2/18/2002	3.8 J	mg/kg	
			OU5-CTA-1C-5148TS-DUP01	2/18/2002	4 J	mg/kg	OU5-CTA-1C-5148TS-(100,140)
			OU5-CTA-1C-5148TS-DUP02	2/18/2002	27.3 J	mg/kg	OU5-CTA-1C-5148TS-(100,100)
CSA	2	5149 Yuma Street					
			OU5-CSA-2-5149YS-(0,20)	12/10/2001	2.6	mg/kg	
			OU5-CSA-2-5149YS-(100,100)	12/10/2001	3	mg/kg	
			OU5-CSA-2-5149YS-(100,20)	12/10/2001	4.1	mg/kg	
			OU5-CSA-2-5149YS-(100,40)	12/10/2001	17.7	mg/kg	
			OU5-CSA-2-5149YS-(100,60)	12/10/2001	25.8	mg/kg	
			OU5-CSA-2-5149YS-(100,80)	12/10/2001	3.7	mg/kg	
			OU5-CSA-2-5149YS-(120,100)	12/10/2001	3.1	mg/kg	
			OU5-CSA-2-5149YS-(120,60)	12/10/2001	5	mg/kg	
			OU5-CSA-2-5149YS-(120,80)	12/10/2001	3.8	mg/kg	
			OU5-CSA-2-5149YS-(140,100)	12/10/2001	1.7 J	mg/kg	
			OU5-CSA-2-5149YS-(140,80)	12/10/2001	2.5 J	mg/kg	
			OU5-CSA-2-5149YS-(160,100)	12/10/2001	1.5 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-2-5149YS-(20,20)	12/10/2001	2.3	mg/kg	
			OU5-CSA-2-5149YS-(20,40)	12/10/2001	2.3 J	mg/kg	
			OU5-CSA-2-5149YS-(20,60)	12/10/2001	2.2 J	mg/kg	
			OU5-CSA-2-5149YS-(20,80)	12/10/2001	2.1 J	mg/kg	
			OU5-CSA-2-5149YS-(40,20)	12/10/2001	3.4	mg/kg	
			OU5-CSA-2-5149YS-(40,40)	12/10/2001	1.4 J	mg/kg	
			OU5-CSA-2-5149YS-(40,60)	12/10/2001	1.2 J	mg/kg	
			OU5-CSA-2-5149YS-(40,80)	12/10/2001	1.8 J	mg/kg	
			OU5-CSA-2-5149YS-(60,0)	12/10/2001	2.4	mg/kg	
			OU5-CSA-2-5149YS-(60,100)	12/10/2001	4.2	mg/kg	
			OU5-CSA-2-5149YS-(60,20)	12/10/2001	3.5	mg/kg	
			OU5-CSA-2-5149YS-(60,80)	12/10/2001	2.4 J	mg/kg	
			OU5-CSA-2-5149YS-(80,0)	12/10/2001	1.2 J	mg/kg	
			OU5-CSA-2-5149YS-(80,100)	12/10/2001	2.8	mg/kg	
			OU5-CSA-2-5149YS-(80,20)	12/10/2001	27.7	mg/kg	
			OU5-CSA-2-5149YS-(80,40)	12/10/2001	4.9	mg/kg	
			OU5-CSA-2-5149YS-(80,60)	12/10/2001	21.5	mg/kg	
			OU5-CSA-2-5149YS-(80,80)	12/10/2001	4.7	mg/kg	
			OU5-CSA-2-5149YS-DUP01	12/10/2001	3.1	mg/kg	OU5-CSA-2-5149YS-(100,20)
			OU5-CSA-2-5149YS-DUP02	12/10/2001	20.6	mg/kg	OU5-CSA-2-5149YS-(80,20)
			OU5-CSA-2-5149YS-SB1	12/10/2001	3.1	mg/kg	
CTA	1B	DC/Nat'l Park Dalecarlia Parkway, Lot 10					
			OU5-CTA-1B-L10-(100,100)	6/11/2003	1.3 JB	mg/kg	
			OU5-CTA-1B-L10-(100,120)	6/11/2003	3.3 B	mg/kg	
			OU5-CTA-1B-L10-(100,140)	6/11/2003	2.2 JB	mg/kg	
			OU5-CTA-1B-L10-(100,160)	6/11/2003	2 JB	mg/kg	
			OU5-CTA-1B-L10-(100,180)	6/11/2003	1.9 JB	mg/kg	
			OU5-CTA-1B-L10-(100,20)	6/11/2003	4.4	mg/kg	
			OU5-CTA-1B-L10-(100,40)	6/11/2003	7.6	mg/kg	
			OU5-CTA-1B-L10-(100,60)	6/11/2003	2.6 B	mg/kg	
			OU5-CTA-1B-L10-(100,80)	6/11/2003	8	mg/kg	
			OU5-CTA-1B-L10-(120,100)	6/11/2003	2.6 B	mg/kg	
			OU5-CTA-1B-L10-(120,120)	6/11/2003	2.7 B	mg/kg	
			OU5-CTA-1B-L10-(120,140)	6/11/2003	2 JB	mg/kg	
			OU5-CTA-1B-L10-(120,160)	6/11/2003	3.1 B	mg/kg	
			OU5-CTA-1B-L10-(120,180)	6/11/2003	2.6 B	mg/kg	
			OU5-CTA-1B-L10-(120,20)	6/11/2003	21.7	mg/kg	
			OU5-CTA-1B-L10-(120,40)	6/11/2003	1.8 JB	mg/kg	
			OU5-CTA-1B-L10-(120,60)	6/11/2003	1.1 JB	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1B-L10-(120,80)	6/11/2003	2.9 B	mg/kg	
			OU5-CTA-1B-L10-(140,0)	6/11/2003	4.5	mg/kg	
			OU5-CTA-1B-L10-(140,100)	6/11/2003	2.4 B	mg/kg	
			OU5-CTA-1B-L10-(140,120)	6/11/2003	2.4 B	mg/kg	
			OU5-CTA-1B-L10-(140,140)	6/11/2003	3.2 B	mg/kg	
			OU5-CTA-1B-L10-(140,160)	6/11/2003	3.4 B	mg/kg	
			OU5-CTA-1B-L10-(140,20)	6/11/2003	53.6	mg/kg	
			OU5-CTA-1B-L10-(140,40)	6/11/2003	2.3 B	mg/kg	
			OU5-CTA-1B-L10-(140,60)	6/11/2003	2.5 B	mg/kg	
			OU5-CTA-1B-L10-(140,80)	6/11/2003	2.9 B	mg/kg	
			OU5-CTA-1B-L10-(160,100)	6/11/2003	2.3 B	mg/kg	
			OU5-CTA-1B-L10-(160,120)	6/11/2003	2.9 B	mg/kg	
			OU5-CTA-1B-L10-(160,140)	6/11/2003	3 B	mg/kg	
			OU5-CTA-1B-L10-(160,160)	6/11/2003	3.1 B	mg/kg	
			OU5-CTA-1B-L10-(160,20)	6/11/2003	3.7 B	mg/kg	
			OU5-CTA-1B-L10-(160,40)	6/11/2003	3.3 B	mg/kg	
			OU5-CTA-1B-L10-(160,60)	6/11/2003	5.3	mg/kg	
			OU5-CTA-1B-L10-(160,80)	6/11/2003	2.5 B	mg/kg	
			OU5-CTA-1B-L10-(180,100)	6/11/2003	2.2 JB	mg/kg	
			OU5-CTA-1B-L10-(180,120)	6/11/2003	2 JB	mg/kg	
			OU5-CTA-1B-L10-(180,140)	6/11/2003	1.8 JB	mg/kg	
			OU5-CTA-1B-L10-(180,160)	6/11/2003	2.3 JB	mg/kg	
			OU5-CTA-1B-L10-(180,60)	6/11/2003	2.7 B	mg/kg	
			OU5-CTA-1B-L10-(180,80)	6/11/2003	2.3 JB	mg/kg	
			OU5-CTA-1B-L10-(20,100)	6/11/2003	2.5 B	mg/kg	
			OU5-CTA-1B-L10-(20,60)	6/11/2003	10.2	mg/kg	
			OU5-CTA-1B-L10-(20,80)	6/11/2003	2.9 B	mg/kg	
			OU5-CTA-1B-L10-(200,120)	6/11/2003	1.8 JB	mg/kg	
			OU5-CTA-1B-L10-(200,140)	6/11/2003	2.2 JB	mg/kg	
			OU5-CTA-1B-L10-(40,100)	6/11/2003	2.5 B	mg/kg	
			OU5-CTA-1B-L10-(40,120)	6/11/2003	2.1 B	mg/kg	
			OU5-CTA-1B-L10-(40,140)	6/11/2003	2.9 B	mg/kg	
			OU5-CTA-1B-L10-(40,160)	6/11/2003	2.7 B	mg/kg	
			OU5-CTA-1B-L10-(40,180)	6/11/2003	3.2 B	mg/kg	
			OU5-CTA-1B-L10-(40,40)	6/11/2003	26.9	mg/kg	
			OU5-CTA-1B-L10-(40,80)	6/11/2003	4	mg/kg	
			OU5-CTA-1B-L10-(60,100)	6/11/2003	2.6 B	mg/kg	
			OU5-CTA-1B-L10-(60,120)	6/11/2003	2.5 JB	mg/kg	
			OU5-CTA-1B-L10-(60,140)	6/11/2003	2.2 JB	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CTA-1B-L10-(60,160)	6/11/2003	2.1 B	mg/kg	
			OU5-CTA-1B-L10-(60,180)	6/11/2003	1.8 JB	mg/kg	
			OU5-CTA-1B-L10-(60,200)	6/11/2003	2.5 B	mg/kg	
			OU5-CTA-1B-L10-(60,40)	6/11/2003	19.6	mg/kg	
			OU5-CTA-1B-L10-(60,60)	6/11/2003	8.7	mg/kg	
			OU5-CTA-1B-L10-(60,80)	6/11/2003	1.7 JB	mg/kg	
			OU5-CTA-1B-L10-(80,100)	6/11/2003	2.8 B	mg/kg	
			OU5-CTA-1B-L10-(80,120)	6/11/2003	3.1 B	mg/kg	
			OU5-CTA-1B-L10-(80,140)	6/11/2003	4.4	mg/kg	
			OU5-CTA-1B-L10-(80,160)	6/11/2003	2.4 B	mg/kg	
			OU5-CTA-1B-L10-(80,180)	6/11/2003	1.8 JB	mg/kg	
			OU5-CTA-1B-L10-(80,20)	6/11/2003	6.6	mg/kg	
			OU5-CTA-1B-L10-(80,40)	6/11/2003	106	mg/kg	
			OU5-CTA-1B-L10-(80,60)	6/11/2003	2.5 B	mg/kg	
			OU5-CTA-1B-L10-(80,80)	6/11/2003	2.3 B	mg/kg	
			OU5-CTA-1B-L10-DUP01	6/11/2003	3 B	mg/kg	OU5-CTA-1B-L10-(160,80)
			OU5-CTA-1B-L10-DUP02	6/11/2003	2.9 B	mg/kg	OU5-CTA-1B-L10-(120,120)
			OU5-CTA-1B-L10-DUP03	6/11/2003	9.2	mg/kg	OU5-CTA-1B-L10-(60,60)
			OU5-CTA-1B-L10-DUP04	6/11/2003	4.1	mg/kg	OU5-CTA-1B-L10-(160,60)
CSA	5	Van Ness Reservoir 45th Street, Lot 15					
			OU5-CSA-5-L15-(0,360)	2/8/2002	19.4 J	mg/kg	
			OU5-CSA-5-L15-(0,380)	2/8/2002	2.9 J	mg/kg	
			OU5-CSA-5-L15-(0,400)	2/8/2002	2.3 J	mg/kg	
			OU5-CSA-5-L15-(100,100)	2/8/2002	5.1 J	mg/kg	
			OU5-CSA-5-L15-(100,120)	2/8/2002	4.8 J	mg/kg	
			OU5-CSA-5-L15-(100,140)	2/8/2002	6.1 J	mg/kg	
			OU5-CSA-5-L15-(100,160)	2/8/2002	64 J	mg/kg	
			OU5-CSA-5-L15-(100,180)	2/8/2002	69.5 J	mg/kg	
			OU5-CSA-5-L15-(100,400)	2/8/2002	346 J	mg/kg	
			OU5-CSA-5-L15-(100,420)	2/8/2002	3.6 J	mg/kg	
			OU5-CSA-5-L15-(120,100)	2/8/2002	7.5 J	mg/kg	
			OU5-CSA-5-L15-(120,120)	2/8/2002	126 J	mg/kg	
			OU5-CSA-5-L15-(120,40)	2/8/2002	7 J	mg/kg	
			OU5-CSA-5-L15-(120,60)	2/8/2002	5.6 J	mg/kg	
			OU5-CSA-5-L15-(120,80)	2/8/2002	5.7 J	mg/kg	
			OU5-CSA-5-L15-(140,40)	2/8/2002	6.7 J	mg/kg	
			OU5-CSA-5-L15-(140,60)	2/8/2002	156 J	mg/kg	
			OU5-CSA-5-L15-(140,80)	2/8/2002	122 J	mg/kg	
			OU5-CSA-5-L15-(20,300)	2/8/2002	8.1 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-5-L15-(20,320)	2/8/2002	10.1 J	mg/kg	
			OU5-CSA-5-L15-(20,340)	2/8/2002	5.5 J	mg/kg	
			OU5-CSA-5-L15-(20,360)	2/8/2002	7 J	mg/kg	
			OU5-CSA-5-L15-(20,380)	2/8/2002	216 J	mg/kg	
			OU5-CSA-5-L15-(20,400)	2/8/2002	4.4 J	mg/kg	
			OU5-CSA-5-L15-(40,260)	2/8/2002	4.5 J	mg/kg	
			OU5-CSA-5-L15-(40,280)	2/8/2002	4.2 J	mg/kg	
			OU5-CSA-5-L15-(40,300)	2/8/2002	6.5 J	mg/kg	
			OU5-CSA-5-L15-(40,320)	2/8/2002	250 J	mg/kg	
			OU5-CSA-5-L15-(40,340)	2/8/2002	17.5 J	mg/kg	
			OU5-CSA-5-L15-(40,380)	2/8/2002	127 J	mg/kg	
			OU5-CSA-5-L15-(40,400)	2/8/2002	4.9 J	mg/kg	
			OU5-CSA-5-L15-(60,200)	2/8/2002	3.6 J	mg/kg	
			OU5-CSA-5-L15-(60,220)	2/8/2002	4.1 J	mg/kg	
			OU5-CSA-5-L15-(60,240)	2/8/2002	3.9 J	mg/kg	
			OU5-CSA-5-L15-(60,260)	2/8/2002	16.9 J	mg/kg	
			OU5-CSA-5-L15-(60,280)	2/8/2002	76.8 J	mg/kg	
			OU5-CSA-5-L15-(60,400)	2/8/2002	11.9 J	mg/kg	
			OU5-CSA-5-L15-(60,420)	2/8/2002	4 J	mg/kg	
			OU5-CSA-5-L15-(80,140)	2/8/2002	5.2 J	mg/kg	
			OU5-CSA-5-L15-(80,160)	2/8/2002	5.3 J	mg/kg	
			OU5-CSA-5-L15-(80,180)	2/8/2002	6 J	mg/kg	
			OU5-CSA-5-L15-(80,200)	2/8/2002	5.6 J	mg/kg	
			OU5-CSA-5-L15-(80,220)	2/8/2002	163 J	mg/kg	
			OU5-CSA-5-L15-(80,240)	2/8/2002	64.7 J	mg/kg	
			OU5-CSA-5-L15-(80,400)	2/8/2002	140 J	mg/kg	
			OU5-CSA-5-L15-(80,420)	2/8/2002	5.4 J	mg/kg	
			OU5-CSA-5-L15-DUP01	2/8/2002	8.1 J	mg/kg	OU5-CSA-5-L15-(20,360)
			OU5-CSA-5-L15-DUP02	2/8/2002	5 J	mg/kg	OU5-CSA-5-L15-(80,180)
			OU5-CSA-5-L15-SB1	2/13/2002	2.8	mg/kg	
CSA	***13***	***Wash. Aqueduct , Lot 15***					
			OU5-CSA-13-L15-(0,140)	2/12/2002	20.5	mg/kg	
			OU5-CSA-13-L15-(100,100)	2/12/2002	1.8	mg/kg	
			OU5-CSA-13-L15-(100,120)	2/12/2002	3.6	mg/kg	
			OU5-CSA-13-L15-(100,140)	2/12/2002	2.2	mg/kg	
			OU5-CSA-13-L15-(100,160)	2/12/2002	2.6	mg/kg	
			OU5-CSA-13-L15-(100,180)	2/12/2002	5.1	mg/kg	
			OU5-CSA-13-L15-(100,20)	2/12/2002	2.8	mg/kg	
			OU5-CSA-13-L15-(100,40)	2/12/2002	1.8 J	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-13-L15-(100,60)	2/12/2002	2.1	mg/kg	
			OU5-CSA-13-L15-(100,80)	2/12/2002	2.7	mg/kg	
			OU5-CSA-13-L15-(120,100)	2/12/2002	71.3	mg/kg	
			OU5-CSA-13-L15-(120,120)	2/12/2002	1.9 J	mg/kg	
			OU5-CSA-13-L15-(120,140)	2/12/2002	2.7	mg/kg	
			OU5-CSA-13-L15-(120,160)	2/12/2002	2.7	mg/kg	
			OU5-CSA-13-L15-(120,180)	2/12/2002	1.3 J	mg/kg	
			OU5-CSA-13-L15-(120,20)	2/12/2002	2.1 J	mg/kg	
			OU5-CSA-13-L15-(120,200)	2/12/2002	4.7	mg/kg	
			OU5-CSA-13-L15-(120,40)	2/12/2002	1.8 J	mg/kg	
			OU5-CSA-13-L15-(120,60)	2/12/2002	1.9 J	mg/kg	
			OU5-CSA-13-L15-(120,80)	2/12/2002	2.2 J	mg/kg	
			OU5-CSA-13-L15-(140,100)	2/12/2002	2.6	mg/kg	
			OU5-CSA-13-L15-(140,120)	2/12/2002	2 J	mg/kg	
			OU5-CSA-13-L15-(140,140)	2/12/2002	2.3	mg/kg	
			OU5-CSA-13-L15-(140,160)	2/12/2002	3.2	mg/kg	
			OU5-CSA-13-L15-(140,180)	2/12/2002	2.2	mg/kg	
			OU5-CSA-13-L15-(140,200)	2/12/2002	5.7	mg/kg	
			OU5-CSA-13-L15-(140,40)	2/12/2002	1.3 J	mg/kg	
			OU5-CSA-13-L15-(140,60)	2/12/2002	2.2 J	mg/kg	
			OU5-CSA-13-L15-(140,80)	2/12/2002	2.1 J	mg/kg	
			OU5-CSA-13-L15-(160,100)	2/12/2002	3	mg/kg	
			OU5-CSA-13-L15-(160,120)	2/12/2002	19.9	mg/kg	
			OU5-CSA-13-L15-(160,140)	2/12/2002	2.1	mg/kg	
			OU5-CSA-13-L15-(160,160)	2/12/2002	3	mg/kg	
			OU5-CSA-13-L15-(160,180)	2/12/2002	1.9	mg/kg	
			OU5-CSA-13-L15-(160,40)	2/12/2002	2.8 J	mg/kg	
			OU5-CSA-13-L15-(160,60)	2/12/2002	1.7 J	mg/kg	
			OU5-CSA-13-L15-(160,80)	2/12/2002	2.1	mg/kg	
			OU5-CSA-13-L15-(180,100)	2/12/2002	3.7	mg/kg	
			OU5-CSA-13-L15-(180,120)	2/12/2002	5	mg/kg	
			OU5-CSA-13-L15-(180,60)	2/12/2002	1.8 J	mg/kg	
			OU5-CSA-13-L15-(180,80)	2/12/2002	5	mg/kg	
			OU5-CSA-13-L15-(20,100)	2/12/2002	3.4	mg/kg	
			OU5-CSA-13-L15-(20,120)	2/12/2002	10.1	mg/kg	
			OU5-CSA-13-L15-(20,140)	2/12/2002	101	mg/kg	
			OU5-CSA-13-L15-(20,160)	2/12/2002	45.4	mg/kg	
			OU5-CSA-13-L15-(20,80)	2/12/2002	1.3 J	mg/kg	
			OU5-CSA-13-L15-(200,60)	2/12/2002	3.1	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-13-L15-(40,100)	2/12/2002	2.9	mg/kg	
			OU5-CSA-13-L15-(40,120)	2/12/2002	4.1	mg/kg	
			OU5-CSA-13-L15-(40,140)	2/12/2002	9.3	mg/kg	
			OU5-CSA-13-L15-(40,160)	2/12/2002	8.8	mg/kg	
			OU5-CSA-13-L15-(40,40)	2/12/2002	2.7	mg/kg	
			OU5-CSA-13-L15-(40,60)	2/12/2002	27	mg/kg	
			OU5-CSA-13-L15-(40,80)	2/12/2002	2.4	mg/kg	
			OU5-CSA-13-L15-(60,0)	2/12/2002	1.8 J	mg/kg	
			OU5-CSA-13-L15-(60,100)	2/12/2002	2.1	mg/kg	
			OU5-CSA-13-L15-(60,120)	2/12/2002	2.5	mg/kg	
			OU5-CSA-13-L15-(60,140)	2/12/2002	2.2	mg/kg	
			OU5-CSA-13-L15-(60,160)	2/12/2002	65.2	mg/kg	
			OU5-CSA-13-L15-(60,20)	2/12/2002	2.7 J	mg/kg	
			OU5-CSA-13-L15-(60,40)	2/12/2002	1.5 J	mg/kg	
			OU5-CSA-13-L15-(60,60)	2/12/2002	1.7 J	mg/kg	
			OU5-CSA-13-L15-(60,80)	2/12/2002	2	mg/kg	
			OU5-CSA-13-L15-(80,100)	2/12/2002	2.3	mg/kg	
			OU5-CSA-13-L15-(80,120)	2/12/2002	1.7 J	mg/kg	
			OU5-CSA-13-L15-(80,140)	2/12/2002	4.5	mg/kg	
			OU5-CSA-13-L15-(80,160)	2/12/2002	2	mg/kg	
			OU5-CSA-13-L15-(80,180)	2/12/2002	1.8 J	mg/kg	
			OU5-CSA-13-L15-(80,20)	2/12/2002	3	mg/kg	
			OU5-CSA-13-L15-(80,40)	2/12/2002	2.4	mg/kg	
			OU5-CSA-13-L15-(80,60)	2/12/2002	1.6 J	mg/kg	
			OU5-CSA-13-L15-(80,80)	2/12/2002	7.7	mg/kg	
			OU5-CSA-13-L15-DUP01	2/12/2002	1.9 J	mg/kg	OU5-CSA-13-L15-(80,40)
			OU5-CSA-13-L15-DUP02	2/12/2002	2.9	mg/kg	OU5-CSA-13-L15-(100,140)
			OU5-CSA-13-L15-DUP03	2/12/2002	2.1	mg/kg	OU5-CSA-13-L15-(60,80)
			OU5-CSA-13-L15-DUP04	2/12/2002	1.9	mg/kg	OU5-CSA-13-L15-(80,60)
			OU5-CSA-13-L15-SB1	2/13/2002	2.4	mg/kg	
			OU5-CSA-13-L15-SB2	2/13/2002	2.6	mg/kg	
			OU5-CSA-13-L15-SB3	2/13/2002	2	mg/kg	
			OU5-CSA-13-L15-SB4	2/13/2002	1.8	mg/kg	
			OU5-CSA-13-L15-SB5	2/13/2002	0.82 J	mg/kg	
			OU5-CSA-13-L15-SB6	2/13/2002	1.3 J	mg/kg	
CSA	13	Wash. Aqueduct , Lot 80					
			OU5-CSA-13-L80-(100,120)	2/11/2002	8.2	mg/kg	
			OU5-CSA-13-L80-(100,140)	2/11/2002	5.8	mg/kg	
			OU5-CSA-13-L80-(100,160)	2/11/2002	8	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-13-L80-(100,180)	2/11/2002	5.6	mg/kg	
			OU5-CSA-13-L80-(100,20)	2/11/2002	5.2	mg/kg	
			OU5-CSA-13-L80-(100,40)	2/11/2002	4.2	mg/kg	
			OU5-CSA-13-L80-(120,100)	2/11/2002	9.4	mg/kg	
			OU5-CSA-13-L80-(120,120)	2/11/2002	8.1	mg/kg	
			OU5-CSA-13-L80-(120,140)	2/11/2002	5.5	mg/kg	
			OU5-CSA-13-L80-(120,160)	2/11/2002	5.9	mg/kg	
			OU5-CSA-13-L80-(120,180)	2/11/2002	5.5	mg/kg	
			OU5-CSA-13-L80-(120,40)	2/11/2002	3.8	mg/kg	
			OU5-CSA-13-L80-(140,100)	2/11/2002	5.8	mg/kg	
			OU5-CSA-13-L80-(140,120)	2/11/2002	6.1	mg/kg	
			OU5-CSA-13-L80-(140,140)	2/11/2002	6	mg/kg	
			OU5-CSA-13-L80-(140,160)	2/11/2002	6.6	mg/kg	
			OU5-CSA-13-L80-(140,180)	2/11/2002	6.6	mg/kg	
			OU5-CSA-13-L80-(140,40)	2/11/2002	4	mg/kg	
			OU5-CSA-13-L80-(140,60)	2/11/2002	4.4	mg/kg	
			OU5-CSA-13-L80-(140,80)	2/11/2002	5.1	mg/kg	
			OU5-CSA-13-L80-(160,100)	2/11/2002	5.3	mg/kg	
			OU5-CSA-13-L80-(160,120)	2/11/2002	6.4	mg/kg	
			OU5-CSA-13-L80-(160,140)	2/11/2002	5.7	mg/kg	
			OU5-CSA-13-L80-(160,160)	2/11/2002	3.7	mg/kg	
			OU5-CSA-13-L80-(160,180)	2/11/2002	5.6	mg/kg	
			OU5-CSA-13-L80-(160,40)	2/11/2002	5.9	mg/kg	
			OU5-CSA-13-L80-(160,60)	2/11/2002	5.2	mg/kg	
			OU5-CSA-13-L80-(160,80)	2/11/2002	5.5	mg/kg	
			OU5-CSA-13-L80-(180,100)	2/11/2002	5.6	mg/kg	
			OU5-CSA-13-L80-(180,120)	2/11/2002	6.1	mg/kg	
			OU5-CSA-13-L80-(180,140)	2/11/2002	7.3	mg/kg	
			OU5-CSA-13-L80-(180,60)	2/11/2002	7.2	mg/kg	
			OU5-CSA-13-L80-(180,80)	2/11/2002	6.7	mg/kg	
			OU5-CSA-13-L80-(20,120)	2/11/2002	3.6	mg/kg	
			OU5-CSA-13-L80-(20,140)	2/11/2002	13.1	mg/kg	
			OU5-CSA-13-L80-(20,160)	2/11/2002	58.3	mg/kg	
			OU5-CSA-13-L80-(200,100)	2/11/2002	8.2	mg/kg	
			OU5-CSA-13-L80-(200,60)	2/11/2002	8.5	mg/kg	
			OU5-CSA-13-L80-(200,80)	2/11/2002	6	mg/kg	
			OU5-CSA-13-L80-(40,100)	2/11/2002	124	mg/kg	
			OU5-CSA-13-L80-(40,120)	2/11/2002	2.1 J	mg/kg	
			OU5-CSA-13-L80-(40,140)	2/11/2002	2.3	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-13-L80-(40,160)	2/11/2002	1.6 J	mg/kg	
			OU5-CSA-13-L80-(40,80)	2/11/2002	27.9	mg/kg	
			OU5-CSA-13-L80-(60,100)	2/11/2002	2.1 J	mg/kg	
			OU5-CSA-13-L80-(60,120)	2/11/2002	3.5	mg/kg	
			OU5-CSA-13-L80-(60,140)	2/11/2002	4.4	mg/kg	
			OU5-CSA-13-L80-(60,160)	2/11/2002	2.6	mg/kg	
			OU5-CSA-13-L80-(60,180)	2/11/2002	6.4	mg/kg	
			OU5-CSA-13-L80-(60,20)	2/11/2002	11.8	mg/kg	
			OU5-CSA-13-L80-(60,40)	2/11/2002	3.3	mg/kg	
			OU5-CSA-13-L80-(60,60)	2/11/2002	3.2	mg/kg	
			OU5-CSA-13-L80-(60,80)	2/11/2002	1.7 J	mg/kg	
			OU5-CSA-13-L80-(80,120)	2/11/2002	3.8	mg/kg	
			OU5-CSA-13-L80-(80,140)	2/11/2002	4.3	mg/kg	
			OU5-CSA-13-L80-(80,160)	2/11/2002	8.2	mg/kg	
			OU5-CSA-13-L80-(80,180)	2/11/2002	5.8	mg/kg	
			OU5-CSA-13-L80-(80,20)	2/11/2002	2 J	mg/kg	
			OU5-CSA-13-L80-(80,40)	2/11/2002	1.8 J	mg/kg	
			OU5-CSA-13-L80-(80,60)	2/11/2002	2.5	mg/kg	
			OU5-CSA-13-L80-(80,80)	2/11/2002	2.1	mg/kg	
			OU5-CSA-13-L80-DUP01	2/11/2002	5.1	mg/kg	OU5-CSA-13-L80-(140,60)
			OU5-CSA-13-L80-DUP02	2/11/2002	2.1	mg/kg	OU5-CSA-13-L80-(60,100)
			OU5-CSA-13-L80-DUP03	2/11/2002	4.6	mg/kg	OU5-CSA-13-L80-(140,140)
CSA	13	Wash. Aqueduct , Lot 81					
			OU5-CSA-13-L81-(100,200)	2/11/2002	3.3	mg/kg	
			OU5-CSA-13-L81-(120,200)	2/11/2002	1.9	mg/kg	
			OU5-CSA-13-L81-(140,180)	2/11/2002	4.5	mg/kg	
			OU5-CSA-13-L81-(140,200)	2/11/2002	2.9	mg/kg	
			OU5-CSA-13-L81-(160,160)	2/11/2002	6.9	mg/kg	
			OU5-CSA-13-L81-(20,100)	2/11/2002	3.2	mg/kg	
			OU5-CSA-13-L81-(20,120)	2/11/2002	27.3	mg/kg	
			OU5-CSA-13-L81-(20,140)	2/11/2002	11.4	mg/kg	
			OU5-CSA-13-L81-(20,160)	2/11/2002	3.9	mg/kg	
			OU5-CSA-13-L81-(40,120)	2/11/2002	4.4	mg/kg	
			OU5-CSA-13-L81-(40,140)	2/11/2002	5.7	mg/kg	
			OU5-CSA-13-L81-(40,160)	2/11/2002	3.5	mg/kg	
			OU5-CSA-13-L81-(40,40)	2/11/2002	7.1	mg/kg	
			OU5-CSA-13-L81-(40,60)	2/11/2002	5.1	mg/kg	
			OU5-CSA-13-L81-(40,80)	2/11/2002	8.9	mg/kg	
			OU5-CSA-13-L81-(60,180)	2/11/2002	2.4	mg/kg	

Area	Group	Address	Sample ID	Sample Date	Result \1	Units	Duplicate Match
			OU5-CSA-13-L81-(60,20)	2/11/2002	2.9	mg/kg	
			OU5-CSA-13-L81-(60,40)	2/11/2002	1.7 J	mg/kg	
			OU5-CSA-13-L81-(60,60)	2/11/2002	2.1	mg/kg	
			OU5-CSA-13-L81-(80,180)	2/11/2002	4.9	mg/kg	
			OU5-CSA-13-L81-(80,20)	2/11/2002	2.9	mg/kg	
			OU5-CSA-13-L81-DUP01	2/11/2002	2.9	mg/kg	OU5-CSA-13-L81-(80,180)

\1 DATA VALIDATION QUALIFIERS

Data validation was conducted in accordance with EPA Region III modifications to the EPA's National Functional Guidelines for data validation. Per these guidelines, data with any of the following qualifiers is still considered usable for most decision-making purposes, including risk assessment.

U *The compound was analyzed for and is not present. The associated numerical value (Practical Quantitation Limit - PQL) indicates the approximate concentration necessary to quantify the compound in the sample. In other words, the chemical level in the sample is below the level shown, which is the minimum the testing technique could have detected in the sample.*

J *The compound was detected in the sample, but the reported result is "estimated" (could not be accurately quantified) either because the reported value is less than the PQL or at least one minor Quality Control (QC) problem was found during validation. Data with a "J" qualifier is considered usable for most decision-making purposes, including risk assessment. Therefore, one should not be concerned about the "estimated" or "J" flag assigned to the sample result. The "J" qualifier may be combined with the "K" (high bias) or "L" (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined (with the "K" or "L" qualifier, the "J" qualifier indicates the reported value is less than the PQL.*

UJ *A combination of the "U" and "J" flags. The compound was analyzed for but was not detected. The PQL limit has been qualified as estimated due to a QC anomaly.*

D *The analyte was detected in the sample. The result is reported from the diluted sample run. The original analysis of the sample required a dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered "estimated" and usable for most decision-making purposes, including risk assessment.*

DJ *The J flag attached to the D indicates the result is either less than the PQL or at least one minor quality control problem was found during validation. The reported result should be considered "estimated" and usable for most decision-making purposes, including risk assessment.*

K *The analyte was detected in the sample. The reported result is considered estimated and may be biased high due to a minor QA/QC problem. The true concentration of arsenic present in the sample may be lower than the reported result. The data is considered "estimated" and usable for most decision-making purposes, including risk assessment.*

L *The analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of arsenic present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.*

UL *A combination of the "U" and "L" flags. The compound was analyzed for but was not detected. The PQL has been qualified as estimated (biased low) due to a QC anomaly.*

B *This flag indicates the reported result is greater than the method detection level (MDL) but less than 5 times (5X) the amount found in an associated field or laboratory blank. The reported result should be considered "estimated" and may be biased high due to the blank contamination. The true concentration of arsenic in the sample may be lower than the reported result. This qualifier may be combined with the "J" qualifier to indicate the reported value is less than the PQL.*

\2 For this sample please refer to validation report No. 11 for detailed explanation of any data qualifier.

DATA VALIDATION REPORTS

ORGANIZATION PAGE

This section contains:

- **Organization Page**
- **Report No. 1- OU-4 sampling for the period 6/27/00 to 10/06/00**
- **Report No. 2- OU-4 sampling for the period 11/01/00 to 11/27/00**
- **Report No. 3- OU-4 sampling for the period 1/04/01 to 3/19/01**
- **Report No. 4- OU-4 sampling for the period 3/20/01 to 7/11/01**
- **Report No. 5- OU-4 sampling for the period 8/02/01 to 7/01/02**
- **Report No. 6- OU-5 sampling for the period 4/03/01 to 6/29/01**
- **Report No. 7- OU-5 sampling for the period 7/02/01 to 9/07/01**
- **Report No. 8- OU-5 sampling for the period 9/10/01 to 11/09/01**
- **Report No. 9- OU-5 sampling for the period 11/12/01 to 1/18/02**
- **Report No. 10- OU-5 sampling for the period 1/21/02 to 7/02/02**
- **Report No. 11- OU-4 and OU-5 sampling from 4/03/01 to 12/20/02**
- **Report No. 12- OU-5 sampling from 12/23/02 to 5/21/03**
- **Report No. 13- OU-5 sampling from 5/22/03 to 8/26/03**
- **EPA's Split Sampling Results**

Because of the large number of samples and the time period involved in the sampling, the validation section is organized into discrete reports based on Operable

Unit and date. Separate reports are presented for OU-4 samples and OU-5 samples. Within each operable unit, reports are organized by date ranges as outlined above.

At the start of each report there is a table listing the sample names and collection dates covered in the report. Any sample contained in any of the data tables presented in the previous sections can be found in these reports using the sample name and collection date. Report No. 11 is an exception. Samples covered in Report No. 11, which includes both OUs and overlapping dates, are footnoted on the data tables to refer the reader to the appropriate data validation report.

OU-4 SAMPLING FOR THE PERIOD

6/27/00 TO 10/06/00

(REPORT NO.1)

OU-4 SAMPLES COLLECTED FROM 6/27/00 TO 10/06/00 (Report No. 1)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU4-4851IL	6/27/2000	6147
OU4-3244NA	8/8/2000	8045
OU4-4629RP	8/25/2000	8168
OU4-4901IL	8/29/2000	8189
OU4-3625(49)	8/30/2000	8209
OU4-4733WL	8/30/2000	8198 - 8199
OU4-4703WL	8/30/2000	8198
OU4-3615(49)	8/30/2000	8219
OU4-4701WL	8/30/2000	8197
OU4-4727WL	8/30/2000	8197 - 8198
OU4-4845GR	8/30/2000	8219
OU4-4740QS	8/31/2000	8219
OU4-4820GR	8/31/2000	8199, 8220
OU4-4720QS	9/1/2000	8224
OU4-4861IL	9/1/2000	8224
OU4-4700QS	9/5/2000	9004
OU4-4637RP	9/5/2000	9004, 9006
OU4-4818WL	9/5/2000	9006
OU4-3631(49)	9/5/2000	9014
OU4-4869GR	9/6/2000	9022
OU4-4819IL	9/6/2000	9015
OU4-4900HL	9/6/2000	9022
OU4-4625RP	9/6/2000	9014
OU4-3631(49)	9/6/2000	9014
OU4-4641RP	9/6/2000	9015
OU4-4900HL	9/7/2000	9022
OU4-4710QS	9/7/2000	9025
OU4-4808RP	9/12/2000	9050
OU4-4828WL	9/12/2000	9050
OU4-4809WL	9/12/2000	9051
OU4-4621RP	9/19/2000	9161
OU4-4710WL	9/19/2000	9115
OU4-4633RP	9/22/2000	9146
OU4-4801IL	9/22/2000	9140
OU4-4707WL	9/26/2000	9161
OU4-4604RP	9/26/2000	9162
OU4-4867GR	9/26/2000	9161 - 9162
OU4-4880GR	9/27/2000	9166 - 9167
OU4-4608RP	9/27/2000	9167
OU4-3601(49)	9/27/2000	9166
OU4-4855GR	10/6/2000	10048
OU4-4720WL	10/6/2000	10044

QUALITY ASSURANCE SUMMARY REPORT (NO. 1) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-4 SAMPLING

JUNE 27, 2000 THROUGH OCTOBER 6, 2000

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-4 sampling locations between June 27 and October 6, 2000. The samples are arranged by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared and analyzed together in the analytical batch with common laboratory QC samples. The sampling period in this report includes many SDGs as indicated on the tables. The samples were analyzed for arsenic only.

All work was performed in accordance with the Work Management Plan (WMP) and applicable Amendments prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is also presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including

sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected, and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: field or laboratory blank contamination, sample dilution due to matrix interferences, ICP serial dilution outliers, precision outliers and accuracy (percent recovery) outliers. Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data summary tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: field or laboratory blank contamination, sample dilution due to matrix interferences, ICP serial dilution outliers, precision outliers and accuracy outliers. Details concerning these problems are presented below by analytical parameter.

Metals

- Some reported results for arsenic have been qualified as estimated and flagged 'J'. The 'J' flag indicates the analyte was positively identified but the associated value is less than the practical quantitation limit (PQL). Samples in SDGs 8224 (OU4-4720-SB5), 8225 (OU4-4861-SB6), 9006 (OU4-4818-SB4), 9015 (OU4-4710-SB4, SB7, SB8, SB10), 9022 (OU4-4900-SB7), 9025 (OU4-4710-SB2, SB3), 9140 (OU4-4801-SB10), 9161 (OU4-4707-SB3), 9166 (OU4-3601-SB7, SB8) and 9167 (OU4-4880-SB10) are affected.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as

estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the actual result or PQL may be higher than the reported result. The reported data is usable for most purposes, including risk assessment. Samples in SDGs 8168 and 8220 were affected.

- Some samples required dilution due to matrix interferences in the samples. The reported results for arsenic in the affected samples have been flagged 'D' due to the necessary dilution. The 'D' qualifier indicates the reported result was obtained from the diluted sample. Samples in the following SDGs were affected: 8197, 8198, 8199, 8209, 8219, 8220, 9014, 9015, 9016, 8224, 8225, 9025, 9026, 9051, 9115, 9161, 9146, 9162, 9166, 9167, 9004, 9006, 10044 and 10048.

- ICP serial dilution outliers were reported for arsenic for the samples in the following SDGs: 8219, 8224, 8225, 9014, 9051, 9115, 9140, 9146, 9161, 9166, 9167, 10044 and 10048. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'J/UJ'.

- The laboratory or equipment blank associated with the samples in the following SDGs contained arsenic: 9022 and 9050. Reported detections of arsenic in the associated samples at level comparable to the level found in the equipment blank have been qualified as estimates and flagged 'B/JB'. These results should be considered biased high due to the blank contamination.

- Precision (relative percent difference) outliers were reported for the laboratory duplicate associates with the following SDGs: 9015 and 9162. Reported results for the affected samples have been qualified as estimated and flagged 'J/UJ'.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-4 SAMPLING FOR THE PERIOD

11/01/00 TO 11/27/00

(REPORT NO. 2)

OU-4 SAMPLES COLLECTED FROM 11/01/00 TO 11/27/00 (Report No. 2)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU4-4831IL	11/1/2000	11010
OU4-4901GR	11/1/2000	11010
OU4-AU01	11/13/2000	11074
OU4-AU01	11/13/2000	11076
OU4-AU02	11/13/2000	11077
OU4-AU02	11/13/2000	11078
OU4-AU03	11/13/2000	11075
OU4-AU03	11/13/2000	11079
OU4-AU06	11/14/2000	11091
OU4-AU07	11/14/2000	11104
OU4-AU06	11/14/2000	11086
OU4-AU05	11/14/2000	11090
OU4-AU04	11/14/2000	11087
OU4-AU04	11/14/2000	11083
OU4-AU07	11/14/2000	11109
OU4-AU05	11/14/2000	11085
OU4-AU09	11/15/2000	11106
OU4-AU13	11/15/2000	11108
OU4-AU10	11/15/2000	11112
OU4-AU09	11/15/2000	11111
OU4-AU08	11/15/2000	11110
OU4-AU08	11/15/2000	11105
OU4-AU13	11/15/2000	11113
OU4-AU10	11/15/2000	11107
OU4-AU15	11/16/2000	11129
OU4-AU11	11/16/2000	11187
OU4-AU14	11/16/2000	11128
OU4-AU15	11/16/2000	11126
OU4-AU16	11/16/2000	11130
OU4-AU14	11/16/2000	11125
OU4-AU16	11/16/2000	11127
OU4-AU17	11/17/2000	11138
OU4-AU17	11/17/2000	11142
OU4-AU12	11/17/2000	11186
OU4-AU18	11/17/2000	11140
OU4-AU18	11/17/2000	11143
OU4-AU19	11/17/2000	11141
OU4-AU19	11/17/2000	11144
OU4-AU21	11/20/2000	11149
OU4-AU22	11/20/2000	11153
OU4-AU21	11/20/2000	11152
OU4-AU20	11/20/2000	11151, 11175
OU4-AU22	11/20/2000	11150
OU4-AU20	11/20/2000	11148
OU4-AU24	11/21/2000	
OU4-AU26	11/21/2000	11171
OU4-AU26	11/21/2000	11167
OU4-AU25	11/21/2000	11165
OU4-AU24	11/21/2000	11164
OU4-AU23	11/21/2000	11168
OU4-AU23	11/21/2000	11163
OU4-AU25	11/21/2000	11170
OU4-AU28	11/22/2000	11195
OU4-AU12	11/22/2000	11186
OU4-AU12	11/22/2000	11191
OU4-AU11	11/22/2000	11193
OU4-AU27	11/22/2000	11188
OU4-AU27	11/22/2000	11194
OU4-AU28	11/22/2000	11190
OU4-AU12	11/27/2000	11178

QUALITY ASSURANCE SUMMARY REPORT (NO. 2) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-4 SAMPLING

NOVEMBER 1, 2000 THROUGH NOVEMBER 27, 2000

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-4 sampling locations between November 1 and November 27, 2000. The samples are arranged by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared and analyzed together in the analytical batch with common laboratory QC samples. The sampling period in this report includes many SDGs as indicated on the tables. The samples were analyzed for arsenic, 1,4-oxthiane, 1,4-dithiane, and thiodiglycol.

All work was performed in accordance with the Work Management Plan (WMP) and applicable Amendments prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is also presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including

sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: results above the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL), sample dilution due to matrix interferences and precision (relative percent difference for lab duplicate) outliers. Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data summary tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: reported results above the MDL but less than the PQL, sample dilution due to matrix interferences and precision outliers. Details concerning these problems are presented below by analytical parameter.

Metals

- Some reported arsenic results have been qualified as estimated and flagged 'J'. The 'J' flag indicates the analyte was positively identified but the associated value is less than the PQL. Samples in SDGs 11010 (OU4-4831-SB5), 11105 (OU4-AU08-SB6), and 11107 (OU4-AU10-SB10) were affected.

- Some samples required dilution due to matrix interferences in the samples. The reported results for arsenic in the affected samples have been flagged 'D' due to the necessary dilution. The 'D' qualifier indicates the reported result was obtained from the diluted sample. Samples in SDG 11010 were affected.

- Precision (relative percent difference) outliers were reported for the laboratory duplicate associates with SDG 11010. Reported results for the affected samples have been qualified as estimated and flagged ‘J/UJ’.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-4 SAMPLING FOR THE PERIOD

1/04/01 TO 3/19/01

(REPORT NO. 3)

OU-4 SAMPLES COLLECTED FROM 1/04/01 TO 3/19/01 (Report No. 3)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU4-AU12	1/4/2001	10123, 101025
OU4-AU12	1/5/2001	
OU4-4861IL	2/1/2001	102023 - 102024
OU4-4871GR	2/1/2001	102029
OU4-4730QS	2/1/2001	102029
OU4-4900QS	2/5/2001	102035
OU4-4717QS	2/5/2001	102034
OU4-4608RP	2/6/2001	102049
OU4-3700UA	2/6/2001	102046
OU4-4705QS	2/6/2001	102044
OU4-4717QS	2/6/2001	102046
OU4-4900IL	2/6/2001	102044, 102046
OU4-3819(48)	2/7/2001	102081
OU4-4710WL	2/7/2001	102051
OU4-3819(48)	2/8/2001	102075
OU4-4710WL	2/8/2001	102080
OU4-4710WL	2/9/2001	102091, 102096
OU4-4604RP	2/9/2001	102093
OU4-4629RP	2/12/2001	102108
OU4-4621RP	2/12/2001	102105 - 102106
OU4-4710WL	2/12/2001	102100, 102102
OU4-4633RP	2/13/2001	102124 - 102125
OU4-4629RP	2/13/2001	102123
OU4-4625RP	2/13/2001	102116
OU4-4641RP	2/14/2001	102137
OU4-4637RP	2/14/2001	102134, 102136
OU4-AU30	2/27/2001	102208
OU4-AU29	2/27/2001	102207
OU4-AU30	2/27/2001	102208
OU4-AU29	2/27/2001	102207
OU4-AU22	3/12/2001	103104
OU4-AU24	3/12/2001	103107
OU4-AU08	3/12/2001	103100
OU4-AU23	3/12/2001	103110
OU4-AU21	3/12/2001	103103
OU4-AU19	3/12/2001	103102
OU4-AU08	3/13/2001	103119 - 103122
OU4-AU25	3/13/2001	103123
OU4-AU27	3/13/2001	103123
OU4-AU26	3/13/2001	103123
OU4-AU10	3/14/2001	103136 - 103137
OU4-AU13	3/15/2001	103152 - 103153
OU4-AU14	3/16/2001	103169 - 103170
OU4-AU15	3/16/2001	103171 - 103173
OU4-AU14	3/19/2001	103169, 103174
OU4-AU11	3/19/2001	103188 - 103190

QUALITY ASSURANCE SUMMARY REPORT (NO. 3) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-4 SAMPLING

JANUARY 4, 2001 THROUGH MARCH 19, 2001

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-4 sampling locations between January 4 and March 19, 2001. The samples are arranged by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared and analyzed together in the analytical batch with common laboratory QC samples. The sampling period in this report covers many SDGs as indicated on the tables. The samples were analyzed for arsenic, 1,4-oxathiane, 1,4-dithiane, and thiodiglycol.

All work was performed in accordance with the Work Management Plan (WMP) and Applicable Amendments prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is also presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including

sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: sample dilution due to matrix interferences, ICP serial dilution outliers, accuracy and precision outliers and results above the MDL but less than the Practical Quantitation Limit (PQL). Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data summary tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: sample dilution due to matrix interferences, ICP serial dilution outliers, accuracy and precision outliers and results above the MDL but less than the PQL. Details concerning these problems are presented below by analytical parameter.

Metals

- Some reported results have been qualified as estimated and flagged ‘J’. The ‘J’ flag indicates the analyte was positively identified but the associated value is less than the PQL. Some samples in SDGs 103136, 103189, and 103190 were affected.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged ‘L/UL’. The ‘L’ qualifier indicates a low bias meaning the actual result or PQL may be higher than the reported result. The reported

data is usable for most purposes, including risk assessment. Some samples in SDGs 103177 and 103193 were affected.

- Some samples required dilution due to matrix interferences in the samples. The reported results for arsenic in the affected samples have been flagged 'D' due to the necessary dilution. The 'D' qualifier indicates the reported result was obtained from the diluted sample. Samples in the following SDGs were affected: 101025, 101028, 101035, 101036, and 103188.

- ICP serial dilution outliers were reported for arsenic for the samples in the following SDGs: 102023, 102125, 102136, 102030, 102106, 102049, 102091, 102096, 102108, 102116, 102121, 102123, and 102079. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'J/UJ'.

- Precision (relative percent difference) outliers were reported for the laboratory duplicate associated with the following SDGs: 102026 and 102044. Reported results for the affected samples have been qualified as estimated and flagged 'J/UJ'.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-4 SAMPLING FOR THE PERIOD

3/20/01 TO 7/11/01

(REPORT NO.4)

OU-4 SAMPLES COLLECTED FROM 3/20/01 TO 7/11/01 (Report No. 4)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU4-AU-KREEG	3/20/2001	103185
OU4-AU11	3/20/2001	103184
OU4-AU-KREEG	3/22/2001	103242
OU4-AU-KREEG	3/22/2001	103243
OU4-AU-KREEG	3/22/2001	103244
OU4-AU-KREEG	3/23/2001	103230
OU4-AU-WATKN	3/23/2001	103229
OU4-3300NA	4/12/2001	104096
OU4-3311NA	4/12/2001	104098
OU4-4900GR	4/12/2001	104099
OU4-3310(45)	4/13/2001	104121
OU4-3318(45)	4/13/2001	104115
OU4-3322(45)	4/13/2001	104122
OU4-3322(45)	4/16/2001	104130
OU4-4430-L4	4/16/2001	104129, 104128
OU4-4430-L3	4/16/2001	104126
OU4-4871GR	4/17/2001	104162
OU4-4871GR	4/17/2001	104145
OU4-4871GR	4/17/2001	104143
OU4-4871GR	4/17/2001	104138
OU4-3401-L2	4/18/2001	104158
OU4-3401-L1	4/18/2001	104160
OU4-3401-L1	4/18/2001	104158
OU4-3401-L2	4/18/2001	104160
OU4-4501MS	4/19/2001	104171
OU4-AU-KREEG	4/20/2001	103186
OU4-4900QS	6/20/2001	106110
OU4-4525MS	7/11/2001	107036

QUALITY ASSURANCE SUMMARY REPORT (NO. 4) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-4 SAMPLING

MARCH 20, 2001 THROUGH JULY 11, 2001

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-4 sampling locations between March 20 and July 11, 2001. The samples are arranged by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared and analyzed together in the analytical batch with common laboratory QC samples. The sampling pereiod in this report includes several SDGs as indicated on the table. The samples were analyzed for one or more of the following parameters: arsenic, 1,4-oxthiane, 1,4-dithiane, and thiodiglycol.

All work was performed in accordance with the Work Management Plan (WMP) and Applicable Amendments prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is also presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including

sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: results above the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL) and accuracy and precision (relative percent difference for lab duplicate) outliers. Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data summary tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: reported results above the MDL but less than the PQL and accuracy and precision outliers. Details concerning these problems are presented below by analytical parameter.

Metals

- Some reported arsenic results have been qualified as estimated and flagged 'J'. The 'J' flag indicates the analyte was positively identified but the associated value is less than the PQL. Samples in SDGs 103185, 103242, 103243, 103244, 103229, 104096, 104098, 104099, 104131, 104138, 104143, 104145, and 103186 were affected.

- Accuracy (matrix spike percent recovery) outliers were reported for some samples for arsenic analysis. The reported recovery for the MS associated with the samples was below the control limit. The reported results for the affected samples have been qualified as estimated and flagged 'L/UL'. The

'L' qualifier indicates a low bias meaning the actual result or PQL may be higher than reported. The qualified data is usable for most purposes including risk assessment. Samples in SDGs 104096 and 104158 were affected.

- Accuracy (matrix spike percent recovery) outliers were reported for some samples for arsenic analysis. The reported recovery for the MS associated with the samples was above the control limit. The reported results for the affected samples have been qualified as estimated and flagged 'K'. The 'K' qualifier indicates a high bias meaning the actual result may be lower than reported. The qualified data is usable for most purposes including risk assessment. Samples in SDGs 104122 and 104129 were affected.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-4 SAMPLING FOR THE PERIOD

8/02/01 TO 7/01/02

(REPORT NO.5)

OU-4 SAMPLES COLLECTED FROM 8/02/01 TO 7/01/02 (Report No. 5)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU4-3314(45)	8/2/2001	108017
OU4-3401-L2	9/13/2001	109067
OU4-4846GR	10/3/2001	110015
OU4-4711QS	10/3/2001	110015
OU4-4840GR	10/3/2001	110015
OU4-4846GR	10/22/2001	110115
OU4-4840GR	10/23/2001	110128
OU4-4810RP	10/23/2001	110128
OU4-4505MS	12/4/2001	112009
OU4-4810GR	1/7/2002	201032
OU4-4735WL	1/7/2002	201032
OU4-4800WL	1/7/2002	201032
OU4-4822WL	1/7/2002	201032
OU4-4839IL	5/1/2002	205014
OU4-4767IL	7/1/2002	207007
OU4-4850GR	7/1/2002	207007
OU4-4527MS	7/1/2002	207007
OU4-4915GR	7/1/2002	207007

QUALITY ASSURANCE SUMMARY REPORT (NO. 5) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-4 SAMPLING

AUGUST 2, 2001 THROUGH JULY 1, 2002

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-4 sampling locations between August 2, 2001 and July 1, 2002. The samples are arranged by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared and analyzed together in the analytical batch with common laboratory QC samples. The sampling period in this report includes several SDGs as indicated on the table. The samples were analyzed for one or more of the following parameters: arsenic, 1,4-oxthiane, 1,4-dithiane, and thiodiglycol.

All work was performed in accordance with the Work Management Plan (WMP) and Applicable Amendments prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is also presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including

sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: results above the Method Detection Limit (MDL) but less than the Practical Quantitation Limit (PQL) and accuracy and precision (relative percent difference for lab duplicate) outliers. Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data summary tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: reported results above the MDL but less than the PQL and accuracy and precision outliers. Details concerning these problems are presented below by analytical parameter.

Metals

- Some reported arsenic results have been qualified as estimated and flagged 'J'. The 'J' flag indicates the analyte was positively identified but the associated value is less than the PQL. Samples in the following SDGs were affected: 109067, 110128, 112009, 201032, 205014, and 207007.

- Accuracy (matrix spike percent recovery) outliers were reported for some samples for arsenic analysis. The reported recovery for the MS associated with the samples was below the control limit. The reported results for the affected samples have been qualified as estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the actual result or PQL may be

higher than reported. The qualified data is usable for most purposes including risk assessment. Some samples in SDG 112009 were affected.

- Precision (relative percent difference) outliers were reported for the laboratory duplicate associated with SDG 110115. Reported results for the affected samples have been qualified as estimated and flagged 'J/UJ'.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-5 SAMPLING FOR THE PERIOD

4/03/01 TO 6/29/01

(REPORT NO.6)

OU-5 SAMPLES COLLECTED FROM 4/03/01 TO 6/29/01 (Report No. 6)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1C-5054SegS	4/3/2001	104020
OU5-CTA-1C-5046SegS	4/3/2001	104019
OU5-CTA-1C-3720FR	4/4/2001	104031
OU5-CTA-1C-5040SegS	4/4/2001	104028
OU5-CSA-10-4800QS	5/31/2001	105193
OU5-CSA-11-3619FR	5/31/2001	105193
OU5-CSA-4-4644TS	5/31/2001	105193
OU5-CSA-12-4907IL	5/31/2001	105193
OU5-CSA-11-4930QS	5/31/2001	105193
OU5-CSA-12-4845LR	5/31/2001	105193
OU5-CSA-3-4734MA	6/1/2001	106002
OU5-CSA-11-4922QS	6/1/2001	106002
OU5-CSA-6-4300(42)	6/5/2001	106017
OU5-CSA-11-3701FR	6/5/2001	106017
OU5-CTA-1D-4020(49)	6/6/2001	106025
OU5-CTA-1C-3650FR	6/6/2001	106025
OU5-CTA-1B-4030(51)	6/6/2001	106025
OU5-CTA-1C-3700FR	6/6/2001	106025
OU5-CTA-1D-3801FR	6/6/2001	106025
OU5-CTA-1C-4015(51)	6/6/2001	106025
OU5-CTA-1D-4014(49)	6/6/2001	106025
OU5-CTA-1C-3706FR	6/6/2001	106025
OU5-CTA-1B-4100(52)	6/6/2001	106025
OU5-CTA-1D-3823FR	6/7/2001	106033
OU5-CTA-1D-3823FR	6/7/2001	106031
OU5-CTA-1B-4055(52T)	6/7/2001	106033
OU5-CTA-1D-3939FR	6/7/2001	106033
OU5-CTA-1D-4926US	6/7/2001	106031
OU5-CTA-1A-4200FR	6/7/2001	106031
OU5-CTA-1A-4227FR	6/7/2001	106033
OU5-CTA-1D-4926US	6/7/2001	106033
OU5-CTA-1A-4200FR	6/7/2001	106033
OU5-CTA-1B-4055(52T)	6/7/2001	106031
OU5-CTA-1A-5015VNS	6/8/2001	106048
OU5-CSA-2-5002MA	6/8/2001	106048
OU5-CTA-1A-5011WS	6/8/2001	106048
OU5-CTA-1B-4015(52)	6/8/2001	106048
OU5-CTA-1A-5015WS	6/8/2001	106048
OU5-CTA-1D-4909RS	6/8/2001	106048
OU5-CTA-1D-4925US	6/8/2001	106048
OU5-CTA-1A-5012WS	6/8/2001	106048
OU5-CTA-1D-4907TS	6/8/2001	106048
OU5-CTA-1C-5018VNS	6/8/2001	106048
OU5-CTA-1A-5011WS	6/8/2001	106055
OU5-CTA-1A-5015VNS	6/8/2001	106055
OU5-CTA-1A-5015WS	6/8/2001	106055
OU5-CTA-1D-4925US	6/8/2001	106055
OU5-CSA-11-5001RP	6/11/2001	106056
OU5-CTA-1B-3810(52)	6/11/2001	106056
OU5-CTA-1C-5001US	6/11/2001	106056

OU-5 SAMPLES COLLECTED FROM 4/03/01 TO 6/29/01 (Report No. 6)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1A-5018WS	6/11/2001	106056
OU5-CTA-1C-3740FR	6/11/2001	106056
OU5-CTA-1B-4005(52)	6/11/2001	106056
OU5-CTA-1C-5015RP	6/11/2001	106056
OU5-CTA-1D-4930TS	6/11/2001	106056
OU5-CTA-1C-5001US	6/11/2001	106062
OU5-CTA-1C-5016US	6/12/2001	106064
OU5-CTA-1A-5045VNS	6/12/2001	106064
OU5-CSA-4-4010(48)	6/12/2001	106064
OU5-CTA-1A-5001WS	6/12/2001	106064
OU5-CTA-1A-5003WS	6/12/2001	106064
OU5-CTA-1D-4913RS	6/12/2001	106064
OU5-CTA-1A-4210FR	6/13/2001	106078
OU5-CTA-1D-4919SegS	6/13/2001	106078
OU5-CTA-1A-5108(52C)	6/13/2001	106078
OU5-CTA-1C-5038VNS	6/13/2001	106078
OU5-CTA-1D-4101FR	6/13/2001	106078
OU5-CTA-1D-4830TS	6/13/2001	106078
OU5-CTA-1C-5160TS	6/13/2001	106078
OU5-CTA-1A-4210FR	6/13/2001	106077
OU5-CSA-2-5040AS	6/13/2001	106078
OU5-CTA-1D-4101FR	6/13/2001	106077
OU5-CTA-1C-5010VNS	6/14/2001	106080
OU5-CTA-1C-5166TS	6/14/2001	106079
OU5-CTA-1A-5006WS	6/14/2001	106079
OU5-CTA-1A-5104WP	6/14/2001	106079
OU5-CTA-1D-3914(49)	6/14/2001	106079
OU5-CTA-1A-4214(50)	6/14/2001	106079
OU5-CSA-2-5153YS	6/14/2001	106079
OU5-CTA-1A-4214(50)	6/14/2001	106080
OU5-CTA-1C-5010VNS	6/14/2001	106079
OU5-CTA-1A-5006WS	6/14/2001	106080
OU5-CTA-1A-5109WP	6/14/2001	106079
OU5-CTA-1B-5129(52)	6/15/2001	106089
OU5-CTA-1A-4246(50)	6/15/2001	106089
OU5-CTA-1A-5112(52C)	6/15/2001	106089
OU5-CTA-1B-5100US	6/15/2001	106089
OU5-CTA-1C-5100VNS	6/15/2001	106089
OU5-CTA-1C-5120VNS	6/15/2001	106089
OU5-CTA-1A-4246(50)	6/15/2001	106090
OU5-CTA-1A-5005WS	6/15/2001	106089
OU5-CTA-1C-5101US	6/15/2001	106089
OU5-CTA-1C-5017US	6/18/2001	106099
OU5-CTA-1D-4920RS	6/18/2001	106099
OU5-CTA-1A-5111(52C)	6/18/2001	106099
OU5-CSA-4-3910(47)	6/18/2001	106099
OU5-CTA-1A-5107(52C)	6/18/2001	106100
OU5-CTA-1B-4020(51)	6/18/2001	106099
OU5-CTA-1A-5107(52C)	6/18/2001	106099
OU5-CTA-1C-5132TS	6/18/2001	106099

OU-5 SAMPLES COLLECTED FROM 4/03/01 TO 6/29/01 (Report No. 6)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1C-5050VNS	6/18/2001	106099
OU5-CTA-1A-5115VNS	6/19/2001	106102
OU5-CTA-1C-5025RP	6/19/2001	106102
OU5-CTA-1B-5163TS	6/19/2001	106102
OU5-CTA-1A-5023WS	6/19/2001	106102
OU5-CTA-1A-4200(49)	6/19/2001	106102
OU5-CTA-1D-4911SegS	6/19/2001	106102
OU5-CTA-1B-5163TS	6/19/2001	106105
OU5-CTA-1C-5040US	6/19/2001	106102
OU5-CTA-1D-4911SegS	6/19/2001	106105
OU5-CTA-1D-4915SegS	6/19/2001	106102
OU5-CTA-1C-5025TS	6/20/2001	106112
OU5-CTA-1C-5109US	6/20/2001	106112
OU5-CTA-1A-5101VNS	6/20/2001	106112
OU5-CTA-1C-5142TS	6/20/2001	106112
OU5-CTA-1A-5021VNS	6/20/2001	106112
OU5-CTA-1A-4208(50)	6/21/2001	106118
OU5-CTA-1A-5110(52C)	6/21/2001	106119
OU5-CTA-1C-5011SegS	6/21/2001	106119
OU5-CTA-1A-4208(50)	6/21/2001	106119
OU5-CTA-1C-5041US	6/21/2001	106118
OU5-CTA-1C-5011SegS	6/21/2001	106118
OU5-CTA-1A-5110(52C)	6/21/2001	106118
OU5-CSA-10-3712(48)	6/21/2001	106118
OU5-CTA-1B-5137(52)	6/21/2001	106118
OU5-CTA-1C-5053SegS	6/21/2001	106118
OU5-CTA-1C-3712FR	6/22/2001	106129
OU5-CTA-1B-3838(52)	6/22/2001	106130
OU5-CTA-1A-4220FR	6/22/2001	106130
OU5-CTA-1A-4220FR	6/22/2001	106129
OU5-CTA-1C-5025US	6/22/2001	106129
OU5-CTA-1C-3730FR	6/22/2001	106129
OU5-CTA-1A-5104(52C)	6/22/2001	106129
OU5-CTA-1B-3820(52)	6/22/2001	106129
OU5-CTA-1B-3838(52)	6/22/2001	106129
OU5-CTA-1B-3801(52)	6/22/2001	106129
OU5-CTA-1A-4248(50)	6/25/2001	106136
OU5-CTA-1D-3810(49)	6/25/2001	106139
OU5-CTA-1D-3819(49)	6/25/2001	106139
OU5-CTA-1D-3900(49)	6/25/2001	106139
OU5-CTA-1D-4910SegS	6/25/2001	106139
OU5-CTA-1A-4226(50)	6/25/2001	106139
OU5-CTA-1A-4230FR	6/25/2001	106139
OU5-CTA-1A-4201FR	6/25/2001	106139
OU5-CTA-1D-3819(49)	6/25/2001	106136
OU5-CTA-1A-4230FR	6/25/2001	106136
OU5-CTA-1D-4910SegS	6/25/2001	106136
OU5-CTA-1B-4040(51)	6/25/2001	106136
OU5-CTA-1A-4226(50)	6/25/2001	106136
OU5-CTA-1A-4201FR	6/25/2001	106136

OU-5 SAMPLES COLLECTED FROM 4/03/01 TO 6/29/01 (Report No. 6)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1D-3900(49)	6/25/2001	106136
OU5-CTA-1C-3812FR	6/25/2001	106136
OU5-CTA-1D-3810(49)	6/25/2001	106136
OU5-CTA-1A-5013WS	6/26/2001	106145
OU5-CTA-1A-5004WS	6/26/2001	106145
OU5-CTA-1C-3750FR	6/26/2001	106147
OU5-CTA-1A-5013WS	6/26/2001	106147
OU5-CTA-1C-5035RP	6/26/2001	106147
OU5-CTA-1D-4926SegS	6/26/2001	106147
OU5-CTA-1B-5169TS	6/26/2001	106147
OU5-CTA-1B-5116RP	6/26/2001	106147
OU5-CTA-1C-5035RP	6/26/2001	106145
OU5-CTA-1A-5004WS	6/26/2001	106147
OU5-CTA-1B-5169TS	6/26/2001	106145
OU5-CTA-1B-5124RP	6/26/2001	106147
OU5-CTA-1B-5141TS	6/26/2001	106147
OU5-CTA-1D-3806(49)	6/27/2001	106156
OU5-CTA-1C-5012TS	6/27/2001	106157
OU5-CTA-1D-4924SegS	6/27/2001	106157
OU5-CTA-1D-4922SegS	6/27/2001	106157
OU5-CTA-1A-4911VNS	6/27/2001	106157
OU5-CTA-1D-3806(49)	6/27/2001	106157
OU5-CTA-1C-5024SegS	6/27/2001	106157
OU5-CTA-1D-4927SegS	6/27/2001	106157
OU5-CTA-1A-5120(52)	6/27/2001	106157
OU5-CTA-1A-5116(52)	6/27/2001	106157
OU5-CTA-1D-4923SegS	6/27/2001	106157
OU5-CTA-1C-5046SegS	6/28/2001	106165
OU5-CTA-1C-5054SegS	6/28/2001	106165
OU5-CTA-1C-5046SegS	6/29/2001	106186
OU5-CTA-1C-5040SegS	6/29/2001	106186
OU5-CSA-4-3900(48)	6/29/2001	106186
OU5-CSA-2-5101YS	6/29/2001	106186
OU5-CSA-4-4007(49)	6/29/2001	106186
OU5-CSA-10-3715(49)	6/29/2001	106186
OU5-CSA-10-3721(49)	6/29/2001	106186
OU5-CSA-4-3916(48)	6/29/2001	106186
OU5-CTA-1C-5054SegS	6/29/2001	106186

QUALITY ASSURANCE SUMMARY REPORT (NO. 6) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-5 SAMPLING

SAMPLING FOR APRIL 3, 2001 THROUGH JUNE 29, 2001

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-5 sampling locations between April 3 and June 29, 2001. The samples are identified by Sample Delivery Groups (SDGs). An SDG represents the samples that were prepared and analyzed together (i.e., the analytical batch) with common laboratory QC samples. The sampling period covered in this report includes many SDGs, as indicated on the tables. Analytes in these SDGs include arsenic, 1,4-oxathiane, 1,4-dithiane, thiodiglycol, explosives, lewisite (CVAA/CVAO), sulfur mustard, and total cyanide.

All work was performed in accordance with the OU-5 Work Management Plan (WMP) prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including

sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected, and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: equipment blank contamination; accuracy (% recovery) outliers, precision (RPD) outliers, calibration outliers, holding time violations and reported detections less than the practical quantitation limit (PQL). Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for these SDGs. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: laboratory and field blank contamination; accuracy and precision outliers, calibration outliers, internal standard outliers and reported detections less than the PQL. Details concerning these problems are presented below by analytical parameter.

Organosulfur Compounds

- Accuracy outliers were reported for the laboratory control samples (LCS) associated with the following SDGs (analytical batches): 106031, 106080, 106090, 106100, 106105, 106119 and 106130. The reported percent recovery for target analyte 1,4-dithiane was below the control limit. Although the analyte was not detected in any of the affected samples, the reported PQLs have been qualified as estimated and flagged ‘UL’. The ‘L’ qualifier indicates a low bias meaning the true PQL may be higher than the reported PQL. The reported data is usable for most purposes, including risk assessment.

- Accuracy outliers were reported for the LCS associated with the following SDGs: 106055, 106062, 106077, 106139, 106145 and 106156. The reported recoveries for 1,4-dithiane and 1,4-oxathiane were below the control limits. Although the analytes were not detected in any of the affected samples, the reported PQLs have been qualified as estimated and flagged 'UL'. The 'L' qualifier indicates a low bias meaning the true PQL may be higher than the reported PQL.

- Accuracy outliers were reported for the LCS associated with some equipment blanks (OU5-CTA-1A-4226 (50)-SBEB01 and OU5-CTA-1B-5212 (UT)-SB-EB02) associated with some of the environmental samples. The reported recoveries for target analytes 1,4-oxathiane or 1,4-dithiane were below the control limits. Although the analytes were not detected in any of the affected samples, the reported PQL have been qualified as estimated and flagged 'UL'.

Explosives

- The laboratory reported that the required QC for target explosive nitroglycerine was not performed with the initial extraction for some samples in SDGs 106119, 106130 and 106145. The affected samples were re-extracted outside the required holding time. The laboratory reported the results from the re-extractions only. Although the target analyte was not detected in any of the affected samples, in either the original or re-extracted samples, the reported PQLs for the affected samples have been qualified as estimates and flagged 'UJ' due to the holding time violation.

- Accuracy outliers were reported for nitrobenzene for the LCS associated with the samples in SDGs: 106100 and 106105. The reported recoveries were below the control limit. Reported results for the affected target analytes in the affected samples have been qualified as estimates and flagged 'UL' and should be considered biased low**.** The 'L qualifier indicates a low bias meaning the true PQL may be higher than the reported PQL. The reported data is usable for most purposes, including risk assessment.

- Accuracy outliers were reported for the LCS associated with SDG 106031. The reported percent recoveries were below the control limit. Although the target analytes were not detected in any of the affected samples, the reported PQLs have been qualified as estimated and flagged 'UL'. The 'L' qualifier indicates a low bias meaning the true PQL may be higher than the reported PQL. The reported data is usable for most purposes, including risk assessment.

Thiodiglycol

- Accuracy outliers were reported for thiodiglycol for the LCS associated with the equipment blank in SDG 106139 (OU5-CTA-1A-4226 (50)-SB-EB01). The reported recovery was below the control limit. The reported PQL for thiodiglycol in the equipment blank has been qualified as estimates and flagged 'UL' and should be considered biased low**.**

Metals

- Some reported arsenic results have been qualified as estimated and flagged 'J'. This flag indicates the analyte was positively identified but the associated value is less than the PQL. Samples in the following SDGs were affected: 106025, 106033, 106048, 106056, 106064, 106078, 106079, 106089, 104020 and 104028.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the actual result or PQL may be higher than the reported result. The reported data is usable for most purposes, including risk assessment. Samples in the following SDGs were affected: 106118, 106129, 106165 and 106186.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'K/JK'. The 'K' qualifier indicates a high bias meaning the actual result may be lower than the reported result. The reported data is

usable for most purposes, including risk assessment. Samples in the following SDGs were affected: 104028, 106025, 106102 and 106112.

- Precision (relative percent difference) outliers were reported for arsenic for the laboratory duplicate associated with the following SDGs: 106102, 106118, 106129, 106136, 106147, 106157 and 106165. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'J/UJ'.

- The equipment blank associated with the samples in SDG 106186 contained arsenic. Reported detections of arsenic in the associated samples at levels comparable to the level found in the equipment blank have been qualified as estimates and flagged 'B/JB'. These results should be considered biased high due to the equipment blank contamination.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-5 SAMPLING FOR THE PERIOD

7/02/01 TO 9/07/01

(REPORT NO.7)

OU-5 SAMPLES COLLECTED FROM 7/02/01 TO 9/07/01 (Report No. 7)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1C-5033US	7/2/2001	106191
OU5-CTA-1C-5024US	7/2/2001	106191
OU5-CTA-1C-5006TS	7/2/2001	106191
OU5-CTA-1C-4000FR	7/2/2001	106191
OU5-CTA-1A-5112(52)	7/2/2001	106191
OU5-CTA-1D-4900SegS	7/2/2001	106191
OU5-CTA-1A-5137VNS	7/2/2001	106191
OU5-CSA-3-4215(49)	7/2/2001	106191
OU5-CTA-1D-4930SegS	7/2/2001	106191
OU5-CTA-1C-5058SegS	7/2/2001	106191
OU5-CTA-1D-4900SegS	7/2/2001	106190
OU5-CTA-1C-5117US	7/3/2001	106195
OU5-CTA-1A-5001VNS	7/3/2001	106194
OU5-CTA-1A-5001VNS	7/3/2001	106195
OU5-CTA-1C-5125US	7/3/2001	106195
OU5-CTA-1A-5014WS	7/3/2001	106195
OU5-CTA-1C-5044VNS	7/5/2001	107003
OU5-CTA-1D-3933FR	7/5/2001	107003
OU5-CTA-1A-5106(52C)	7/5/2001	107005
OU5-CTA-1D-3921(49)	7/5/2001	107003
OU5-CTA-1A-4232(50)	7/5/2001	107003
OU5-CTA-1A-4232(50)	7/5/2001	107005
OU5-CTA-1D-4841SegS	7/5/2001	107005
OU5-CTA-1A-5106(52C)	7/5/2001	107003
OU5-CSA-2-5101YP	7/5/2001	107003
OU5-CTA-1C-5019SegS	7/5/2001	107003
OU5-CTA-1D-4841SegS	7/5/2001	107003
OU5-CTA-1D-3933FR	7/5/2001	107005
OU5-CTA-1A-5102(52C)	7/5/2001	107003
OU5-CTA-1D-3913(49)	7/5/2001	107003
OU5-CSA-8-4456SegS	7/6/2001	107014
OU5-CSA-10-3808UA	7/6/2001	107014
OU5-CSA-2-5108YS	7/6/2001	107014
OU5-CSA-3-4251FR	7/6/2001	107014
OU5-CSA-10-3702CP	7/6/2001	107014
OU5-CSA-10-3637(49)	7/6/2001	107014
OU5-CSA-12-5063OR	7/6/2001	107014
OU5-CSA-10-3812(47)	7/6/2001	107014
OU5-CSA-4-3900UA	7/6/2001	107014
OU5-CSA-12-5069OR	7/6/2001	107014
OU5-CSA-2-5111YP	7/6/2001	107014
OU5-CSA-2-5143YS	7/6/2001	107014
OU5-CSA-4-4812TS	7/6/2001	107014
OU5-CSA-4-3908(48)	7/6/2001	107014
OU5-CSA-4-4015(49)	7/6/2001	107014
OU5-CSA-2-4400(50)	7/6/2001	107014
OU5-CSA-3-4113(49)	7/6/2001	107014
OU5-CSA-10-3645(49)	7/6/2001	107014
OU5-CSA-11-3601FR	7/6/2001	107014
OU5-CSA-11-3716(49)	7/6/2001	107014
OU5-CSA-2-5118YS	7/6/2001	107014
OU5-CSA-10-4828QS	7/6/2001	107014
OU5-CSA-11-4985RP	7/6/2001	107014
OU5-CSA-12-5057OR	7/6/2001	107014
OU5-CSA-10-4813QS	7/6/2001	107014
OU5-CSA-12-5051OR	7/6/2001	107014
OU5-CTA-1A-5009WS	7/9/2001	107017
OU5-CTA-1D-4920US	7/9/2001	107017
OU5-CTA-1D-4914US	7/9/2001	107017
OU5-CTA-1A-4209(50)	7/9/2001	107017
OU5-CTA-1D-4937TS	7/9/2001	107017
OU5-CTA-1D-4929TS	7/9/2001	107017

OU-5 SAMPLES COLLECTED FROM 7/02/01 TO 9/07/01 (Report No. 7)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1C-4125(52)	7/9/2001	107017
OU5-CTA-1A-4998WS	7/9/2001	107017
OU5-CTA-1A-4209(50)	7/9/2001	107018
OU5-CTA-1A-4219(50)	7/9/2001	107017
OU5-CTA-1A-4225(50)	7/9/2001	107017
OU5-CTA-1A-4225(50)	7/9/2001	107018
OU5-CTA-1A-4219(50)	7/9/2001	107018
OU5-CTA-1D-4826SegS	7/10/2001	107029
OU5-CTA-1D-4847SegS	7/10/2001	107029
OU5-CTA-1D-4831SegS	7/10/2001	107027
OU5-CTA-1D-4856SegS	7/10/2001	107029
OU5-CTA-1D-4835SegS	7/10/2001	107029
OU5-CTA-1D-4834SegS	7/10/2001	107029
OU5-CTA-1D-4831SegS	7/10/2001	107038
OU5-CTA-1D-4833RS	7/10/2001	107029
OU5-CTA-1D-4840SegS	7/10/2001	107029
OU5-CTA-1D-4833RS	7/10/2001	107027
OU5-CSA-10-3714CP	7/10/2001	107027
OU5-CTA-1D-4911TS	7/10/2001	107027
OU5-CTA-1D-4834SegS	7/10/2001	107027
OU5-CTA-1D-4856SegS	7/10/2001	107027
OU5-CTA-1D-4835SegS	7/10/2001	107027
OU5-CTA-1A-5010WS	7/10/2001	107027
OU5-CTA-1D-4840SegS	7/10/2001	107027
OU5-CTA-1D-4847SegS	7/10/2001	107027
OU5-CTA-1D-4826SegS	7/10/2001	107027
OU5-CTA-1D-4805SegS	7/11/2001	107037
OU5-CTA-1D-4853SegS	7/11/2001	107037
OU5-CTA-1A-5103(52C)	7/11/2001	107037
OU5-CTA-1D-4825RS	7/11/2001	107038
OU5-CTA-1A-5114(52)	7/11/2001	107037
OU5-CTA-1D-3816(48)	7/11/2001	107037
OU5-CTA-1D-4936RS	7/11/2001	107037
OU5-CTA-1D-4825RS	7/11/2001	107037
OU5-CTA-1D-4853SegS	7/11/2001	107037
OU5-CTA-1D-4107FR	7/11/2001	107037
OU5-CTA-1D-4107FR	7/11/2001	107038
OU5-CTA-1C-5032US	7/11/2001	107037
OU5-CTA-1D-4905RS	7/12/2001	107050
OU5-CTA-1D-4840RS	7/12/2001	107050
OU5-CTA-1D-4900RS	7/12/2001	107050
OU5-CTA-1B-5212UT	7/12/2001	107053
OU5-CTA-1D-4907US	7/12/2001	107050
OU5-CTA-1D-4917RS	7/12/2001	107050
OU5-CTA-1D-4838RS	7/12/2001	107050
OU5-CTA-1D-3915(49)	7/12/2001	107050
OU5-CTA-1B-5212UT	7/12/2001	107050
OU5-CSA-5-4102(46)	7/13/2001	107064
OU5-CSA-4-4822US	7/13/2001	107064
OU5-CSA-6-4201WS	7/13/2001	107064
OU5-CSA-10-4720SegS	7/13/2001	107064
OU5-CSA-5-4221(45)	7/13/2001	107064
OU5-CSA-4-4021(48)	7/13/2001	107064
OU5-CSA-10-3817(47)	7/13/2001	107064
OU5-CSA-6-4205WS	7/13/2001	107064
OU5-CSA-5-4450VP	7/13/2001	107064
OU5-CSA-4-4004(48)	7/13/2001	107064
OU5-CSA-11-4929HL	7/13/2001	107064
OU5-CSA-4-4009(48)	7/13/2001	107064
OU5-CSA-6-4200(43)	7/13/2001	107064
OU5-CSA-10-3818(47)	7/13/2001	107064
OU5-CSA-3-4205(49)	7/13/2001	107064

OU-5 SAMPLES COLLECTED FROM 7/02/01 TO 9/07/01 (Report No. 7)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-4-3915(48)	7/13/2001	107064
OU5-CSA-3-4207(48P)	7/13/2001	107064
OU5-CSA-3-4109(49)	7/13/2001	107064
OU5-CSA-10-3810(47)	7/13/2001	107064
OU5-CSA-4-3905(47)	7/13/2001	107064
OU5-CSA-10-3729CP	7/13/2001	107064
OU5-CSA-10-3718UA	7/13/2001	107064
OU5-CSA-10-3713CP	7/13/2001	107064
OU5-CSA-10-3710CP	7/13/2001	107064
OU5-CSA-10-3709CP	7/13/2001	107064
OU5-CSA-4-3915(47)	7/13/2001	107064
OU5-CSA-10-3706CP	7/13/2001	107064
OU5-CSA-6-4217VNS	7/13/2001	107064
OU5-CSA-4-3911(47)	7/13/2001	107064
OU5-CSA-3-4208(48P)	7/13/2001	107064
OU5-CSA-6-4301(45)	7/13/2001	107064
OU5-CSA-8-4444SS	7/13/2001	107064
OU5-CSA-5-4150(46)	7/13/2001	107064
OU5-CSA-10-3705CP	7/13/2001	107064
OU5-CSA-4-3920(47)	7/13/2001	107064
OU5-CSA-4-3901(47)	7/13/2001	107064
OU5-CSA-10-3814(47)	7/13/2001	107064
OU5-CSA-4-3906(47)	7/13/2001	107064
OU5-CSA-5-4104(46)	7/13/2001	107064
OU5-CSA-4-3909(48)	7/13/2001	107064
OU5-CSA-3-4117(48)	7/13/2001	107064
OU5-CTA-1B-3949(52)	7/16/2001	107068
OU5-CTA-1C-3808FR	7/16/2001	107068
OU5-CTA-1D-3908(49)	7/16/2001	107068
OU5-CTA-1D-4801RS	7/16/2001	107068
OU5-CTA-1D-4822TS	7/16/2001	107068
OU5-CTA-1B-3803(52)	7/16/2001	107068
OU5-CTA-1D-4823SegS	7/16/2001	107068
OU5-CTA-1B-3815(52)	7/16/2001	107068
OU5-CTA-1B-4000(52)	7/16/2001	107068
OU5-CTA-1D-4811SegS	7/16/2001	107068
OU5-CTA-1D-4901RS	7/17/2001	107079
OU5-CTA-1D-4930RS	7/17/2001	107079
OU5-CTA-1D-4924VNS	7/17/2001	107079
OU5-CTA-1D-4918TS	7/17/2001	107079
OU5-CTA-1D-4908US	7/17/2001	107079
OU5-CTA-1C-5020SegS	7/17/2001	107079
OU5-CTA-1D-4940RS	7/17/2001	107079
OU5-CTA-1D-4912TS	7/17/2001	107079
OU5-CTA-1B-5175TS	7/17/2001	107079
OU5-CTA-1B-5175TS	7/17/2001	107078
OU5-CTA-1D-4914SegS	7/17/2001	107079
OU5-CTA-1B-5131(52)	7/18/2001	107090
OU5-CTA-1A-5106WP	7/18/2001	107090
OU5-CTA-1A-5107WP	7/18/2001	107090
OU5-CTA-1D-4822RS	7/18/2001	107090
OU5-CTA-1C-5033TS	7/18/2001	107090
OU5-CTA-1D-4834RS	7/18/2001	107090
OU5-CTA-1A-5016WS	7/18/2001	107090
OU5-CTA-1C-5047SegS	7/18/2001	107090
OU5-CTA-1B-5153TS	7/18/2001	107090
OU5-CTA-1C-5100TS	7/18/2001	107090
OU5-CTA-1B-5155RP	7/18/2001	107090
OU5-CTA-1D-4916VNS	7/19/2001	107100
OU5-CTA-1D-3815(49)	7/19/2001	107100
OU5-CTA-1D-3816(49)	7/19/2001	107100
OU5-CTA-1C-5074SegS	7/19/2001	107100

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OU5-CTA-1B-4050(52)	7/19/2001	107100
OU5-CTA-1B-4010(51)	7/19/2001	107100
OU5-CSA-2-5101YP	7/19/2001	107100
OU5-CTA-1D-3816(49)	7/19/2001	107101
OU5-CTA-1C-5068SegS	7/19/2001	107100
OU5-CSA-2-5101YP	7/19/2001	107101
OU5-CTA-1B-4050(52)	7/19/2001	107101
OU5-CTA-1C-5068SegS	7/19/2001	107101
OU5-CTA-1C-5074SegS	7/19/2001	107101
OU5-CTA-1D-3815(49)	7/19/2001	107101
OU5-CSA-11-4901QS	7/20/2001	107111
OU5-CSA-2-5118WP	7/20/2001	107111
OU5-CSA-6-4305VNS	7/20/2001	107111
OU5-CSA-6-4329VP	7/20/2001	107111
OU5-CSA-2-5120WP	7/20/2001	107111
OU5-CSA-6-4315VNS	7/20/2001	107111
OU5-CSA-10-3715(48)	7/20/2001	107111
OU5-CSA-2-5109(52)	7/20/2001	107111
OU5-CSA-6-4336WS	7/20/2001	107111
OU5-CSA-2-5117(52)	7/20/2001	107111
OU5-CSA-6-4324(43)	7/20/2001	107111
OU5-CSA-2-5105(52)	7/20/2001	107111
OU5-CSA-6-4321(43)	7/20/2001	107111
OU5-CSA-3-4204(48P)	7/20/2001	107111
OU5-CSA-2-5108WP	7/20/2001	107111
OU5-CSA-6-4331(43)	7/20/2001	107111
OU5-CSA-6-4317WinP	7/20/2001	107111
OU5-CSA-6-4211(43)	7/20/2001	107111
OU5-CSA-7-4316VNS	7/20/2001	107111
OU5-CSA-4-4722US	7/20/2001	107111
OU5-CSA-6-4312WS	7/20/2001	107111
OU5-CSA-12-3514OC	7/20/2001	107111
OU5-CSA-6-4311WinP	7/20/2001	107111
OU5-CSA-11-4955QS	7/20/2001	107111
OU5-CSA-2-5111(52)	7/20/2001	107111
OU5-CSA-2-5123(52)	7/20/2001	107111
OU5-CSA-6-4236AP	7/20/2001	107111
OU5-CSA-2-5139YS	7/20/2001	107111
OU5-CSA-2-5112WP	7/20/2001	107111
OU5-CSA-2-5114WP	7/20/2001	107111
OU5-CSA-6-4221VNS	7/20/2001	107111
OU5-CTA-1B-5135TS	7/23/2001	107112
OU5-CTA-1D-4921TS	7/23/2001	107112
OU5-CTA-1D-4936TS	7/23/2001	107112
OU5-CTA-1A-5105(52C)	7/23/2001	107112
OU5-CTA-1B-5132RP	7/23/2001	107112
OU5-CTA-1C-5027SegS	7/23/2001	107112
OU5-CTA-1C-5001SegS	7/23/2001	107112
OU5-CTA-1C-5001SegS	7/23/2001	107116
OU5-CTA-1D-4921TS	7/23/2001	107116
OU5-CTA-1C-5041SegS	7/23/2001	107112
OU5-CSA-4-4735TS	7/24/2001	107126
OU5-CTA-1C-3940FR	7/24/2001	107126
OU5-CSA-6-4445WS	7/24/2001	107126
OU5-CSA-8-4420SegS	7/24/2001	107126
OU5-CTA-1D-4800SegS	7/24/2001	107126
OU5-CSA-2-5133YS	7/24/2001	107126
OU5-CSA-5-4532VNS	7/24/2001	107126
OU5-CSA-6-4345VP	7/24/2001	107126
OU5-CSA-2-5133YS	7/24/2001	107128
OU5-CTA-1A-4221FR	7/24/2001	107126
OU5-CSA-11-3717FR	7/24/2001	107126

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OU5-CTA-1C-3940FR	7/24/2001	107127
OU5-CSA-5-4602VNS	7/24/2001	107126
OU5-CSA-8-4438TinS	7/24/2001	107126
OU5-CSA-6-4358WinP	7/24/2001	107126
OU5-CSA-3-4105(49)	7/24/2001	107128
OU5-CSA-3-4105(49)	7/24/2001	107126
OU5-CSA-8-4446TinS	7/24/2001	107126
OU5-CSA-8-4462TinS	7/24/2001	107126
OU5-CSA-5-4207(45)	7/24/2001	107126
OU5-CSA-10-4813WL	7/24/2001	107128
OU5-CSA-6-4224AP	7/24/2001	107126
OU5-CSA-4-4608MA	7/24/2001	107126
OU5-CSA-10-4813WL	7/24/2001	107126
OU5-CSA-3-4821VNS	7/25/2001	107128
OU5-CSA-5-4647MA	7/25/2001	107128
OU5-CSA-5-4651MA	7/25/2001	107128
OU5-CSA-10-4714SegS	7/25/2001	107128
OU5-CSA-12-4848RP	7/25/2001	107128
OU5-CSA-5-4600VNS	7/25/2001	107128
OU5-CSA-4-4701SegS	7/25/2001	107128
OU5-CSA-8-4435SS	7/25/2001	107128
OU5-CSA-5-4512VNS	7/25/2001	107128
OU5-CSA-8-4434TinS	7/25/2001	107128
OU5-CSA-8-4424SegS	7/25/2001	107128
OU5-CSA-12-4801LR	7/25/2001	107128
OU5-CSA-10-4700RS	7/25/2001	107128
OU5-CSA-8-4455SS	7/25/2001	107128
OU5-CSA-10-4612SegS	7/25/2001	107128
OU5-CSA-11-4910HL	7/25/2001	107128
OU5-CSA-3-4715US	7/25/2001	107128
OU5-CSA-6-4440WinP	7/25/2001	107128
OU5-CSA-6-4220AP	7/25/2001	107128
OU5-CSA-4-4625SegS	7/25/2001	107128
OU5-CSA-4-4628TS	7/25/2001	107128
OU5-CSA-5-4616VNS	7/25/2001	107128
OU5-CSA-4-4616MA	7/25/2001	107128
OU5-CSA-6-4337VP	7/25/2001	107128
OU5-CSA-5-4534VNS	7/25/2001	107128
OU5-CSA-12-4921RP	7/25/2001	107128
OU5-CSA-12-4901LR	7/25/2001	107128
OU5-CSA-6-4353WS	7/25/2001	107128
OU5-CSA-10-4601RS	7/25/2001	107128
OU5-CSA-6-4444WinP	7/25/2001	107128
OU5-CSA-4-4619SegS	7/25/2001	107128
OU5-CSA-3-4105(49)	7/25/2001	107129
OU5-CSA-10-4813WL	7/25/2001	107129
OU5-CSA-2-5133YS	7/25/2001	107129
OU5-CSA-11-3729FR	7/26/2001	107138
OU5-CSA-3-4732VNS	7/26/2001	107147
OU5-CSA-10-4813QS	7/26/2001	107147
OU5-CSA-11-3729FR	7/26/2001	107147
OU5-CSA-11-3735FR	7/26/2001	107147
OU5-CSA-2-5110YS	7/26/2001	107147
OU5-CSA-10-3880UA	7/26/2001	107147
OU5-CSA-11-3717FR	7/26/2001	107147
OU5-CSA-10-4800QS	7/26/2001	107147
OU5-CSA-2-5110YS	7/26/2001	107138
OU5-CSA-3-4732VNS	7/26/2001	107138
OU5-CSA-11-3735FR	7/26/2001	107138
OU5-CSA-11-3717FR	7/26/2001	107138
OU5-CSA-10-3880UA	7/26/2001	107138
OU5-CSA-10-4813QS	7/26/2001	107138

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OU5-CSA-10-4800QS	7/26/2001	107138
OU5-CTA-1C-3800FR	7/26/2001	107138
OU5-CSA-7-4010VNS	7/26/2001	107147
OU5-CSA-7-4010VNS	7/26/2001	107138
OU5-CSA-10-4844QS	7/26/2001	107138
OU5-CSA-10-4844QS	7/26/2001	107147
OU5-CSA-6-4449WS	7/27/2001	107139
OU5-CSA-12-4903RP	7/27/2001	107139
OU5-CSA-3-4212(48P)	7/27/2001	107139
OU5-CSA-4-4710TS	7/27/2001	107139
OU5-CSA-3-4829US	7/27/2001	107139
OU5-CSA-12-4853RP	7/27/2001	107139
OU5-CSA-12-4926RP	7/27/2001	107139
OU5-CSA-12-4850RP	7/27/2001	107139
OU5-CSA-10-4628SegS	7/27/2001	107139
OU5-CSA-8-4450TinS	7/27/2001	107139
OU5-CSA-11-4915HL	7/27/2001	107139
OU5-CSA-11-4955GR	7/27/2001	107139
OU5-CSA-3-4805VNS	7/27/2001	107139
OU5-CSA-12-4837LR	7/27/2001	107139
OU5-CSA-10-4708SegS	7/27/2001	107139
OU5-CSA-4-4800US	7/27/2001	107139
OU5-CSA-12-4856RP	7/27/2001	107139
OU5-CSA-12-4830RP	7/27/2001	107139
OU5-CSA-4-4710US	7/27/2001	107139
OU5-CSA-3-4121(48)	7/27/2001	107139
OU5-CSA-11-4943HL	7/27/2001	107139
OU5-CSA-4-4654US	7/27/2001	107139
OU5-CSA-11-4962QS	7/27/2001	107139
OU5-CSA-3-4835VNS	7/27/2001	107139
OU5-CSA-11-4923HL	7/27/2001	107139
OU5-CSA-11-4959HL	7/27/2001	107139
OU5-CSA-12-4907RP	7/27/2001	107139
OU5-CSA-6-4323WS	7/27/2001	107139
OU5-CSA-6-4348WS	7/27/2001	107139
OU5-CSA-12-4934IL	7/27/2001	107139
OU5-CSA-12-4960RP	7/27/2001	107139
OU5-CSA-12-4929RP	7/27/2001	107139
OU5-CSA-12-4928IL	7/27/2001	107139
OU5-CSA-4-4721TS	7/27/2001	107139
OU5-CSA-11-4932HL	7/27/2001	107139
OU5-CSA-11-4926HL	7/27/2001	107139
OU5-CSA-3-4747US	7/27/2001	107139
OU5-CSA-12-4916RP	7/27/2001	107139
OU5-CSA-10-4701RS	7/27/2001	107139
OU5-CSA-4-4715SegS	7/27/2001	107139
OU5-CSA-6-4333VNS	7/30/2001	107158
OU5-CSA-6-4340VP	7/30/2001	107157
OU5-CSA-3-4849US	7/30/2001	107158
OU5-CSA-8-4453SegS	7/30/2001	107158
OU5-CSA-3-4849US	7/30/2001	107157
OU5-CSA-6-4256WS	7/30/2001	107158
OU5-CSA-6-4256WS	7/30/2001	107157
OU5-CSA-6-4340VP	7/30/2001	107158
OU5-CSA-6-4344VP	7/30/2001	107158
OU5-CTA-1D-4936RS	7/30/2001	107157
OU5-CTA-1D-4936RS	7/30/2001	107158
OU5-CSA-6-4344VP	7/30/2001	107157
OU5-CSA-8-4453SegS	7/30/2001	107157
OU5-CSA-6-4333VNS	7/30/2001	107157
OU5-CTA-1D-4021FR	7/30/2001	107158
OU5-CSA-6-4300(42)	7/30/2001	107157

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OU5-CSA-6-4300(42)	7/30/2001	107158
OU5-CTA-1D-4021FR	7/30/2001	107157
OU5-CTA-1C-5032TS	7/31/2001	107164
OU5-CTA-1A-4250FR	7/31/2001	107164
OU5-CTA-1C-4020FR	7/31/2001	107164
OU5-CTA-1A-5008WS	7/31/2001	107164
OU5-CTA-1D-4841RS	7/31/2001	107164
OU5-CTA-1A-5021WS	7/31/2001	107164
OU5-CTA-1A-5008WS	7/31/2001	108002
OU5-CTA-1D-4941TS	7/31/2001	107164
OU5-CTA-1C-4020FR	7/31/2001	108002
OU5-CTA-1D-3807FR	7/31/2001	108002
OU5-CTA-1C-5030VNS	7/31/2001	107164
OU5-CTA-1D-4841RS	7/31/2001	108002
OU5-CTA-1D-3807FR	7/31/2001	107164
OU5-CTA-1D-4941TS	7/31/2001	108002
OU5-CSA-11-4912QS	8/1/2001	108015
OU5-CTA-1D-4830TS	8/1/2001	108014
OU5-CSA-11-4912QS	8/1/2001	108014
OU5-CSA-6-4340WinP	8/1/2001	108015
OU5-CSA-6-4340WinP	8/1/2001	108014
OU5-CSA-11-3630FR	8/1/2001	108015
OU5-CTA-1D-4810SegS	8/1/2001	108014
OU5-CTA-1A-4235FR	8/1/2001	108014
OU5-CTA-1D-3812(48)	8/1/2001	108014
OU5-CSA-11-4980HL	8/1/2001	108014
OU5-CSA-11-3630FR	8/1/2001	108014
OU5-CSA-11-4971HL	8/1/2001	108014
OU5-CTA-1D-4814SegS	8/2/2001	108019
OU5-CTA-1A-5002WS	8/2/2001	108019
OU5-CSA-13-L46	8/2/2001	108019
OU5-CTA-1B-4054(52T)	8/2/2001	108019
OU5-CTA-1B-4060(52T)	8/2/2001	108019
OU5-CSA-13-L51	8/2/2001	108019
OU5-CSA-13-L41	8/2/2001	108019
OU5-CTA-1B-4054(52T)	8/2/2001	108020
OU5-CSA-11-4939QS	8/2/2001	108019
OU5-CTA-1D-4814SegS	8/2/2001	108020
OU5-CSA-13-L47	8/2/2001	108019
OU5-CTA-1B-4060(52T)	8/2/2001	108020
OU5-CSA-11-4939QS	8/2/2001	108020
OU5-CSA-13-L41	8/2/2001	108020
OU5-CSA-13-L46	8/2/2001	108020
OU5-CSA-13-L47	8/2/2001	108020
OU5-CSA-13-L51	8/2/2001	108020
OU5-CTA-1A-5002WS	8/2/2001	108020
OU5-CSA-2-5107(52)	8/3/2001	108026
OU5-CSA-2-5110WP	8/3/2001	108026
OU5-CSA-8-4452SegS	8/3/2001	108026
OU5-CSA-12-5011OR	8/3/2001	108026
OU5-CSA-2-5109YS	8/3/2001	108026
OU5-CSA-12-5020OR	8/3/2001	108026
OU5-CSA-12-5034OR	8/3/2001	108026
OU5-CSA-12-5039OR	8/3/2001	108026
OU5-CSA-10-4711RS	8/3/2001	108026
OU5-CSA-11-4940HL	8/3/2001	108026
OU5-CSA-12-4833RP	8/3/2001	108026
OU5-CSA-4-4810US	8/3/2001	108026
OU5-CSA-2-5131WP	8/3/2001	108026
OU5-CSA-2-5112AS	8/3/2001	108026
OU5-CSA-12-5000OR	8/3/2001	108026
OU5-CSA-2-5103(52)	8/3/2001	108026

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OU5-CSA-12-4970RP	8/3/2001	108026
OU5-CSA-8-4422SS	8/3/2001	108026
OU5-CSA-8-4440SegS	8/3/2001	108026
OU5-CSA-5-4601MA	8/3/2001	108026
OU5-CSA-12-5015OR	8/3/2001	108026
OU5-CSA-2-5038MA	8/3/2001	108026
OU5-CSA-6-4322(42)	8/3/2001	108026
OU5-CSA-11-4973HL	8/3/2001	108026
OU5-CSA-10-4831QS	8/3/2001	108026
OU5-CSA-12-5060OR	8/3/2001	108026
OU5-CSA-12-5110RP	8/3/2001	108026
OU5-CSA-3-4120(48)	8/3/2001	108026
OU5-CSA-2-5115WP	8/3/2001	108026
OU5-CSA-2-5112MA	8/3/2001	108026
OU5-CSA-7-4100NA	8/3/2001	108026
OU5-CSA-3-4225(49)	8/3/2001	108026
OU5-CSA-11-4965RP	8/3/2001	108026
OU5-CSA-6-4232AP	8/3/2001	108026
OU5-CSA-2-5117AS	8/3/2001	108026
OU5-CSA-6-4228AP	8/3/2001	108026
OU5-CSA-12-5053LR	8/3/2001	108026
OU5-CSA-4-4601TS	8/3/2001	108026
OU5-CSA-12-4984RP	8/3/2001	108026
OU5-CSA-3-4724VNS	8/3/2001	108026
OU5-CSA-11-4969HL	8/3/2001	108026
OU5-CSA-4-4600MA	8/3/2001	108026
OU5-CSA-10-3724UA	8/6/2001	108028
OU5-CSA-4-3900UA	8/6/2001	108030
OU5-CSA-10-4722RS	8/6/2001	108030
OU5-CSA-10-4701RS	8/6/2001	108030
OU5-CSA-11-4960HL	8/6/2001	108028
OU5-CSA-11-4960HL	8/6/2001	108030
OU5-CSA-11-4935HL	8/6/2001	108028
OU5-CSA-12-3500OC	8/6/2001	108030
OU5-CSA-11-4935HL	8/6/2001	108030
OU5-CSA-3-4803VNS	8/6/2001	108030
OU5-CSA-10-3724UA	8/6/2001	108030
OU5-CSA-5-4655MA	8/6/2001	108028
OU5-CSA-12-3500OC	8/6/2001	108028
OU5-CSA-10-4701RS	8/6/2001	108028
OU5-CSA-3-4803VNS	8/6/2001	108028
OU5-CSA-4-3900UA	8/6/2001	108028
OU5-CSA-10-4722RS	8/6/2001	108028
OU5-CSA-4-4820US	8/7/2001	108048
OU5-CSA-6-4305WS	8/7/2001	108048
OU5-CSA-11-5001RP	8/7/2001	108048
OU5-CSA-11-4985RP	8/7/2001	108048
OU5-CSA-6-4409WS	8/7/2001	108048
OU5-CSA-3-4832VNS	8/7/2001	108048
OU5-CSA-6-4305WS	8/7/2001	108047
OU5-CSA-7-4360VNS	8/7/2001	108047
OU5-CSA-4-4820US	8/7/2001	108047
OU5-CSA-11-4985RP	8/7/2001	108047
OU5-CSA-11-5001RP	8/7/2001	108047
OU5-CSA-6-4409WS	8/7/2001	108047
OU5-CSA-10-3702CP	8/7/2001	108047
OU5-CSA-6-4410(42)	8/7/2001	108047
OU5-CSA-3-4832VNS	8/7/2001	108047
OU5-CSA-6-4410(42)	8/7/2001	108048
OU5-CSA-10-3702CP	8/7/2001	108048
OU5-CTA-1A-5002(50P)	8/8/2001	108059
OU5-CSA-8-3901(45)	8/8/2001	108058

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OU5-CTA-1A-5004(50P)	8/8/2001	108059
OU5-CTA-1A-5006(50P)	8/8/2001	108059
OU5-CSA-4-3915(48)	8/8/2001	108059
OU5-CTA-1A-5005(50P)	8/8/2001	108059
OU5-CSA-4-3915(48)	8/8/2001	108058
OU5-CSA-8-3901(45)	8/8/2001	108059
OU5-CSA-13-L39	8/9/2001	108069
OU5-CSA-13-L44	8/9/2001	108069
OU5-CSA-13-L71	8/9/2001	108069
OU5-CSA-2-5100YS	8/9/2001	108069
OU5-CTA-1A-4992WS	8/9/2001	108069
OU5-CTA-1A-4988WS	8/9/2001	108068
OU5-CSA-2-5102YS	8/9/2001	108068
OU5-CSA-2-5100YS	8/9/2001	108068
OU5-CSA-13-L44	8/9/2001	108068
OU5-CTA-1A-4992WS	8/9/2001	108068
OU5-CSA-13-L71	8/9/2001	108068
OU5-CSA-13-L39	8/9/2001	108068
OU5-CSA-2-5103YC	8/9/2001	108068
OU5-CSA-6-4453WS	8/10/2001	108070
OU5-CSA-12-4914GR	8/10/2001	108070
OU5-CSA-12-4940IL	8/10/2001	108070
OU5-CSA-3-4840VNS	8/10/2001	108070
OU5-CSA-8-4469SegS	8/10/2001	108070
OU5-CSA-2-5129WP	8/10/2001	108070
OU5-CSA-2-5116WP	8/10/2001	108070
OU5-CSA-10-4610RS	8/10/2001	108070
OU5-CSA-3-4736MA	8/10/2001	108070
OU5-CSA-10-4725QS	8/10/2001	108070
OU5-CSA-3-4833US	8/10/2001	108070
OU5-CSA-12-5000RP	8/10/2001	108070
OU5-CSA-4-4728TS	8/10/2001	108070
OU5-CSA-4-4801TS	8/10/2001	108070
OU5-CSA-10-4807QS	8/10/2001	108070
OU5-CSA-4-4719SegS	8/10/2001	108070
OU5-CSA-12-5042OR	8/10/2001	108070
OU5-CSA-11-4951RP	8/10/2001	108070
OU5-CSA-11-4977GR	8/10/2001	108070
OU5-CSA-11-4975HL	8/10/2001	108070
OU5-CSA-12-5001LR	8/10/2001	108070
OU5-CSA-12-5045OR	8/10/2001	108070
OU5-CTA-1A-5108(52)	8/13/2001	108082
OU5-CTA-1B-5201UT	8/13/2001	108082
OU5-CTA-1A-5103WP	8/13/2001	108083
OU5-CSA-2-5100MA	8/13/2001	108083
OU5-CTA-1D-4931US	8/13/2001	108083
OU5-CTA-1A-5104(52)	8/13/2001	108082
OU5-CTA-1A-5026WS	8/13/2001	108082
OU5-CTA-1A-5103WP	8/13/2001	108082
OU5-CTA-1C-5000VNS	8/13/2001	108082
OU5-CTA-1D-4931US	8/13/2001	108082
OU5-CSA-2-5100MA	8/13/2001	108082
OU5-CSA-7-L41	8/14/2001	108105
OU5-CSA-4-4728US	8/14/2001	108105
OU5-CTA-1D-4821RS	8/14/2001	108105
OU5-CTA-1D-3809(49)	8/14/2001	108105
OU5-CTA-1C-5017TS	8/14/2001	108106
OU5-CTA-1D-4828RS	8/14/2001	108106
OU5-CSA-6-4422(42)	8/14/2001	108105
OU5-CSA-4-4728US	8/15/2001	108106
OU5-CSA-9-L16	8/15/2001	108114
OU5-CSA-9-L47	8/15/2001	108114

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SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-6-4422(42)	8/15/2001	108106
OU5-CSA-9-L22	8/15/2001	108114
OU5-CSA-9-L23	8/15/2001	108114
OU5-CSA-9-L47	8/15/2001	108113
OU5-CSA-9-L22	8/15/2001	108113
OU5-CSA-9-L23	8/15/2001	108113
OU5-CSA-9-L16	8/15/2001	108113
OU5-CTA-1D-3809(49)	8/15/2001	108106
OU5-CSA-7-L39	8/15/2001	108106
OU5-CSA-7-L40	8/15/2001	108106
OU5-CSA-7-L29	8/15/2001	108106
OU5-CSA-7-L30	8/15/2001	108106
OU5-CSA-7-L50	8/15/2001	108106
OU5-CSA-7-L52	8/15/2001	108106
OU5-CSA-7-L41	8/15/2001	108106
OU5-CSA-7-L31	8/15/2001	108106
OU5-CTA-1D-4821RS	8/15/2001	108106
OU5-CSA-7-L51	8/15/2001	108106
OU5-CSA-9-L25	8/16/2001	108115
OU5-CSA-5-L15	8/16/2001	108115
OU5-CSA-9-L40	8/16/2001	108115
OU5-CSA-9-L41	8/16/2001	108115
OU5-CSA-13-L5	8/16/2001	108115
OU5-CSA-9-L29	8/16/2001	108117
OU5-CSA-9-L42	8/16/2001	108115
OU5-CSA-5-L15	8/16/2001	108117
OU5-CSA-9-L40	8/16/2001	108117
OU5-CSA-9-L18	8/16/2001	108117
OU5-CSA-13-L5	8/16/2001	108117
OU5-CSA-9-L25	8/16/2001	108117
OU5-CSA-9-L27	8/16/2001	108117
OU5-CSA-9-L42	8/16/2001	108117
OU5-CSA-9-L41	8/16/2001	108117
OU5-CSA-9-L28	8/16/2001	108117
OU5-CSA-9-L26	8/16/2001	108117
OU5-CSA-12-4838RP	8/17/2001	108129
OU5-CSA-9-L33	8/17/2001	108129
OU5-CSA-8-4457SegS	8/17/2001	108129
OU5-CSA-10-4821WL	8/17/2001	108129
OU5-CSA-2-5129YS	8/17/2001	108129
OU5-CSA-3-4815VNS	8/17/2001	108129
OU5-CSA-10-4817WL	8/17/2001	108129
OU5-CSA-6-4330(42)	8/17/2001	108129
OU5-CSA-2-5119YS	8/17/2001	108129
OU5-CSA-9-L17	8/17/2001	108129
OU5-CSA-9-L36	8/17/2001	108129
OU5-CSA-9-L34	8/17/2001	108129
OU5-CSA-4-4816US	8/17/2001	108129
OU5-CSA-3-4846VNS	8/17/2001	108129
OU5-CSA-9-L46	8/17/2001	108129
OU5-CSA-4-4824US	8/17/2001	108129
OU5-CSA-4-4714US	8/17/2001	108129
OU5-CSA-8-4465SegS	8/17/2001	108129
OU5-CSA-9-L50	8/17/2001	108129
OU5-CSA-3-4809VNS	8/17/2001	108129
OU5-CSA-3-4815US	8/17/2001	108129
OU5-CSA-9-L39	8/17/2001	108129
OU5-CSA-6-4417WS	8/17/2001	108129
OU5-CSA-8-4445SegS	8/17/2001	108129
OU5-CSA-9-L24	8/17/2001	108129
OU5-CSA-6-4426WinP	8/17/2001	108129
OU5-CSA-9-L38	8/17/2001	108129

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SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-8-4428SegS	8/17/2001	108129
OU5-CSA-9-L35	8/17/2001	108129
OU5-CSA-5-4516VNS	8/17/2001	108129
OU5-CSA-5-4659MA	8/17/2001	108129
OU5-CSA-9-L11	8/17/2001	108129
OU5-CSA-2-5107YS	8/17/2001	108129
OU5-CTA-1B-L8	8/20/2001	108139
OU5-CSA-9-L48	8/20/2001	108139
OU5-CTA-1B-L9	8/20/2001	108139
OU5-CTA-1B-L7	8/20/2001	108139
OU5-CTA-1B-L5	8/20/2001	108139
OU5-CSA-9-L51	8/20/2001	108139
OU5-CTA-1B-L10	8/20/2001	108139
OU5-CSA-9-L52	8/20/2001	108139
OU5-CSA-9-L49	8/20/2001	108139
OU5-CTA-1B-L6	8/20/2001	108139
OU5-CSA-9-L31	8/20/2001	108139
OU5-CTA-1D-4850SegS	8/21/2001	108162
OU5-CTA-1D-4925RS	8/21/2001	108162
OU5-CTA-1C-5030SegS	8/21/2001	108162
OU5-CSA-10-4819QS	8/21/2001	108162
OU5-CTA-1C-3822FR	8/21/2001	108162
OU5-CTA-1A-4212(49)	8/21/2001	108162
OU5-CTA-1C-5140TS	8/21/2001	108162
OU5-CTA-1A-4238(50)	8/21/2001	108168
OU5-CTA-1A-4238(50)	8/21/2001	108162
OU5-CTA-1C-3822FR	8/21/2001	108168
OU5-CTA-1D-4850SegS	8/21/2001	108168
OU5-CTA-1C-5170TS	8/22/2001	108173
OU5-CSA-13-L4	8/22/2001	108173
OU5-CTA-1C-5170TS	8/22/2001	108177
OU5-CSA-13-L3	8/22/2001	108173
OU5-CTA-1C-5071SegS	8/22/2001	108173
OU5-CSA-13-L1	8/22/2001	108173
OU5-CTA-1C-5018TS	8/22/2001	108173
OU5-CSA-3-4809US	8/22/2001	108177
OU5-CTA-1A-5102WP	8/22/2001	108173
OU5-CSA-13-L7	8/22/2001	108173
OU5-CSA-13-L6	8/22/2001	108173
OU5-CSA-3-4809US	8/22/2001	108173
OU5-CSA-13-L2	8/22/2001	108173
OU5-CSA-8-L8	8/23/2001	108178
OU5-CSA-5-4127(45)	8/23/2001	108178
OU5-CSA-7-4220VNS	8/23/2001	108178
OU5-CSA-5-L32	8/23/2001	108178
OU5-CSA-8-L6	8/23/2001	108178
OU5-CSA-8-L7	8/23/2001	108178
OU5-CSA-6-4349VP	8/23/2001	108178
OU5-CSA-3-4211(49)	8/23/2001	108178
OU5-CSA-3-4257FR	8/23/2001	108178
OU5-CSA-8-L17	8/23/2001	108178
OU5-CSA-8-L13	8/23/2001	108178
OU5-CSA-8-L3	8/23/2001	108178
OU5-CSA-10-3722(48)	8/23/2001	108178
OU5-CSA-8-L20	8/23/2001	108178
OU5-CSA-8-L1	8/23/2001	108178
OU5-CSA-8-L2	8/23/2001	108178
OU5-CSA-8-L19	8/23/2001	108178
OU5-CSA-8-L4	8/23/2001	108178
OU5-CSA-5-L26	8/23/2001	108178
OU5-CSA-8-L5	8/23/2001	108178
OU5-CSA-6-4220(43)	8/23/2001	108178

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SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-7-4304VNS	8/23/2001	108178
OU5-CSA-5-L31	8/23/2001	108178
OU5-CSA-10-3641(49)	8/23/2001	108178
OU5-CSA-6-4300(44)	8/23/2001	108178
OU5-CSA-8-L18	8/23/2001	108178
OU5-CSA-8-L9	8/23/2001	108178
OU5-CSA-8-L10	8/23/2001	108178
OU5-CSA-5-L30	8/23/2001	108178
OU5-CSA-10-3809(47)	8/23/2001	108178
OU5-CSA-8-L14	8/23/2001	108178
OU5-CSA-8-L12	8/23/2001	108178
OU5-CSA-8-L15	8/23/2001	108178
OU5-CSA-8-L16	8/23/2001	108178
OU5-CSA-8-L11	8/23/2001	108178
OU5-CSA-5-4119(45)	8/23/2001	108178
OU5-CSA-6-4201(44)	8/24/2001	108180
OU5-CSA-6-4341WS	8/24/2001	108180
OU5-CSA-10-4615RS	8/24/2001	108180
OU5-CSA-6-4328VP	8/24/2001	108180
OU5-CSA-6-4324WS	8/24/2001	108180
OU5-CSA-10-3701CP	8/24/2001	108180
OU5-CSA-7-4300VNS	8/24/2001	108180
OU5-CSA-6-4328WinP	8/24/2001	108180
OU5-CSA-6-4219YS	8/24/2001	108180
OU5-CSA-6-4326(42)	8/24/2001	108180
OU5-CSA-6-4335WS	8/24/2001	108180
OU5-CSA-8-4400SS	8/24/2001	108180
OU5-CSA-3-4201(48P)	8/24/2001	108180
OU5-CSA-6-4232(43)	8/24/2001	108180
OU5-CSA-3-4219(49)	8/24/2001	108180
OU5-CSA-6-4336VP	8/24/2001	108180
OU5-CSA-3-4209(48P)	8/24/2001	108180
OU5-CSA-8-4405SegS	8/24/2001	108180
OU5-CSA-6-4323WinP	8/24/2001	108180
OU5-CSA-6-4318WS	8/24/2001	108180
OU5-CSA-6-4315(43)	8/24/2001	108180
OU5-CSA-6-4330(43)	8/24/2001	108180
OU5-CSA-6-4341VP	8/24/2001	108180
OU5-CSA-11-3711FR	8/24/2001	108180
OU5-CSA-8-4401SegS	8/24/2001	108180
OU5-CSA-7-4328VNS	8/24/2001	108180
OU5-CSA-3-4205(48P)	8/24/2001	108180
OU5-CSA-6-4300WS	8/24/2001	108180
OU5-CSA-5-4400VNS	8/24/2001	108180
OU5-CTA-1B-3828(52)	8/27/2001	108192
OU5-CSA-7-L24	8/27/2001	108192
OU5-CSA-7-L26	8/27/2001	108192
OU5-CSA-7-L27	8/27/2001	108192
OU5-CSA-7-L7	8/27/2001	108192
OU5-CSA-7-L8	8/27/2001	108192
OU5-CSA-7-L22	8/27/2001	108192
OU5-CTA-1D-4848RS	8/27/2001	108192
OU5-CSA-7-L9	8/27/2001	108192
OU5-CSA-7-L2	8/27/2001	108193
OU5-CSA-7-L1	8/27/2001	108193
OU5-CSA-7-L1	8/27/2001	108192
OU5-CSA-4-4812TS	8/27/2001	108193
OU5-CSA-7-L21	8/27/2001	108192
OU5-CSA-7-L13	8/27/2001	108192
OU5-CSA-4-4812TS	8/27/2001	108192
OU5-CSA-7-L14	8/27/2001	108192
OU5-CSA-7-L16	8/27/2001	108192

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SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1C-5009TS	8/27/2001	108192
OU5-CSA-7-L2	8/27/2001	108192
OU5-CSA-7-L20	8/27/2001	108192
OU5-CSA-7-L7	8/27/2001	108193
OU5-CSA-13-L11	8/28/2001	108200
OU5-CTA-1D-4118(49)	8/28/2001	108200
OU5-CTA-1C-5148TS	8/28/2001	108200
OU5-CTA-1C-5026TS	8/28/2001	108200
OU5-CTA-1D-4100(49)	8/28/2001	108200
OU5-CSA-10-4810RS	8/28/2001	108200
OU5-CSA-13-L8	8/28/2001	108200
OU5-CSA-13-L10	8/28/2001	108200
OU5-CSA-13-L9	8/28/2001	108200
OU5-CSA-4-4816TS	8/28/2001	108200
OU5-CSA-13-L12	8/28/2001	108200
OU5-CTA-1D-4924TS	8/28/2001	108200
OU5-CTA-1B-5149TS	8/28/2001	108200
OU5-CTA-1A-5109(52C)	8/29/2001	108204
OU5-CSA-2-5106MA	8/29/2001	108205
OU5-CSA-2-5105YP	8/29/2001	108205
OU5-CSA-10-4801QS	8/29/2001	108205
OU5-CTA-1D-4827SegS	8/29/2001	108205
OU5-CSA-2-5106MA	8/29/2001	108204
OU5-CTA-1D-4827SegS	8/29/2001	108204
OU5-CTA-1D-4913US	8/29/2001	108204
OU5-CTA-1A-5110(52)	8/29/2001	108204
OU5-CTA-1A-5022WS	8/29/2001	108204
OU5-CSA-2-5105YP	8/29/2001	108204
OU5-CTA-1A-5102(52)	8/29/2001	108204
OU5-CSA-10-4801QS	8/29/2001	108204
OU5-CSA-9-L4	8/30/2001	108213
OU5-CSA-9-L6	8/30/2001	108213
OU5-CSA-9-L13	8/30/2001	108213
OU5-CSA-9-L2	8/30/2001	108213
OU5-CSA-9-L1	8/30/2001	108213
OU5-CSA-9-L10	8/30/2001	108213
OU5-CSA-9-L12	8/30/2001	108213
OU5-CTA-1A-5000WS	8/30/2001	108213
OU5-CSA-9-L15	8/30/2001	108213
OU5-CSA-9-L19	8/30/2001	108213
OU5-CSA-9-L15	8/30/2001	108212
OU5-CSA-9-L5	8/30/2001	108213
OU5-CSA-9-L7	8/30/2001	108213
OU5-CSA-9-L8	8/30/2001	108213
OU5-CSA-9-L9	8/30/2001	108213
OU5-CSA-9-L3	8/30/2001	108213
OU5-CTA-1B-5208UT	8/30/2001	108213
OU5-CTA-1A-4990WS	8/30/2001	108213
OU5-CSA-9-L20	8/30/2001	108212
OU5-CSA-9-L20	8/30/2001	108213
OU5-CSA-5-4420VNS	8/31/2001	109001
OU5-CSA-8-4448SS	8/31/2001	109001
OU5-CSA-8-4464SegS	8/31/2001	109001
OU5-CSA-8-4436SegS	8/31/2001	109001
OU5-CSA-6-4412WinP	8/31/2001	109001
OU5-CSA-8-4439SS	8/31/2001	109001
OU5-CSA-4-4828US	8/31/2001	109001
OU5-CSA-8-4485SegS	8/31/2001	109001
OU5-CSA-8-4451SS	8/31/2001	109001
OU5-CSA-6-4413WS	8/31/2001	109001
OU5-CSA-4-4715SegS	8/31/2001	109001
OU5-CSA-8-4431SS	8/31/2001	109001

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OU5-CSA-5-4440VNS	8/31/2001	109001
OU5-CSA-6-4405WS	8/31/2001	109001
OU5-CSA-6-4420WinP	8/31/2001	109001
OU5-CSA-6-4421WS	8/31/2001	109001
OU5-CSA-8-4442TinS	8/31/2001	109001
OU5-CSA-2-5131YS	8/31/2001	109001
OU5-CSA-2-5121WP	8/31/2001	109001
OU5-CSA-10-3730UA	8/31/2001	109001
OU5-CSA-2-5104YS	8/31/2001	109001
OU5-CSA-10-4735RS	8/31/2001	109001
OU5-CSA-3-4202(48P)	8/31/2001	109001
OU5-CSA-5-4410VNS	8/31/2001	109001
OU5-CSA-8-4409SegS	8/31/2001	109001
OU5-CSA-2-5103YP	9/4/2001	109002
OU5-CSA-2-5103YP	9/4/2001	109004
OU5-CTA-1B-5135RP	9/4/2001	109002
OU5-CTA-1B-5123TS	9/4/2001	109002
OU5-CSA-12-3519OC	9/4/2001	109004
OU5-CSA-12-3519OC	9/4/2001	109002
OU5-CSA-10-3731(48)	9/5/2001	109010
OU5-CSA-6-4225(43)	9/5/2001	109010
OU5-CSA-11-4921QS	9/5/2001	109010
OU5-CSA-3-4255FR	9/6/2001	109017
OU5-CTA-1D-4004(49)	9/6/2001	109009
OU5-CSA-6-4225(43)	9/6/2001	109009
OU5-CSA-10-3731(48)	9/6/2001	109009
OU5-CSA-3-4255FR	9/6/2001	109018
OU5-CSA-10-4825QS	9/6/2001	109018
OU5-CSA-11-4901HL	9/6/2001	109018
OU5-CSA-11-4911QS	9/6/2001	109018
OU5-CSA-11-4921QS	9/6/2001	109009
OU5-CTA-1B-5133(52)	9/7/2001	109038
OU5-CSA-10-4831QS	9/7/2001	109043
OU5-CSA-10-4831QS	9/7/2001	109038
OU5-CSA-10-4825QS	9/7/2001	109017
OU5-CSA-11-4901HL	9/7/2001	109017
OU5-CTA-1D-4817RS	9/7/2001	109038
OU5-CSA-11-4911QS	9/7/2001	109017
OU5-CTA-1A-5028WS	9/7/2001	109038

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SAMPLING FOR JULY 2, 2001 THROUGH SEPTEMBER 7, 2001

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-5 sampling locations between July 2 and September 7, 2001. The samples are identified by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared and analyzed together (i.e., the analytical batch) with common laboratory QC samples. The sampling period covered in this report includes many SDGs, as indicated on the tables. Analytes in these SDGs include arsenic, 1,4-oxathiane, 1,4-dithiane, thiodiglycol, explosives (CVAA/CVAO), lewisite, sulfur mustard and total cyanide.

All work was performed in accordance with the Work Management Plan (WMP) prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is also presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All

information included in the data packages have been reviewed and validated including sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: accuracy (% recovery) outliers, precision (RPD) outliers, holding time violations and reported detections less than the Practical Quantitation Limit (PQL). Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: accuracy or precision outliers, holding time violations and reported detections less than the PQL. Details concerning these problems are presented below by analytical parameter.

Organosulfur Compounds

- Accuracy outliers were reported for the Laboratory Control Samples (LCS) associated with the following SDGs (analytical batches): 106190, 106194, 107005, 107018, 107029, 107038, 107053 and 108020. The reported percent recovery for target analytes 1,4-oxathiane or 1,4-dithiane was below the control limits. Although the analytes were not detected in any of the affected samples, the reported PQLs have been qualified as estimated and flagged 'UL'. The 'L' qualifier indicates a low bias meaning the true PQL may be higher than the reported PQL. The reported data is usable for most purposes, including risk assessment.

- Accuracy outliers were reported for the LCS associated with the following SDGs: 108002, 108015 and 108048. The reported recoveries for target analyte 1,4-oxathiane were below the control limits. Although the analytes were not detected in any of the affected samples, the reported PQLs have been qualified as estimated and flagged 'UL'. The 'L' qualifier indicates a low bias meaning the true PQL may be higher than the reported PQL.

- Holding time violations were reported for some samples in SDG 107101. The samples were originally analyzed and reported surrogate outliers. The samples were reanalyzed, outside the required holding time, and reported acceptable surrogate recoveries. The reported results for the affected samples have been qualified as estimated and flagged 'UJ'.

- Accuracy outliers were reported for the LCS associated with the following SDGs: 108177, 108205, 108212 and 109010. The reported recoveries for target analyte 1,4-oxathiane were outside the control limits. Although the analyte was not detected in any of the affected samples, the reported PQLs have been qualified as estimates and flagged 'UJ'.

Explosives

- Accuracy outliers were reported for target explosive nitrobenzene for the LCS associated with the samples in SDGs 107101 and 107127. The reported recoveries were below the control limits. Reported results for the affected samples have been qualified as estimates and flagged 'UL' and should be considered biased low. The 'L' qualifier indicates a low bias (i.e., the true PQL may be higher than reported). The reported data is usable for most purposes including risk assessment.

- Accuracy outliers were reported for nitroglycerine for the LCS associated with the samples in SDG 108177. The reported recoveries were below the control limit. Reported results for the affected target analyte in the affected samples have been qualified as estimates and flagged 'UL' and should be considered biased low**.** The 'L qualifier indicates a low bias (i.e., the true

PQL may be higher than the reported PQL). The reported data is usable for most purposes, including risk assessment.

Metals

- Some reported arsenic results have been qualified as estimated and flagged 'J'. This flag indicates the analyte was positively identified but the associated value is less than the PQL. Samples in the following SDGs were affected: 107027, 107138, 107126, 107100, 107111, 107128, 107126, 107090, 107112, 107003, 107017, 106191, 107014, 106195, 107037, 107050, 107064, 107068, 107079, 107139, 107157, 107164, 108047, 108028, 108014, 108019, 108070, 108068, 108082, 108026, 108047, 108059, 108106, 108113, 108114, 108117, 108129, 108139, 108162, 108173, 108178, 108080, 108192, 109009, 109017, 109038, 108200, 108204, 108213, 109001 and 109002.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the actual result or PQL may be higher than the reported result. The reported data is usable for most purposes, including risk assessment. Samples in the following SDGs were affected: 107017, 106191, 107052, 107064, 107111, 107112, 107068, 108192 and 108204.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'K/JK'. The 'K' qualifier indicates a high bias meaning the actual result may be lower than the reported result. The reported data is usable for most purposes, including risk assessment. Samples in the following SDGs were affected: 107112, 108070 and 108204.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-5 SAMPLING FOR THE PERIOD

9/10/01 TO 11/09/01

(REPORT NO.8)

OU-5 SAMPLES COLLECTED FROM 9/10/01 TO 11/09/01 (Report No. 8)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1D-3812(48)	9/10/2001	109055
OU5-CTA-1C-5011SegS	9/12/2001	109063
OU5-CSA-11-4922QS	9/12/2001	109063
OU5-CTA-1A-4996WS	9/17/2001	109078
OU5-CTA-1A-5124(52)	9/17/2001	109066
OU5-CTA-1A-4996WS	9/17/2001	109066
OU5-CTA-1B-5135(52)	9/17/2001	109066
OU5-CTA-1D-4816RS	9/17/2001	109066
OU5-CTA-1A-4994WS	9/17/2001	109066
OU5-CTA-1C-5154TS	9/18/2001	109091
OU5-CSA-2-5101YC	9/18/2001	109092
OU5-CSA-10-4732SegS	9/18/2001	109092
OU5-CSA-2-5101YC	9/18/2001	109091
OU5-CSA-10-4732SegS	9/18/2001	109091
OU5-CTA-1B-3800(52)	9/18/2001	109091
OU5-CSA-7-4106(42)	9/19/2001	109106
OU5-CSA-12-4925LR	9/19/2001	109106
OU5-CSA-2-5127(52)	9/19/2001	109106
OU5-CSA-2-5119(52)	9/19/2001	109106
OU5-CSA-8-4478US	9/19/2001	109106
OU5-CSA-10-3717CP	9/19/2001	109106
OU5-CSA-3-4210(48P)	9/19/2001	109106
OU5-CSA-3-4206(48P)	9/19/2001	109106
OU5-CSA-5-4131(45)	9/19/2001	109106
OU5-CSA-12-4844RP	9/19/2001	109106
OU5-CSA-6-4238(43)	9/19/2001	109106
OU5-CSA-3-4838VNS	9/19/2001	109106
OU5-CSA-4-4017(48)	9/19/2001	109106
OU5-CSA-11-4950QS	9/19/2001	109106
OU5-CSA-3-4738MA	9/20/2001	109109
OU5-CSA-12-4915IL	9/20/2001	109109
OU5-CSA-3-4732MA	9/20/2001	109109
OU5-CSA-12-4926GR	9/20/2001	109109
OU5-CSA-12-5021LR	9/20/2001	109109
OU5-CSA-12-5017LR	9/20/2001	109109
OU5-CSA-4-4721SegS	9/20/2001	109109
OU5-CSA-5-4631MA	9/20/2001	109109
OU5-CSA-3-4700MA	9/20/2001	109109
OU5-CSA-2-5032MA	9/20/2001	109109
OU5-CSA-11-4941GR	9/20/2001	109109
OU5-CSA-12-4989GR	9/20/2001	109109
OU5-CSA-3-4724MA	9/20/2001	109109
OU5-CSA-12-5009LR	9/20/2001	109109
OU5-CSA-2-5149YS	9/21/2001	109122
OU5-CSA-8-4438SS	9/21/2001	109122
OU5-CSA-2-5127YS	9/21/2001	109122
OU5-CSA-2-5007YS	9/21/2001	109122
OU5-CSA-6-4203YS	9/21/2001	109122
OU5-CSA-8-4404SS	9/21/2001	109122
OU5-CSA-2-5106YS	9/21/2001	109122
OU5-CSA-2-5112YS	9/21/2001	109122
OU5-CSA-3-4253FR	9/21/2001	109122
OU5-CSA-6-4304YS	9/21/2001	109122
OU5-CSA-6-4212YS	9/21/2001	109122
OU5-CSA-6-4204YS	9/21/2001	109122
OU5-CTA-1A-5105WP	9/21/2001	109122

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SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-2-5135YS	9/21/2001	109122
OU5-CSA-6-4215YS	9/21/2001	109122
OU5-CSA-8-4440SS	9/21/2001	109122
OU5-CSA-4-4007(49)	9/24/2001	109129
OU5-CSA-8-4446TinS	9/24/2001	109129
OU5-CSA-8-4438TinS	9/24/2001	109126
OU5-CSA-8-4446TinS	9/24/2001	109126
OU5-CSA-8-4438TinS	9/24/2001	109129
OU5-CSA-4-4007(49)	9/24/2001	109126
OU5-CSA-10-3709CP	9/24/2001	109126
OU5-CSA-10-3709CP	9/24/2001	109129
OU5-CSA-8-4446TinS	9/25/2001	109143
OU5-CSA-8-4438TinS	9/25/2001	109143
OU5-CTA-1A-4219(50)	9/26/2001	109149
OU5-CSA-4-4007(49)	9/26/2001	109149
OU5-CTA-1C-5035RP	9/27/2001	109151
OU5-CSA-10-3709CP	9/28/2001	110002
OU5-CSA-6-4321VP	10/1/2001	110006
OU5-CSA-3-4701US	10/1/2001	110006
OU5-CTA-1A-5105WP	10/1/2001	110006
OU5-CTA-1C-5024VNS	10/1/2001	110006
OU5-CSA-3-4705US	10/1/2001	110006
OU5-CSA-8-4443SS	10/1/2001	110006
OU5-CSA-6-4321VP	10/1/2001	110008
OU5-CSA-8-4443SS	10/1/2001	110008
OU5-CSA-3-4705US	10/1/2001	110008
OU5-CSA-3-4701US	10/1/2001	110008
OU5-CTA-1A-5105WP	10/1/2001	110008
OU5-CSA-6-4353VP	10/2/2001	110013
OU5-CTA-1C-5064SegS	10/2/2001	110013
OU5-CSA-2-5121YS	10/2/2001	110013
OU5-CSA-6-4332VP	10/2/2001	110011
OU5-CSA-6-4353VP	10/2/2001	110011
OU5-CSA-2-5121YS	10/2/2001	110011
OU5-CSA-6-4332VP	10/2/2001	110013
OU5-CSA-10-4822QS	10/3/2001	110015
OU5-CSA-11-4968QS	10/3/2001	110015
OU5-CSA-10-4810QS	10/3/2001	110015
OU5-CSA-4-4629TS	10/3/2001	110015
OU5-CSA-11-4956QS	10/3/2001	110015
OU5-CSA-11-4949HL	10/3/2001	110015
OU5-CSA-11-4944QS	10/3/2001	110015
OU5-CSA-10-4816QS	10/3/2001	110015
OU5-CSA-10-4849QS	10/3/2001	110015
OU5-CSA-10-4840QS	10/3/2001	110015
OU5-CSA-11-4938QS	10/3/2001	110015
OU5-CSA-12-4860RP	10/4/2001	110023
OU5-CSA-3-4108(48)	10/4/2001	110023
OU5-CSA-8-4437SegS	10/4/2001	110023
OU5-CSA-10-4725RS	10/4/2001	110023
OU5-CSA-8-4461SegS	10/4/2001	110023
OU5-CSA-10-4624SegS	10/4/2001	110023
OU5-CSA-10-4721RS	10/4/2001	110023
OU5-CSA-10-4614RS	10/4/2001	110023
OU5-CSA-10-3813(48)	10/4/2001	110023
OU5-CSA-8-4484US	10/4/2001	110023

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SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-12-5041LR	10/4/2001	110023
OU5-CSA-12-5031OR	10/4/2001	110023
OU5-CSA-12-5028OR	10/4/2001	110023
OU5-CSA-3-4807VNS	10/4/2001	110023
OU5-CSA-11-4975RP	10/4/2001	110023
OU5-CSA-13-L22	10/5/2001	110030
OU5-CSA-13-L23	10/5/2001	110030
OU5-CSA-13-L20	10/5/2001	110030
OU5-CSA-13-L25	10/5/2001	110030
OU5-CSA-13-L27	10/5/2001	110030
OU5-CSA-13-L26	10/5/2001	110030
OU5-CSA-13-L16	10/5/2001	110030
OU5-CSA-13-L18	10/5/2001	110030
OU5-CSA-13-L19	10/5/2001	110030
OU5-CSA-13-L14	10/5/2001	110030
OU5-CSA-13-L13	10/5/2001	110030
OU5-CSA-13-L21	10/5/2001	110030
OU5-CSA-13-L15	10/5/2001	110030
OU5-CSA-13-L24	10/5/2001	110030
OU5-CSA-13-L17	10/5/2001	110030
OU5-CSA-2-5115YS	10/8/2001	110036
OU5-CSA-2-5115YS	10/8/2001	110035
OU5-CSA-3-4700MA	10/8/2001	110035
OU5-CSA-2-5118YS	10/8/2001	110036
OU5-CSA-2-5118YS	10/8/2001	110035
OU5-CSA-3-4700MA	10/8/2001	110036
OU5-CSA-4-4801TS	10/8/2001	110036
OU5-CSA-4-4801TS	10/8/2001	110035
OU5-CSA-6-4420WinP	10/9/2001	110047
OU5-CSA-11-3619FR	10/9/2001	110047
OU5-CTA-1D-4912VNS	10/9/2001	110047
OU5-CSA-6-4420WinP	10/9/2001	110039
OU5-CSA-7-4300VNS	10/9/2001	110039
OU5-CSA-8-4448SS	10/9/2001	110039
OU5-CSA-8-4448SS	10/9/2001	110047
OU5-CSA-7-4304VNS	10/9/2001	110047
OU5-CSA-11-3619FR	10/9/2001	110039
OU5-CSA-7-4300VNS	10/9/2001	110047
OU5-CSA-7-4304VNS	10/9/2001	110039
OU5-CSA-13-L30	10/10/2001	110051
OU5-CSA-13-L43	10/10/2001	110051
OU5-CSA-13-L40	10/10/2001	110051
OU5-CSA-13-L35	10/10/2001	110051
OU5-CSA-13-L37	10/10/2001	110051
OU5-CSA-13-L36	10/10/2001	110051
OU5-CSA-13-L45	10/10/2001	110051
OU5-CSA-13-L38	10/10/2001	110051
OU5-CSA-13-L34	10/10/2001	110051
OU5-CSA-13-L31	10/10/2001	110051
OU5-CSA-13-L32	10/10/2001	110051
OU5-CSA-13-L28	10/10/2001	110051
OU5-CSA-13-L29	10/10/2001	110051
OU5-CSA-13-L42	10/10/2001	110051
OU5-CSA-13-L33	10/10/2001	110051
OU5-CSA-13-L54	10/11/2001	110055
OU5-CSA-13-L52	10/11/2001	110055

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SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-13-L53	10/11/2001	110055
OU5-CSA-13-L56	10/11/2001	110055
OU5-CSA-13-L57	10/11/2001	110055
OU5-CSA-13-L55	10/11/2001	110055
OU5-CSA-13-L50	10/11/2001	110055
OU5-CSA-13-L48	10/11/2001	110055
OU5-CSA-13-L60	10/11/2001	110055
OU5-CSA-13-L63	10/11/2001	110055
OU5-CSA-13-L62	10/11/2001	110055
OU5-CSA-13-L61	10/11/2001	110055
OU5-CSA-13-L59	10/11/2001	110055
OU5-CSA-13-L49	10/11/2001	110055
OU5-CSA-13-L58	10/11/2001	110055
OU5-CSA-4-4831TS	10/12/2001	110064
OU5-CSA-7-4216VNS	10/12/2001	110064
OU5-CSA-4-4815TS	10/12/2001	110064
OU5-CSA-4-4823TS	10/12/2001	110064
OU5-CSA-3-4801US	10/12/2001	110064
OU5-CSA-6-4319VNS	10/12/2001	110064
OU5-CSA-4-4800TS	10/12/2001	110064
OU5-CSA-12-4852IL	10/12/2001	110064
OU5-CSA-4-4725SegS	10/12/2001	110064
OU5-CSA-8-4447SS	10/12/2001	110064
OU5-CSA-3-4839US	10/12/2001	110064
OU5-CSA-4-4718US	10/12/2001	110064
OU5-CSA-4-4711TS	10/12/2001	110064
OU5-CSA-3-4723US	10/12/2001	110064
OU5-CSA-4-4625TS	10/12/2001	110064
OU5-CTA-1A-4230FR	10/15/2001	110069
OU5-CSA-6-4323WS	10/15/2001	110069
OU5-CSA-8-4444SS	10/15/2001	110069
OU5-CTA-1A-5001VNS	10/16/2001	110079
OU5-CTA-1D-3933FR	10/17/2001	110089
OU5-CTA-1D-4920RS	10/18/2001	110100
OU5-CSA-6-4323WS	10/18/2001	110100
OU5-CTA-1D-3933FR	10/18/2001	110100
OU5-CSA-8-4444SS	10/19/2001	110107
OU5-CSA-5-4655MA	10/19/2001	110107
OU5-CSA-10-4825WL	10/22/2001	110114
OU5-CSA-10-4825WL	10/22/2001	110113
OU5-CSA-2-5123WP	10/22/2001	110113
OU5-CSA-2-5133WP	10/22/2001	110113
OU5-CSA-2-5123WP	10/22/2001	110114
OU5-CSA-2-5133WP	10/22/2001	110114
OU5-CTA-1B-3901(52)	10/22/2001	110114
OU5-CTA-1D-4838TS	10/23/2001	110129
OU5-CTA-1B-4040(52)	10/23/2001	110123
OU5-CTA-1B-4070(52)	10/23/2001	110129
OU5-CTA-1B-4040(52)	10/23/2001	110129
OU5-CTA-1A-4240FR	10/23/2001	110129
OU5-CTA-1A-4240FR	10/23/2001	110123
OU5-CTA-1B-4070(52)	10/23/2001	110123
OU5-CSA-12-5037LR	10/24/2001	110130
OU5-CSA-4-4016(48)	10/24/2001	110130
OU5-CSA-4-4009(47)	10/24/2001	110130
OU5-CSA-6-4327(43)	10/24/2001	110130

OU-5 SAMPLES COLLECTED FROM 9/10/01 TO 11/09/01 (Report No. 8)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-10-3807(48)	10/24/2001	110130
OU5-CSA-11-4918HL	10/24/2001	110130
OU5-CSA-10-3709(48)	10/24/2001	110130
OU5-CSA-12-5033LR	10/24/2001	110130
OU5-CSA-4-4016(47)	10/24/2001	110130
OU5-CSA-12-5047LR	10/24/2001	110130
OU5-CSA-4-4012(47)	10/24/2001	110130
OU5-CSA-4-4008(47)	10/24/2001	110130
OU5-CSA-4-4005(47)	10/24/2001	110130
OU5-CSA-4-4000(47)	10/24/2001	110130
OU5-CSA-6-4430(42)	10/24/2001	110130
OU5-CSA-3-4716MA	10/25/2001	110148
OU5-CSA-2-5125WP	10/25/2001	110148
OU5-CSA-2-5000MA	10/25/2001	110148
OU5-CSA-2-5137YS	10/25/2001	110148
OU5-CSA-2-5147YS	10/25/2001	110148
OU5-CSA-2-5119WP	10/25/2001	110148
OU5-CSA-5-4605MA	10/25/2001	110148
OU5-CSA-2-5122WP	10/25/2001	110148
OU5-CSA-2-5125YS	10/25/2001	110148
OU5-CSA-3-4728MA	10/25/2001	110148
OU5-CSA-2-5109YP	10/25/2001	110148
OU5-CSA-2-5114YS	10/25/2001	110148
OU5-CSA-2-5145YS	10/25/2001	110148
OU5-CSA-2-5105YC	10/25/2001	110148
OU5-CSA-2-5107YP	10/25/2001	110148
OU5-CSA-2-5141YS	10/25/2001	110148
OU5-CSA-11-4961QS	10/26/2001	110158
OU5-CSA-11-4943QS	10/26/2001	110158
OU5-CSA-4-4636TS	10/26/2001	110158
OU5-CSA-4-4851TS	10/26/2001	110158
OU5-CSA-11-4935QS	10/26/2001	110158
OU5-CSA-11-4974QS	10/26/2001	110158
OU5-CSA-12-4917RP	10/26/2001	110158
OU5-CSA-12-5068OR	10/26/2001	110158
OU5-CSA-8-4452SS	10/26/2001	110158
OU5-CSA-12-4859RP	10/26/2001	110158
OU5-CSA-11-4980QS	10/26/2001	110158
OU5-CSA-8-4412SS	10/26/2001	110158
OU5-CSA-12-3510OC	10/26/2001	110158
OU5-CSA-12-5010OR	10/26/2001	110158
OU5-CSA-8-4456SS	10/26/2001	110158
OU5-CSA-8-4434TinS	10/29/2001	110165
OU5-CSA-8-4442TinS	10/29/2001	110165
OU5-CSA-10-4615RS	10/29/2001	110165
OU5-CSA-12-4850RP	10/29/2001	110165
OU5-CSA-5-4655MA	10/29/2001	110165
OU5-CSA-5-4651MA	10/29/2001	110165
OU5-CSA-5-4651MA	10/30/2001	110176
OU5-CTA-1C-5040SegS	10/31/2001	111002
OU5-CSA-12-4850RP	10/31/2001	111002
OU5-CSA-10-4615RS	11/1/2001	111014
OU5-CSA-11-4955GR	11/2/2001	111021
OU5-CSA-8-4434TinS	11/2/2001	111021
OU5-CSA-10-4813QS	11/5/2001	111041
OU5-CTA-1D-4937TS	11/5/2001	111029

OU-5 SAMPLES COLLECTED FROM 9/10/01 TO 11/09/01 (Report No. 8)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-2-5117AS	11/5/2001	111041
OU5-CTA-1D-4934US	11/5/2001	111029
OU5-CTA-1D-4937TS	11/5/2001	111041
OU5-CSA-2-5111AS	11/5/2001	111041
OU5-CTA-1A-5007WS	11/5/2001	111041
OU5-CTA-1D-4934US	11/5/2001	111041
OU5-CSA-2-5117AS	11/5/2001	111029
OU5-CTA-1B-5145TS	11/6/2001	111042
OU5-CTA-1A-5118(52)	11/6/2001	111042
OU5-CTA-1A-5106(52)	11/6/2001	111042
OU5-CTA-1A-5108(52C)	11/6/2001	111042
OU5-CTA-1C-5010SegS	11/6/2001	111042
OU5-CTA-1A-5108(52C)	11/6/2001	111043
OU5-CSA-8-4462TinS	11/6/2001	111042
OU5-CTA-1A-5035VNS	11/6/2001	111042
OU5-CSA-8-4445SegS	11/7/2001	111051
OU5-CSA-8-4457SegS	11/7/2001	111051
OU5-CSA-8-4462TinS	11/7/2001	111051
OU5-CSA-5-4647MA	11/7/2001	111051
OU5-CSA-7-L6	11/7/2001	111051
OU5-CSA-10-3641(49)	11/7/2001	111051
OU5-CSA-7-L25	11/7/2001	111051
OU5-CSA-7-L11	11/7/2001	111051
OU5-CSA-7-L4	11/7/2001	111051
OU5-CSA-7-L3	11/7/2001	111051
OU5-CSA-7-L23	11/7/2001	111051
OU5-CSA-7-L5	11/7/2001	111051
OU5-CSA-7-L19	11/7/2001	111051
OU5-CSA-7-L17	11/7/2001	111051
OU5-CSA-7-L15	11/7/2001	111051
OU5-CSA-7-L12	11/7/2001	111051
OU5-CSA-7-L10	11/7/2001	111051
OU5-CSA-7-L18	11/7/2001	111051
OU5-CSA-8-4454TinS	11/8/2001	111078
OU5-CSA-8-4427SS	11/8/2001	111078
OU5-CSA-8-4457SegS	11/8/2001	111078
OU5-CSA-4-4640TS	11/8/2001	111078
OU5-CSA-10-3714UA	11/8/2001	111078
OU5-CSA-3-4821US	11/8/2001	111078
OU5-CSA-7-4214VNS	11/8/2001	111078
OU5-CSA-8-4430TinS	11/8/2001	111078
OU5-CSA-7-4120(42)	11/8/2001	111078
OU5-CSA-8-4445SegS	11/8/2001	111078
OU5-CSA-6-4223YS	11/8/2001	111078
OU5-CSA-4-4837TS	11/8/2001	111078
OU5-CSA-4-4841TS	11/8/2001	111078
OU5-CSA-4-4624TS	11/8/2001	111078
OU5-CSA-8-4415SS	11/8/2001	111078
OU5-CSA-7-4312VNS	11/8/2001	111078
OU5-CSA-4-4739TS	11/8/2001	111078
OU5-CSA-3-4836VNS	11/9/2001	111080
OU5-CSA-5-4647MA	11/9/2001	111080
OU5-CSA-8-4458TinS	11/9/2001	111080
OU5-CSA-4-4658US	11/9/2001	111080
OU5-CSA-3-4800VNS	11/9/2001	111080
OU5-CSA-8-4423SS	11/9/2001	111080

OU-5 SAMPLES COLLECTED FROM 9/10/01 TO 11/09/01 (Report No. 8)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-6-4321VNS	11/9/2001	111080
OU5-CSA-3-4811VNS	11/9/2001	111080
OU5-CSA-8-4419SS	11/9/2001	111080
OU5-CSA-5-4528VNS	11/9/2001	111080
OU5-CSA-6-4347WS	11/9/2001	111080
OU5-CSA-5-4624VNS	11/9/2001	111080
OU5-CSA-3-4848VNS	11/9/2001	111080
OU5-CSA-2-5102YP	11/9/2001	111080
OU5-CSA-7-4320VNS	11/9/2001	111080
OU5-CSA-6-4301VP	11/9/2001	111080

QUALITY ASSURANCE SUMMARY REPORT (NO. 8) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-5 SAMPLING

SAMPLING FOR SEPTEMBER 10, 2001 THROUGH NOVEMBER 9, 2001

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-5 sampling locations between September 10 and November 9, 2001. The samples are identified by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared and analyzed together (i.e., the analytical batch) with common laboratory QC samples. The sampling period covered in this report includes many SDGs, as indicated on the tables. Analytes in these SDGs include arsenic, 1,4-oxathiane, 1,4-dithiane, thiodiglycol, explosives, lewisite (CVAA/CVAO), sulfur mustard and total cyanide.

All work was performed in accordance with the Work Management Plan (WMP) prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is also presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All

information included in the data packages have been reviewed and validated including sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: accuracy (% recovery) outliers, precision (RPD) outliers, holding time violations and reported detections less than the Practical Quantitation Limit (PQL). Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: accuracy or precision outliers, holding time violations and reported detections less than the PQL. Details concerning these problems are presented below by analytical parameter.

Organosulfur Compounds

- Surrogate percent recovery outliers were reported for sample CTA-1B-4040(52)-SB-(2.5-3.5), SDG 110123. The reported percent recoveries for the samples were outside the control limits. Although the target analytes were not detected in any of the affected samples, the reported PQLs have been qualified as estimated and flagged 'UJ'. The reported data is usable for most purposes, including risk assessment.

- Holding time violations were reported for some samples in SDG 107101. The samples were originally analyzed and reported surrogate outliers. The samples were reanalyzed, outside the required holding time, and reported

acceptable surrogate recoveries. The reported results for the affected samples have been qualified as estimated and flagged 'UJ'.

- Accuracy outliers were reported for the Laboratory Control Samples (LCS) associated with the following SDGs: 108177, 108205, 108212 and 109010. The reported recoveries for target analyte 1,4-oxathiane were outside the control limits. Although the analyte was not detected in any of the affected samples, the reported PQLs have been qualified as estimates and flagged 'UJ'.

Explosives

- Percent recovery outliers were reported for target explosive 2,6-dinitrotoluene for the MS/MSD associated with the samples in SDG 111043. The reported recoveries were below the control limits. Reported results for the affected samples have been qualified as estimates and flagged 'UJ'. The reported data is usable for most purposes including risk assessment.

- Holding time violations were reported for the samples in SDG 110123. The samples were originally analyzed and reported QC outliers. The samples were reanalyzed, outside the required holding time, and reported acceptable QC results. The reported results for the affected samples have been qualified as estimates and flagged 'UJ'.

Metals

- Some reported arsenic results have been qualified as estimated and flagged 'J'. This flag indicates the analyte was positively identified but the associated value is less than the PQL. Samples in the following SDGs were affected: 109055, 109063, 109066, 109091, 109106, 109122, 109126, 109151, 110002, 110006, 110013, 110023, 110030, 110035, 110047, 110051, 110055, 110064, 110069, 110100, 110107, 110114, 110115, 110128, 110129, 110148, 110158, 110165, 111002, 111014, 111041, 111042, 111051, 111078 and 111080.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the actual result or PQL may be higher than the reported result. The reported data is usable for most purposes, including risk assessment. Samples in the following SDGs were affected: 109063, 109149 and 111002.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'K/JK'. The 'K' qualifier indicates a high bias meaning the actual result may be lower than the reported result. The reported data is usable for most purposes, including risk assessment. Only samples in SDG 111021 were affected.

- Precision outliers were reported for arsenic. The Relative Percent Difference (RPD) for the laboratory duplicate associated with the following SDGs were outside the control limit: 109055, 109106, 109151, 110115, 110129, 110130, 110165, 111042 and 111051. Reported results for arsenic in the affected samples have been qualified as estimates and flagged 'J/UJ'.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-5 SAMPLING FOR THE PERIOD

11/12/01 TO 1/18/02

(REPORT NO.9)

OU-5 SAMPLES COLLECTED FROM 11/12/01 TO 1/18/02 (Report No. 9)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1A-4915VNS	11/12/2001	111091
OU5-CSA-12-3509OC	11/12/2001	111090
OU5-CSA-12-3509OC	11/12/2001	111091
OU5-CSA-2-5010MA	11/12/2001	111090
OU5-CTA-1B-4015(52)	11/12/2001	111091
OU5-CSA-5-4425US	11/12/2001	111091
OU5-CSA-2-5010MA	11/12/2001	111091
OU5-CSA-4-4615SegS	11/12/2001	111091
OU5-CTA-1A-4915VNS	11/12/2001	111090
OU5-CSA-4-4615SegS	11/12/2001	111090
OU5-CSA-5-4425US	11/12/2001	111090
OU5-CSA-11-4955GR	11/13/2001	111101
OU5-CTA-1B-5100US	11/13/2001	111101
OU5-CSA-12-5069OR	11/13/2001	111101
OU5-CSA-6-4334WinP	11/14/2001	111117
OU5-CSA-6-4354WS	11/14/2001	111117
OU5-CSA-6-4317WS	11/14/2001	111117
OU5-CSA-6-4322WinP	11/14/2001	111117
OU5-CSA-6-4408WinP	11/14/2001	111117
OU5-CSA-6-4348VP	11/14/2001	111117
OU5-CSA-10-4834QS	11/14/2001	111117
OU5-CSA-3-4211(48P)	11/14/2001	111117
OU5-CSA-6-4324VP	11/14/2001	111117
OU5-CSA-2-5106AS	11/14/2001	111117
OU5-CSA-6-4425WS	11/14/2001	111117
OU5-CSA-4-4001(47)	11/14/2001	111117
OU5-CSA-5-4115(45)	11/14/2001	111117
OU5-CTA-1B-4005(52)	11/14/2001	111118
OU5-CSA-6-4429WS	11/14/2001	111117
OU5-CSA-6-4333VP	11/14/2001	111117
OU5-CSA-2-5103YS	11/15/2001	111125
OU5-CSA-11-4965GR	11/15/2001	111125
OU5-CSA-6-4424WinP	11/15/2001	111125
OU5-CSA-4-4652US	11/15/2001	111125
OU5-CSA-2-5117WP	11/15/2001	111125
OU5-CSA-12-5025OR	11/15/2001	111125
OU5-CSA-13-L78	11/15/2001	111125
OU5-CSA-8-3825(45)	11/15/2001	111125
OU5-CSA-8-4449SegS	11/15/2001	111125
OU5-CSA-13-L79	11/15/2001	111125
OU5-CSA-11-4929GR	11/15/2001	111125
OU5-CTA-1A-4248(50)	11/15/2001	111124
OU5-CSA-13-L70	11/15/2001	111125
OU5-CSA-4-4620TS	11/15/2001	111125
OU5-CSA-10-3730(48)	11/15/2001	111125
OU5-CSA-2-5120YS	11/15/2001	111125
OU5-CSA-6-4256WS	11/16/2001	111143
OU5-CSA-13-L66	11/16/2001	111142
OU5-CSA-2-5124WP	11/16/2001	111142
OU5-CSA-6-4246WS	11/16/2001	111142
OU5-CSA-3-4728VNS	11/16/2001	111142
OU5-CSA-12-4875LR	11/16/2001	111142
OU5-CSA-13-L67	11/16/2001	111142
OU5-CSA-5-4123(45)	11/16/2001	111142
OU5-CSA-2-5115(52)	11/16/2001	111142
OU5-CSA-8-4441SegS	11/16/2001	111142
OU5-CSA-13-L64	11/16/2001	111142
OU5-CSA-8-4466TinS	11/16/2001	111142

OU-5 SAMPLES COLLECTED FROM 11/12/01 TO 1/18/02 (Report No. 9)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-13-L65	11/16/2001	111142
OU5-CSA-6-4437WS	11/16/2001	111142
OU5-CSA-12-5068OR	11/19/2001	111161
OU5-CSA-13-L68	11/19/2001	111154
OU5-CSA-13-L69	11/19/2001	111154
OU5-CSA-12-5068OR	11/19/2001	111154
OU5-CSA-8-4460SegS	11/19/2001	111154
OU5-CSA-6-4352WinP	11/19/2001	111154
OU5-CSA-13-L75	11/19/2001	111154
OU5-CSA-4-0006WC	11/19/2001	111154
OU5-CSA-13-L74	11/19/2001	111154
OU5-CSA-13-L73	11/19/2001	111154
OU5-CSA-3-4842VNS	11/19/2001	111154
OU5-CSA-8-4444SegS	11/19/2001	111154
OU5-CTA-1A-4226(50)	11/19/2001	111156
OU5-CSA-3-4801VNS	11/19/2001	111154
OU5-CSA-6-4201YS	11/19/2001	111154
OU5-CSA-6-4428WinP	11/19/2001	111154
OU5-CSA-6-4416WinP	11/19/2001	111154
OU5-CSA-13-L72	11/19/2001	111154
OU5-CSA-13-L83	11/20/2001	111166
OU5-CTA-1D-4810SegS	11/20/2001	111167
OU5-CSA-11-4938QS	11/20/2001	111167
OU5-CSA-13-L85	11/20/2001	111166
OU5-CSA-13-L84	11/20/2001	111166
OU5-CSA-8-3922(44)	11/20/2001	111166
OU5-CSA-13-L80	11/20/2001	111166
OU5-CSA-13-L94	11/20/2001	111166
OU5-CSA-8-4477SegS	11/20/2001	111166
OU5-CSA-13-L77	11/20/2001	111166
OU5-CSA-13-L81	11/20/2001	111166
OU5-CSA-13-L93	11/20/2001	111166
OU5-CSA-13-L82	11/20/2001	111166
OU5-CSA-13-L104	11/20/2001	111166
OU5-CSA-13-L95	11/20/2001	111166
OU5-CSA-13-L76	11/20/2001	111166
OU5-CSA-6-4330(42)	11/21/2001	111174
OU5-CTA-1C-5040US	11/26/2001	111183
OU5-CSA-6-4330(42)	11/26/2001	111184
OU5-CSA-6-4337VP	11/26/2001	111183
OU5-CSA-6-4329VP	11/26/2001	111183
OU5-CSA-10-4708SegS	11/26/2001	111183
OU5-CSA-6-4330(42)	11/26/2001	111183
OU5-CSA-12-5041LR	11/26/2001	111183
OU5-CSA-8-4456SS	11/26/2001	111185
OU5-CSA-12-5041LR	11/26/2001	111184
OU5-CSA-8-4456SS	11/26/2001	111184
OU5-CSA-8-4456SS	11/26/2001	111183
OU5-CSA-6-4329VP	11/27/2001	111197
OU5-CSA-12-5041LR	11/27/2001	111197
OU5-CSA-6-4337VP	11/28/2001	111205
OU5-CTA-1C-5032TS	11/28/2001	111205
OU5-CTA-1C-5058SegS	11/29/2001	111215
OU5-CTA-1C-3706FR	11/29/2001	111215
OU5-CSA-10-4708SegS	11/30/2001	111236
OU5-CTA-1C-5044VNS	11/30/2001	111236
OU5-CTA-1A-4220(50)	12/3/2001	111240
OU5-CSA-2-5100YP	12/3/2001	111239

OU-5 SAMPLES COLLECTED FROM 11/12/01 TO 1/18/02 (Report No. 9)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1D-3901FR	12/3/2001	111240
OU5-CSA-8-3910(44)	12/3/2001	111239
OU5-CSA-11-4959HL	12/3/2001	111239
OU5-CTA-1A-4220(50)	12/3/2001	111239
OU5-CSA-8-3910(44)	12/3/2001	111240
OU5-CSA-2-5100YP	12/3/2001	111240
OU5-CTA-1D-3901FR	12/3/2001	111239
OU5-CSA-11-4938QS	12/3/2001	111239
OU5-CSA-4-4625SegS	12/3/2001	111239
OU5-CTA-1C-5041US	12/3/2001	111237
OU5-CTA-1B-5140RP	12/4/2001	112004
OU5-CTA-1B-5120RP	12/4/2001	112004
OU5-CTA-1B-5140RP	12/4/2001	111204
OU5-CSA-8-4434SS	12/4/2001	111204
OU5-CSA-8-4434SS	12/4/2001	111241
OU5-CSA-11-4959HL	12/4/2001	112005
OU5-CSA-8-4468SegS	12/5/2001	112008
OU5-CSA-6-4227YS	12/5/2001	112008
OU5-CSA-13-L91	12/5/2001	112008
OU5-CSA-8-4460SS	12/5/2001	112008
OU5-CSA-6-4301(43)	12/5/2001	112008
OU5-CSA-5-4620VNS	12/5/2001	112008
OU5-CSA-3-4200(48P)	12/5/2001	112008
OU5-CSA-13-L92	12/5/2001	112008
OU5-CSA-8-4432SegS	12/5/2001	112008
OU5-CSA-8-4490US	12/5/2001	112008
OU5-CSA-8-4448SegS	12/5/2001	112008
OU5-CSA-8-4418SS	12/5/2001	112008
OU5-CSA-13-L90	12/5/2001	112008
OU5-CSA-12-4911LR	12/5/2001	112008
OU5-CTA-1D-4853SegS	12/5/2001	112007
OU5-CSA-8-4412SegS	12/5/2001	112008
OU5-CTA-1D-4834RS	12/6/2001	112010
OU5-CSA-4-4625SegS	12/6/2001	112010
OU5-CSA-11-5001RP	12/7/2001	112023
OU5-CTA-1D-4901RS	12/7/2001	112023
OU5-CSA-5-4115(45)	12/10/2001	112026
OU5-CSA-11-4962QS	12/10/2001	112055
OU5-CSA-6-4328WinP	12/10/2001	112044
OU5-CTA-1B-3800(52)	12/10/2001	112046
OU5-CSA-5-4115(45)	12/10/2001	112044
OU5-CSA-2-5149YS	12/10/2001	112046
OU5-CTA-1B-3800(52)	12/10/2001	112046
OU5-CSA-6-4349VP	12/10/2001	112044
OU5-CTA-1C-5030VNS	12/11/2001	112047
OU5-CTA-1A-5114(52)	12/11/2001	112047
OU5-CSA-5-4115(45)	12/12/2001	112048
OU5-CSA-6-4328WinP	12/12/2001	112048
OU5-CTA-1D-4828RS	12/13/2001	112055
OU5-CSA-11-4962QS	12/13/2001	112055
OU5-CTA-1D-3816(48)	12/14/2001	112087
OU5-CSA-6-4349VP	12/14/2001	112087
OU5-CSA-12-4940IL	12/17/2001	112088
OU5-CSA-11-4950QS	12/17/2001	112088
OU5-CTA-1D-4924VNS	12/17/2001	112103
OU5-CSA-4-4715SegS	12/17/2001	112103
OU5-CSA-4-4715SegS	12/17/2001	112088
OU5-CSA-12-5017LR	12/17/2001	112088

OU-5 SAMPLES COLLECTED FROM 11/12/01 TO 1/18/02 (Report No. 9)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-2-5131YS	12/17/2001	112088
OU5-CSA-12-3514OC	12/17/2001	112089
OU5-CSA-8-4428SegS	12/17/2001	112088
OU5-CSA-12-3514OC	12/17/2001	112088
OU5-CSA-8-4428SegS	12/18/2001	112104
OU5-CTA-1D-4118(49)	12/18/2001	112104
OU5-CSA-11-4950QS	12/19/2001	112106
OU5-CSA-12-5017LR	12/19/2001	112104
OU5-CSA-2-5131YS	12/20/2001	112088
OU5-CTA-1D-3816(49)	12/20/2001	112125
OU5-CTA-1D-3816(49)	12/20/2001	112125
OU5-CSA-12-4940IL	12/21/2001	112129
OU5-CSA-12-5001LR	12/27/2001	112140
OU5-CTA-1A-4227FR	12/28/2001	112141
OU5-CSA-12-4907IL	12/31/2001	201001
OU5-CSA-12-5060OR	1/2/2002	201007
OU5-CSA-10-4801QS	1/2/2002	201007
OU5-CSA-12-5001LR	1/2/2002	201007
OU5-CSA-5-L16	1/3/2002	201013
OU5-CSA-5-L19	1/3/2002	201013
OU5-CSA-5-L23	1/3/2002	201013
OU5-CSA-5-L18	1/3/2002	201013
OU5-CSA-5-L17	1/3/2002	201013
OU5-CSA-5-L16	1/3/2002	201014
OU5-CSA-5-L22	1/3/2002	201013
OU5-CSA-5-L21	1/3/2002	201013
OU5-CSA-5-L24	1/3/2002	201013
OU5-CSA-5-L21	1/3/2002	201014
OU5-CSA-5-L19	1/3/2002	201014
OU5-CSA-5-L18	1/3/2002	201014
OU5-CSA-5-L20	1/3/2002	201013
OU5-CSA-5-L25	1/4/2002	201016
OU5-CSA-5-L2	1/4/2002	201016
OU5-CSA-5-L28	1/4/2002	201018
OU5-CSA-5-L7	1/4/2002	201018
OU5-CSA-5-L5	1/4/2002	201016
OU5-CSA-5-L2	1/4/2002	201018
OU5-CSA-5-L27	1/4/2002	201018
OU5-CSA-5-L4	1/4/2002	201018
OU5-CSA-5-L25	1/4/2002	201018
OU5-CSA-5-L1	1/4/2002	201018
OU5-CSA-5-L6	1/4/2002	201018
OU5-CSA-5-L5	1/4/2002	201018
OU5-CSA-12-5060OR	1/7/2002	201029
OU5-CSA-12-4907IL	1/7/2002	201029
OU5-CTA-1A-4201FR	1/7/2002	201030
OU5-CSA-12-5001LR	1/7/2002	201029
OU5-CSA-6-4341WS	1/7/2002	201029
OU5-CSA-5-4119(45)	1/7/2002	201029
OU5-CSA-9-L44	1/8/2002	201039
OU5-CTA-1C-3822FR	1/8/2002	201040
OU5-CTA-1A-5019WS	1/8/2002	201037
OU5-CSA-4-4004(47)	1/8/2002	201037
OU5-CTA-1A-5111WP	1/8/2002	201037
OU5-CSA-4-4004(47)	1/8/2002	201039
OU5-CSA-9-L44	1/8/2002	201037
OU5-CSA-13-L102	1/9/2002	201044
OU5-CSA-13-L89	1/9/2002	201044

OU-5 SAMPLES COLLECTED FROM 11/12/01 TO 1/18/02 (Report No. 9)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-13-L100	1/9/2002	201044
OU5-CSA-12-L17	1/9/2002	201044
OU5-CSA-13-L101	1/9/2002	201044
OU5-CSA-13-L103	1/9/2002	201044
OU5-CSA-12-L16	1/9/2002	201044
OU5-CTA-1C-5125US	1/9/2002	201043
OU5-CSA-13-L96	1/9/2002	201044
OU5-CSA-13-L97	1/9/2002	201044
OU5-CSA-13-L98	1/9/2002	201044
OU5-CSA-13-L99	1/9/2002	201044
OU5-CSA-13-L87	1/9/2002	201044
OU5-CSA-12-L15	1/9/2002	201044
OU5-CSA-13-L88	1/9/2002	201044
OU5-CSA-6-4208YS	1/10/2002	201059
OU5-CTA-1C-5026TS	1/10/2002	201056
OU5-CSA-9-L37	1/10/2002	201059
OU5-CSA-2-4416(50)	1/10/2002	201059
OU5-CSA-12-4910IL	1/10/2002	201059
OU5-CSA-9-L45	1/10/2002	201059
OU5-CSA-7-4324VNS	1/10/2002	201059
OU5-CSA-12-4920IL	1/10/2002	201059
OU5-CSA-6-4352VP	1/10/2002	201059
OU5-CSA-12-4916IL	1/10/2002	201059
OU5-CSA-6-4341WS	1/11/2002	201066
OU5-CSA-5-4119(45)	1/11/2002	201066
OU5-CSA-11-3717FR	1/14/2002	201075
OU5-CSA-8-4427SS	1/14/2002	201079
OU5-CSA-9-L34	1/14/2002	201078
OU5-CSA-8-4427SS	1/14/2002	201078
OU5-CSA-12-3514OC	1/14/2002	201075
OU5-CSA-9-L33	1/14/2002	201078
OU5-CSA-6-4200(43)	1/14/2002	201078
OU5-CTA-1C-3650FR	1/15/2002	201084
OU5-CTA-1C-3940FR	1/15/2002	201084
OU5-CTA-1D-4004(49)	1/16/2002	201095
OU5-CTA-1D-3806(49)	1/16/2002	201095
OU5-CSA-6-4200(43)	1/17/2002	201101
OU5-CSA-8-4427SS	1/17/2002	201101
OU5-CSA-9-L34	1/18/2002	201122
OU5-CSA-9-L33	1/18/2002	201122

QUALITY ASSURANCE SUMMARY REPORT (NO. 9) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-5 SAMPLING

SAMPLING FOR NOVEMBER 12, 2001 THROUGH JANUARY 18, 2002

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-5 sampling locations between November 12, 2001 and January 18, 2002. The samples are identified by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared and analyzed together (i.e., the analytical batch) with common laboratory QC samples. The sampling period covered in this report includes many SDGs, as indicated on the tables. Analytes in these SDGs include arsenic, 1,4-oxathiane, 1,4-dithiane, thiodiglycol, explosives, lewisite (CVAA/CVAO), sulfur mustard and total cyanide.

All work was performed in accordance with the Work Management Plan (WMP) prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is also presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All

information included in the data packages have been reviewed and validated including sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: accuracy (% recovery) outliers, precision (RPD) outliers, holding time violations and reported detections less than the Practical Quantitation Limit (PQL). Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: accuracy or precision outliers, holding time violations and reported detections less than the PQL. Details concerning these problems are presented below by analytical parameter.

Organosulfur Compounds

- Surrogate percent recovery outliers were reported for sample CSA-8-4434SS-SB-(2-3), SDG 112089. The reported percent recoveries for the samples were outside the control limits. Although the target analytes were not detected in any of the affected samples, the reported PQLs have been qualified as estimated and flagged ‘UJ’. The reported data is usable for most purposes, including risk assessment.

- Accuracy outliers were reported for the Laboratory Control Samples (LCS) associated with SDG 201039. The reported recoveries for target analyte 1,4-oxathiane were outside the control limits. Although the analyte was not

detected in any of the affected samples, the reported PQLs have been qualified as estimates and flagged 'UJ'.

Lewisite (CVAA/CVAO)

- A holding time violation was reported in sample CSA-12-3514OC-SB(3-4) in SDG 112089. The sample was analyzed outside the required holding time. The reported results for the affected sample have been qualified as estimates and flagged 'UJ'.

Metals

- Some reported arsenic results have been qualified as estimated and flagged 'J'. This flag indicates the analyte was positively identified but the associated value is less than the PQL. Samples in the following SDGs were affected: 111091, 111125, 111142, 111154, 111166, 112004, 112008, 112009, 112088, 201013, 210018, 201032, 201044, 201078, 111117, 112239, 201037, 111101, 111118, 111124, 111156, 111167, 111174, 111183, 111197, 111205, 111215, 111236, 111237, 112005, 112007, 112010, 112023, 112046, 112047, 112048, 112055, 112087, 112103, 112104, 112106, 112125, 112129, 112140, 201001, 201007, 201030, 201075 and 201084.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the actual result or PQL may be higher than the reported result. The reported data is usable for most purposes, including risk assessment. Samples in the following SDGs were affected: 111118, 111197, 111236, 112104, 111142, 112009 and 201037.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'K/JK'. The 'K' qualifier indicates a high bias meaning the actual result may be lower than the reported result. The reported data is

usable for most purposes, including risk assessment. Only samples in SDGs 111215, 112125, 112008 and 201101 were affected.

- Precision outliers were reported for arsenic. The Relative Percent Difference (RPD) for the laboratory duplicate associated with the following SDGs were outside the control limit: 111167, 111183, 111237, 112048, 112055, 112106, 112008, 201078, 201056 and 201095. Reported results for arsenic in the affected samples have been qualified as estimates and flagged 'J/UJ'.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-5 SAMPLING FOR THE PERIOD

1/21/02 TO 7/02/02

(REPORT NO.10)

OU-5 SAMPLES COLLECTED FROM 1/21/02 TO 7/02/02 (Report No. 10)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-12-4925LR-SB1	1/21/2002	201123
OU5-CSA-8-4458TinS-SB1	1/21/2002	201123
OU5-CSA-8-4430TinS-SB1	1/21/2002	201123
OU5-CSA-8-4447SS-SB1	1/21/2002	201123
OU5-CSA-6-4212YS-SB1	1/21/2002	201123
OU5-CSA-6-4331(43)-SB1	1/21/2002	201123
OU5-CSA-12-L18-1	1/21/2002	201123
OU5-CSA-12-L18-2	1/21/2002	201123
OU5-CSA-12-L19-1	1/21/2002	201123
OU5-CSA-12-L19-2	1/21/2002	201123
OU5-CSA-12-L20-1	1/21/2002	201123
OU5-CSA-12-L20-2	1/21/2002	201123
OU5-CSA-12-L21-1	1/21/2002	201123
OU5-CSA-12-L21-2	1/21/2002	201123
OU5-CSA-8-4458TinS	1/22/2002	201137
OU5-CSA-8-4430TinS	1/22/2002	201137
OU5-CSA-8-4447SS	1/23/2002	201144
OU5-CTA-1D-4847SegS	1/23/2002	201144
OU5-CSA-6-4212YS	1/24/2002	201150
OU5-CSA-6-4333VNS	1/24/2002	201150
OU5-CSA-6-4331(43)	1/25/2002	201175
OU5-CTA-1A-4911VNS	1/25/2002	201175
OU5-CSA-11-4944QS	1/28/2002	201180
OU5-CSA-6-4347WS	1/28/2002	201179
OU5-CSA-6-4347WS	1/28/2002	201176
OU5-CSA-6-4317WS	1/28/2002	201179
OU5-CSA-11-4944QS	1/28/2002	201176
OU5-CSA-10-4834QS	1/28/2002	201194
OU5-CSA-2-5145YS	1/28/2002	201179
OU5-CSA-6-4317WS	1/28/2002	201180
OU5-CSA-11-4918HL	1/28/2002	201179
OU5-CSA-7-4216VNS	1/29/2002	201190
OU5-CSA-2-5145YS	1/29/2002	201190
OU5-CSA-6-4317WS	1/30/2002	201194
OU5-CSA-10-4834QS	1/30/2002	201194
OU5-CTA-1A-4915VNS	1/31/2002	202003
OU5-CSA-11-4918HL	1/31/2002	202003
OU5-CSA-4-4012(47)	2/1/2002	202012
OU5-CSA-4-4016(47)	2/1/2002	202012
OU5-CSA-4-4008(47)	2/4/2002	202023
OU5-CSA-7-4216VNS	2/4/2002	202023
OU5-CSA-4-4005(47)	2/4/2002	202023
OU5-CSA-4-4012(47)	2/4/2002	202023
OU5-CSA-4-4000(47)	2/4/2002	202024
OU5-CSA-4-4000(47)	2/4/2002	202023
OU5-CSA-4-4001(47)	2/4/2002	202023
OU5-CSA-5-4624VNS	2/4/2002	202023
OU5-CSA-4-4012(47)	2/4/2002	202022
OU5-CSA-4-4016(47)	2/4/2002	202023
OU5-CSA-4-4001(47)	2/5/2002	202026

OU-5 SAMPLES COLLECTED FROM 1/21/02 TO 7/02/02 (Report No. 10)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-4-4005(47)	2/5/2002	202026
OU5-CSA-4-4009(47)	2/6/2002	202041
OU5-CSA-5-4624VNS	2/7/2002	202050
OU5-CSA-4-4008(47)	2/7/2002	202050
OU5-CSA-7-L16	2/8/2002	202058
OU5-CSA-5-L15	2/8/2002	202058
OU5-CSA-13-L80	2/11/2002	202062
OU5-CSA-13-L81	2/11/2002	202062
OU5-CSA-13-L15	2/12/2002	202068
OU5-CSA-5-L15	2/13/2002	202076
OU5-CTA-1D-4919US	2/13/2002	202076
OU5-CSA-4-4009(47)	2/13/2002	202076
OU5-CSA-13-L15	2/13/2002	202077
OU5-CSA-13-L15	2/13/2002	202068
OU5-CSA-7-L25	2/13/2002	202077
OU5-CSA-7-L25	2/13/2002	202076
OU5-CSA-6-4318WS	2/13/2002	202076
OU5-CSA-2-5126WP	2/14/2002	202085
OU5-CSA-8-3916(44)	2/14/2002	202085
OU5-CSA-6-4433WS	2/14/2002	202085
OU5-CSA-6-4432WinP	2/14/2002	202085
OU5-CSA-12-3520OC	2/14/2002	202085
OU5-CSA-2-5113YS	2/14/2002	202085
OU5-CSA-5-4106(46)	2/14/2002	202085
OU5-CSA-6-4325VNS	2/14/2002	202085
OU5-CSA-12-4994GR	2/14/2002	202085
OU5-CSA-12-4853LR	2/14/2002	202085
OU5-CSA-2-5105YS	2/14/2002	202085
OU5-CSA-12-4995GR	2/14/2002	202085
OU5-CSA-5-4635MA	2/14/2002	202085
OU5-CSA-7-L25	2/15/2002	202095
OU5-CSA-6-4318WS	2/15/2002	202095
OU5-CSA-12-L20	2/18/2002	202102
OU5-CTA-1C-5148TS	2/18/2002	202102
OU5-CTA-1C-5040SegS	2/20/2002	202108
OU5-CSA-10-3641(49)	2/20/2002	202109
OU5-CSA-10-4615RS	2/20/2002	202109
OU5-CSA-8-4442TinS	2/20/2002	202109
OU5-CSA-5-4651MA	2/20/2002	202109
OU5-CSA-12-4850RP	2/20/2002	202109
OU5-CSA-2-5123WP	2/21/2002	202118
OU5-CSA-6-4354WS	2/21/2002	202118
OU5-CSA-2-5147YS	2/22/2002	202134
OU5-CSA-6-4323WinP	2/22/2002	202134
OU5-CSA-6-4437WS	2/25/2002	202139
OU5-CTA-1B-4070(52)	2/25/2002	202139
OU5-CSA-8-4477SegS	2/26/2002	202147
OU5-CTA-1C-3720FR	2/26/2002	202147
OU5-CTA-1B-5120RP	2/27/2002	202153
OU5-CSA-6-4215YS	2/27/2002	202153

OU-5 SAMPLES COLLECTED FROM 1/21/02 TO 7/02/02 (Report No. 10)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-6-4215YS	2/28/2002	202163
OU5-CSA-12-L20	2/28/2002	202102
OU5-CSA-2-5147YS	2/28/2002	202163
OU5-CSA-6-4354WS	2/28/2002	202163
OU5-CSA-8-4477SegS	2/28/2002	202163
OU5-CSA-6-4437WS	2/28/2002	202163
OU5-CSA-6-4323WinP	2/28/2002	202163
OU5-CSA-2-4350(50)	3/19/2002	203087
OU5-CTA-1A-5027VNS	3/19/2002	203089
OU5-CTA-1A-5020WS	3/19/2002	203089
OU5-CTA-1B-5209UT	3/19/2002	203089
OU5-CTA-1B-5165RP	3/19/2002	203089
OU5-CSA-2-4350(50)	3/19/2002	203089
OU5-CSA-2-5012MA	3/20/2002	203097
OU5-CSA-2-5012MA	3/20/2002	203095
OU5-CTA-1D-4110(49)	3/20/2002	203095
OU5-CSA-5-4105(46)	3/21/2002	203099
OU5-CSA-6-4311WS	3/21/2002	203099
OU5-CSA-6-4426(42)	3/21/2002	203099
OU5-CSA-7-4224VNS	3/21/2002	203099
OU5-CSA-6-4210(43)	3/21/2002	203099
OU5-CSA-6-4209WS	3/21/2002	203099
OU5-CSA-6-4441WS	3/21/2002	203099
OU5-CSA-10-4620SegS	3/21/2002	203099
OU5-CSA-5-4225(45)	3/21/2002	203099
OU5-CSA-6-4309VNS	3/21/2002	203099
OU5-CSA-12-4935LR	3/21/2002	203099
OU5-CSA-6-4201(43)	3/21/2002	203099
OU5-CSA-6-4312(43)	3/21/2002	203099
OU5-CSA-6-4418(42)	3/21/2002	203099
OU5-CSA-6-4240AP	3/21/2002	203099
OU5-CSA-10-3806(47)	3/21/2002	203099
OU5-CSA-10-3710UA	3/22/2002	203105
OU5-CSA-6-4222(42)	3/22/2002	203105
OU5-CSA-2-5127WP	3/22/2002	203105
OU5-CSA-6-4404WinP	3/22/2002	203105
OU5-CSA-10-3723(48)	3/22/2002	203105
OU5-CSA-8-4430SS	3/22/2002	203105
OU5-CSA-5-4524VNS	3/22/2002	203105
OU5-CSA-8-4426SS	3/22/2002	203105
OU5-CSA-5-4508VNS	3/22/2002	203105
OU5-CSA-2-5111YS	3/22/2002	203105
OU5-CSA-4-4738TS	3/22/2002	203105
OU5-CSA-3-4720MA	3/22/2002	203105
OU5-CSA-7-4308VNS	3/22/2002	203105
OU5-CSA-8-4408SS	3/22/2002	203105
OU5-CSA-6-4329WinP	3/22/2002	203105
OU5-CSA-2-5151YS	3/22/2002	203105
OU5-CSA-2-5125(52)	3/22/2002	203105
OU5-CSA-2-5141YS	3/25/2002	203106

OU-5 SAMPLES COLLECTED FROM 1/21/02 TO 7/02/02 (Report No. 10)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1A-5100WP	3/26/2002	203110
OU5-CSA-2-5006MA	3/26/2002	203110
OU5-CSA-6-4301WS	3/26/2002	203110
OU5-CSA-2-5116YS	3/26/2002	203110
OU5-CSA-6-4301WS	3/26/2002	203111
OU5-CSA-2-5006MA	3/26/2002	203111
OU5-CSA-2-5028MA	3/26/2002	203111
OU5-CSA-2-5028MA	3/26/2002	203110
OU5-CSA-2-5116YS	3/26/2002	203111
OU5-CSA-2-5141YS	3/27/2002	203118
OU5-CSA-2-4308(50)	3/27/2002	203120
OU5-CTA-1A-4244(50)	3/27/2002	203118
OU5-CTA-1C-5126TS	3/27/2002	203118
OU5-CTA-1D-3920(49)	3/27/2002	203118
OU5-CSA-2-4308(50)	3/27/2002	203118
OU5-CTA-1A-4244(50)	3/27/2002	203120
OU5-CSA-11-4950HL	3/28/2002	203130
OU5-CSA-12-5150RP	3/28/2002	203130
OU5-CSA-12-5063LR	3/28/2002	203130
OU5-CSA-6-4234(42)	3/28/2002	203130
OU5-CSA-12-4920RP	3/28/2002	203130
OU5-CSA-5-4430VNS	3/28/2002	203130
OU5-CSA-10-4700SegS	3/28/2002	203130
OU5-CSA-2-5036MA	3/28/2002	203130
OU5-CSA-2-4330(50)	3/28/2002	203130
OU5-CSA-8-4473SegS	3/28/2002	203130
OU5-CTA-1C-5040SegS	4/2/2002	204016
OU5-CTA-1D-4810SegS	4/23/2002	204128
OU5-CTA-1B-5115RP	4/24/2002	204136
OU5-CTA-1D-4901TS	4/24/2002	204136
OU5-CTA-1B-3825(52)	4/24/2002	204136
OU5-CTA-1B-5127TS	4/24/2002	204136
OU5-CTA-1D-4849RS	4/24/2002	204136
OU5-CSA-10-4726SegS	4/25/2002	204148
OU5-CSA-2-5118AS	4/25/2002	204148
OU5-CSA-6-4335VNS	4/25/2002	204148
OU5-CSA-6-4325VNS	4/25/2002	204148
OU5-CSA-12-4955LR	4/25/2002	204148
OU5-CSA-6-4205VNS	4/25/2002	204148
OU5-CSA-4-4700US	4/25/2002	204148
OU5-CSA-6-4401(43)	4/25/2002	204148
OU5-CSA-2-5126AS	4/25/2002	204148
OU5-CTA-1C-5041US	4/25/2002	204150
OU5-CSA-3-4726MA	4/25/2002	204148
OU5-CSA-5-4115(46)	4/25/2002	204148
OU5-CTA-1D-4920VNS	5/1/2002	205013
OU5-CSA-6-4310(44)	5/1/2002	205013
OU5-CTA-1D-4920VNS	5/1/2002	205015
OU5-CSA-12-5041LR	5/1/2002	205015
OU5-CSA-6-4310(44)	5/1/2002	205015

OU-5 SAMPLES COLLECTED FROM 1/21/02 TO 7/02/02 (Report No. 10)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-4-3916(47)	5/1/2002	205015
OU5-CSA-5-L34	5/22/2002	205125
OU5-CSA-5-L33	5/22/2002	205125
OU5-CSA-5-4655MA	5/22/2002	205126
OU5-CSA-5-L12	5/22/2002	205125
OU5-CSA-5-L13	5/22/2002	205125
OU5-CSA-5-L9	5/22/2002	205125
OU5-CSA-5-L8	5/22/2002	205125
OU5-CSA-5-L14	5/22/2002	205125
OU5-CSA-5-L11	5/22/2002	205125
OU5-CSA-5-L10	5/22/2002	205125
OU5-CSA-4-4007(49)	6/10/2002	206050
OU5-CSA-8-4460SS	6/10/2002	206049
OU5-CSA-6-4330WS	6/11/2002	206056
OU5-CSA-3-4813VNS	6/11/2002	206056
OU5-CSA-6-4414(42)	6/11/2002	206056
OU5-CSA-5-4125(46)	6/11/2002	206056
OU5-CSA-6-4316WinP	6/11/2002	206056
OU5-CSA-5-4520VNS	6/11/2002	206056
OU5-CSA-5-4450VNS	6/11/2002	206056
OU5-CSA-2-5117YS	6/11/2002	206056
OU5-CTA-1B-5121TS	7/2/2002	207014
OU5-CSA-6-4221(43)	7/2/2002	207014
OU5-CSA-7-L16	7/2/2002	207014
OU5-CSA-8-4460SS	7/2/2002	207014

QUALITY ASSURANCE SUMMARY REPORT (NO. 10) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-5 SAMPLING

SAMPLING FROM JANUARY 21, 2002 THROUGH JULY 2, 2002

INTRODUCTION

This data validation summary report covers environmental samples collected from selected Spring Valley OU-5 sampling locations between January 22 and July 2, 2002. The samples are identified by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared and analyzed together (i.e., the analytical batch) with common laboratory QC samples. The sampling period covered in this report includes many SDGs, as indicated on the tables. Analytes in these SDGs include arsenic, 1,4-oxathiane, 1,4-dithiane, thiodiglycol, explosives, lewisite (CVAA/CVAO), sulfur mustard and total cyanide.

All work was performed in accordance with the Work Management Plan (WMP) prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPjP and the WMP, performed all analyses.

The samples discussed in this report are listed in the table. A glossary of the validation qualifiers is also presented at the end of this report.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All

information included in the data packages have been reviewed and validated including sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: accuracy (% recovery) outliers, precision (RPD) outliers, holding time violations and reported detections less than the Practical Quantitation Limit (PQL). Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: accuracy or precision outliers, holding time violations and reported detections less than the PQL. Details concerning these problems are presented below by analytical parameter.

Organosulfur Compounds

- Accuracy outliers were reported for the Laboratory Control Samples (LCS) associated with SDG 202109. The reported recoveries for target analytes 1,4-oxathiane and 1,4-dithiane were below the control limits. Although the analytes were not detected in any of the affected samples, the reported PQLs have been qualified as estimates and flagged ‘UL’. The ‘L’ qualifier indicates a low bias meaning the true PQL may be higher than reported. The reported data is usable for most purposes, including risk assessment.

Metals

- Some reported arsenic results have been qualified as estimated and flagged 'J'. This flag indicates the analyte was positively identified but the associated value is less than the PQL. Samples in the following SDGs were affected: 202062, 202068, 202102, 202118, 202134, 202139, 202147, 202153, 201123, 201179, 201190, 202023, 202076, 203089, 203095, 203099, 203106, 203110, 203118, 204136, 207007, 204014, 205015 and 109067.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the actual result or PQL may be higher than the reported result. The reported data is usable for most purposes, including risk assessment. Samples in the following SDGs were affected: 202147 and 202163.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'K/JK'. The 'K' qualifier indicates a high bias meaning the actual result may be lower than the reported result. The reported data is usable for most purposes, including risk assessment. Only samples in SDG 201194, 202095, 201179, 203105 and 203106 were affected.

- Precision outliers were reported for arsenic. The Relative Percent Difference (RPD) for the laboratory duplicate associated with the following SDGs were outside the control limit: 202058, 202102, 202147 and 202085. Reported results for arsenic in the affected samples have been qualified as estimates and flagged 'J/UJ'.

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

OU-4 AND OU-5 SAMPLING FOR THE PERIOD

4/03/01 TO 12/20/02

(REPORT NO. 11)

OU-4 AND OU-5 SAMPLES COLLECTED FROM 4/3/01 TO 12/20/02 (REPORT No. 11)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG No.
OU-5-5059-4	4/3/2001	104015
OU-5-5059-3	4/3/2001	
OU-5-5059-2	4/3/2001	
OU-5-5059-1	4/3/2001	
OU-5-5059-1A	4/3/2001	
OU-5-5059-2A	4/3/2001	
OU-5-5059-3A	4/3/2001	
OU-5-5059-4A	4/3/2001	
OU-5-5059-SB-1	4/3/2001	
OU-5-5059-SB-2	4/3/2001	
OU-5-5059-SB-3	4/3/2001	
OU-5-5059-SB-4	4/3/2001	
OU-5-5059-SB-5	4/3/2001	
OU-5-5059-SB-6	4/3/2001	
OU-5-5059-SB-7	4/3/2001	
OU-5-5059-SB-8	4/3/2001	
OU-5-5059-SB-9	4/3/2001	
OU-5-5059-SB-DUP-02	4/3/2001	
OU-5-5059-DUP-02	4/3/2001	
OU-5-5065-1	4/3/2001	104017
OU-5-5065-2	4/3/2001	
OU-5-5065-3	4/3/2001	
OU-5-5065-4	4/3/2001	
OU-5-5065-1A	4/3/2001	
OU-5-5065-2A	4/3/2001	
OU-5-5065-3A	4/3/2001	
OU-5-5065-4A	4/3/2001	
OU-5-5065-SB-1	4/3/2001	
OU-5-5065-SB-2	4/3/2001	
OU-5-5065-SB-3	4/3/2001	
OU-5-5065-SB-4	4/3/2001	
OU-5-5065-SB-5	4/3/2001	
OU-5-5065-SB-6	4/3/2001	
OU-5-5065-SB-7	4/3/2001	
OU-5-5065-DUP-01	4/3/2001	
OU-5-5036-1	4/4/2001	104029
OU-5-5036-2	4/4/2001	
OU-5-5036-3	4/4/2001	
OU-5-5036-4	4/4/2001	
OU-5-5036-1A	4/4/2001	
OU-5-5036-2A	4/4/2001	
OU-5-5036-3A	4/4/2001	
OU-5-5036-4A	4/4/2001	
OU-5-5036-SB-1	4/4/2001	
OU-5-5036-SB-2	4/4/2001	
OU-5-5036-SB-3	4/4/2001	
OU-5-5036-SB-4	4/4/2001	
OU-5-5036-SB-5	4/4/2001	
OU-5-5036-SB-6	4/4/2001	
OU-5-5036-DUP-01	4/4/2001	
OU4-4810GR-(120,80)	4/23/2002	204130
OU4-4810GR-(120,100)	4/23/2002	
OU4-4810GR-(100,100)	4/23/2002	
OU4-4810GR-(80,80)	4/23/2002	204130
OU4-4810GR-(100,80)	4/23/2002	
OU4-4810GR-(40,80)	4/23/2002	
OU4-4810GR-(60,80)	4/23/2002	

OU-4 AND OU-5 SAMPLES COLLECTED FROM 4/3/01 TO 12/20/02 (REPORT No. 11)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG No.
OU4-4810GR-(80,100)	4/23/2002	
OU4-4810GR-(40,60)	4/23/2002	
OU4-4810GR-(40,20)	4/23/2002	
OU4-4810GR-(160,160)	4/23/2002	
OU4-4810GR-(140,140)	4/23/2002	
OU4-4810GR-(160,120)	4/23/2002	
OU4-4810GR-(100,120)	4/23/2002	
OU4-4810GR-(60,20)	4/23/2002	
OU4-4810GR-(40,40)	4/23/2002	
OU4-4810GR-(60,40)	4/23/2002	
OU4-4810GR-(80,20)	4/23/2002	
OU4-4810GR-(120,140)	4/23/2002	
OU4-4810GR-(160,140)	4/23/2002	
OU4-4810GR-(120,160)	4/23/2002	
OU4-4810GR-(20,20)	4/23/2002	
OU4-4810GR-(60,60)	4/23/2002	
OU4-4810GR-(20,60)	4/23/2002	
OU4-4810GR-(140,40)	4/23/2002	
OU4-4810GR-(160,20)	4/23/2002	
OU4-4810GR-(160,40)	4/23/2002	
OU4-4810GR-(60,140)	4/23/2002	
OU4-4810GR-(160,100)	4/23/2002	
OU4-4810GR-(100,160)	4/23/2002	
OU4-4810GR-(140,120)	4/23/2002	
OU4-4810GR-(120,120)	4/23/2002	
OU4-4810GR-(160,80)	4/23/2002	
OU4-4810GR-(160,60)	4/23/2002	
OU4-4810GR-(140,100)	4/23/2002	
OU4-4810GR-(140,60)	4/23/2002	
OU4-4810GR-(100,40)	4/23/2002	
OU4-4810GR-(140,20)	4/23/2002	
OU4-4810GR-(100,20)	4/23/2002	
OU4-4810GR-(120,20)	4/23/2002	
OU4-4810GR-(120,40)	4/23/2002	
OU4-4810GR-(100,60)	4/23/2002	
OU4-4810GR-(80,60)	4/23/2002	
OU4-4810GR-(80,120)	4/23/2002	
OU4-4810GR-(80,40)	4/23/2002	
OU4-4810GR-(100,140)	4/23/2002	
OU4-4810GR-(60,120)	4/23/2002	
OU4-4810GR-(40,100)	4/23/2002	
OU4-4810GR-(80,140)	4/23/2002	
OU4-4810GR-(60,100)	4/23/2002	
OU4-4810GR-(40,120)	4/23/2002	
OU4-4810GR-(40,140)	4/23/2002	
OU4-4810GR-(120,60)	4/23/2002	
OU4-4810GR-(20,60) DUP	4/23/2002	
OU4-4810GR-(140,160)	4/23/2002	
OU4-4810GR-DUP01	4/23/2002	
OU4-4810GR-DUP02	4/23/2002	204130
OU4-4810GR-DUP03	4/23/2002	
CSA-6-4221(43)-SB(3.5-4.5)	7/2/2002	207015
CSA-6-4221(43)-SB(3.5-4.5)	7/2/2002	
CSA-6-4221(43)-SB-(3.5-4.5)	7/2/2002	
CSA-6-4221(43)-SB-(3.5-4.5)	7/2/2002	
OU5-CSA-11-4949QS-1	8/7/2002	208047
OU5-CSA-11-4949QS-2	8/7/2002	

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SAMPLE ID	SAMPLE DATE	SDG No.
OU5-CSA-5-L3-1	8/7/2002	
OU5-CSA-5-L3-2	8/7/2002	
OU5-CSA-5-4643MA-1	8/7/2002	
OU5-CSA-5-4643MA-2	8/7/2002	
OU5-CTA-1A-L1-SBA1	8/26/2002	208184
OU5-CTA-1A-L1-SBA2	8/26/2002	
OU5-CTA-1A-L1-SBA3	8/26/2002	
OU5-CTA-1A-L1-SBA4	8/26/2002	
OU5-CTA-1A-L1-SBA5	8/26/2002	
OU5-CTA-1A-L1-SBA6	8/26/2002	
OU5-CTA-1A-L1-1	8/26/2002	
OU5-CTA-1A-L1-2	8/26/2002	
OU5-CTA-1A-L1-3	8/26/2002	
OU5-CTA-1A-L1-4	8/26/2002	
OU5-CTA-1A-L2-SB1	8/26/2002	
OU5-CTA-1A-L2-SB2	8/26/2002	
OU5-CTA-1A-L2-SB3	8/26/2002	
OU5-CTA-1A-L2-SB4	8/26/2002	
OU5-CTA-1A-L2-1	8/26/2002	
OU5-CTA-1A-L2-2	8/26/2002	
OU5-CTA-1A-L2-3	8/26/2002	
OU5-CTA-1A-L2-4	8/26/2002	
OU5-CSA-3-L6-1	8/26/2002	
OU5-CSA-3-L6-2	8/26/2002	
OU5-CSA-3-L8-1	8/26/2002	
OU5-CSA-3-L8-2	8/26/2002	
OU5-CSA-3-L2-1	8/26/2002	
OU5-CSA-3-L2-2	8/26/2002	
OU5-CSA-3-L3-1	8/26/2002	
OU5-CSA-3-L3-2	8/26/2002	
OU5-CSA-6-4329VNS-1	8/26/2002	
OU5-CSA-6-4329VNS-2	8/26/2002	
OU5-CSA-3-L4-EB115	8/28/2002	208193
OU5-CSA-3-L6-SBB-EB110	8/28/2002	
OU5-CTA-L1-SBB1	8/28/2002	208198
OU5-CTA-L1-SBB2	8/28/2002	
OU5-CTA-L1-SBB3	8/28/2002	
OU5-CSA-3-L4-SBA1	8/28/2002	
OU5-CSA-3-L4-SBA2	8/28/2002	
OU5-CSA-3-L4-SBA3	8/28/2002	
OU5-CSA-3-L4-SBA4	8/28/2002	
OU5-CSA-3-L4-SBA5	8/28/2002	
OU5-CSA-3-L4-1	8/28/2002	
OU5-CSA-3-L4-2	8/28/2002	
OU5-CSA-3-L4-SBB1	8/28/2002	
OU5-CSA-3-L4-SBB2	8/28/2002	208198
OU5-CSA-3-L4-SBB3	8/28/2002	
OU5-CSA-3-L4-SBB4	8/28/2002	
OU5-CSA-3-L4-SBB5	8/28/2002	
OU5-CSA-3-L4-SBB6	8/28/2002	
OU5-CSA-3-L4-SBC1	8/28/2002	
OU5-CSA-3-L4-SBC2	8/28/2002	
OU5-CSA-3-L4-SBC3	8/28/2002	
OU5-CSA-3-L4-SBC4	8/28/2002	
OU5-CSA-3-L4-SBC5	8/28/2002	
OU5-CSA-3-L4-SBC6	8/28/2002	
OU5-CSA-3-L4-SBC7	8/28/2002	

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SAMPLE ID	SAMPLE DATE	SDG No.
OU5-CSA-3-L4-SBC8	8/28/2002	
OU5-CSA-3-L6-SBB1	8/28/2002	
OU5-CSA-3-L6-SBB2	8/28/2002	
OU5-CSA-3-L6-SBB3	8/28/2002	
OU5-CSA-3-L6-SBB4	8/28/2002	
OU5-CSA-3-L6-SBB5	8/28/2002	
OU5-CSA-3-L6-SBB6	8/28/2002	
OU5-CTA-1A-L1-SBB-DUP110	8/28/2002	
OU5-CSA-3-L4-SBC-DUP111	8/28/2002	
OU5-CSA-3-L4-DUP115	8/28/2002	
CSA-3-L4-SBC(5-6)	8/28/2002	208204
CSA-3-L4-SBC(5-6)	8/28/2002	
CSA-3-L4-SBC(5-6)	8/28/2002	
CSA-3-L4-SBA(3-4)	8/28/2002	
CSA-3-L4-SBA(3-4)	8/28/2002	
CSA-3-L4-SBA(3-4)	8/28/2002	
CSA-3-L6-SBB(3-4)	8/28/2002	
CSA-3-L6-SBB(3-4)	8/28/2002	
CSA-3-L6-SBB(3-4)	8/28/2002	
OU5-CSA-7-L58-SB1	8/29/2002	208206
OU5-CSA-7-L58-SB2	8/29/2002	
OU5-CSA-7-L58-SB3	8/29/2002	
OU5-CSA-7-L58-SB4	8/29/2002	
OU5-CSA-7-L58-1	8/29/2002	
OU5-CSA-7-L58-2	8/29/2002	
OU5-CSA-3-L7-SB1	8/29/2002	
OU5-CSA-3-L7-SB2	8/29/2002	
OU5-CSA-3-L7-SB3	8/29/2002	
OU5-CSA-3-L7-SB4	8/29/2002	
OU5-CSA-3-L7-SB5	8/29/2002	
OU5-CSA-3-L7-SB6	8/29/2002	
OU5-CSA-3-L7-SB7	8/29/2002	
OU5-CSA-3-L7-SB8	8/29/2002	
OU5-CSA-3-L7-SB9	8/29/2002	
OU5-CSA-3-L7-SB10	8/29/2002	
OU5-CSA-3-L7-1	8/29/2002	
OU5-CSA-3-L7-2	8/29/2002	
OU5-CSA-2-5122YS-SB1	8/29/2002	
OU5-CSA-2-5122YS-SB2	8/29/2002	
OU5-CSA-2-5122YS-SB3	8/29/2002	
OU5-CSA-2-5122YS-SB4	8/29/2002	
OU5-CSA-2-5122YS-1	8/29/2002	208206
OU5-CSA-2-5122YS-2	8/29/2002	
OU5-CTA-1A-5122(52)-SB1	8/29/2002	
OU5-CTA-1A-5122(52)-SB2	8/29/2002	
OU5-CTA-1A-5122(52)-SB3	8/29/2002	
OU5-CTA-1A-5122(52)-SB4	8/29/2002	
OU5-CTA-1A-5122(52)-SB5	8/29/2002	
OU5-CTA-1A-5122(52)-SB6	8/29/2002	
OU5-CTA-1A-5122(52)-1	8/29/2002	
OU5-CTA-1A-5122(52)-2	8/29/2002	
OU5-CTA-1A-5122(52)-3	8/29/2002	
OU5-CTA-1A-5122(52)-4	8/29/2002	
OU5-CTA-1A-L3-SB1	8/29/2002	
OU5-CTA-1A-L3-SB2	8/29/2002	
OU5-CTA-1A-L3-SB3	8/29/2002	
OU5-CTA-1A-L3-1	8/29/2002	

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SAMPLE ID	SAMPLE DATE	SDG No.
OU5-CTA-1A-L3-2	8/29/2002	
OU5-CTA-1A-L3-3	8/29/2002	
OU5-CTA-1A-L3-4	8/29/2002	
OU5-CTA-1C-5009US-SB1	8/29/2002	
OU5-CTA-1C-5009US-SB2	8/29/2002	
OU5-CTA-1C-5009US-SB3	8/29/2002	
OU5-CTA-1C-5009US-SB4	8/29/2002	
OU5-CTA-1C-5009US-SB5	8/29/2002	
OU5-CTA-1C-5009US-SB6	8/29/2002	
OU5-CTA-1C-5009US-1	8/29/2002	
OU5-CTA-1C-5009US-2	8/29/2002	
OU5-CTA-1C-5009US-3	8/29/2002	
OU5-CTA-1C-5009US-4	8/29/2002	
CSA-7-L58-SB-DUP112	8/29/2002	
CSA-7-L58-DUP116	8/29/2002	
CTA-1A-5122(52)-DUP117	8/29/2002	
CTA-1A-5122(52)-SB-DUP113	8/29/2002	
CSA-3-L7-SB(9-10)	8/29/2002	208207
CSA-3-L7-SB(9-10)	8/29/2002	
CSA-3-L7-SB(9-10)	8/29/2002	
CSA-2-5122YS-SB(3-4)	8/29/2002	
CSA-2-5122YS-SB(3-4)	8/29/2002	
CSA-2-5122YS-SB(3-4)	8/29/2002	
OU4-3318(45)-(40,120)	9/5/2002	209023
OU4-3318(45)-(80,140)	9/5/2002	
OU4-3318(45)-(40,0)	9/5/2002	
OU4-3318(45)-(60,160)	9/5/2002	
OU4-3318(45)-(80,160)	9/5/2002	
OU4-3318(45)-(20,20)	9/5/2002	
OU4-3318(45)-(40,20)	9/5/2002	
OU4-3318(45)-(20,60)	9/5/2002	
OU4-3318(45)-(20,40)	9/5/2002	
OU4-3318(45)-(60,80)	9/5/2002	
OU4-3318(45)-(80,120)	9/5/2002	
OU4-3318(45)-(80,100)	9/5/2002	
OU4-3318(45)-(60,140)	9/5/2002	
OU4-3318(45)-(40,80)	9/5/2002	
OU4-3318(45)-(40,60)	9/5/2002	209023
OU4-3318(45)-(40,100)	9/5/2002	
OU4-3318(45)-(60,120)	9/5/2002	
OU4-3318(45)-(60,100)	9/5/2002	
OU4-3318(45)-(80,60)	9/5/2002	
OU4-3318(45)-(80,80)	9/5/2002	
OU4-3318(45)-(40,40)	9/5/2002	
OU4-3318(45)-(80,40)	9/5/2002	
OU4-3318(45)-(100,100)	9/5/2002	
OU4-3318(45)-(20,0)	9/5/2002	
OU4-3318(45)-(60,20)	9/5/2002	
OU4-3318(45)-(60,40)	9/5/2002	
OU4-3318(45)-(60,0)	9/5/2002	
OU4-3318(45)-DUP01	9/5/2002	
OU5-CTA-1A-4849RS-(40,120)	9/5/2002	209024
OU5-CTA-1A-4849RS-(20,140)	9/5/2002	
OU5-CTA-1A-4849RS-(80,140)	9/5/2002	
OU5-CTA-1A-4849RS-(60,100)	9/5/2002	
OU5-CTA-1A-4849RS-(60,120)	9/5/2002	
OU5-CTA-1A-4849RS-(60,140)	9/5/2002	

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SAMPLE ID	SAMPLE DATE	SDG No.
OU5-CTA-1A-4849RS-(100,100)	9/5/2002	
OU5-CTA-1A-4849RS-(80,120)	9/5/2002	
OU5-CTA-1A-4849RS-(100,80)	9/5/2002	
OU5-CTA-1A-4849RS-(80,100)	9/5/2002	
OU5-CTA-1A-4849RS-(100,60)	9/5/2002	
OU5-CTA-1A-4849RS-(80,60)	9/5/2002	
OU5-CTA-1A-4849RS-(40,140)	9/5/2002	
OU5-CTA-1A-4849RS-(20,120)	9/5/2002	
OU5-CTA-1A-4849RS-(80,80)	9/5/2002	
OU5-CTA-1A-4849RS-(80,20)	9/5/2002	
OU5-CTA-1A-4849RS-(20,60)	9/5/2002	
OU5-CTA-1A-4849RS-(40,40)	9/5/2002	
OU5-CTA-1A-4849RS-(40,80)	9/5/2002	
OU5-CTA-1A-4849RS-(40,20)	9/5/2002	
OU5-CTA-1A-4849RS-(20,80)	9/5/2002	
OU5-CTA-1A-4849RS-(40,60)	9/5/2002	
OU5-CTA-1A-4849RS-(80,40)	9/5/2002	
OU5-CTA-1A-4849RS-(60,20)	9/5/2002	
OU5-CTA-1A-4849RS-(60,40)	9/5/2002	
OU5-CTA-1A-4849RS-(0,120)	9/5/2002	
OU5-CTA-1A-4849RS-(60,80)	9/5/2002	
OU5-CTA-1A-4849RS-(20,100)	9/5/2002	
OU5-CTA-1A-4849RS-(100,20)	9/5/2002	
OU5-CTA-1A-4849RS-(120,20)	9/5/2002	
OU5-CTA-1A-4849RS-(100,40)	9/5/2002	
OU5-CTA-1A-4849RS-(120,40)	9/5/2002	
OU5-CTA-1A-4849RS-(80,100)	9/5/2002	
OU5-CTA-1A-4849RS-(60,60)	9/5/2002	
OU5-CTA-1A-4849RS-DUP01	9/5/2002	
OU5-CTA-1A-4849RS-DUP02	9/5/2002	
OU4-3318(45)-EB01	9/5/2002	209025
OU5-CTA-1A-4849RS-EB01	9/5/2002	209026
OU5-CTA-1A-4849RS-EB02	9/5/2002	
OU5-CSA-4-4700TS-1	10/23/2002	210203
OU5-CSA-4-4700TS-2	10/23/2002	
OU5-CSA-6-4221(43)-EB01	11/7/2002	211042
OU5-CSA-6-4221(43)-(20,20)	11/7/2002	211043
OU5-CSA-6-4221(43)-(100,140)	11/7/2002	
OU5-CSA-6-4221(43)-(40,100)	11/7/2002	
OU5-CSA-6-4221(43)-(40,140)	11/7/2002	
OU5-CSA-6-4221(43)-(80,120)	11/7/2002	
OU5-CSA-6-4221(43)-(40,120)	11/7/2002	
OU5-CSA-6-4221(43)-(60,160)	11/7/2002	
OU5-CSA-6-4221(43)-(100,120)	11/7/2002	
OU5-CSA-6-4221(43)-(60,140)	11/7/2002	
OU5-CSA-6-4221(43)-(80,140)	11/7/2002	
OU5-CSA-6-4221(43)-(100,100)	11/7/2002	
OU5-CSA-6-4221(43)-(60,100)	11/7/2002	
OU5-CSA-6-4221(43)-(80,60)	11/7/2002	
OU5-CSA-6-4221(43)-(80,80)	11/7/2002	
OU5-CSA-6-4221(43)-(80,40)	11/7/2002	
OU5-CSA-6-4221(43)-(40,160)	11/7/2002	
OU5-CSA-6-4221(43)-(20,80)	11/7/2002	
OU5-CSA-6-4221(43)-(20,100)	11/7/2002	
OU5-CSA-6-4221(43)-(40,80)	11/7/2002	
OU5-CSA-6-4221(43)-(40,60)	11/7/2002	
OU5-CSA-6-4221(43)-(20,60)	11/7/2002	

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SAMPLE ID	SAMPLE DATE	SDG No.
OU5-CSA-6-4221(43)-(20,40)	11/7/2002	
OU5-CSA-6-4221(43)-(0,40)	11/7/2002	
OU5-CSA-6-4221(43)-(0,60)	11/7/2002	
OU5-CSA-6-4221(43)-(60,40)	11/7/2002	
OU5-CSA-6-4221(43)-(60,20)	11/7/2002	
OU5-CSA-6-4221(43)-(40,20)	11/7/2002	
OU5-CSA-6-4221(43)-(40,40)	11/7/2002	
OU5-CSA-6-4221(43)-(60,60)	11/7/2002	
OU5-CSA-6-4221(43)-DUP01	11/7/2002	
OU5-CSA-6-4301-EB01	12/19/2002	212136
OU5-CSA-6-4301-EB02	12/19/2002	
OU5-CSA-6-4301WS-(80,60)	12/18/2002	212137
OU5-CSA-6-4301WS-(120,40)	12/18/2002	
OU5-CSA-6-4301WS-(100,60)	12/18/2002	
OU5-CSA-6-4301WS-(60,80)	12/18/2002	
OU5-CSA-6-4301WS-(40,100)	12/18/2002	
OU5-CSA-6-4301WS-(140,60)	12/18/2002	
OU5-CSA-6-4301WS-(40,60)	12/18/2002	
OU5-CSA-6-4301WS-DUP01	12/18/2002	
OU5-CSA-6-4301WS-DUP02	12/18/2002	
OU5-CSA-6-4301WS-(100,40)	12/18/2002	
OU5-CSA-6-4301WS-(40,80)	12/18/2002	
OU5-CSA-6-4301WS-(60,100)	12/18/2002	
OU5-CSA-6-4301WS-(140,80)	12/18/2002	
OU5-CSA-6-4301WS-(120,80)	12/18/2002	
OU5-CSA-6-4301WS-(100,100)	12/18/2002	
OU5-CSA-6-4301WS-(80,120)	12/18/2002	
OU5-CSA-6-4301WS-(120,60)	12/18/2002	
OU5-CSA-6-4301WS-(100,80)	12/18/2002	
OU5-CSA-6-4301WS-(80,80)	12/18/2002	212137
OU5-CSA-6-4301WS-(80,100)	12/18/2002	
OU5-CSA-6-4301WS-(120,120)	12/18/2002	
OU5-CSA-6-4301WS-(100,120)	12/18/2002	
OU5-CSA-4301WS-(120,100)	12/18/2002	
OU5-CSA-6-4301WS-(80,20)	12/18/2002	
OU5-CSA-6-4301WS-(40,20)	12/18/2002	
OU5-CSA-6-4301WS-(60,20)	12/18/2002	
OU5-CSA-6-4301WS-(20,40)	12/18/2002	
OU5-CSA-6-4301WS-(40,0)	12/18/2002	
OU5-CSA-6-4301WS-(20,60)	12/18/2002	
OU5-CSA-6-4301WS-(80,40)	12/18/2002	
OU5-CSA-6-4301WS-(60,40)	12/18/2002	
OU5-CSA-6-4301WS-(20,20)	12/18/2002	
OU5-CSA-6-4301WS-(40,40)	12/18/2002	
OU5-CSA-6-4301WS-(20,100)	12/18/2002	
OU5-CSA-6-4301WS-(60,60)	12/18/2002	
OU5-CSA-6-4301WS-(20,80)	12/18/2002	
OU5-CSA-6-4301WS-(100,20)	12/18/2002	
OU5-CSA-12-5063LR-(200,100)	12/19/2002	212147
OU5-CSA-12-5063LR-(200,60)	12/19/2002	
OU5-CSA-12-5063LR-(220,80)	12/19/2002	
OU5-CSA-12-5063LR-(180,100)	12/19/2002	
OU5-CSA-12-5063LR-(200,80)	12/19/2002	
OU5-CSA-12-5063LR-(220,100)	12/19/2002	
OU5-CSA-12-5063LR-(180,80)	12/19/2002	
OU5-CSA-12-5063LR-(220,60)	12/19/2002	
OU5-CSA-12-5063LR-(180,60)	12/19/2002	

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SAMPLE ID	SAMPLE DATE	SDG No.
OU5-CSA-12-5063LR-(160,100)	12/19/2002	
OU5-CSA-12-5063LR-(120,120)	12/19/2002	
OU5-CSA-12-5063LR-(140,60)	12/19/2002	
OU5-CSA-12-5063LR-(160,80)	12/19/2002	
OU5-CSA-12-5063LR-(60,160)	12/19/2002	
OU5-CSA-12-5063LR-(80,140)	12/19/2002	
OU5-CSA-12-5063LR-(80,120)	12/19/2002	
OU5-CSA-12-5063LR-(40,180)	12/19/2002	
OU5-CSA-12-5063LR-(160,120)	12/19/2002	
OU5-CSA-12-5063LR-(80,60)	12/19/2002	
OU5-CSA-12-5063LR-(140,80)	12/19/2002	
OU5-CSA-12-5063LR-(60,140)	12/19/2002	
OU5-CSA-12-5063LR-(80,100)	12/19/2002	
OU5-CSA-12-5063LR-(100,100)	12/19/2002	
OU5-CSA-12-5063LR-(60,120)	12/19/2002	
OU5-CSA-12-5063LR-(60,100)	12/19/2002	
OU5-CSA-12-5063LR-(40,160)	12/19/2002	
OU5-CSA-12-5063LR-(100,80)	12/19/2002	
OU5-CSA-12-5063LR-(60,180)	12/19/2002	
OU5-CSA-12-5063LR-(80,80)	12/19/2002	
OU5-CSA-12-5063LR-(40,140)	12/19/2002	
OU5-CSA-12-5063LR-(40,120)	12/19/2002	
OU5-CSA-12-5063LR-(20,120)	12/19/2002	
OU5-CSA-12-5063LR-(20,80)	12/19/2002	
OU5-CSA-12-5063LR-(20,160)	12/19/2002	
OU5-CSA-12-5063LR-(0,160)	12/19/2002	212147
OU5-CSA-12-5063LR-(40,80)	12/19/2002	
OU5-CSA-12-5063LR-(20,140)	12/19/2002	
OU5-CSA-12-5063LR-(20,100)	12/19/2002	
OU5-CSA-12-5063LR-(0,120)	12/19/2002	
OU5-CSA-12-5063LR-(40,100)	12/19/2002	
OU5-CSA-12-5063LR-(0,140)	12/19/2002	
OU5-CSA-12-5063LR-(100,60)	12/19/2002	
OU5-CSA-12-5063LR-(80,40)	12/19/2002	
OU5-CSA-12-5063LR-(40,20)	12/19/2002	
OU5-CSA-12-5063LR-(40,40)	12/19/2002	
OU5-CSA-12-5063LR-(100,40)	12/19/2002	
OU5-CSA-12-5063LR-(100,20)	12/19/2002	
OU5-CSA-12-5063LR-(40,60)	12/19/2002	
OU5-CSA-12-5063LR-(20,60)	12/19/2002	
OU5-CSA-12-5063LR-(80,20)	12/19/2002	
OU5-CSA-12-5063LR-(60,20)	12/19/2002	
OU5-CSA-12-5063LR-(60,60)	12/19/2002	
OU5-CSA-12-5063LR-(60,80)	12/19/2002	
OU5-CSA-12-5063LR-(140,40)	12/19/2002	
OU5-CSA-12-5063LR-(120,40)	12/19/2002	
OU5-CSA-12-5063LR-(140,160)	12/19/2002	
OU5-CSA-12-5063LR-(140,140)	12/19/2002	
OU5-CSA-12-5063LR-(100,180)	12/19/2002	
OU5-CSA-12-5063LR-(80,200)	12/19/2002	
OU5-CSA-12-5063LR-(120,80)	12/19/2002	
OU5-CSA-12-5063LR-(140,120)	12/19/2002	
OU5-CSA-12-5063LR-(120,160)	12/19/2002	
OU5-CSA-12-5063LR-(120,140)	12/19/2002	
OU5-CSA-12-5063LR-(80,160)	12/19/2002	
OU5-CSA-12-5063LR-(120,180)	12/19/2002	
OU5-CSA-12-5063LR-(120,100)	12/19/2002	

OU-4 AND OU-5 SAMPLES COLLECTED FROM 4/3/01 TO 12/20/02 (REPORT No. 11)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG No.
OU5-CSA-12-5063LR-(140,100)	12/19/2002	
OU5-CSA-12-5063LR-(100,200)	12/19/2002	
OU5-CSA-12-5063LR-(100,160)	12/19/2002	
OU5-CSA-12-5063LR-(160,40)	12/19/2002	
OU5-CSA-12-5063LR-(160,60)	12/19/2002	
OU5-CSA-12-5063LR-(80,180)	12/19/2002	
OU5-CSA-12-5063LR-(120,200)	12/19/2002	
OU5-CSA-12-5063LR-(100,140)	12/19/2002	
OU5-CSA-12-5063LR-(100,220)	12/19/2002	
OU5-CSA-12-5063LR-(60,40)	12/19/2002	
OU5-CSA-12-5063LR-SB1	12/19/2002	
OU5-CSA-12-5063LR-DUP01	12/19/2002	
OU5-CSA-12-5063LR-DUP02	12/19/2002	
OU5-CSA-12-5063LR-DUP03	12/19/2002	
OU5-CSA-12-5063LR-DUP04	12/19/2002	
OU5-CSA-12-5063LR-EB01	12/20/2002	212149
OU5-CSA-12-5063LR-EB02	12/20/2002	
OU5-CSA-12-5063LR-EB03	12/20/2002	
OU5-CSA-12-5063LR-EB04	12/20/2002	

ORGANIC AND INORGANIC DATA VALIDATION REPORT (NO. 11) FOR SAMPLING ASSOCIATED WITH SPRING VALLEY OU4 AND OU5

APRIL 3, 2001 THROUGH DECEMBER 20, 2002

OVERVIEW

This data validation summary report covers four hundred and seventy-five (475) solid environmental and associated field quality control samples collected from selected Spring Valley OU-4 and OU-5 sampling locations between April 3, 2001 and December 20, 2002. The samples included 438 soil samples, 25 soil field duplicates, and 12 equipment blanks. 32 of the samples were designated as matrix spike/duplicates. The samples are included in 22 Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared, analyzed and reported together (i.e., the analytical batch) with common laboratory QC samples. A list of the samples covered in this report, organized by SDGs, was shown in the table.

The samples were analyzed primarily for arsenic with subsequent analysis for other parameters, including: 1,4-oxathiane, 1,4-dithiane, thiodiglycol, lewisite (CVAA/CVAO), sulfur mustard, and total cyanide. All of the field quality control samples were analyzed for arsenic only. Solid samples for arsenic analysis were prepared using method SW846 3050B. Aqueous equipment blanks for arsenic analysis were prepared using method SW846 3010B. Arsenic analyses were performed using method SW846 6010B (Inductively Coupled Plasma – Trace). Samples for oxathiane and dithiane analysis were prepared and analyzed using US Army method LL03. Samples for thiodiglycol analysis were prepared and analyzed using US Army method LW18. Samples for lewisite (CVAA/CVAO) were prepared and analyzed using GEOMET SOP 38. Samples for sulfur mustard analysis were prepared and analyzed using GEOMET SOP 44. Samples for total cyanide analysis were prepared and analyzed using method SW846 9014.

All work was performed in accordance with the applicable Work Management Plans (WMPs) prepared by Parsons. The WMPs included a Quality Assurance Project Plan (QAPP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPP and the WMPs, performed all analyses.

Summary

This section of this report discusses deviations from the QAPP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

All samples were successfully collected, prepared and analyzed following the procedures described in the WMPs and the QAPP. All samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPP.

No reported laboratory results have been qualified as unusable following the validation of the data submitted by the laboratories. All reported results should be considered usable as reported and qualified in this report. A summary of all detections is presented in Table 1 of Appendix C. Minor QA/QC problems leading to qualifying of data as estimated are described below (Minor Problems section). Only those samples and analyses affected by QA/QC problems are discussed in this report. The problems are grouped by parameter or fraction.

Major Problems

No major problems were found during validation of the sample data. No reported laboratory results have been qualified as unusable. All reported results should be considered usable as qualified in this report.

Minor Problems

Metals (Arsenic)

- Some reported arsenic results have been qualified as estimated and flagged 'J'. This flag indicates the analyte was positively identified but the associated value is greater than the instrument detection limit (IDL) but less than the Practical Quantitation Limit (PQL). Some samples in the following SDGs were affected 104015, 104029, 204130, 208184, 208198, 208206 and 209023. The laboratory data forms for the affected samples are presented in Appendix B as Attachment 1.

- Accuracy (matrix spike percent recovery) outliers were reported for arsenic. The reported results for arsenic in the affected samples have been qualified as estimated and flagged 'K'. The 'K' qualifier indicates a high bias meaning the actual result may be lower than the reported result. The reported data is usable for most purposes, including risk assessment. Some samples in SDG 211043 were affected. Supporting laboratory documentation showing the matrix spike recovery of 130.6% for sample OU5-CSA-6-4221 (43)-(20,60), as well as the Form I's for the affected samples is presented in Appendix B as Attachment 2.

Notes

Field quality control samples collected in support of the sampling efforts included equipment blanks, matrix spike samples and field duplicates. A total of twelve equipment blanks were collected in support of the samples. The equipment blanks were free of contamination. Laboratory data sheets (Form I's) for the equipment blanks are presented in Appendix D as Attachment 4.

A total of 25 soil field duplicates were collected and analyzed. Generally, the field duplicates were analyzed for arsenic only. There is excellent agreement (precision as measured as relative percent difference) between the results for the samples and duplicates. The calculated RPDs ranged from 2 to 43% compared to the precision objective of less than 50%. A summary of the tabulated results for the field duplicates is presented in Table 2. Laboratory data sheets for the laboratory duplicates are presented in Appendix D as Attachment 3.

TABLE 2

SUMMARY OF RESULTS FOR SOIL FIELD DUPLICATES FOR SPRING VALLEY OU-4 AND OU-5 SAMPLES COLLECTED BETWEEN APRIL 3, 2001 AND DECEMBER 20, 2002

SDG No.	SAMPLE ID	FIELD DUPLICATE SAMPLE ID	ARSENIC SAMPLE RESULT(mg/kg)	MATCHING FLD DUP SAMPLE RESULT	RPD(%)
204130	OU4-4810GR (120,100)	OU4-4810GR-DUP01	4.20	3.30	24
204130	OU4-4810GR (100,80)	OU4-4810GR-DUP02	3.40	3.50	3
204130	OU4-4810GR (40,60)	OU4-4810GR-DUP03	5.60	6.30	12
204130	OU4-481-GR (20,60)	OU4-4810GR-(20,60) DUP04	4.50	2.90	43
208198	OU5-CTA-L1-SBB3	OU5-CTA-1A-L1-SBB-DUP110	0.73	0.55	28
208198	OU5-CSA-3-L4-SBC2	OU5-CSA-3-L4-SBC-DUP111	2.20	1.90	15
208206	OU5-CSA-7-L58-SB2	OU5-CSA-7-L58-SB-DUP-112	2.70	2.80	4
208206	OU5-CTA-1A-5122(52)-SB3	CTA-1A-5122(52)-SB-DUP113	0.92	0.97	5
208198	OU5-CSA-3-L4-1	OU5-CSA-3-L4-DUP115	4.00	3.90	3
208206	OU5-CSA-7-L58-1	CSA-7-L58-DUP116	4.30	3.90	10
208206	OU5-CTA-1A-5122(52)-2	CTA-1A-5122(52)-DUP117	2.50	2.70	8
209023	OU4-3318(45)-(40,0)	OU4-3318(45)-DUP01	10.60	10.20	4
209024	OU5-CTA-1A-4849RS-(60,60)	OU5-CTA-1A-4849RS-DUP01	8.40	11.60	32
209024	OU5-CTA-1A-4849RS-(80,100)	OU5-CTA-1A-4849RS-DUP02	57.10	65.60	14
212137	OU5-CSA-6-4301WS (40,40)	OU5-CSA-6-4301WS-DUP01	12.30	13.80	12
211043	OU5-CSA-6-4221(43)-(20,60)	OU5-CSA-6-4221(43)-DUP01	19.60	18.10	8
212137	OU5-CSA-6-4301WS (80,40)	OU5-CSA-6-4301WS-DUP02	5.40	5.20	4
212147	OU5-CSA-12-5063LR-(40,80)	OU5-CSA-12-5063LR-DUP01	6.30	6.20	2
212147	OU5-CSA-12-5063LR-(20,140)	OU5-CSA-12-5063LR-DUP02	8.70	10.70	21
212147	OU5-CSA-12-5063LR-(140,40)	OU5-CSA-12-5063LR-DUP03	7.90	8.70	10
212147	OU5-CSA-12-5063LR-(120,140)	OU5-CSA-12-5063LR-DUP04	10.60	10.90	3
104015	OU5-5059-4A	OU5-5059-DUP-02	3.10	2.40	25
104015	OU5-5059-SB-9	OU5-5059-SB-DUP-02	3.00	2.20	31
104017	OU5-5056-2A	OU5-5056-DUP-01	4.10	4.00	3
104029	OU5-5036-4A	OU5-5036-DUP-01	2.70	2.50	8

NOTES: RPD is relative percent difference as a measure of precision. The project precision objective is less than 50%.

A total of 32 matrix spikes/laboratory duplicates were collected and analyzed for arsenic. Only one of the matrix spikes, OU5-CSA-6-4221 (43)-(20,60), reported a percent recovery outlier. The reported recovery was 130.6% above the upper control limit or 12%. Reported detections of arsenic in the associated samples (SDG 211043) have been qualified as estimated, biased high, and flagged 'K'.

Generally, the laboratory blanks associated with the samples were free of contamination. A few laboratory blanks associated with some of the samples contained arsenic at a negative level (e.g., -0.55 mg/Kg). No sample results have been qualified because the level of arsenic in the affected samples was greater than 10 times the absolute blank level and the absolute level is less than half the PQL (2 mg/kg). The supporting laboratory data sheets for the laboratory blanks are presented in Appendix D as Attachment 1.

APPENDIX A

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven duplicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven duplicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

APPENDIX B

LABORATORY DATA SHEETS WITH DATA VALIDATION QUALIFIERS (DETECTIONS ONLY)

ATTACHMENT 1: LAB RESULTS BETWEEN IDL AND PQL (ESTIMATED RESULTS)

ATTACHMENT 2: LAB RESULTS QUALIFIED 'K' DUE TO MATRIX SPIKE OUTLIERS

APPENDIX B - ATTACHMENT 1

LABORATORY DATA SHEETS FOR ESTIMATED RESULTS

Summary of Analytical Results

Client ID OU-5-5059-3A
GPL ID: 104015-007-01-1/1
Matrix: Soil
Date Collected: 04/03/01
Date Received: 04/03/01

Prep Method: SW3050B
Prep Date: 04/06/01
Prep Time: 11:59

Analytical Method: SW6010B_SL
Date Analyzed: 04/30/01
Time Analyzed 07:00

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	2.28	2.34	mg/kg	~~B~~ J	1

PMB 9/12/03

ORIGINAL

Summary of Analytical Results

Client ID OU-5-5059-SB-3
GPL ID: 104015-011-01-1/1
Matrix: Soil
Date Collected: 04/03/01
Date Received: 04/03/01

Prep Method: SW3050B
Prep Date: 04/06/01
Prep Time: 11:59

Analytical Method: SW6010B_SL
Date Analyzed: 04/30/01
Time Analyzed 07:28

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	1.30	2.39	mg/kg	~~B~~ J	1

DMB
2/12/03

Summary of Analytical Results

Client ID OU-5-5059-SB-5
GPL ID: 104015-013-01-1/1
Matrix: Soil
Date Collected: 04/03/01
Date Received: 04/03/01

Prep Method: SW3050B
Prep Date: 04/06/01
Prep Time: 11:59

Analytical Method: SW6010B_SL
Date Analyzed: 04/30/01
Time Analyzed 07:41

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	1.84	2.38	mg/kg	~~B~~ ~~J~~	1

DMB
2/12/03

Summary of Analytical Results

Client ID OU-5-5059-SB-DUP-02
GPL ID: 104015-018-01-1/1
Matrix: Soil
Date Collected: 04/03/01
Date Received: 04/03/01

Prep Method: SW3050B
Prep Date: 04/06/01
Prep Time: 11:59

Analytical Method: SW6010B_SL
Date Analyzed: 04/30/01
Time Analyzed 08:29

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	2.18	2.5	mg/kg	~~B~~ J	1

DYB
2/12/03

Summary of Analytical Results

Client ID OU-5-5036-SB-1
GPL ID: 104029-009-01-1/1
Matrix: Soil
Date Collected: 04/04/01
Date Received: 04/04/01

Prep Method: SW3050B
Prep Date: 04/09/01
Prep Time: 06:11

Analytical Method: SW6010B_SL
Date Analyzed: 05/04/01
Time Analyzed 09:57

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	1.20	2.15	mg/kg	~~B~~ J	1

DMB
2/12/03

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID OU-5-5036-SB-3
GPL ID: 104029-011-01-1/1
Matrix: Soil
Date Collected: 04/04/01
Date Received: 04/04/01

Prep Method: SW3050B
Prep Date: 04/09/01
Prep Time: 06:11

Analytical Method: SW6010B_SL
Date Analyzed: 05/04/01
Time Analyzed 10:11

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	1.17	2.07	mg/kg	~~B~~ J	1

DMB
2/12/03

Summary of Analytical Results

Client ID OU-5-5036-SB-4
GPL ID: 104029-012-01-1/1
Matrix: Soil
Date Collected: 04/04/01
Date Received: 04/04/01

Prep Method: SW3050B
Prep Date: 04/09/01
Prep Time: 06:11

Analytical Method: SW6010B_SL
Date Analyzed: 05/04/01
Time Analyzed 10:17

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	1.04	2.22	mg/kg	~~B~~ J	1

DMB
2/12/03

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU4-4810GR-(160,80)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 204130

Matrix (soil/water): SOIL Lab Sample ID: 204130-033-033-1/

Level (low/med): LOW Date Received: 23-APR-02

% Solids: 74.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.8	~~B~~	J	P

DLB
2/11/03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CTA-1A-L1-SBA4

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208184

Matrix (soil/water): SOIL Lab Sample ID: 208184-004-004-1/

Level (low/med): LOW Date Received: 27-AUG-02

% Solids: 88.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.1	B	J	P

DMB 2/11/03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CTA-L1-SBB1

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Matrix (soil/water): SOIL Lab Sample ID: 208198-001-001-1/

Level (low/med): LOW Date Received: 28-AUG-02

% Solids: 97.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.0	B	J	P

DYB
2/11/03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CTA-L1-SBB3

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Matrix (soil/water): SOIL Lab Sample ID: 208198-003-003-1/

Level (low/med): LOW Date Received: 28-AUG-02

% Solids: 96.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.73		J	P

DYB
9/11/03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
0U5-CSA-3-L4-SBC1

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Matrix (soil/water): SOIL Lab Sample ID: 208198-017-017-1/

Level (low/med): LOW Date Received: 28-AUG-02

% Solids: 98.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.47	P	J	P

DMB
2/11/03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CTA-1A-L1-SBB-DUP110

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Matrix (soil/water): SOIL Lab Sample ID: 208198-031-031-1/

Level (low/med): LOW Date Received: 28-AUG-02

% Solids: 94.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.55	B	J	P

DMB
2/11/03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CTA-1A-5122(52)-SB-DUP113

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Lab Sample ID: 208206-055-055-1/

Level (low/med): LOW Date Received: 29-AUG-02

% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.97	B	J	P

DMB
2-11-03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CTA-1C-5009US-SB3

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Lab Sample ID: 208206-044-044-1/

Level (low/med): LOW Date Received: 29-AUG-02

% Solids: 85.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.68	~~B~~	J	P

DYB
2-11-03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CTA-1C-5009US-SB4

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Lab Sample ID: 208206-045-045-1/

Level (low/med): LOW Date Received: 29-AUG-02

% Solids: 84.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.90	B	J	P

DYB
2-11-03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CTA-1C-5009US-8B5

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Lab Sample ID: 208206-046-046-1/

Level (low/med): LOW Date Received: 29-AUG-02

% Solids: 86.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	1.1	B	J	P

DMB
2-11-03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OU5-CTA-1C-5009US-SB6

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Lab Sample ID: 208206-047-047-1/

Level (low/med): LOW Date Received: 29-AUG-02

% Solids: 86.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.73	B	J	P

DMB
2-11-03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CTA-1A-5122(52)-SB6

Contract:
Lab Code: Case No.: SAS No.: SDG NO.: 208206
Matrix (soil/water): SOIL Lab Sample ID: 208206-030-030-1/
Level (low/med): LOW Date Received: 29-AUG-02
% Solids: 93.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.90	~~B~~	J	P

DMB 2-11-03

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts:
Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CTA-1A-5122(52)-SB3

Contract:
Lab Code: Case No.: SAS No.: SDG NO.: 208206
Matrix (soil/water): SOIL Lab Sample ID: 208206-027-027-1/
Level (low/med): LOW Date Received: 29-AUG-02
% Solids: 92.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.92	~~B~~	J	P

DAB
2-11-03

Color Before: BROWN Clarity Before: Texture: MEDIUM
Color After: YELLOW Clarity After: CLEAR Artifacts:
Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CTA-1A-5122(52)-SB4

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Lab Sample ID: 208206-028-028-1/

Level (low/med): LOW Date Received: 29-AUG-02

% Solids: 92.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	0.93	B	J	P

DAB
2-11-03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU4-3318(45)-(60,100)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209023

Matrix (soil/water): SOIL Lab Sample ID: 209023-018-018-1/

Level (low/med): LOW Date Received: 05-SEP-02

% Solids: 39.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	2.2	~~B~~	J	P

DYB
2-11-03

Color Before: BROWN Clarity Before: Texture: MEDIUM

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

APPENDIX B - ATTACHMENT 2

LABORATORY DATA SHEETS FOR RESULTS QUALIFIED DUE TO MS OUTLIER

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(20,20)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-001-001-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 38.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.8		~~N~~ K	P

DMB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(100,140)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-002-002-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 52.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	8.4		~~N~~ K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-6-4221(43)-(40,100)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-003-003-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 69.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	5.9		~~N~~ K	P

DJB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(40,140)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-004-004-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 71.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.5		~~N~~ K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(80,120)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-005-005-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 82.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	9.6		~~N~~ R	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(40,120)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-006-006-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 84.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	31.5		~~N~~ K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(60,160)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-007-007-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 66.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	6.5		~~N~~ K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-6-4221(43)-(100,120)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-008-008-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 78.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	9.8		N K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-6-4221(43)-(60,140)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-009-009-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 67.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	15.3		N K	P

DMB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(80,140)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-010-010-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 77.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.7		~~N~~ K	P

DMB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(100,100)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-011-011-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 76.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	17.8		~~N~~ K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-6-4221(43)-(60,100)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-012-012-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 76.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	8.7		~~N~~ K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(80,60)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-013-013-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 76.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	9.2		N K	P

DAB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.: OU5-CSA-6-4221(43)-(80,80)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-014-014-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 81.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	8.2		N K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-6-4221(43)-(80,40)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-015-015-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 76.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	10.0		~~N~~ K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(40,160)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-016-016-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 82.3

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.3		~~N~~ K	P

DYB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(20,80)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-017-017-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 71.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.0		N K	P

DMB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(20,100)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-018-018-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 74.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	16.6		~~N~~ K	P

DMB
12-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-6-4221(43)-(40,80)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-019-019-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 76.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	7.1		~~N~~ K	P

DMB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-(40,60)

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Lab Sample ID: 211043-020-020-1/

Level (low/med): LOW Date Received: 08-NOV-02

% Solids: 78.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	10.7		N K	P

DNB
2-11-03

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

APPENDIX C

SUMMARY OF LABORATORY DETECTIONS WITH DATA VALIDATION QUALIFIERS

TABLE 1 (APPENDIX C)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-4 AND OU-5 SAMPLES COLLECTED BETWEEN APRIL 3, 2001 AND DECEMBER 20, 2002
(All detections were for arsenic)

LABSAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC RESULT (mg//kg)	EPA FLAGS	DV QUAL	DILFAC
104015-001	OU-5-5059-4	4/3/2001	5.5			1
104015-002	OU-5-5059-3	4/3/2001	8			1
104015-003	OU-5-5059-2	4/3/2001	6.5			1
104015-004	OU-5-5059-1	4/3/2001	4.4			1
104015-005	OU-5-5059-1A	4/3/2001	5			1
104015-006	OU-5-5059-2A	4/3/2001	2.8			1
104015-007	OU-5-5059-3A	4/3/2001	2.3	B	J	1
104015-008	OU-5-5059-4A	4/3/2001	3.1			1
104015-009	OU-5-5059-SB-1	4/3/2001	2.4			1
104015-011	OU-5-5059-SB-3	4/3/2001	1.3	B	J	1
104015-012	OU-5-5059-SB-4	4/3/2001	4.5			1
104015-013	OU-5-5059-SB-5	4/3/2001	1.8	B	J	1
104015-014	OU-5-5059-SB-6	4/3/2001	3.2			1
104015-015	OU-5-5059-SB-7	4/3/2001	5			1
104015-016	OU-5-5059-SB-8	4/3/2001	2.5			1
104015-017	OU-5-5059-SB-9	4/3/2001	3			1
104015-018	OU-5-5059-SB-DUP-02	4/3/2001	2.2	B	J	1
104015-019	OU-5-5059-DUP-02	4/3/2001	2.4			1
104017-001	OU-5-5065-1	4/3/2001	3.4			1
104017-002	OU-5-5065-2	4/3/2001	3.6			1
104017-003	OU-5-5065-3	4/3/2001	5.8			1
104017-004	OU-5-5065-4	4/3/2001	8.9			1
104017-005	OU-5-5065-1A	4/3/2001	2.8			1
104017-006	OU-5-5065-2A	4/3/2001	4.1			1
104017-007	OU-5-5065-3A	4/3/2001	7.7			1
104017-008	OU-5-5065-4A	4/3/2001	6.8			1
104017-009	OU-5-5065-SB-1	4/3/2001	8.5			1
104017-010	OU-5-5065-SB-2	4/3/2001	5.2			1
104017-011	OU-5-5065-SB-3	4/3/2001	4.3			1
104017-012	OU-5-5065-SB-4	4/3/2001	5.2			1
104017-013	OU-5-5065-SB-5	4/3/2001	4			1
104017-014	OU-5-5065-SB-6	4/3/2001	2.4			1
104017-015	OU-5-5065-SB-7	4/3/2001	3.1			1
104017-016	OU-5-5065-DUP-01	4/3/2001	4			1
104029-001	OU-5-5036-1	4/4/2001	3.6			1
104029-002	OU-5-5036-2	4/4/2001	2.9			1
104029-003	OU-5-5036-3	4/4/2001	3.7			1
104029-004	OU-5-5036-4	4/4/2001	3.7			1
104029-005	OU-5-5036-1A	4/4/2001	3.6			1
104029-006	OU-5-5036-2A	4/4/2001	2.2			1
104029-007	OU-5-5036-3A	4/4/2001	3			1
104029-008	OU-5-5036-4A	4/4/2001	2.7			1
104029-009	OU-5-5036-SB-1	4/4/2001	1.2	B	J	1
104029-011	OU-5-5036-SB-3	4/4/2001	1.2	B	J	1
104029-012	OU-5-5036-SB-4	4/4/2001	1	B	J	1
104029-015	OU-5-5036-DUP-01	4/4/2001	2.5			1
204130-001-001-1/1	OU4-4810GR-(120,80)	4/23/2002	9.6			1
204130-002-002-1/1	OU4-4810GR-(120,100)	4/23/2002	4.2			1
204130-003-003-1/1	OU4-4810GR-(100,100)	4/23/2002	6.1			1
204130-004-004-1/1	OU4-4810GR-(80,80)	4/23/2002	3.2			1
204130-005-005-1/1	OU4-4810GR-(100,80)	4/23/2002	3.4			1
204130-006-006-1/1	OU4-4810GR-(40,80)	4/23/2002	4.3			1
204130-007-007-1/1	OU4-4810GR-(60,80)	4/23/2002	4.3			1
204130-008-008-1/1	OU4-4810GR-(80,100)	4/23/2002	5.6			1
204130-009-009-1/1	OU4-4810GR-(40,60)	4/23/2002	5.6			1
204130-010-010-1/1	OU4-4810GR-(40,20)	4/23/2002	4.2			1
204130-011-011-1/1	OU4-4810GR-(160,160)	4/23/2002	3.7			1
204130-012-012-1/1	OU4-4810GR-(140,140)	4/23/2002	5			1

TABLE 1 (APPENDIX C)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-4 AND OU-5 SAMPLES COLLECTED BETWEEN APRIL 3, 2001 AND DECEMBER 20, 2002
(All detections were for arsenic)

LABSAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC RESULT (mg//kg)	EPA FLAGS	DV QUAL	DILFAC
204130-013-013-1/1	OU4-4810GR-(160,120)	4/23/2002	4			1
204130-014-014-1/1	OU4-4810GR-(100,120)	4/23/2002	4.4			1
204130-015-015-1/1	OU4-4810GR-(60,20)	4/23/2002	3.3			1
204130-016-016-1/1	OU4-4810GR-(40,40)	4/23/2002	3.5			1
204130-017-017-1/1	OU4-4810GR-(60,40)	4/23/2002	12.5			1
204130-018-018-1/1	OU4-4810GR-(80,20)	4/23/2002	11.7			1
204130-019-019-1/1	OU4-4810GR-(120,140)	4/23/2002	5.1			1
204130-020-020-1/1	OU4-4810GR-(160,140)	4/23/2002	2.3			1
204130-021-021-1/1	OU4-4810GR-(120,160)	4/23/2002	3.7			1
204130-022-022-1/1	OU4-4810GR-(20,20)	4/23/2002	3.5			1
204130-023-023-1/1	OU4-4810GR-(60,60)	4/23/2002	4.8			1
204130-024-024-1/1	OU4-4810GR-(20,60)	4/23/2002	4.5			1
204130-025-025-1/1	OU4-4810GR-(140,40)	4/23/2002	17.3			1
204130-026-026-1/1	OU4-4810GR-(160,20)	4/23/2002	3.4			1
204130-027-027-1/1	OU4-4810GR-(160,40)	4/23/2002	2.6			1
204130-028-028-1/1	OU4-4810GR-(60,140)	4/23/2002	4			1
204130-029-029-1/1	OU4-4810GR-(160,100)	4/23/2002	4.8			1
204130-030-030-1/1	OU4-4810GR-(100,160)	4/23/2002	8.4			1
204130-031-031-1/1	OU4-4810GR-(140,120)	4/23/2002	4.4			1
204130-032-032-1/1	OU4-4810GR-(120,120)	4/23/2002	3.5			1
204130-033-033-1/1	OU4-4810GR-(160,80)	4/23/2002	1.8	B	J	1
204130-034-034-1/1	OU4-4810GR-(160,60)	4/23/2002	3.8			1
204130-035-035-1/1	OU4-4810GR-(140,100)	4/23/2002	5			1
204130-036-036-1/1	OU4-4810GR-(140,60)	4/23/2002	2			1
204130-037-037-1/1	OU4-4810GR-(100,40)	4/23/2002	50.7			1
204130-038-038-1/1	OU4-4810GR-(140,20)	4/23/2002	13			1
204130-039-039-1/1	OU4-4810GR-(100,20)	4/23/2002	5.2			1
204130-040-040-1/1	OU4-4810GR-(120,20)	4/23/2002	42.9			1
204130-041-041-1/1	OU4-4810GR-(120,40)	4/23/2002	12.2			1
204130-042-042-1/1	OU4-4810GR-(100,60)	4/23/2002	23.3			1
204130-043-043-1/1	OU4-4810GR-(80,60)	4/23/2002	5.1			1
204130-044-044-1/1	OU4-4810GR-(80,120)	4/23/2002	5.1			1
204130-045-045-1/1	OU4-4810GR-(80,40)	4/23/2002	5.6			1
204130-046-046-1/1	OU4-4810GR-(100,140)	4/23/2002	8.7			1
204130-047-047-1/1	OU4-4810GR-(60,120)	4/23/2002	5.3			1
204130-048-048-1/1	OU4-4810GR-(40,100)	4/23/2002	4.6			1
204130-049-049-1/1	OU4-4810GR-(80,140)	4/23/2002	4.5			1
204130-050-050-1/1	OU4-4810GR-(60,100)	4/23/2002	45.9			1
204130-051-051-1/1	OU4-4810GR-(40,120)	4/23/2002	5.6			1
204130-052-052-1/1	OU4-4810GR-(40,140)	4/23/2002	5.8			1
204130-053-053-1/1	OU4-4810GR-(120,60)	4/23/2002	8.1			1
204130-054-054-1/1	OU4-4810GR-(20,60) DUP	4/23/2002	2.9			1
204130-055-055-1/1	OU4-4810GR-(140,160)	4/23/2002	5.2			1
204130-056-056-1/1	OU4-4810GR-DUP01	4/23/2002	3.3			1
204130-057-057-1/1	OU4-4810GR-DUP02	4/23/2002	3.5			1
204130-058-058-1/1	OU4-4810GR-DUP03	4/23/2002	6.3			1
208047-001-001-1/1	OU5-CSA-11-4949QS-1	8/7/2002	11.8			1
208047-002-002-1/1	OU5-CSA-11-4949QS-2	8/7/2002	6.1			1
208047-003-003-1/1	OU5-CSA-5-L3-1	8/7/2002	5.3			1
208047-004-004-1/1	OU5-CSA-5-L3-2	8/7/2002	5.1			1
208047-005-005-1/1	OU5-CSA-5-4643MA-1	8/7/2002	3.3			1
208047-006-006-1/1	OU5-CSA-5-4643MA-2	8/7/2002	4.5			1
208184-001-001-1/1	OU5-CTA-1A-L1-SBA1	8/26/2002	1.6			1
208184-002-002-1/1	OU5-CTA-1A-L1-SBA2	8/26/2002	2.4			1
208184-003-003-1/1	OU5-CTA-1A-L1-SBA3	8/26/2002	1.4			1
208184-004-004-1/1	OU5-CTA-1A-L1-SBA4	8/26/2002	1.1	B	J	1
208184-005-005-1/1	OU5-CTA-1A-L1-SBA5	8/26/2002	2.2			1
208184-006-006-1/1	OU5-CTA-1A-L1-SBA6	8/26/2002	2.7			1

TABLE 1 (APPENDIX C)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-4 AND OU-5 SAMPLES COLLECTED BETWEEN APRIL 3, 2001 AND DECEMBER 20, 2002
(All detections were for arsenic)

LABSAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC RESULT (mg//kg)	EPA FLAGS	DV QUAL	DILFAC
208184-007-007-1/1	OU5-CTA-1A-L1-1	8/26/2002	2.6			1
208184-008-008-1/1	OU5-CTA-1A-L1-2	8/26/2002	2.6			1
208184-009-009-1/1	OU5-CTA-1A-L1-3	8/26/2002	3.3			1
208184-010-010-1/1	OU5-CTA-1A-L1-4	8/26/2002	3.4			1
208184-011-011-1/1	OU5-CTA-1A-L2-SB1	8/26/2002	3.1			1
208184-012-012-1/1	OU5-CTA-1A-L2-SB2	8/26/2002	1.8			1
208184-013-013-1/1	OU5-CTA-1A-L2-SB3	8/26/2002	3.9			1
208184-014-014-1/1	OU5-CTA-1A-L2-SB4	8/26/2002	3.3			1
208184-015-015-1/1	OU5-CTA-1A-L2-1	8/26/2002	3			1
208184-016-016-1/1	OU5-CTA-1A-L2-2	8/26/2002	2.7			1
208184-017-017-1/1	OU5-CTA-1A-L2-3	8/26/2002	2.5			1
208184-018-018-1/1	OU5-CTA-1A-L2-4	8/26/2002	2			1
208184-019-019-1/1	OU5-CSA-3-L6-1	8/26/2002	3.8			1
208184-020-020-1/1	OU5-CSA-3-L6-2	8/26/2002	5.5			1
208184-021-021-1/1	OU5-CSA-3-L8-1	8/26/2002	4.4			1
208184-022-022-1/1	OU5-CSA-3-L8-2	8/26/2002	4.3			1
208184-023-023-1/1	OU5-CSA-3-L2-1	8/26/2002	2.5			1
208184-024-024-1/1	OU5-CSA-3-L2-2	8/26/2002	2			1
208184-025-025-1/1	OU5-CSA-3-L3-1	8/26/2002	3.3			1
208184-026-026-1/1	OU5-CSA-3-L3-2	8/26/2002	3.8			1
208184-027-027-1/1	OU5-CSA-6-4329VNS-1	8/26/2002	6.3			1
208184-028-028-1/1	OU5-CSA-6-4329VNS-2	8/26/2002	8.9			1
208198-001-001-1/1	OU5-CTA-L1-SBB1	8/28/2002	1	B	J	1
208198-002-002-1/1	OU5-CTA-L1-SBB2	8/28/2002	3.1			1
208198-003-003-1/1	OU5-CTA-L1-SBB3	8/28/2002	0.73	B	J	1
208198-004-004-1/1	OU5-CSA-3-L4-SBA1	8/28/2002	2.9			1
208198-005-005-1/1	OU5-CSA-3-L4-SBA2	8/28/2002	4.7			1
208198-006-006-1/1	OU5-CSA-3-L4-SBA3	8/28/2002	2.5			1
208198-007-007-1/1	OU5-CSA-3-L4-SBA4	8/28/2002	2.4			1
208198-008-008-1/1	OU5-CSA-3-L4-SBA5	8/28/2002	2.2			1
208198-009-009-1/1	OU5-CSA-3-L4-1	8/28/2002	4			1
208198-010-010-1/1	OU5-CSA-3-L4-2	8/28/2002	4			1
208198-011-011-1/1	OU5-CSA-3-L4-SBB1	8/28/2002	1.8			1
208198-012-012-1/1	OU5-CSA-3-L4-SBB2	8/28/2002	2.6			1
208198-013-013-1/1	OU5-CSA-3-L4-SBB3	8/28/2002	2.1			1
208198-014-014-1/1	OU5-CSA-3-L4-SBB4	8/28/2002	1.7			1
208198-015-015-1/1	OU5-CSA-3-L4-SBB5	8/28/2002	3.3			1
208198-016-016-1/1	OU5-CSA-3-L4-SBB6	8/28/2002	1.9			1
208198-017-017-1/1	OU5-CSA-3-L4-SBC1	8/28/2002	0.47	B	J	1
208198-018-018-1/1	OU5-CSA-3-L4-SBC2	8/28/2002	2.2			1
208198-019-019-1/1	OU5-CSA-3-L4-SBC3	8/28/2002	2.6			1
208198-020-020-1/1	OU5-CSA-3-L4-SBC4	8/28/2002	3.5			1
208198-021-021-1/1	OU5-CSA-3-L4-SBC5	8/28/2002	4			1
208198-022-022-1/1	OU5-CSA-3-L4-SBC6	8/28/2002	4.5			1
208198-023-023-1/1	OU5-CSA-3-L4-SBC7	8/28/2002	2			1
208198-024-024-1/1	OU5-CSA-3-L4-SBC8	8/28/2002	2			1
208198-025-025-1/1	OU5-CSA-3-L6-SBB1	8/28/2002	2.5			1
208198-026-026-1/1	OU5-CSA-3-L6-SBB2	8/28/2002	3.9			1
208198-027-027-1/1	OU5-CSA-3-L6-SBB3	8/28/2002	3.3			1
208198-028-028-1/1	OU5-CSA-3-L6-SBB4	8/28/2002	2.3			1
208198-029-029-1/1	OU5-CSA-3-L6-SBB5	8/28/2002	2.9			1
208198-030-030-1/1	OU5-CSA-3-L6-SBB6	8/28/2002	10.3			1
208198-031-031-1/1	OU5-CTA-1A-L1-SBB-DUP110	8/28/2002	0.55	B	J	1
208198-032-032-1/1	OU5-CSA-3-L4-SBC-DUP111	8/28/2002	1.9			1
208198-033-033-1/1	OU5-CSA-3-L4-DUP115	8/28/2002	3.9			1
208206-019-019-1/1	OU5-CSA-2-5122YS-SB1	8/29/2002	2.4			1
208206-020-020-1/1	OU5-CSA-2-5122YS-SB2	8/29/2002	2.7			1
208206-021-021-1/1	OU5-CSA-2-5122YS-SB3	8/29/2002	1.3			1

TABLE 1 (APPENDIX C)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-4 AND OU-5 SAMPLES COLLECTED BETWEEN APRIL 3, 2001 AND DECEMBER 20, 2002
(All detections were for arsenic)

LABSAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC RESULT (mg//kg)	EPA FLAGS	DV QUAL	DILFAC
208206-022-022-1/1	OU5-CSA-2-5122YS-SB4	8/29/2002	1.7			1
208206-023-023-1/1	OU5-CSA-2-5122YS-1	8/29/2002	4.9			1
208206-024-024-1/1	OU5-CSA-2-5122YS-2	8/29/2002	6.2			1
208206-025-025-1/1	OU5-CTA-1A-5122(52)-SB1	8/29/2002	2			1
208206-026-026-1/1	OU5-CTA-1A-5122(52)-SB2	8/29/2002	1.6			1
208206-027-027-1/1	OU5-CTA-1A-5122(52)-SB3	8/29/2002	0.92	B	J	1
208206-028-028-1/1	OU5-CTA-1A-5122(52)-SB4	8/29/2002	0.93	B	J	1
208206-029-029-1/1	OU5-CTA-1A-5122(52)-SB5	8/29/2002	1.8			1
208206-030-030-1/1	OU5-CTA-1A-5122(52)-SB6	8/29/2002	0.9	B	J	1
208206-031-031-1/1	OU5-CTA-1A-5122(52)-1	8/29/2002	2.7			1
208206-032-032-1/1	OU5-CTA-1A-5122(52)-2	8/29/2002	2.5			1
208206-033-033-1/1	OU5-CTA-1A-5122(52)-3	8/29/2002	2.9			1
208206-034-034-1/1	OU5-CTA-1A-5122(52)-4	8/29/2002	3.2			1
208206-035-035-1/1	OU5-CTA-1A-L3-SB1	8/29/2002	5.2			1
208206-036-036-1/1	OU5-CTA-1A-L3-SB2	8/29/2002	3.3			1
208206-037-037-1/1	OU5-CTA-1A-L3-SB3	8/29/2002	2.4			1
208206-038-038-1/1	OU5-CTA-1A-L3-1	8/29/2002	7.4			1
208206-039-039-1/1	OU5-CTA-1A-L3-2	8/29/2002	18.2			1
208206-040-040-1/1	OU5-CTA-1A-L3-3	8/29/2002	13.9			1
208206-041-041-1/1	OU5-CTA-1A-L3-4	8/29/2002	5.2			1
208206-042-042-1/1	OU5-CTA-1C-5009US-SB1	8/29/2002	6			1
208206-043-043-1/1	OU5-CTA-1C-5009US-SB2	8/29/2002	4			1
208206-044-044-1/1	OU5-CTA-1C-5009US-SB3	8/29/2002	0.68	B	J	1
208206-045-045-1/1	OU5-CTA-1C-5009US-SB4	8/29/2002	0.9	B	J	1
208206-046-046-1/1	OU5-CTA-1C-5009US-SB5	8/29/2002	1.1	B	J	1
208206-047-047-1/1	OU5-CTA-1C-5009US-SB6	8/29/2002	0.73	B	J	1
208206-048-048-1/1	OU5-CTA-1C-5009US-1	8/29/2002	3.5			1
208206-049-049-1/1	OU5-CTA-1C-5009US-2	8/29/2002	3.8			1
208206-050-050-1/1	OU5-CTA-1C-5009US-3	8/29/2002	10.7			1
208206-051-051-1/1	OU5-CTA-1C-5009US-4	8/29/2002	5.7			1
208206-054-054-1/1	CTA-1A-5122(52)-DUP117	8/29/2002	2.7			1
208206-055-055-1/1	CTA-1A-5122(52)-SB-DUP113	8/29/2002	0.97	B	J	1
209023-001-001-1/1	OU4-3318(45)-(40,120)	9/5/2002	9.8			1
209023-002-002-1/1	OU4-3318(45)-(80,140)	9/5/2002	5.8			1
209023-003-003-1/1	OU4-3318(45)-(40,0)	9/5/2002	10.6			1
209023-004-004-1/1	OU4-3318(45)-(60,160)	9/5/2002	7.1			1
209023-005-005-1/1	OU4-3318(45)-(80,160)	9/5/2002	6.8			1
209023-006-006-1/1	OU4-3318(45)-(20,20)	9/5/2002	17.8			1
209023-007-007-1/1	OU4-3318(45)-(40,20)	9/5/2002	14.7			1
209023-008-008-1/1	OU4-3318(45)-(20,60)	9/5/2002	7.1			1
209023-009-009-1/1	OU4-3318(45)-(20,40)	9/5/2002	12.7			1
209023-010-010-1/1	OU4-3318(45)-(60,80)	9/5/2002	15.2			1
209023-011-011-1/1	OU4-3318(45)-(80,120)	9/5/2002	16.9			1
209023-012-012-1/1	OU4-3318(45)-(80,100)	9/5/2002	5			1
209023-013-013-1/1	OU4-3318(45)-(60,140)	9/5/2002	14.6			1
209023-014-014-1/1	OU4-3318(45)-(40,80)	9/5/2002	11.8			1
209023-015-015-1/1	OU4-3318(45)-(40,60)	9/5/2002	9.7			1
209023-016-016-1/1	OU4-3318(45)-(40,100)	9/5/2002	9.7			1
209023-017-017-1/1	OU4-3318(45)-(60,120)	9/5/2002	14.2			1
209023-018-018-1/1	OU4-3318(45)-(60,100)	9/5/2002	2.2	B	J	1
209023-019-019-1/1	OU4-3318(45)-(80,60)	9/5/2002	3.4			1
209023-020-020-1/1	OU4-3318(45)-(80,80)	9/5/2002	9.5			1
209023-021-021-1/1	OU4-3318(45)-(40,40)	9/5/2002	26.3			1
209023-022-022-1/1	OU4-3318(45)-(80,40)	9/5/2002	1.8			1
209023-023-023-1/1	OU4-3318(45)-(100,100)	9/5/2002	4.7			1
209023-024-024-1/1	OU4-3318(45)-(20,0)	9/5/2002	9.7			1
209023-025-025-1/1	OU4-3318(45)-(60,20)	9/5/2002	9.4			1
209023-026-026-1/1	OU4-3318(45)-(60,40)	9/5/2002	7.7			1

TABLE 1 (APPENDIX C)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-4 AND OU-5 SAMPLES COLLECTED BETWEEN APRIL 3, 2001 AND DECEMBER 20, 2002
(All detections were for arsenic)

LABSAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC RESULT (mg//kg)	EPA FLAGS	DV QUAL	DILFAC
209023-027-027-1/1	OU4-3318(45)-(60,0)	9/5/2002	6.8			1
209023-028-028-1/1	OU4-3318(45)-DUP01	9/5/2002	10.2			1
209024-001-001-1/1	OU5-CTA-1A-4849RS-(40,120)	9/5/2002	28.4			1
209024-002-002-1/1	OU5-CTA-1A-4849RS-(20,140)	9/5/2002	10.4			1
209024-003-003-1/1	OU5-CTA-1A-4849RS-(80,140)	9/5/2002	16.2			1
209024-004-004-1/1	OU5-CTA-1A-4849RS-(60,100)	9/5/2002	10.1			1
209024-005-005-1/1	OU5-CTA-1A-4849RS-(60,120)	9/5/2002	52.1			1
209024-006-006-1/1	OU5-CTA-1A-4849RS-(60,140)	9/5/2002	8.9			1
209024-007-007-1/1	OU5-CTA-1A-4849RS-(100,100)	9/5/2002	9			1
209024-008-008-1/1	OU5-CTA-1A-4849RS-(80,120)	9/5/2002	4			1
209024-009-009-1/1	OU5-CTA-1A-4849RS-(100,80)	9/5/2002	4.5			1
209024-010-010-1/1	OU5-CTA-1A-4849RS-(80,100)	9/5/2002	4.2			1
209024-011-011-1/1	OU5-CTA-1A-4849RS-(100,60)	9/5/2002	38.1			1
209024-012-012-1/1	OU5-CTA-1A-4849RS-(80,60)	9/5/2002	5.6			1
209024-013-013-1/1	OU5-CTA-1A-4849RS-(40,140)	9/5/2002	10.4			1
209024-014-014-1/1	OU5-CTA-1A-4849RS-(20,120)	9/5/2002	4.4			1
209024-015-015-1/1	OU5-CTA-1A-4849RS-(80,80)	9/5/2002	5.6			1
209024-016-016-1/1	OU5-CTA-1A-4849RS-(80,20)	9/5/2002	5.2			1
209024-017-017-1/1	OU5-CTA-1A-4849RS-(20,60)	9/5/2002	14.4			1
209024-018-018-1/1	OU5-CTA-1A-4849RS-(40,40)	9/5/2002	30.6			1
209024-019-019-1/1	OU5-CTA-1A-4849RS-(40,80)	9/5/2002	4.8			1
209024-020-020-1/1	OU5-CTA-1A-4849RS-(40,20)	9/5/2002	3.8			1
209024-021-021-1/1	OU5-CTA-1A-4849RS-(20,80)	9/5/2002	12.6			1
209024-022-022-1/1	OU5-CTA-1A-4849RS-(40,60)	9/5/2002	8.2			1
209024-023-023-1/1	OU5-CTA-1A-4849RS-(80,40)	9/5/2002	59.1			1
209024-024-024-1/1	OU5-CTA-1A-4849RS-(60,20)	9/5/2002	11.2			1
209024-025-025-1/1	OU5-CTA-1A-4849RS-(60,40)	9/5/2002	23.8			1
209024-026-026-1/1	OU5-CTA-1A-4849RS-(0,120)	9/5/2002	64.1			1
209024-027-027-1/1	OU5-CTA-1A-4849RS-(60,80)	9/5/2002	7			1
209024-028-028-1/1	OU5-CTA-1A-4849RS-(20,100)	9/5/2002	33.8			1
209024-029-029-1/1	OU5-CTA-1A-4849RS-(100,20)	9/5/2002	3.9			1
209024-030-030-1/1	OU5-CTA-1A-4849RS-(120,20)	9/5/2002	3.6			1
209024-031-031-1/1	OU5-CTA-1A-4849RS-(100,40)	9/5/2002	6.1			1
209024-032-032-1/1	OU5-CTA-1A-4849RS-(120,40)	9/5/2002	3.7			1
209024-033-033-1/1	OU5-CTA-1A-4849RS-(80,100)	9/5/2002	57.1			1
209024-034-034-1/1	OU5-CTA-1A-4849RS-(60,60)	9/5/2002	8.4			1
209024-035-035-1/1	OU5-CTA-1A-4849RS-DUP01	9/5/2002	11.6			1
209024-036-036-1/1	OU5-CTA-1A-4849RS-DUP02	9/5/2002	65.6			1
209025-001-001-1/1	OU4-3318(45)-EB01	9/5/2002	3.4	U		1
209026-001-001-1/1	OU5-CTA-1A-4849RS-EB01	9/5/2002	3.4	U		1
209026-002-002-1/1	OU5-CTA-1A-4849RS-EB02	9/5/2002	3.4	U		1
210203-001-001-1/1	OU5-CSA-4-4700TS-1	10/23/2002	4.9			1
210203-002-002-1/1	OU5-CSA-4-4700TS-2	10/23/2002	6			1
211043-001-001-1/1	OU5-CSA-6-4221(43)-(20,20)	11/7/2002	5.8		K	1
211043-002-002-1/1	OU5-CSA-6-4221(43)-(100,140)	11/7/2002	8.4		K	1
211043-003-003-1/1	OU5-CSA-6-4221(43)-(40,100)	11/7/2002	5.9		K	1
211043-004-004-1/1	OU5-CSA-6-4221(43)-(40,140)	11/7/2002	6.5		K	1
211043-005-005-1/1	OU5-CSA-6-4221(43)-(80,120)	11/7/2002	9.6		K	1
211043-006-006-1/1	OU5-CSA-6-4221(43)-(40,120)	11/7/2002	31.5		K	1
211043-007-007-1/1	OU5-CSA-6-4221(43)-(60,160)	11/7/2002	6.5		K	1
211043-008-008-1/1	OU5-CSA-6-4221(43)-(100,120)	11/7/2002	9.8		K	1
211043-009-009-1/1	OU5-CSA-6-4221(43)-(60,140)	11/7/2002	15.3		K	1
211043-010-010-1/1	OU5-CSA-6-4221(43)-(80,140)	11/7/2002	7.7		K	1
211043-011-011-1/1	OU5-CSA-6-4221(43)-(100,100)	11/7/2002	17.8		K	1
211043-012-012-1/1	OU5-CSA-6-4221(43)-(60,100)	11/7/2002	8.7		K	1
211043-013-013-1/1	OU5-CSA-6-4221(43)-(80,60)	11/7/2002	9.2		K	1
211043-014-014-1/1	OU5-CSA-6-4221(43)-(80,80)	11/7/2002	8.2		K	1
211043-015-015-1/1	OU5-CSA-6-4221(43)-(80,40)	11/7/2002	10		K	1

TABLE 1 (APPENDIX C)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-4 AND OU-5 SAMPLES COLLECTED BETWEEN APRIL 3, 2001 AND DECEMBER 20, 2002
(All detections were for arsenic)

LABSAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC RESULT (mg//kg)	EPA FLAGS	DV QUAL	DILFAC
211043-016-016-1/1	OU5-CSA-6-4221(43)-(40,160)	11/7/2002	7.3		K	1
211043-017-017-1/1	OU5-CSA-6-4221(43)-(20,80)	11/7/2002	7		K	1
211043-018-018-1/1	OU5-CSA-6-4221(43)-(20,100)	11/7/2002	16.6		K	1
211043-019-019-1/1	OU5-CSA-6-4221(43)-(40,80)	11/7/2002	7.1		K	1
211043-020-020-1/1	OU5-CSA-6-4221(43)-(40,60)	11/7/2002	10.7		K	1
211043-021-021-1/1	OU5-CSA-6-4221(43)-(20,60)	11/7/2002	19.6		K	1
211043-022-022-1/1	OU5-CSA-6-4221(43)-(20,40)	11/7/2002	6			1
211043-023-023-1/1	OU5-CSA-6-4221(43)-(0,40)	11/7/2002	10			1
211043-024-024-1/1	OU5-CSA-6-4221(43)-(0,60)	11/7/2002	6.4			1
211043-025-025-1/1	OU5-CSA-6-4221(43)-(60,40)	11/7/2002	7.8			1
211043-026-026-1/1	OU5-CSA-6-4221(43)-(60,20)	11/7/2002	6.6			1
211043-027-027-1/1	OU5-CSA-6-4221(43)-(40,20)	11/7/2002	6.7			1
211043-028-028-1/1	OU5-CSA-6-4221(43)-(40,40)	11/7/2002	10.3			1
211043-029-029-1/1	OU5-CSA-6-4221(43)-(60,60)	11/7/2002	11.9			1
211043-030-030-1/1	OU5-CSA-6-4221(43)-DUP01	11/7/2002	18.1			1
212137-001-001-1/1	OU5-CSA-6-4301WS-(80,60)	12/18/2002	11.7			1
212137-002-002-1/1	OU5-CSA-6-4301WS-(120,40)	12/18/2002	6.8			1
212137-003-003-1/1	OU5-CSA-6-4301WS-(100,60)	12/18/2002	10.7			1
212137-004-004-1/1	OU5-CSA-6-4301WS-(60,80)	12/18/2002	5.4			1
212137-005-005-1/1	OU5-CSA-6-4301WS-(40,100)	12/18/2002	4.6			1
212137-006-006-1/1	OU5-CSA-6-4301WS-(140,60)	12/18/2002	10			1
212137-007-007-1/1	OU5-CSA-6-4301WS-(40,60)	12/18/2002	4.2			1
212137-008-008-1/1	OU5-CSA-6-4301WS-DUP01	12/18/2002	13.8			1
212137-009-009-1/1	OU5-CSA-6-4301WS-DUP02	12/18/2002	5.2			1
212137-010-010-1/1	OU5-CSA-6-4301WS-(100,40)	12/18/2002	8.9			1
212137-011-011-1/1	OU5-CSA-6-4301WS-(40,80)	12/18/2002	6.8			1
212137-012-012-1/1	OU5-CSA-6-4301WS-(60,100)	12/18/2002	9			1
212137-013-013-1/1	OU5-CSA-6-4301WS-(140,80)	12/18/2002	11.8			1
212137-014-014-1/1	OU5-CSA-6-4301WS-(120,80)	12/18/2002	10.1			1
212137-015-015-1/1	OU5-CSA-6-4301WS-(100,100)	12/18/2002	32.6			1
212137-016-016-1/1	OU5-CSA-6-4301WS-(80,120)	12/18/2002	36.4			1
212137-017-017-1/1	OU5-CSA-6-4301WS-(120,60)	12/18/2002	5.5			1
212137-018-018-1/1	OU5-CSA-6-4301WS-(100,80)	12/18/2002	19.8			1
212137-019-019-1/1	OU5-CSA-6-4301WS-(80,80)	12/18/2002	45.2			1
212137-020-020-1/1	OU5-CSA-6-4301WS-(80,100)	12/18/2002	20.9			1
212137-021-021-1/1	OU5-CSA-6-4301WS-(120,120)	12/18/2002	21.2			1
212137-022-022-1/1	OU5-CSA-6-4301WS-(100,120)	12/18/2002	111			1
212137-023-023-1/1	OU5-CSA-4301WS-(120,100)	12/18/2002	25.2			1
212137-024-024-1/1	OU5-CSA-6-4301WS-(80,20)	12/18/2002	6.5			1
212137-025-025-1/1	OU5-CSA-6-4301WS-(40,20)	12/18/2002	8.2			1
212137-026-026-1/1	OU5-CSA-6-4301WS-(60,20)	12/18/2002	5.9			1
212137-027-027-1/1	OU5-CSA-6-4301WS-(20,40)	12/18/2002	9.2			1
212137-028-028-1/1	OU5-CSA-6-4301WS-(40,0)	12/18/2002	5.1			1
212137-029-029-1/1	OU5-CSA-6-4301WS-(20,60)	12/18/2002	5.8			1
212137-030-030-1/1	OU5-CSA-6-4301WS-(80,40)	12/18/2002	5.4			1
212137-031-031-1/1	OU5-CSA-6-4301WS-(60,40)	12/18/2002	5.7			1
212137-032-032-1/1	OU5-CSA-6-4301WS-(20,20)	12/18/2002	5			1
212137-033-033-1/1	OU5-CSA-6-4301WS-(40,40)	12/18/2002	12.3			1
212137-034-034-1/1	OU5-CSA-6-4301WS-(20,100)	12/18/2002	4.9			1
212137-035-035-1/1	OU5-CSA-6-4301WS-(60,60)	12/18/2002	4.3			1
212137-036-036-1/1	OU5-CSA-6-4301WS-(20,80)	12/18/2002	6.8			1
212137-037-037-1/1	OU5-CSA-6-4301WS-(100,20)	12/18/2002	4.8			1
212147-001-001-1/1	OU5-CSA-12-5063LR-(200,100)	12/19/2002	3.9			1
212147-002-002-1/1	OU5-CSA-12-5063LR-(200,60)	12/19/2002	3.2			1
212147-003-003-1/1	OU5-CSA-12-5063LR-(220,80)	12/19/2002	16.2			1
212147-004-004-1/1	OU5-CSA-12-5063LR-(180,100)	12/19/2002	14.2			1
212147-005-005-1/1	OU5-CSA-12-5063LR-(200,80)	12/19/2002	3.2			1
212147-006-006-1/1	OU5-CSA-12-5063LR-(220,100)	12/19/2002	5.6			1

TABLE 1 (APPENDIX C)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-4 AND OU-5 SAMPLES COLLECTED BETWEEN APRIL 3, 2001 AND DECEMBER 20, 2002
(All detections were for arsenic)

LABSAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC RESULT (mg//kg)	EPA FLAGS	DV QUAL	DILFAC
212147-007-007-1/1	OU5-CSA-12-5063LR-(180,80)	12/19/2002	3			1
212147-008-008-1/1	OU5-CSA-12-5063LR-(220,60)	12/19/2002	8.2			1
212147-009-009-1/1	OU5-CSA-12-5063LR-(180,60)	12/19/2002	5.5			1
212147-010-010-1/1	OU5-CSA-12-5063LR-(160,100)	12/19/2002	4.3			1
212147-011-011-1/1	OU5-CSA-12-5063LR-(120,120)	12/19/2002	3.2			1
212147-012-012-1/1	OU5-CSA-12-5063LR-(140,60)	12/19/2002	6			1
212147-013-013-1/1	OU5-CSA-12-5063LR-(160,80)	12/19/2002	6			1
212147-014-014-1/1	OU5-CSA-12-5063LR-(60,160)	12/19/2002	11.2			1
212147-015-015-1/1	OU5-CSA-12-5063LR-(80,140)	12/19/2002	10.9			1
212147-016-016-1/1	OU5-CSA-12-5063LR-(80,120)	12/19/2002	6.7			1
212147-017-017-1/1	OU5-CSA-12-5063LR-(40,180)	12/19/2002	2.7			1
212147-018-018-1/1	OU5-CSA-12-5063LR-(160,120)	12/19/2002	7.4			1
212147-019-019-1/1	OU5-CSA-12-5063LR-(80,60)	12/19/2002	7			1
212147-020-020-1/1	OU5-CSA-12-5063LR-(140,80)	12/19/2002	7.5			1
212147-021-021-1/1	OU5-CSA-12-5063LR-(60,140)	12/19/2002	7.9			1
212147-022-022-1/1	OU5-CSA-12-5063LR-(80,100)	12/19/2002	6.8			1
212147-023-023-1/1	OU5-CSA-12-5063LR-(100,100)	12/19/2002	5.3			1
212147-024-024-1/1	OU5-CSA-12-5063LR-(60,120)	12/19/2002	11.6			1
212147-025-025-1/1	OU5-CSA-12-5063LR-(60,100)	12/19/2002	6.3			1
212147-026-026-1/1	OU5-CSA-12-5063LR-(40,160)	12/19/2002	4.8			1
212147-027-027-1/1	OU5-CSA-12-5063LR-(100,80)	12/19/2002	5.6			1
212147-028-028-1/1	OU5-CSA-12-5063LR-(60,180)	12/19/2002	2.6			1
212147-029-029-1/1	OU5-CSA-12-5063LR-(80,80)	12/19/2002	5.8			1
212147-030-030-1/1	OU5-CSA-12-5063LR-(40,140)	12/19/2002	4.5			1
212147-031-031-1/1	OU5-CSA-12-5063LR-(40,120)	12/19/2002	5.7			1
212147-032-032-1/1	OU5-CSA-12-5063LR-(20,120)	12/19/2002	6.5			1
212147-033-033-1/1	OU5-CSA-12-5063LR-(20,80)	12/19/2002	2.7			1
212147-034-034-1/1	OU5-CSA-12-5063LR-(20,160)	12/19/2002	3.9			1
212147-035-035-1/1	OU5-CSA-12-5063LR-(0,160)	12/19/2002	3.2			1
212147-036-036-1/1	OU5-CSA-12-5063LR-(40,80)	12/19/2002	6.3			1
212147-037-037-1/1	OU5-CSA-12-5063LR-(20,140)	12/19/2002	8.7			1
212147-038-038-1/1	OU5-CSA-12-5063LR-(20,100)	12/19/2002	6.2			1
212147-039-039-1/1	OU5-CSA-12-5063LR-(0,120)	12/19/2002	11.5			1
212147-040-040-1/1	OU5-CSA-12-5063LR-(40,100)	12/19/2002	5.2			1
212147-041-041-1/1	OU5-CSA-12-5063LR-(0,140)	12/19/2002	7			1
212147-042-042-1/1	OU5-CSA-12-5063LR-(100,60)	12/19/2002	3.9			1
212147-043-043-1/1	OU5-CSA-12-5063LR-(80,40)	12/19/2002	10			1
212147-044-044-1/1	OU5-CSA-12-5063LR-(40,20)	12/19/2002	3.5			1
212147-045-045-1/1	OU5-CSA-12-5063LR-(40,40)	12/19/2002	3			1
212147-046-046-1/1	OU5-CSA-12-5063LR-(100,40)	12/19/2002	10			1
212147-047-047-1/1	OU5-CSA-12-5063LR-(100,20)	12/19/2002	5.7			1
212147-048-048-1/1	OU5-CSA-12-5063LR-(40,60)	12/19/2002	2.8			1
212147-049-049-1/1	OU5-CSA-12-5063LR-(20,60)	12/19/2002	3.8			1
212147-050-050-1/1	OU5-CSA-12-5063LR-(80,20)	12/19/2002	3.6			1
212147-051-051-1/1	OU5-CSA-12-5063LR-(60,20)	12/19/2002	8.9			1
212147-052-052-1/1	OU5-CSA-12-5063LR-(60,60)	12/19/2002	6.6			1
212147-053-053-1/1	OU5-CSA-12-5063LR-(60,80)	12/19/2002	8.1			1
212147-054-054-1/1	OU5-CSA-12-5063LR-(140,40)	12/19/2002	7.9			1
212147-055-055-1/1	OU5-CSA-12-5063LR-(120,40)	12/19/2002	13.1			1
212147-056-056-1/1	OU5-CSA-12-5063LR-(140,160)	12/19/2002	5.1			1
212147-057-057-1/1	OU5-CSA-12-5063LR-(140,140)	12/19/2002	4.8			1
212147-058-058-1/1	OU5-CSA-12-5063LR-(100,180)	12/19/2002	15.5			1
212147-059-059-1/1	OU5-CSA-12-5063LR-(80,200)	12/19/2002	7			1
212147-060-060-1/1	OU5-CSA-12-5063LR-(120,80)	12/19/2002	8.2			1
212147-061-061-1/1	OU5-CSA-12-5063LR-(140,120)	12/19/2002	4.7			1
212147-062-062-1/1	OU5-CSA-12-5063LR-(120,160)	12/19/2002	6.6			1
212147-063-063-1/1	OU5-CSA-12-5063LR-(120,140)	12/19/2002	10.6			1
212147-064-064-1/1	OU5-CSA-12-5063LR-(80,160)	12/19/2002	6.5			1

TABLE 1 (APPENDIX C)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-4 AND OU-5 SAMPLES COLLECTED BETWEEN APRIL 3, 2001 AND DECEMBER 20, 2002
(All detections were for arsenic)

LABSAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC RESULT (mg//kg)	EPA FLAGS	DV QUAL	DILFAC
212147-065-065-1/1	OU5-CSA-12-5063LR-(120,180)	12/19/2002	27.1			1
212147-066-066-1/1	OU5-CSA-12-5063LR-(120,100)	12/19/2002	4.6			1
212147-067-067-1/1	OU5-CSA-12-5063LR-(140,100)	12/19/2002	5.3			1
212147-068-068-1/1	OU5-CSA-12-5063LR-(100,200)	12/19/2002	8.8			1
212147-069-069-1/1	OU5-CSA-12-5063LR-(100,160)	12/19/2002	13			1
212147-070-070-1/1	OU5-CSA-12-5063LR-(160,40)	12/19/2002	5.5			1
212147-071-071-1/1	OU5-CSA-12-5063LR-(160,60)	12/19/2002	5.3			1
212147-072-072-1/1	OU5-CSA-12-5063LR-(80,180)	12/19/2002	9.5			1
212147-073-073-1/1	OU5-CSA-12-5063LR-(120,200)	12/19/2002	22.1			1
212147-074-074-1/1	OU5-CSA-12-5063LR-(100,140)	12/19/2002	5.7			1
212147-075-075-1/1	OU5-CSA-12-5063LR-(100,220)	12/19/2002	3.4			1
212147-076-076-1/1	OU5-CSA-12-5063LR-(60,40)	12/19/2002	11.4			1
212147-077-077-1/1	OU5-CSA-12-5063LR-SB1	12/19/2002	2.1			1
212147-078-078-1/1	OU5-CSA-12-5063LR-DUP01	12/19/2002	6.2			1
212147-079-079-1/1	OU5-CSA-12-5063LR-DUP02	12/19/2002	10.7			1
212147-080-080-1/1	OU5-CSA-12-5063LR-DUP03	12/19/2002	8.7			1
212147-081-081-1/1	OU5-CSA-12-5063LR-DUP04	12/19/2002	10.9			1

APPENDIX D

SUPPORT DOCUMENTATION

ATTACHMENT 1: LABORATORY BLANKS

ATTACHMENT 2: MATRIX SPIKE SUMMARY FORMS

ATTACHMENT 3: LABORATORY DUPLICATE SUMMARY FORMS

ATTACHMENT 4: LABORATORY DATA SHEETS FOR EQUIPMENT BLANKS

APPENDIX D - ATTACHMENT 1

LABORATORY BLANK DATA FORMS ORDERED BY SDG

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104015

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.3	U	5.3	U	5.3	U	5.3	U	0.530	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104015

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.3	U	5.3	U	5.3	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104015

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.3	U	5.3	U	5.3	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104015

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.3	U	5.3	U	5.3	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104017

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.3	U	5.3	U	5.3	U	5.3	U	-0.550	B	P

001025

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104017

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.3	U	5.3	U	5.3	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104017

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.3	U	5.3	U	5.3	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104017

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.3	U							P

001028

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104029

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.3	U	5.3	U	5.3	U	5.3	U	0.530	U	P

001025

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104029

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.3	U	5.3	U	5.3	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104029

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.3	U	5.3	U	5.3	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104029

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.3	U	5.3	U	5.3	U			P

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK55502

Lab Name :	GPL Laboratories	Client. :	Parsons Engineering Science
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	207015
Matrix : (Soil / Water)	SOIL	Lab Sample ID :	BLK55502
Sample Volume :	10	Lab File ID :	N37433.D
% Moisture:		Date Received	
Extraction:	EXT_LL03	Date Extracted:	07/05/2002
Extract Volume:	20 mL	Date Analyzed	07/13/2002
Injection Volume :	2 µL	Dilution Factor :	1
GPC Clean up (Y/N):	N pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/kg

CAS NO	COMPOUND		Q
505-29-3	1,4-Dithiane	100	U
15980-15-1	1,4-Oxathiane	200	U

QC Summary

Sampler's ID	GPL Sample ID		Date Samp	Date Rec'd	Date Prep.	Time Prep	Date Analyzed	Time Analyzed	Analyte/Method	Amt Detd in Sample	Mass Spiked	Unit of Spike	Mass Detd in Spike	Unit	Rec.	Units	Flag	Min. Quant Limit	Min Det Limit	Max Cal Limit	Dil Factor
CSA-6-4221(43)-SB(3.5-4.5)	207015-001-002-1/1	MS	7/2/2002	7/3/2002	7/9/2002	11:50	7/9/2002	12:39	Sulfur Mustard/SOP 44	ND	1000	ug/kg	940	ug/kg	94	%		40	40	200	1
CSA-6-4221(43)-SB(3.5-4.5)	207015-001-002-1/1	MSD	7/2/2002	7/3/2002	7/9/2002	11:56	7/9/2002	12:54	Sulfur Mustard/SOP 44	ND	1000	ug/kg	900	ug/kg	90	%		40	40	200	1
SP-07-09-02-01	SP-07-09-02-01	LCS			7/9/2002	11:11	7/9/2002	13:09	Sulfur Mustard/SOP 44		1000	ug/kg	980	ug/kg	98	%		40	40	200	1
BL-07-09-02-01	BL-07-09-02-01	BLANK			7/9/2002	11:05	7/9/2002	13:24	Sulfur Mustard/SOP 44				ND	ug/kg			U	40	40	200	1
CSA-6-4221(43)-SB(3.5-4.5)	207015-001-002-1/1	MS	7/2/2002	7/3/2002	7/9/2002	11:50	7/9/2002	12:39	CVAA/CVAO/SOP 38	ND	1000	ug/kg	910	ug/kg	91	%		40	40	200	1
CSA-6-4221(43)-SB(3.5-4.5)	207015-001-002-1/1	MSD	7/2/2002	7/3/2002	7/9/2002	11:56	7/9/2002	12:54	CVAA/CVAO/SOP 38	ND	1000	ug/kg	860	ug/kg	86	%		40	40	200	1
SP-07-09-02-01	SP-07-09-02-01	LCS			7/9/2002	11:11	7/9/2002	13:09	CVAA/CVAO/SOP 38		1000	ug/kg	920	ug/kg	92	%		40	40	200	1
BL-07-09-02-01	BL-07-09-02-01	BLANK			7/9/2002	11:05	7/9/2002	13:24	CVAA/CVAO/SOP 38				ND	ug/kg			U	40	40	200	1

	Lower Limit	Upper Limit
Acceptance Limits for MS and MSD Samples are	75%	125%
Acceptance Limits for LCS Samples are	75%	125%
Acceptance Limits for CCV	80%	120%

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK55503

Lab Name :	GPL Laboratories	Client. :	Parsons Engineering Scienc
Lab Code	GPL	SAS NO. :	
Case No.		SDG NO :	207015
Matrix : (Soil / Water)	SOIL	Lab Sample ID :	BLK55503
Sample Volume :	10	Lab File ID :	LB14778.D
% Moisture:		Date Received	
Extraction:	EXT_LW18	Date Extracte	07/05/2002
Extract Volume	25 mL	Date Analyzed	07/11/2002
Injection Volume :	µ L	Dilution Factor	1
GPC Clean up (Y/N):	N pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/kg

CAS NO	COMPOUND		Q
111-48-8	Thiodiglycol	500	U

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208047

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C		M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	0.380	U		P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208047

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208047

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208047

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208184

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C		M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	0.380	U		P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208184

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208184

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208193

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.4	U	3.4	U	3.4	U	3.4	U	3.400	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208193

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.4	U	3.4	U	3.4	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U							P

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK56565

Lab Name :	GPL Laboratories	Client. :	Parsons Engineering Science
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	208204
Matrix : (Soil / Water)	SOIL	Lab Sample ID :	BLK56565
Sample Volume :	10	Lab File ID :	N38956.D
% Moisture:		Date Received	
Extraction:	EXT_LL03	Date Extracted:	09/03/2002
Extract Volume:	20 mL	Date Analyzed	09/13/2002
Injection Volume :	2 µL	Dilution Factor :	1
GPC Clean up (Y/N):	N pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/kg

CAS NO	COMPOUND		Q
505-29-3	1,4-Dithiane	100	U
15980-15-1	1,4-Oxathiane	200	U

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
BLK56566

Lab Name :	GPL Laboratories	Client. :	Parsons Engineering Scienc
Lab Code	GPL	SAS NO. :	
Case No.		SDG NO :	208204
Matrix : (Soil / Water)	SOIL	Lab Sample ID :	BLK56566
Sample Volume :	10	Lab File ID :	LB15341.D
% Moisture:		Date Received	
Extraction:	EXT_LW18	Date Extracte	09/03/2002
Extract Volume	25 mL	Date Analyzed	09/05/2002
Injection Volume :	µL	Dilution Factor	1
GPC Clean up (Y/N):	N pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/kg

CAS NO	COMPOUND		Q
111-48-8	Thiodiglycol	500	U

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C		M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	0.380	U		P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Preparation Blank Matrix (soil/water): ~~WATER~~ SOIL SL 09.05.02

Preparation Blank Concentration Units (ug/L or mg/kg): ~~UG/L~~ MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U					P

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK56565

Lab Name :	GPL Laboratories	Client. :	Parsons Engineering Science
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	208207
Matrix : (Soil / Water)	SOIL	Lab Sample ID :	BLK56565
Sample Volume :	10	Lab File ID :	N38956.D
% Moisture:		Date Received	
Extraction:	EXT_LL03	Date Extracted:	09/03/2002
Extract Volume:	20 mL	Date Analyzed	09/13/2002
Injection Volume :	2 µL	Dilution Factor :	1
GPC Clean up (Y/N):	N pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/kg

CAS NO	COMPOUND		Q
505-29-3	1,4-Dithiane	100	U
15980-15-1	1,4-Oxathiane	200	U

GPL Laboratories

GPL
FORM I
ANALYSIS DATA SHEET

SAMPLE NO
BLK56566

Lab Name :	GPL Laboratories	Client. :	Parsons Engineering Scienc
Lab Code	GPL	SAS NO. :	
Case No.		SDG NO :	208207
Matrix : (Soil / Water)	SOIL	Lab Sample ID :	BLK56566
Sample Volume :	10	Lab File ID :	LB15341.D
% Moisture:		Date Received	
Extraction:	EXT_LW18	Date Extracte	09/03/2002
Extract Volume	25 mL	Date Analyzed	09/05/2002
Injection Volume :	µL	Dilution Factor	1
GPC Clean up (Y/N):	N pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/kg

CAS NO	COMPOUND		Q
111-48-8	Thiodiglycol	500	U

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209023

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.1	U	5.1	U	5.1	U	5.1	U	0.510	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209023

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U	5.1	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209023

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U					P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209023

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.1	U	5.1	U	5.1	U	5.1	U	0.510	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209023

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U					P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U					P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209025

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C		M
Arsenic	3.4	U	3.4	U	3.4	U	3.4	U	3.400	U		P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209025

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.4	U	3.4	U	3.4	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209025

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.4	U	3.4	U					P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209026

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.4	U	3.4	U	3.4	U	3.4	U	3.400	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209026

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.4	U	3.4	U	3.4	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209026

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.4	U	3.4	U					P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 210203

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.1	U	5.1	U	5.1	U	5.1	U	0.510	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 210203

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U							P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211042

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.4	U	3.4	U	3.4	U	3.4	U	3.400	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211042

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.4	U	-3.9	B	3.4	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211042

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.4	U	3.4	U					P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	-3.9	B	3.8	U	-0.389	B	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U							P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212136

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	3.800	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212136

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U							P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212137

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.1	U	5.1	U	5.1	U	5.1	U	0.510	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212137

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U	5.1	U	0.510	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212137

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U	5.1	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212137

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U	5.1	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212137

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U					P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.8	U	3.8	U	3.8	U	16.1	B	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U	0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): ~~WATER~~ SOIL SL 1.3.03

Preparation Blank Concentration Units (ug/L or mg/kg): ~~UG/L~~ MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U					0.380	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.1	U	5.1	U	5.1	U	5.1	U	0.510	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U	5.1	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U	5.1	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U					P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	5.1	U	5.1	U	5.1	U	5.1	U	0.510	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U	5.1	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U	5.1	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U	5.1	U	5.1	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			5.1	U							P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212149

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	3.800	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212149

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212149

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212149

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

APPENDIX D - ATTACHMENT 2

MATRIX SPIKE SUMMARY FORMS ORDERED BY SDG

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU-5-5059-4S

Contract:

Lab Code: Case No.: SAS SDG NO.: 104015

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 75.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	16.5043		5.4567		13.32	82.9		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU-5-5065-1S

Contract:

Lab Code: Case No.: SAS SDG NO.: 104017

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	18.0312		3.4483		13.09	111.4		P

Comments:

001030

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU-5-5036-4S

Contract:

Lab Code: Case No.: SAS SDG NO.: 104029

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 78.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	15.6480		3.7356		12.02	99.1		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU4-4810GR-(140,60)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 204130

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 68.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	10.7474		2.0487		8.40	103.6		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU4-4810GR-(120,40)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 204130

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	21.0756		12.1717		8.50	104.8		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU4-4810GR-(60,100)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 204130

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 41.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	60.5859		45.9038		17.81	82.4		P

Comments:

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
CSA-6-4221(43)-SB(3.5-4.5)MS

Lab Name :	GPL Laboratories	Client. :	Parsons Engineering Science
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	207015
Matrix : (Soil / Water)	SOIL	Lab Sample ID :	207015-001-003-1/1MS
Sample Volume :	10	Lab File ID :	N37440.D
% Moisture:	18.45	Date Received	07/02/2002
Extraction:	EXT_LL03	Date Extracted:	07/05/2002
Extract Volume:	20 mL	Date Analyzed	07/13/2002
Injection Volume :	2 µL	Dilution Factor :	1
GPC Clean up (Y/N):	N pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/kg

CAS NO	COMPOUND		Q
505-29-3	1,4-Dithiane	670	
15980-15-1	1,4-Oxathiane	700	

GPL Laboratories

GPL
FORM 1
ANALYSIS DATA SHEET

SAMPLE NO
CSA-6-4221(43)-SB(3.5-4.5)MSD

Lab Name :	GPL Laboratories	Client. :	Parsons Engineering Science
Lab Code :	GPL	SAS NO. :	
Case No. :		SDG NO :	207015
Matrix : (Soil / Water)	SOIL	Lab Sample ID :	207015-001-003-1/1MSD
Sample Volume :	10	Lab File ID :	N37441.D
% Moisture:	18.45	Date Received	07/02/2002
Extraction:	EXT_LL03	Date Extracted:	07/05/2002
Extract Volume:	20 mL	Date Analyzed	07/13/2002
Injection Volume :	2 μL	Dilution Factor :	1
GPC Clean up (Y/N):	N pH:		

Concentration Units (ug/L or ug/kg dry weight) : ug/kg

CAS NO	COMPOUND		Q
505-29-3	1,4-Dithiane	660	
15980-15-1	1,4-Oxathiane	640	

Form 3 MD/MS

SOIL GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: Parsons Engineering Science

GPL Work-Order: 207015

Analyte	Method	Sample ID	Sample Conc. (mg/Kg)	Duplicate Conc. (mg/Kg)	RPD	RPD Limit
Total Cyanide	SW9014	207033*	BQL	BQL	N/C	15%

RPD - 0 out of 1 outside control limits
*Indicates shared QC

Analyte	Method	Sample ID	Sample Conc. (mg/Kg)	MS Conc. (mg/Kg)	Spike Added (mg/Kg)	MS % Recov.	MS Recovery Limits
Total Cyanide	SW9014	207033*	0	1.42	1.51	94.0	75 - 125%

Recovery - 0 out of 1 outside control limits

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
SA-6-4221(43)-SB(3.5-4.

Lab Name : GPL Laboratories SDG NO : 207015 Method : LW18

Lab Code GPL Lab Sample ID : 207015-001-003-1/1MSD Matrix : SOIL Analysis Date : 07/11/2002

Compound	Spike Added (ug/kg)		CONCENTRATION (ug/kg)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Thiodiglycol	77000	77000	0	62000	65000	81	84	4	25	37-129

Column to be used to flag recovery and RPD Values with an aster

* Values Outside of QC Limits.

RPD 0 Out of 1 Outside Limit
Spike Recovery : 0 Out of 2 outside limit

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

AU16-SB-N(5.5)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 206047

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 92.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	9.2402		2.6257	B	6.57	100.7		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CTA-1A-L1-SBA1S

Contract:

Lab Code: Case No.: SAS SDG NO.: 208184

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	8.2377		1.6286		6.79	97.3		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-3-L8-18

Contract:

Lab Code: Case No.: SAS SDG NO.: 208184

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 93.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	10.3090		4.4260		6.71	87.6		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

208186-003-133-1/3S

Contract:

Lab Code: Case No.: SAS SDG NO.: 208193

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	48.7687		4.0232	B	50.00	89.5		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CTA-L1-SBB2S

Contract:

Lab Code: Case No.: SAS SDG NO.: 208198

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	7.5893		3.1485		5.85	75.9		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-C8A-3-L4-18

Contract:

Lab Code: Case No.: SAS SDG NO.: 208198

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	9.5799		3.9717		6.15	91.1		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-5A-

SPIKE SAMPLE RECOVERY

	SAMPLE NO.
	OU5-CSA-3-L4-SBC1S

Contract:

Lab Code: Case No.: SAS SDG NO.: 208198

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 98.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	6.1619		0.4695	B	5.58	102.1		P

Comments:

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
CSA-3-L6-SBB(3-4)MSD

Lab Name : GPL Laboratories SDG NO : 208204 Method : LL03

Lab Code : GPL Lab Sample ID : 208204-003-006-1/1MSD Matrix : SOIL Analysis Date : 09/13/2002

Compound	Spike Added (ug/kg)		CONCENTRATION (ug/kg)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
1,4-Dithiane	680	680	0	720	720	106	106	0	25	54-125
1,4-Oxathiane	670	670	0	500	490	75	73	3	25	46-131

Column to be used to flag recovery and RPD Values with an asterisk.

* Values Outside of QC Limits.

RPD 0 Out of 2 Outside Limit
Spike Recovery : 0 Out of 4 outside limit

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
CSA-3-L6-SBB(3-4)MSD

Lab Name : GPL Laboratories SDG NO : 208204 Method : LW18

Lab Code GPL Lab Sample ID : 208204-003-006-1/1MSD Matrix : SOIL Analysis Date : 09/05/2002

Compound	Spike Added (ug/kg)		CONCENTRATION (ug/kg)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Thiodiglycol	72000	72000	0	50000	50000	69	69	0	25	37-129

Column to be used to flag recovery and RPD Values with an aster

* Values Outside of QC Limits.

RPD 0 Out of 1 Outside Limit
Spike Recovery : 0 Out of 2 outside limit

Form 3 MD/MS

SOIL GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: Parsons Engineering Science

GPL Work-Order: 208204

Analyte	Method	Sample ID	Sample Conc. (mg/Kg)	Duplicate Conc. (mg/Kg)	RPD	RPD Limit
Total Cyanide	SW9014	CSA-3-L4-SBC(5-6)	BQL	BQL	N/C	15%

RPD - 0 out of 1 outside control limits

Analyte	Method	Sample ID	Sample Conc. (mg/Kg)	MS Conc. (mg/Kg)	Spike Added (mg/Kg)	MS % Recov.	MS Recovery Limits
Total Cyanide	SW9014	CSA-3-L4-SBC(5-6)	0	1.43	1.28	112	75 - 125%

Recovery - 0 out of 1 outside control limits

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-7-L58-SB18

Contract:

Lab Code: Case No.: SAS SDG NO.: 208206

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 94.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	7.1345		2.3119		5.71	84.5		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-7-L58-1S

Contract:

Lab Code: Case No.: SAS SDG NO.: 208206

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	11.5563		4.3350		7.88	91.6		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CTA-1A-5122(52)-SB4S

Contract:

Lab Code: Case No.: SAS SDG NO.: 208206

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 92.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	7.4305		0.9296	B	7.24	89.8		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CTA-1A-5122(52)-1S

Contract:

Lab Code: Case No.: SAS SDG NO.: 208206

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	9.0825		2.7207		7.83	81.3		P

Comments:

GPL Laboratories

MS/MSD RECOVERY

SAMPLE NO
CSA-3-L6-SBB(3-4)MSD

Lab Name : GPL Laboratories SDG NO : 208204 Method : LW18

Lab Code GPL Lab Sample ID : 208204-003-006-1/1MSD Matrix : SOIL Analysis Date : 09/05/2002

Compound	Spike Added (ug/kg)		CONCENTRATION (ug/kg)			%RECOVERY		% RPD	RPD Limit	QC Limits
	MS	MSD	Sample	MS	MSD	MS	MSD			
Thiodiglycol	72000	72000	0	50000	50000	69	69	0	25	37-129

3

Column to be used to flag recovery and RPD Values with an aster

* Values Outside of QC Limits.

RPD 0 Out of 1 Outside Limit
Spike Recovery : 0 Out of 2 outside limit

QC Summary

Sampler's ID	GPL Sample ID		Date Samp	Date Rec'd	Date Prep.	Time Prep	Date Analyzed	Time Analyzed	Analyte/Method	Amt Detd in Sample	Mass Spiked	Unit of Spike	Mass Detd In Spike	Unit	Rec.	Units	Flag	Min. Quant Limit	Min Det Limit	Max Cal Limit	Dil Factor
CSA-3-L7-SB(9-10)	208207-001-001-1/1	MS	8/29/2002	8/30/2002	9/9/2002	12:15	9/9/2002	16:19	Sulfur Mustard/SOP 44	ND	1000	ug/kg	960	ug/kg	96	%		40	40	200	1
CSA-3-L7-SB(9-10)	208207-001-001-1/1	MSD	8/29/2002	8/30/2002	9/9/2002	12:22	9/9/2002	16:34	Sulfur Mustard/SOP 44	ND	1000	ug/kg	810	ug/kg	81	%		40	40	200	1
SP-09-09-02	SP-09-09-02	LCS			9/9/2002	12:02	9/9/2002	16:04	Sulfur Mustard/SOP 44		1000	ug/kg	990	ug/kg	99	%		40	40	200	1
BL-09-09-02	BL-09-09-02	BLANK			9/9/2002	11:28	9/9/2002	15:49	Sulfur Mustard/SOP 44				ND	ug/kg			U	40	40	200	1
CSA-3-L7-SB(9-10)	208207-001-001-1/1	MS	8/29/2002	8/30/2002	9/9/2002	12:15	9/9/2002	16:19	CVAA/CVAO/SOP 38	ND	1000	ug/kg	1100	ug/kg	110	%		40	40	200	1
CSA-3-L7-SB(9-10)	208207-001-001-1/1	MSD	8/29/2002	8/30/2002	9/9/2002	12:22	9/9/2002	16:34	CVAA/CVAO/SOP 38	ND	1000	ug/kg	910	ug/kg	91	%		40	40	200	1
SP-09-09-02	SP-09-09-02	LCS			9/9/2002	12:02	9/9/2002	16:04	CVAA/CVAO/SOP 38		1000	ug/kg	1030	ug/kg	103	%		40	40	200	1
BL-09-09-02	BL-09-09-02	BLANK			9/9/2002	11:28	9/9/2002	15:49	CVAA/CVAO/SOP 38				ND	ug/kg			U	40	40	200	1

	Lower Limit	Upper Limit
Acceptance Limits for MS and MSD Samples are	75%	125%
Acceptance Limits for LCS Samples are	75%	125%
Acceptance Limits for CCV	80%	120%

5

Form 3 MD/MS

SOIL GENERAL CHEMISTRY DUPLICATE/MATRIX SPIKE RECOVERY

Lab Name: GPL Laboratories, LLLC Client: Parsons Engineering Science

GPL Work-Order: 208207

Analyte	Method	Sample ID	Sample Conc. (mg/Kg)	Duplicate Conc. (mg/Kg)	RPD	RPD Limit
Total Cyanide	SW9014	208204*	BQL	BQL	N/C	15%

RPD - 0 out of 1 outside control limits
*Indicates shared QC

Analyte	Method	Sample ID	Sample Conc. (mg/Kg)	MS Conc. (mg/Kg)	Spike Added (mg/Kg)	MS % Recov.	MS Recovery Limits
Total Cyanide	SW9014	208204*	0	1.43	1.28	112	75 - 125%

Recovery - 0 out of 1 outside control limits

GPL Laboratories, LLLP

TOTAL METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU4-3318(45)-(60,160)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 209023

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	13.9989		7.1227		7.28	94.5		P

Comments:

TOTAL METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CTA-1A-4849RS-(40,20)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 209024

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 75.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	11.9714		3.7984		8.13	100.5		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CTA-1A-4849RS-(20,80)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 209024

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 81.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	20.6430		12.6389		8.05	99.5		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-5A-

SPIKE SAMPLE RECOVERY

SAMPLE NO.

209033-002-031-1/18

Contract:

Lab Code: Case No.: SAS SDG NO.: 209025

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	64.6908		13.4623	B	50.00	102.5		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

209033-002-031-1/1S

Contract:

Lab Code: Case No.: SAS SDG NO.: 209026

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	64.6908		13.4623	B	50.00	102.5		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-6-4221(43)-(40,120)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 211043

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 84.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	42.0382		31.5213		8.05	130.6	N	P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-6-4221(43)-(20,60)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 211043

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 74.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	28.7775		19.5915		9.65	95.2		P

Comments:

TOTAL METALS
-5B-
POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-6-4221(43)-(40,120)A

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added(SA)	%R	Q	M
Arsenic		438.74		365.04		80.0	92.1		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-6-4301WS-(20,100)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 212137

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 77.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	13.7733		4.9299		9.54	92.7		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-6-4301WS-(20,80)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 212137

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 78.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	15.6767		6.7783		9.36	95.1		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-12-5063LR-(180,60)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 212147

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 80.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	13.5764		5.5052		7.73	104.4		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-12-5063LR-(20,80)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 212147

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	9.1957		2.6547		7.08	92.4		P

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-12-5063LR-(0,140)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 212147

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 72.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	14.6457		6.9549		8.73	88.1		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

OU5-CSA-12-5063LR-(120,40)S

Contract:

Lab Code: Case No.: SAS SDG NO.: 212147

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 77.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	19.8340		13.1168		7.26	92.5		P

Comments:

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

212131-004-032-1/1S

Contract:

Lab Code: Case No.: SAS SDG NO.: 212149

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	55.0023		4.9982	B	50.00	100.0		P

Comments:

APPENDIX D - ATTACHMENT 3

LABORATORY DUPLICATE SUMMARY FORMS ORDERED BY SDG

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU-5-5059-4D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104015

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 75.1 % Solids for Duplicate: 75.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	2.6	5.4567		4.5332		18.5		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU-5-5065-1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104017

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.4 % Solids for Duplicate: 76.4

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.3	3.4483		4.0205		15.3		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU-5-5036-4D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 104029

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 78.5 % Solids for Duplicate: 78.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	2.4	3.7356		3.0715		19.5		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
	OU4-4810GR-(120,40)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 204130

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 81.7 % Solids for Duplicate: 81.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		12.1717		14.3228		16.2		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
	OU4-4810GR-(140,60)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 204130

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 68.8 % Solids for Duplicate: 68.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.7	2.0487		3.0781		40.2		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
	OU4-4810GR-(60,100)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 204130

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 41.9 % Solids for Duplicate: 41.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		45.9038		45.8269		0.2		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
	AU16-SB-N(5.5)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208047

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 92.9 % Solids for Duplicate: 92.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	2.6	2.6257	B	3.4122		26.1		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CSA-3-L8-1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208184

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 93.7 % Solids for Duplicate: 93.7

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.3	4.4260		3.8347		14.3		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CTA-1A-L1-SBA1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208184

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 95.6 % Solids for Duplicate: 95.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.4	1.6286		1.7635		8.0		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

208186-003-133-1/3D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208193

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		4.0232	B	3.4000	U	200.0		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
	OU5-CSA-3-L4-1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 86.9 % Solids for Duplicate: 86.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.3	3.9717		4.2806		7.5		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
	OU5-CSA-3-L4-SEC1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 98.5 % Solids for Duplicate: 98.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		0.4695	B	0.4342	B	7.8		P

GPL Laboratories, LLLP

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CTA-L1-SBB2D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208198

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 89.9 % Solids for Duplicate: 89.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.3	3.1485		2.5538		20.9		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

0U5-CSA-7-L58-1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 76.9 % Solids for Duplicate: 76.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.8	4.3350		5.4471		22.7		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CSA-7-L58-SB1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 94.2 % Solids for Duplicate: 94.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.4	2.3119		2.2573		2.4		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CTA-1A-5122(52)-1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.2 % Solids for Duplicate: 85.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.3	2.7207		2.8068		3.1		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CTA-1A-5122(52)-SB4D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208206

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 92.1 % Solids for Duplicate: 92.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		0.9296	B	1.0246	B	9.7		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
	OU4-3318(45)-(60,160)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209023

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 83.8 % Solids for Duplicate: 83.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		7.1227		7.3716		3.4		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
Contract:	SW-001-(255,85)SO2D

Lab Code: Case No.: SAS No.: SDG NO.: 209023

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.9 % Solids for Duplicate: 82.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.6	4.5366		4.5376		0.0		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CTA-1A-4849RS-(20,80)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 81.2 % Solids for Duplicate: 81.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		12.6389		12.6195		0.2		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
	OU5-CTA-1A-4849RS-(40,20)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209024

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 75.9 % Solids for Duplicate: 75.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.7	3.7984		4.2690		11.7		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

209033-002-031-1/1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209025

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		13.4623	B	12.7404	B	5.5		P

GPL Laboratories, LLLP

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

209033-002-031-1/1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209026

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		13.4623	B	12.7404	B	5.5		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

MSS-9(0-.5)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 210203

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 90.1 % Solids for Duplicate: 90.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.4	2.4047		2.7005		11.6		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CSA-6-4221(43)-(20,60)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 74.6 % Solids for Duplicate: 74.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		19.5915		18.5881		5.3		P

TOTAL METALS

-6-

DUPLICATES

	SAMPLE NO.
Contract:	OU5-CSA-6-4221(43)-(40,120)D

Lab Code: Case No.: SAS No.: SDG NO.: 211043

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 84.5 % Solids for Duplicate: 84.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		31.5213		35.5044		11.9		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

212041-002-028-1/3D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212136

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		3.8000	U	3.8000	U			P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CSA-6-4301WS-(20,80)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212137

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 78.6 % Solids for Duplicate: 78.6

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.9	6.7783		6.7787		0.0		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CSA-6-4301WS-(20,100)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212137

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 77.1 % Solids for Duplicate: 77.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.9	4.9299		4.3484		12.5		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

TCRSA-AU-03-A(1)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 85.0 % Solids for Duplicate: 85.0

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.2	6.0222		9.7194		47.0	*	P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CSA-12-5063LR-(0,140)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 72.5 % Solids for Duplicate: 72.5

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	2.1	6.9549		7.3402		5.4		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CSA-12-5063LR-(120,40)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 77.8 % Solids for Duplicate: 77.8

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		13.1168		13.4961		2.9		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CSA-12-5063LR-(180,60)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 80.9 % Solids for Duplicate: 80.9

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.4	5.5052		5.0502		8.6		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

OU5-CSA-12-5063LR-(20,80)D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212147

Matrix (soil/water): SOIL Level (low/med): LOW

% Solids for Sample: 82.1 % Solids for Duplicate: 82.1

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic	1.3	2.6547		2.4009		10.0		P

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

212131-004-032-1/1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212149

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		4.9982	B	6.3978	B	24.6		P

APPENDIX D - ATTACHMENT 4

LABORATORY DATA SHEETS FOR EQUIPMENT BLANKS

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-3-L4-EB115

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208193

Matrix (soil/water): WATER Lab Sample ID: 208193-001-001-1/

Level (low/med): LOW Date Received: 28-AUG-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-3-L6-SBB-EB110

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 208193

Matrix (soil/water): WATER Lab Sample ID: 208193-002-002-1/

Level (low/med): LOW Date Received: 28-AUG-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU4-3318(45)-EB01

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209025

Matrix (soil/water): WATER Lab Sample ID: 209025-001-001-1/

Level (low/med): LOW Date Received: 05-SEP-02

Concentration Units (ug/L or mg/kg dry weight): pG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CTA-1A-4849RS-EB01

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209026

Matrix (soil/water): WATER Lab Sample ID: 209026-001-001-1/

Level (low/med): LOW Date Received: 05-SEP-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

0U5-CTA-1A-4849RS-EB02

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 209026

Matrix (soil/water): WATER Lab Sample ID: 209026-002-002-1/

Level (low/med): LOW Date Received: 05-SEP-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

OU5-CSA-6-4221(43)-EB01

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 211042

Matrix (soil/water): WATER Lab Sample ID: 211042-001-001-1/

Level (low/med): LOW Date Received: 08-NOV-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.4	U		P

Color Before: Clarity Before: Texture:

Color After: Clarity After: Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-6-4301-EB01

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212136

Matrix (soil/water): WATER Lab Sample ID: 212136-001-001-1/

Level (low/med): LOW Date Received: 19-DEC-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-6-4301-EB02

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212136

Matrix (soil/water): WATER Lab Sample ID: 212136-002-002-1/

Level (low/med): LOW Date Received: 19-DEC-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-12-5063LR-EB01

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212149

Matrix (soil/water): WATER Lab Sample ID: 212149-001-001-1/

Level (low/med): LOW Date Received: 20-DEC-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-12-5063LR-EB02

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212149

Matrix (soil/water): WATER Lab Sample ID: 212149-002-002-1/

Level (low/med): LOW Date Received: 20-DEC-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-12-5063LR-EB03

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212149

Matrix (soil/water): WATER Lab Sample ID: 212149-003-003-1/

Level (low/med): LOW Date Received: 20-DEC-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS
-1-
INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.
OU5-CSA-12-5063LR-EB04

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 212149

Matrix (soil/water): WATER Lab Sample ID: 212149-004-004-1/

Level (low/med): LOW Date Received: 20-DEC-02

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

OU-5 SAMPLING FOR THE PERIOD

12/23/02 TO 5/21/03

(REPORT NO. 12)

OU-5 SAMPLES COLLECTED FROM 12/23/02 TO 5/21/03 (REPORT No. 12)

(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG No.
OU5-CSA-12-4934-RP-1	2/6/2003	302040
OU5-CSA-12-4934RP-2	2/6/2003	302040
OU5-CSA-12-4934RP-DUP118	2/6/2003	302040
OU5-CSA-5-4441VP1	3/13/2003	303081
OU5-CSA-5-4441VP2	3/13/2003	303081
OU5-CSA-4-4632TS-1	5/21/2003	305134
OU5-CSA-4-4632TS-2	5/21/2003	305134

QUALITY ASSURANCE SUMMARY REPORT (NO. 12) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-5 SAMPLING

SAMPLING FROM DECEMBER 23, 2002 THROUGH MAY 21, 2003

OVERVIEW

This data validation summary report covers environmental soil and associated aqueous equipment blank samples collected from Spring Valley OU-5 locations between December 23, 2002 and May 21, 2003. The samples are identified by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared, analyzed and reported together (i.e., the analytical batch) with common laboratory QC samples. The sampling period covered in this report includes SDGs 302040, 302041, 303081 and 305134, as shown on the previous table.

The samples were analyzed for arsenic only. Soil samples for arsenic analysis were prepared by method SW 846 3050B and analyzed by method SW 846 6010B. Aqueous samples for arsenic analysis were prepared by method SW 846 3010B and analyzed by method SW 846 6010B.

All work was performed in accordance with the Work Management Plan (WMP) prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPjP), which was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories of Gaithersburg, Maryland, following procedures outlined in the QAPjP, performed all analyses.

The samples discussed in this report are listed in the table.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Inorganic Data. All information included in the data packages have been reviewed and validated including sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those QA/QC problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section. The organization of the validated data summary tables and supporting appendices are also discussed in the summary section. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as usable as qualified are presented in the Minor Problems section. Issues or problems not leading to qualifying of data are presented in the notes section.

SUMMARY

This section discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected, and the overall usability of the data.

The samples were collected, prepared and analyzed following the procedures described in the QAPjP. All samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPP.

No major QC problems were found during validation of the data. No reported results have been qualified as unusable or rejected. All reported results should be considered usable as qualified in the data tables for the purposes of this project. The

overall completeness for the sampling event is 100 percent since no reported data have been rejected based on data validation.

Arsenic was detected in each of the soil samples but not in the equipment blank. No QC problems were found during validation of the data. No validation qualifier was applied during validation.

A summary of all detections is presented in Table 1 of Appendix A. A summary of the results for the soil duplicate samples is presented in Table 2 (Appendix A). A glossary of the validation qualifiers is presented in Appendix B. Supporting laboratory documentation is presented in Appendix C (by SDG).

MAJOR PROBLEMS

No major problems were found during validation of the data for this sampling event. No reported laboratory results have been qualified as unusable or rejected. All reported results should be considered usable as qualified in this report.

MINOR PROBLEMS

No minor problems were found during validation of the data. No validation qualifier was added during validation.

Notes

One equipment blank was collected in support of the soil samples. The blank was analyzed for arsenic only. The equipment blank is free of contamination. Supporting laboratory documentation for the equipment blank is presented in Appendix C.

All method blanks analyzed in support of the samples are free of contamination. Laboratory documentation for the method blanks is presented in Appendix C.

One matrix spike/matrix spike duplicate (MS/MSD) sample (OU5-CSA-12-4934RP-2) was collected and analyzed in support of the samples. No accuracy or precision MS/MSD outliers were reported for the MS/MSD sample. Laboratory QC summary forms for the MS/MSD samples are presented in Appendix C.

Several non Spring Valley samples were analyzed as internal MS/MSD samples associated with SDGs 302041, 302081 and 305134. No decisions were made based on data for these MS/MSDs.

A soil duplicate was collected in support of the samples. Sample OU5-CSA-12-4934RP-DUP118 is a duplicate of sample OU5-CSA-12-4934RP-2. There was excellent precision (RPD 14.3%) between the results (2.6 and 3 mg/kg respectively) for the duplicates (see Table 2, Appendix A). Laboratory documentation for the duplicate samples is presented in Appendix C.

APPENDIX A

SUMMARY OF DETECTIONS TABLE

- **TABLE 1 – SUMMARY OF DETECTIONS**

- **TABLE 2 – SUMMARY OF RESULTS FOR SOIL FIELD DUPLICATES**

TABLE 1 (APPENDIX A)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-5 SAMPLES COLLECTED BETWEEN DECEMBER 23, 2002 AND MAY 21, 2003
(All detections were for arsenic)

LABSAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC RESULT (mg//kg)	EPA FLAGS	DV QUAL	DILFAC
302040-001	OU5-CSA-12-4934-RP-1	2/6/2003	3.8			1
302040-002	OU5-CSA-12-4934RP-2	2/6/2003	3			1
302040-003	OU5-CSA-12-4934RP-DUP118	2/6/2003	2.6			1
303081-001	OU5-CSA-5-4441VP1	3/13/2003	3.9			1
303081-002	OU5-CSA-5-4441VP2	3/13/2003	4.7			1
305134-001	OU5-CSA-4-4632TS-1	5/21/2003	5.8			1
305134-002	OU5-CSA-4-4632TS-2	5/21/2003	4			1

TABLE 2 (APPENDIX A)
SUMMARY OF RESULTS FOR SOIL FIELD DUPLICATES FOR SPRING VALLEY OU-5 SAMPLES COLLECTED BETWEEN DECEMBER 23, 2002 AND MAY 21, 2003

SDG No.	SAMPLE ID	FIELD DUPLICATE SAMPLE ID	ARSENIC SAMPLE RESULT(mg/kg)	MATCHING FLD DUP SAMPLE RESULT	RPD(%)
302040	OU5-CSA-12-4934RP-2	OU5-CSA-12-4934RP-DUP118	3	2.6	14.3

NOTES: RPD is relative percent difference as a measure of precision. The project precision objective is less than 50%.

APPENDIX B

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. The associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined (with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of arsenic present in the sample may be lower than the reported result. The data is considered 'estimated' and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of arsenic present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

UL the analyte was not detected in the sample. The reported PQL is considered estimated and may be biased low due to a minor QA/QC problem. The true PQL may be higher than the reported detection limit. The data as reported and qualified is considered usable for most decision-making purposes, including risk assessment.

UJ A combination of the "U" and "J" flags. The analyte was analyzed for but was not detected. The reported MDL is considered ‘estimated’ and has been qualified due to a minor QA/QC problem found during validation.

R the reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte qualified is critical to the project, resampling and reanalysis of the qualified result may be required.

D Result reported from diluted sample run. The original analysis of the sample required a dilution because of matrix interferences (due mainly to high levels of iron) in the sample. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered ‘estimated’ and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the method detection limit (MDL) but less than 5 times (5X) the amount found in an associated field or laboratory blank. The reported result should be considered ‘estimated’ and may be biased high due to the blank contamination. The true concentration of arsenic in the sample may be lower than the reported result. This qualifier may be combined with the ‘J’ qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t- statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

APPENDIX C

LABORATORY SUPPORTING DOCUMENTATION (BY SDG)

ATTACHMENT 1

SDG 302040 LABORATORY DOCUMENTATION

GPL
Laboratories

CASE NARRATIVE

CLIENT: PARSONS ENGINEERING SCIENCE
PROJECT/SITE: SPRING VALLEY OU-5
WORK ORDER(S): 302040
REVIEW DATE: 02/13/03

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Three soil samples were received on 02/06/2003. The samples were delivered by GPL courier. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m".

Metals

1. Three soil samples were analyzed for arsenic by EPA SW846 methods.
2. A matrix spike, duplicate, and serial dilution were performed on sample OU5-CSA-12-4934RP-2. They were within the control limits.
3. Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
4. All GPL QA/QC criteria were met.

Project Manager

Lab Director

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Spring Valley OU-5

Date Printed: February 13, 2003

GPL ID	Client ID
302040-001-001-1/1	OU5-CSA-12-4934RP-1
302040-002-002-1/1	OU5-CSA-12-4934RP-2
302040-003-003-1/1	OU5-CSA-12-4934RP-DUP118

GPL LABORATORIES, LLLP

Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

Organics:

B = Indicates that the analyte was found in the associated blank as well as in the sample

D = Indicates that the analyte was reported from a diluted analysis

E = Indicates that the concentration detected exceeded the calibration range of the instrument

J = Value is less than the reporting limits but greater than the MDL

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

Metals:

B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)

H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit

N = Spiked sample recovery not within control limits

* = Duplicate analysis not within control limits

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802

CHAIN OF CUSTODY

DATE: 2/6/03
COC #:
PAGE: 1 OF 1

GPL Project Manager:	D. Griffith	Persons Project Contact:	Tom Bachovchin	Site:	Spring Valley Expanded Sx	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	703.934.2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

| Sample Information | | | | | | Preservatives and Containers | | | | | | |

GPL Laboratories, LLLP

Figure 1
SAMPLE RECEIPT CHECKLIST

W.O. No: 302040
Client Name: Parsons ES
Date Received: 2/6/03
Time Received: 2:20
Received By: Charlie

Carrier Name: GPL
Prepared (Logged In) By: [illegible] 2/6/03 (Initials Date)
Project:
Site:
VOA Holding Blank I.D. No:

	YES	NO
Airbill/Manifest Present?		✓
No.		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?		✓
Condition: Broken / Intact-not dated or signed / Intact-dated and signed		
Usage of Tamper Evident Type		✓
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present in Shipping Container?		✓
Type of Packing		
Custody seals on Sample Bottles?		✓
Condition: Good / Broken		
Total Number of Sample Bottles 3		
Total Number of Samples 3		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks: No. of Sets		✓
Field Blanks: No. of Sets		✓
Equip. Blank: No. of Sets		✓
Field Duplicate: No. of Sets		✓
MS/MSD: No of Sets	✓	
VOA Vials Have Zero Headspace?		✓
Preservatives Added to Sample?		✓
pH Check Required?		✓
Performed By?		
Ice Present in Shipping Container?		✓

Container #	Temp.	Container #	Temp.

Project Manager Contacted?
Name: Bobbi K.
Date Contacted: 2/6/03

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A/

COMMENTS:

Checklist Completed By: Charlie
Date: 2/6/03

SOP No: F.2V11

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 302040

Lab Sample ID: S 302040-001-001-1/1 **Client ID:** OU5-CSA-12-4934RP-1

Matrix: Soil **Units:** mg/kg **Prep Date:** 2/07/03 **Prep Batch:** 59058

Weight: 1.53 **Volume:** 100 **Percent Moisture:** 36.26

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.52	2.1	3.8		1	ICPST	2/11/03	1:19

Comments: Sample Date: 02/06/03 Sample Time: 09:00 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 302040

Lab Sample ID: S 302040-002-002-1/1 **Client ID:** OU5-CSA-12-4934RP-2

Matrix: Soil **Units:** mg/kg **Prep Date:** 2/07/03 **Prep Batch:** 59058

Weight: 1.33 **Volume:** 100 **Percent Moisture:** 28.86

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.54	2.1	3.0		1	ICPST	2/11/03	1:26

Comments: Sample Date: 02/06/03 Sample Time: 09:10 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 302040

Lab Sample ID: S 302040-003-003-1/1 **Client ID:** OU5-CSA-12-4934RP-DUP118

Matrix: Soil **Units:** mg/kg **Prep Date:** 2/07/03 **Prep Batch:** 59058

Weight: 1.50 **Volume:** 100 **Percent Moisture:** 30.62

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.49	1.9	2.6		1	ICPST	2/11/03	2:21

Comments: Sample Date: 02/06/03 Sample Time: 02:00 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard **SDG:** 302040

Instrument: ICPST **Units:** ug/L

Chart Number: 030210V.ARC **Acceptable Range:** 90% - 110%

Standard Source: ~~HIGH PURITY~~ Absolute 10 2/13/03 **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 2/10/03 1:43 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	418.83	104.7								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 302040

Instrument: ICPST **Units:** ug/L

Chart Number: 030210V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV 2/10/03 1:58 PM Found	% Rec	CVCCV3 2/10/03 3:09 PM Found	% Rec	CVCCV3 2/10/03 4:48 PM Found	% Rec	CVCCV3 2/10/03 6:21 PM Found	% Rec	CVCCV4 2/10/03 7:54 PM Found	% Rec
Arsenic	189.042	1000.0	1004.97	100.5	999.83	100.0	1002.32	100.2	1013.46	101.3	1026.43	102.6

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 302040

Instrument: ICPST **Units:** ug/L

Chart Number: 030210V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV4 2/10/03 9:27 PM Found	% Rec	CVCCV4 2/10/03 10:59 PM Found	% Rec	CVCCV5 2/11/03 12:32 AM Found	% Rec	CVCCV5 2/11/03 2:05 AM Found	% Rec	CVCCV5 2/11/03 2:52 AM Found	% Rec
Arsenic	189.042	1000.0	1026.27	102.6	1038.68	103.9	1058.25	105.8	1061.59	106.2	1062.09	106.2

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** 302040

Instrument: ICPST **Units:** ug/L

Chart Number: 030210V.ARC **Acceptable Range:** 50% - 150%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	OWCHECK(PQL 2/10/03 2:12 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	20.48	102.4								

Form 2B Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results SDG: 302040

Instrument: ICPST **Units:** ug/L

Chart Number: 030210V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BHCB 2/10/03 1:50 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	5.1	U								

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 302040

Lab Sample ID: BLK59058

Matrix: Soil **Units:** mg/kg **Prep Date:** 2/07/03 **Prep Batch:** 59058

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.51	2.0	0.51	U	1	ICPST	2/11/03	1:03

Comments: Clarity(After): CLEAR Texture: FINE

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 302040

Instrument: ICPST **Units:** ug/L

Chart Number: 030210V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 2/10/03 2:05 PM		BCCCB3 2/10/03 3:17 PM		BCCCB3 2/10/03 4:56 PM		BCCCB3 2/10/03 6:29 PM		BCCCB4 2/10/03 8:02 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	5.1	U	5.1	U	5.1	U	5.1	U	5.1	U

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 302040

Instrument: ICPST **Units:** ug/L

Chart Number: 030210V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB4 2/10/03 9:34 PM		BCCCB4 2/10/03 11:07 PM		BCCCB5 2/11/03 12:40 AM		BCCCB5 2/11/03 2:13 AM		BCCCB5 2/11/03 2:59 AM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	5.1	U	5.1	U	5.1	U	5.1	U	5.1	U

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 302040

Instrument: ICPST **Units:** ug/L

Chart Number: 030210V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 2/10/03 2:44 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		2				

U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB **SDG:** 302040

Instrument: ICPST **Units:** ug/L

Chart Number: 030210V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	IBICSABI 2/10/03 2:52 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	103.6	103.6								

5.04.5

NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results SDG: 302040

Spike Sample ID: SP302040-002-002-1/1

Original Sample ID: S 302040-002-002-1/1 **Client ID:** OU5-CSA-12-4934RP-2

Matrix: Soil **Units:** mg/kg **Prep Date:** 2/07/03 **Prep Batch:** 59058

Weight: 1.57 **Volume:** 100 **Percent Moisture:** 28.86

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	3.0		11.2		8.9534	92.2	1	1	ICPST	2/11/03	1:26	2/11/03	1:42

Comments: Sample Date: 02/06/03 Sample Time: 09:10 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits
E Serial dilution percent difference not within limits
U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report SDG: 302040

Duplicate Sample ID: D 302040-002-002-1/1

Original Sample ID: S 302040-002-002-1/1 **Client ID:** OU5-CSA-12-4934RP-2

Matrix: Soil **Units:** mg/kg **Prep Date:** 2/07/03 **Prep Batch:** 59058

Weight: 1.40 **Volume:** 100 **Percent Moisture:** 28.86

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	3.0		2.8		4.5	1	1	ICPST	2/11/03	1:26	2/11/03	1:34

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 6 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 302040

Lab Sample ID: BKS59058

Matrix: Soil **Units:** mg/kg **Prep Date:** 2/07/03 **Prep Batch:** 59058

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	9.7	96.7		80-120	1	ICPST	2/11/03	1:11

Comments: Clarity(After): CLEAR

NC Percent recovery was not calculated
U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 302040

Serial Dilution Sample ID: SE302040-002-002-1/1

Original Sample ID: S 302040-002-002-1/1 **Client ID:** OU5-CSA-12-4934RP-2

Matrix: Soil **Units:** mg/kg **Prep Date:** 2/07/03 **Prep Batch:** 59058

Weight: 1.33 **Volume:** 100 **Percent Moisture:** 28.86

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	3.0		3.2	B	6.7	1	5	ICPST	2/11/03	1:26	2/11/03	1:57

Comments: Sample Date: 02/06/03 Sample Time: 09:10 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): C

5.04.5

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

GPL Laboratories, LLLP | **ICP ANALYSIS LOG** | *Document Control No: GP_M_104*

Instrument ID: Trace	Inst. Method: TRACE V8	Nebulizer:
Profile: 0.0124	Intensity: 16244	At Setting: 303

Analytical Batch No: 030210√

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Dil.	Comments
302042	TETRATECH	59056	152	S	2.7.03	3050		
MDL			150	↓	2.6.03	↓		BLK(150): S0
301101	ABSOLUTE					200.7		
301103	↓					↓		
301105	APG				1.31.03	6010		
302036	OHIO EPA	59060	154	W	2.7.03	3010		
302020	↓	↓	↓	↓	↓	↓		
302014	ENV. PROPERTIES							
302041	PARSONS	↓	↓	↓		↓		
302040	↓	59058	153	S	↓	3050		
		2.11.03						

Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 19542
S0	057-127-10	ICV	21353	Samples:
S1	21350	CCV	21673	302042-003-037-1/2
S2	21351	ICSA	21674	302036-001-009-1/1
S3	21582	ICSAB	21675	302040-002-002-1/1
S4	-	CRI	21676	
S5	-	Low Ck	21360	
Ints	21677	LR	21427	

Analyst: Date: 2.11.03 Reviewed: Date: 2/11/03

Metals Preparation & Sample Description Log

Date 02-07-08 Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 105 153

Analyst: MSI Comments: MOD BLOCK DIGESTION (Soil)

Reviewed by: JD Date: 2/11/08 Spike Witness: KC Prep. Seq: 59058

	GPL Work Order No.	Sample	Frac	SIZE mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	153		1.00	100	S				Clear	-
2	BKS	153		1.00	↓					↓	-
3	302040	001	-001	1.53		Soil	Brown	Yellow	Medium		-
4		002	-002	1.33		↓	↓	↓	↓		
5		DUP	↓	1.40							
6		SPK	↓	1.57							
7	↓	003	-003	1.50	↓	↓	↓	↓	↓	↓	↓
8											
9											
10											
11											
12											
13											
14											
15											
16						MW					
17											
18											
19											
20										R	
21											
22											
23											
24											

02-07-08

LCS ID / Amt. Added (ml, g): 0.2 ml (17654, 17656, 17657)	HNO3(1+1) ID: GP-057-145-02
Spiking ID / Amt Added (ml): 0.2 ml (17654, 17656, 17657)	HNO3(conc) ID: GP-057-006-14
	HCl(conc) ID: GP-057-006-13
Temperature, C: 94°C	HCl(1+1) ID: -
	Peroxide ID: GP-057-006-12

GPL Laboratories, LLLP

Document Control No: GP_W_208

PERCENT SOLIDS DETERMINATION LOG

Method Title: %Solids
Method Reference: OLMO4.2 / ASTM D2216

Analyst: RS
Reviewed By / Date: _____

Analytical Balance ID: Mettler AE 240
Drying Oven Temp Maintained at 103-105C:
Time In (Oven): 6:30PM Temp 103C Date: 2-11-03
Time Out (Oven): 9:30AM Temp 104C Date: 2-12-03
Dessicator Temp: 22C Dessicator % Humidity (<20%): 12%

#59000

W.O.#	Frac.	Client ID	Weight of Dish	Weight of wet Sample + Dish	Weight of dry Sample +Dish	DUP RPD <15%
302040	001	OVS-CIA-A-493APP1	1.3155	10.0343	7.0797	
	002	OVS-CIA-B-493APP1	1.3222	10.5530	7.8890	1.8%
dup ↓	dup ↓	dup ↓	1.3090	10.5630	7.0793	
	003	OVS-CIA-A-493APP2	1.3114	10.8762	7.9472	
302053	001	TCRA-AV-(130,200) DUP11	1.3143	10.3632	8.4160	
	002	TCRA-AV-(140,270)	1.3133	10.6261	8.2134	
	003	TCRA-AV-(160,270)	1.3163	10.7690	8.6320	
	004	TCRA-AV-(80,150)	1.3102	10.1490	8.5868	
	005	TCRA-AV-(70,180)	1.3108	10.0890	8.3120	
	006	TCRA-AV-(420,230)	1.3102	10.0224	8.1937	
	007	TCRA-AV-(430,260)	1.3104	10.9220	8.8350	
	008	TCRA-AV-(430,240)	1.3164	10.1090	8.0180	
	009	TCRA-AV-(440,250)	1.3160	10.9740	8.2475	
	010	TCRA-AV-(430,250)	1.3140	10.6595	9.2906	
	011	TCRA-AV-(330,210) DUP11	1.3115	10.5470	9.6340	1.3%
dup ↓	dup ↓	dup ↓	1.3113	10.5920	9.3834	
	012	TCRA-AV-(350,210)	1.3214	10.0680	8.9910	
	013	TCRA-AV-(370,210)	1.3180	10.1940	9.0940	
	014	TCRA-AV-(350,190)	1.3187	10.6717	9.4160	
	015	TCRA-AV-(370,190)	1.3163	10.4140	9.4745	
	016	TCRA-AV-(370,180)	1.3155	10.3310	8.8810	
	017	TCRA-AV-(350,160)	1.3113	10.1943	8.7430	
	018	TCRA-AV-(340,190)	1.3160	10.8970	9.0692	
	019	TCRA-AV-(330,200)	1.3142	10.6760	9.2625	
	020	TCRA-AV-(DUP51)	1.3190	10.7950	9.4990	
		RS 2-11-03				

Comments: _____

ATTACHMENT 2

SDG 302041 LABORATORY DOCUMENTATION

GPL

Laboratories

CASE NARRATIVE

CLIENT: PARSONS ENGINEERING SCIENCE
PROJECT/SITE: SPRING VALLEY OU-5
WORK ORDER(S): 302041
REVIEW DATE: 2/19/03

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

One water sample was received on 02/06/2003. The sample was delivered by GPL courier. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m".

Metals

1. One water sample was analyzed for arsenic by EPA SW846 methods.
2. A matrix spike, duplicate, and serial dilution were performed on the batch sample 302036-001. They were within the control limits.
3. Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
4. All GPL QA/QC criteria were met.

Project Manager

Lab Director

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Spring Valley OU-5

Date Printed: February 19, 2003

GPL ID	Client ID
302041-001-001-1/1	OU5-CSA-12-4934RP-EB118

GPL LABORATORIES, LLLP

Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

Organics:

B = Indicates that the analyte was found in the associated blank as well as in the sample

D = Indicates that the analyte was reported from a diluted analysis

E = Indicates that the concentration detected exceeded the calibration range of the instrument

J = Value is less than the reporting limits but greater than the MDL

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

Metals:

B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)

H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit

N = Spiked sample recovery not within control limits

* = Duplicate analysis not within control limits

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802

CHAIN OF CUSTODY

DATE: 2/6/03

COC #:

PAGE: 1 OF 1

GPL Project Manager:	D. Griffith	Persons Project Contact:	Tom Bachowchin	Site:	Spring Valley Expanded Sx	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	703.934.2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Preservatives and Containers: 4 oz.	Preservatives and Containers: 500mL plastic	Methods for Analysis: Arsenic (SW846 3050B/6010B)	Methods for Analysis: Arsenic (SW846 3050B/6010B)	Methods for Analysis	RUSH	QC (MS/MSD)	TOTAL BOTTLES
1	OU5-CSA-12-4934RP-1	2/6/03	0900	SOIL	EC, JT			X					1
2	OU5-CSA-12-4934RP-2	2/6/03	0910	SOIL	EC, JT			X		**MS/MSD118**		X	1
3	OU5-CSA-12-4934RP-DUP118	2/6/03	1400	SOIL	EC, JT			X					1
4	OU5-CSA-12-4934RP-EB118	2/6/03	1000	AQ	EC, JT				X				1

Relinquished By: ERIC CHENG	Date: 2/6/03	Time: 1400	For Lab Use
Received By:	Date:	Time:	GPL WORK ORDER #: 30204/1
Relinquished By:	Date:	Time:	
Received By:	Date:	Time:	
Received By (LAB): Marlio	Date: 2/6/03	Time: 2120	

GPL Laboratories, LLLP

Sample Preservation Check Documentation Form

Work Order: 302041

Parameter:	Metals	Phenol	TPH O&G	Classical Parameters	Cyanide	Sulfide	Radiology	Other
Preservative:	HN03	H2SO4	H2SO4	H2SO4	NaOH	NaOH	H2SO4	Preservations
pH Value	<2	<2	<2	<2	>12	>9	<2	
Client ID								
005-KSA-12-4934RP.EB118	<2							

Sample Preservation Check Performed By: Chuw Date: 2/6/03

GPL Laboratories, LLLP

Figure 1
SAMPLE RECEIPT CHECKLIST

W.O. No: 302041
Client Name: Parsons ES
Date Received: 2/6/03
Time Received: 2:20
Received By: Charlie

Carrier Name: GPL
Prepared (Logged In) By: _____ Initials 2/6/03 Date
Project: _____
Site: _____
VOA Holding Blank I.D. No: _____

	YES	NO
Airbill/Manifest Present?		✓
No. _____		
Shipping Container In Good Condition?	✓	
Custody Seals Present on Shipping Container?		✓
Condition: Broken _____ Intact-not dated or signed _____ Intact-dated and signed _____		
Usage of Tamper Evident Type		✓
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present In Shipping Container?		✓
Type of Packing _____		
Custody seals on Sample Bottles?		✓
Condition: Good _____ Broken _____		
Total Number of Sample Bottles 1		
Total Number of Samples 1		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks: No. of Sets _____		✓
Field Blanks: No. of Sets _____		✓
Equip. Blank: No. of Sets _____		✓
Field Duplicate: No. of Sets _____		✓
MS/MSD: No of Sets _____		
VOA Vials Have Zero Headspace?		✓
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By? _____	✓	
Ice Present In Shipping Container?		✓

Container #	Temp.	Container #	Temp.

Project Manager Contacted?
Name: Bobbie
Date Contacted: 2/6/03

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A/

COMMENTS: _____

Checklist Completed By: Charlie
Date: 2/6/03

SOP No: F.2V11

GPL Laboratories, LLLP

TOTAL METALS

-1-

INORGANIC ANALYSIS DATA SHEET

SAMPLE NO.

CU5-CSA-12-4934RP-EB118

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Matrix (soil/water): WATER Lab Sample ID: 302041-001-001-1/

Level (low/med): LOW Date Received:

Concentration Units (ug/L or mg/kg dry weight): µG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.8	U		P

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

GPL Laboratories, LLLP

TOTAL METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Initial Calibration Source: ~~HIGH PURITY~~ Absolute 10 2/19/08

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					M
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Arsenic	400.0	418.83	104.7	1000.0	1004.97	100.5	999.83	100.0	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Initial Calibration Source:

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				1000.0	1002.32	100.2	1013.46	101.3	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Initial Calibration Source:

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				1000.0	1026.43	102.6	1026.27	102.6	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Initial Calibration Source:

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				1000.0	1038.68	103.9	1058.25	105.8	P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL METALS

-2A-

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Initial Calibration Source:

Continuing Calibration Source: HIGH PURITY

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	M
Arsenic				1000.0	1061.59	106.2			P

(1) Control Limits: Mercury 80-120; Other Metals 90-110; Cyanide 85-115

TOTAL METALS
-2B-
CRDL STANDARD FOR AA AND ICP

Contract:

Lab Code: Case No.: SAS No.: SDG No.: 302041

AA CRDL Standard Source:

ICP CRDL Standard Source: HIGH PURITY

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
				Initial			Final	
	True	Found	%R	True	Found	%R	Found	%R
Arsenic				20.0	20.48	102.4		

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic	3.8	U	3.8	U	3.8	U	3.8	U	3.800	U	P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C		M
Arsenic			3.8	U	3.8	U	3.8	U				P

TOTAL METALS

-3-

BLANKS

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Preparation Blank	C	M
Arsenic			3.8	U	3.8	U	3.8	U			P

TOTAL METALS
- 4 -
ICP INTERFERENCE CHECK SAMPLE

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

ICP ID Number: TJA61 ICP ICS Source: HIGH PURITY

Concentration Units): ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Arsenic		100	2	103.6	103.6			

TOTAL METALS
-5A-
SPIKE SAMPLE RECOVERY

SAMPLE NO.

302036-001-009-1/1S

Contract:

Lab Code: Case No.: SAS SDG NO.: 302041

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR)	C	Sample Result (SR)	C	Spike Added (SA)	%R	Q	M
Arsenic	75 - 125	54.3905		3.8000	U	50.00	108.8		P

Comments:

TOTAL METALS

-6-

DUPLICATES

SAMPLE NO.

302036-001-009-1/1D

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Matrix (soil/water): WATER Level (low/med): LOW

% Solids for Sample: 0.0 % Solids for Duplicate:

Concentration Units (ug/L or mg/kg dry weight): µG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Arsenic		3.8000	U	3.8000	U			P

TOTAL METALS

-7-

LABORATORY CONTROL SAMPLE

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Solid LCS Source:

Aqueous LCS Source: HIGH PURITY

Analyte	Aqueous (ug/L)			Solid (mg/kg)				
	True	Found	%R	True	Found	C	Limits	%R
Arsenic	50.0	51.26	102.5					

GPL Laboratories, LLLP

TOTAL METALS

-9-

ICP SERIAL DILUTIONS

SAMPLE NO.

302036-001-009-1/1L

Contract:

Lab Code: Case No.: SAS No.: SDG NO.: 302041

Matrix (soil/water): WATER Level (low/med): LOW

Concentration Units: ug/L

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Arsenic	3.80	U	19.00	U			P

GPL Laboratories, LLLP **ICP ANALYSIS LOG** *Document Control No: GP_M_104*

Instrument ID: Trace	Inst. Method: TRACE V8	Nebulizer:
Profile: 0.0124	Intensity: 16244	At Setting: 303

Analytical Batch No: 030210V

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Dil.	Comments
302042	TETRATECH	EPA5B	152	S	2-7-03	3050		
MDL			150	↓	2-6-03	↓		BLK(150): Sa
301101	ABSOLUTE					200.7		
301103	↓					↓		
301105	APEX				1-31-03	6010		
302036	OHIO EPA	EPA5B	154	W	2-7-03	3010		
302020	↓	↓	↓	↓	↓	↓		
302014	ENV. PARTNERS							
302041	PARSONS	↓	↓	↓	↓	↓		
302040	↓	EPA5B	153	S	↓	3050		
		2-11-03						

Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 19542
S0	057-127-10	ICV	21353	Samples:
S1	21350	CCV	21673	302042-003-037-1/2
S2	21351	ICSA	21674	302036-001-009-1/1
S3	21582	ICSAB	21675	302040-002-002-1/1
S4	-	CRI	21676	
S5	-	Low Ck	21360	
Inis	21677	LR	21427	

Analyst: Date: 2.11.03 Reviewed: Date: 2/11/03

GPL Laboratories, LLLP | **ICP ANALYSIS LOG** | *Document Control No: GP_M_104*

GPL - Maryland Laboratory — **ICPST Analysis Log** — **Data File: 030210V.ARC**

Seq	Sample Name	Dil	Date	Time
1	STD0	1	2/10/03	12:16
2	STD1	1	2/10/03	12:24
3	STD2	1	2/10/03	12:31
4	STD3	1	2/10/03	12:39
5	MCV	1	2/10/03	12:43
6	MCB	1	2/10/03	12:50
7	CVCCV	1	2/10/03	12:58
8	CCCB	1	2/10/03	13:05
	CLOWCHECK(PDL)	1	2/10/03	14:12
10	CRCRI	1	2/10/03	14:19
11	PE.ICPPM	1	2/10/03	14:26
12	MCSA	1	2/10/03	14:34
13	MCSAB	1	2/10/03	14:41
14	LR	1	2/10/03	15:01
15	CVCCV3	1	2/10/03	15:08
16	CCCB3	1	2/10/03	15:17
17	LK0808	1	2/10/03	15:24
18	K0808	1	2/10/03	15:32
19	302042-001-003-1/1	1	2/10/03	15:39
20	302042-002-004-1/1	1	2/10/03	15:47
21	302042-003-007-1/2	1	2/10/03	15:55
22	302042-003-007-1/2	1	2/10/03	16:16
23	P302042-005-007-1/1	1	2/10/03	16:16
24	302042-005-007-1/1	1	2/10/03	16:32
25	302042-004-018-1/1	1	2/10/03	16:47
26	CVCCV3	1	2/10/03	16:48
27	CCCB3	1	2/10/03	16:55
28	302042-005-010-1/1	1	2/10/03	17:04
29	302042-005-020-1/1	1	2/10/03	17:12
30	302042-007-021-1/1	1	2/10/03	17:19
31	302042-008-022-1/1	1	2/10/03	17:27
32	302042-008-023-1/1	1	2/10/03	17:35
33	302042-010-024-1/1	1	2/10/03	17:43
34	302042-011-025-1/1	1	2/10/03	17:50
35	302042-012-026-1/1	1	2/10/03	17:58
36	302042-013-027-1/1	1	2/10/03	18:06
37	302042-014-028-1/1	1	2/10/03	18:13
38	CVCCV3	1	2/10/03	18:21
39	CCCB3	1	2/10/03	18:28
40	302042-015-029-1/1	1	2/10/03	18:37
41	302042-016-030-1/1	1	2/10/03	18:44
42	302042-017-001-1/1	1	2/10/03	18:52
43	302042-018-002-1/1	1	2/10/03	19:00
44	MDL(0)-1	1	2/10/03	19:07
45	MDL(0)-2	1	2/10/03	19:15
46	MDL(0)-3	1	2/10/03	19:23
47	MDL(0)-4	1	2/10/03	19:30
48	MDL(0)-5	1	2/10/03	19:38
49	CVCCV4	1	2/10/03	19:46
50	CCCB4	1	2/10/03	19:53
51	MDL(0)-6	1	2/10/03	20:01
52	MDL(0)-7	1	2/10/03	20:09
53	301109-007-016-1/1	1	2/10/03	20:17
54	301109-008-001-1/1	1	2/10/03	20:25
55	301109-010-010-1/1	1	2/10/03	20:33
56	301109-011-011-1/1	1	2/10/03	20:40
57	301109-012-012-1/1	1	2/10/03	20:48
58	CRCRI	1	2/10/03	20:56
59	302042-007-021-1/1	1	2/10/03	21:03
60	MCSA	1	2/10/03	21:11
61	MCSAB	1	2/10/03	21:19
62	CVCCV4	1	2/10/03	21:27
63	CCCB4	1	2/10/03	21:34
64	301103-013-013-1/1	1	2/10/03	21:42
65	301103-007-007-1/1	1	2/10/03	21:50
66	LK0808D	1	2/10/03	21:58
67	K0808D	1	2/10/03	22:05
68	302042-001-008-1/1	1	2/10/03	22:13
69	302042-001-009-1/1	1	2/10/03	22:21
70	302042-001-009-1/1	1	2/10/03	22:28
71	P302036-001-009-1/	1	2/10/03	22:36
72	E302036-001-009-1/	1	2/10/03	22:44
73	302035-003-010-1/1	1	2/10/03	22:52
74	302042-001-001-1/1	1	2/10/03	23:00
75	302042-001-002-1/1	1	2/10/03	23:07
76	302042-001-003-1/1	1	2/10/03	23:15
77	302020-001-003-1/1	1	2/10/03	23:23
78	302014-001-001-1/1	1	2/10/03	23:30
79	302014-002-002-1/1	1	2/10/03	23:38
80	302014-003-003-1/1	1	2/10/03	23:46
81	302014-004-004-1/1	1	2/10/03	23:54
82	302014-005-005-1/1	1	2/11/03	0:01
83	302014-006-006-1/1	1	2/11/03	0:09
84	302014-007-007-1/1	1	2/11/03	0:17
85	302014-008-008-1/1	1	2/11/03	0:25
86	CVCCV5	1	2/11/03	0:32
87	CCCB5	1	2/11/03	0:40
88	302014-009-009-1/1	1	2/11/03	0:48
89	302041-001-001-1/1	1	2/11/03	0:55
90	LK0808	1	2/11/03	1:03
91	K0808	1	2/11/03	1:11
92	302040-001-001-1/1	1	2/11/03	1:19
93	302040-002-002-1/1	1	2/11/03	1:26
94	302040-002-005-1/1	1	2/11/03	1:34
95	P302040-002-002-1/	1	2/11/03	1:42
96	E302040-002-002-1/	1	2/11/03	1:50
97	E302040-003-003-1/	1	2/11/03	1:57
98	CVCCV6	1	2/11/03	2:05
99	CCCB6	1	2/11/03	2:13
100	302040-003-003-1/1	1	2/11/03	2:21
101	CRCRI	1	2/11/03	2:28
102	MCSA	1	2/11/03	2:36
103	MCSAB	1	2/11/03	2:44
104	CVCCV5	1	2/11/03	2:52
105	CCCB6	1	2/11/03	2:59

Analyst Signature: _____ Date: 2-11-03

Analyst Signature: _____ Date: _____

Sample Dilutions:

302020-001-003-1/1: 5x Fe, Ca, K, 10x Fe, Na

Metals Preparation & Sample Description Log

Date: 02-07-03 Prep: 200.7 / 3005A / 3020A / 3050B / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 105154

Analyst: MSI Comments: HOT PLATE DIGESTION (Water)

Reviewed by: [illegible] Date: 2/11/03 Spike Witness: KC Prep. Seq: 79060

	GPL Work Order No.	Sample	Frac	SIZE (ml) (g)	Final Vol. (ml)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	15H		100	100	Water	Colorless	Colorless	clear	clear	~7
2	BKS	15H		"	"	"	"	"	"	"	"
3	302036	001	-009-1/2								
4		DUP									
5		SPK									
6		002	-010-1/2								
7		003	-011-1/2								
8	302020	001	-003-1/2								
9	302014	001	-001-1/2								
10		002	-002-1/2								
11		003	-003-1/2								
12		004	-004-1/2								
13		005	-005-1/2								
14		006	-006-1/2								
15		007	-007-1/2								
16		008	-008-1/2								
17		009	-009-1/2								
18	302041	001	-001-1/2								
19											
20											
21						MSI		02-0702			
22											
23											
24											

LCS ID / Amt. Added (ml, g): 0.1ml (17654, 17656, 17657)	HNO3(1+1) ID: —
Spiking ID / Amt Added (ml): 0.1ml (17654, 17656, 17657)	HNO3(conc) ID: GP-057-006-14
	HCl(conc) ID: —
Temperature, C: 94°C	HCl(1+1) ID: GP-057-140-07
	Peroxide ID: —

ATTACHMENT 3

SDG 303081 LABORATORY DOCUMENTATION

GPL
Laboratories

CASE NARRATIVE

CLIENT: PARSONS ENGINEERING SCIENCE
PROJECT/SITE: SPRING VALLEY OU-5
WORK ORDER(S): 303081
REVIEW DATE: 3/18/03

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Two soil samples were received on 03/13/2003. The samples were delivered by GPL courier. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m".

Metals

1. Two soil samples were analyzed for arsenic by EPA SW846 methods.
2. A matrix spike, duplicate, and serial dilution were performed on the batch sample 303080-002. They were within the control limits.
3. Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
4. All GPL QA/QC criteria were met.

Project Manager

Lab Director

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Spring Valley OU-5

Date Printed: March 18, 2003

GPL ID	Client ID
303081-001-001-1/1	OU5-CSA-5-4441VP1
303081-002-002-1/1	OU5-CSA-5-4441VP2

GPL LABORATORIES, LLLP

Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

Organics:

B = Indicates that the analyte was found in the associated blank as well as in the sample

D = Indicates that the analyte was reported from a diluted analysis

E = Indicates that the concentration detected exceeded the calibration range of the instrument

J = Value is less than the reporting limits but greater than the MDL

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

Metals:

B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)

H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit

N = Spiked sample recovery not within control limits

* = Duplicate analysis not within control limits

GPL LABORATORIES, LLLP

202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802
Fax (301) 840-1209

Contract #/Billing Reference: 740144-30020

1 of 1 Pgs.

Project: Spring Valley OU5
Client: PARSONS
Send Results To: Tom Bachorchin
Address: 10521 Rosehaven St.
Fairfax VA 22030
Phone: 703 591 7575

Turnaround Time: Normal
# of Containers: 2 (1 x 40ml)
Container Type: 40z
Preservative Used: 4°C
Type of Analysis: Arsenic SW846 1000/1005 DATE Sampled
Lab Cooler No.

	Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	Arsenic SW846 1000/1005 DATE Sampled	CLIENT COMMENTS
OU5-	CSA-5-4441	VP-1	1615	Soil	EC	X 3/13/03	
OU5-	CSA-5-4441	VP-2	1010	Soil	TP	X 3/13/03	No-Mail TAT

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
	1530 3/17/03	3-17-03 1630		3/18/03	17:25
Relinquished By:	Date/Time	Received By:	Date/Time / Shipper:	Airbill No.:	
Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp: 3.1	

G.P. W.O. 303081

GPL Laboratories, LLLP

Figure 1
SAMPLE RECEIPT CHECKLIST

W.O. No: 303091
Client Name: Parsons ES
Date Received: 3/13/03
Time Received: 17.25
Received By: Bill

Carrier Name: GPL
Prepared (Logged In) By: [illegible] 3/14/03 (Initials Date)
Project:
Site:
VOA Holding Blank I.D. No:

	YES	NO
Airbill/Manifest Present?		✓
No.		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?		✓
Condition: Broken		
Intact-not dated or signed		
Intact-dated and signed		
Usage of Tamper Evident Type		✓
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present in Shipping Container?		✓
Type of Packing		
Custody seals on Sample Bottles?		✓
Condition: Good		
Broken		
Total Number of Sample Bottles 2		
Total Number of Samples 2		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks: No. of Sets		✓
Field Blanks: No. of Sets		✓
Equip. Blank: No. of Sets		✓
Field Duplicate: No. of Sets		✓
MS/MSD: No of Sets		✓
VOA Vials Have Zero Headspace?		✓
Preservatives Added to Sample?		✓
pH Check Required?		✓
Performed By?		✓
Ice Present in Shipping Container?	✓	

Container #	Temp.	Container #	Temp.
✓	3.1		

Project Manager Contacted?
Name: Debra
Date Contacted: 3/14/03

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A/

COMMENTS:

Checklist Completed By: [signature]
Date: 3/14/03

SOP No: F.2V11

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 303081

Lab Sample ID: S 303081-001-001-1/1 **Client ID:** OU5-CSA-5-4441VP1

Matrix: Soil **Units:** mg/kg **Prep Date:** 3/14/03 **Prep Batch:** 59423

Weight: 1.44 **Volume:** 100 **Percent Moisture:** 23.26

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.28	1.8	3.9		1	ICPST	3/14/03	23:38

Comments: Sample Date: 03/14/03 Sample Time: 04:15 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 303081

Lab Sample ID: S 303081-002-002-1/1 **Client ID:** OU5-CSA-5-4441VP2

Matrix: Soil **Units:** mg/kg **Prep Date:** 3/14/03 **Prep Batch:** 59423

Weight: 1.33 **Volume:** 100 **Percent Moisture:** 23.40

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	2.0	4.7		1	ICPST	3/14/03	23:44

Comments: Sample Date: 03/14/03 Sample Time: 04:20 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard **SDG:** 303081

Instrument: ICPST **Units:** ug/L

Chart Number: 030314V.ARC **Acceptable Range:** 90% - 110%

Standard Source: ABSOLUTE **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 3/14/03 1:58 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	422.35	**105.6**								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 303081

Instrument: ICPST **Units:** ug/L

Chart Number: 030314V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 3/14/03 2:19 PM		BCCCB3 3/14/03 3:11 PM		BCCCB3 3/14/03 4:40 PM		BCCCB3 3/14/03 5:59 PM		BCCCB4 3/14/03 7:19 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U

U Result is less than the IDL.
B Result is between IDL and RL

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 303081

Instrument: ICPST **Units:** ug/L

Chart Number: 030314V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB4 3/14/03 9:58 PM Found	Q	BCCCB5 3/14/03 11:18 PM Found	Q	BCCCB5 3/15/03 12:18 AM Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	3.1	U	3.1	U	3.1	U				

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** 303081

Instrument: ICPST **Units:** ug/L

Chart Number: 030314V.ARC **Acceptable Range:** 50% - 150%

Standard Source: HIGH PURITY **Standard ID:** REPORTING LIMIT

Element	WL/ Mass	True Conc	EPORTING LIMI 3/14/03 2:27 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	20.34	101.7								

Form 2B Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** 303081

Instrument: ICPST **Units:** ug/L

Chart Number: 030314V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BIICB 3/14/03 2:05 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	3.1	U								

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 303081

Lab Sample ID: BLK59423

Matrix: Soil **Units:** mg/kg **Prep Date:** 3/14/03 **Prep Batch:** 59423

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.31	2.0	0.31	U	1	ICPST	3/14/03	20:58

Comments: Clarity(After): CLEAR

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 303081

Instrument: ICPST **Units:** ug/L

Chart Number: 030314V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 3/14/03 2:19 PM		BCCCB3 3/14/03 3:11 PM		BCCCB3 3/14/03 4:40 PM		BCCCB3 3/14/03 5:59 PM		BCCCB4 3/14/03 7:19 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	3.1	U	3.1	U	3.1	U	3.1	U	3.1	U

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 303081

Instrument: ICPST **Units:** ug/L

Chart Number: 030314V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB4 3/14/03 9:58 PM Found	Q	BCCCB5 3/14/03 11:18 PM Found	Q	BCCCB5 3/15/03 12:18 AM Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	3.1	U	3.1	U	3.1	U				

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 303081

Instrument: ICPST **Units:** ug/L

Chart Number: 030314V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 3/14/03 2:41 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		-2				

U Result is less than the IDL

B Result is between IDL and RL

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB **SDG:** 303081

Instrument: ICPST **Units:** ug/L

Chart Number: 030314V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	IBICSABI 3/14/03 2:48 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	102.1	102.1								

5.04.5

NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 303081

Spike Sample ID: SP303080-002-002-1/1

Original Sample ID: S 303080-002-002-1/1 **Client ID:** TCRA-AU-(180,100)-6

Matrix: Soil **Units:** mg/kg **Prep Date:** 3/14/03 **Prep Batch:** 59423

Weight: 1.38 **Volume:** 100 **Percent Moisture:** 17.69

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	4.3		12.2		8.8038	89.9	1	1	ICPST	3/14/03	21:18	3/14/03	21:31

Comments: Sample Date: 03/13/03 Sample Time: 09:25 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits
E Serial dilution percent difference not within limits
U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 303081

Duplicate Sample ID: D 303080-002-002-1/1

Original Sample ID: S 303080-002-002-1/1 **Client ID:** TCRA-AU-(180,100)-6

Matrix: Soil **Units:** mg/kg **Prep Date:** 3/14/03 **Prep Batch:** 59423

Weight: 1.30 **Volume:** 100 **Percent Moisture:** 17.69

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	4.3		4.1		4.7	1	1	ICPST	3/14/03	21:18	3/14/03	21:25

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 303081

Lab Sample ID: BKS59423

Matrix: Soil **Units:** mg/kg **Prep Date:** 3/14/03 **Prep Batch:** 59423

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	9.6	95.7		80-120	1	ICPST	3/14/03	21:05

Comments: Clarity(After): CLEAR

5.04.5

NC Percent recovery was not calculated
U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 303081

Serial Dilution Sample ID: SE303080-002-002-1/1

Original Sample ID: S 303080-002-002-1/1 **Client ID:** TCRA-AU-(180,100)-6

Matrix: Soil **Units:** mg/kg **Prep Date:** 3/14/03 **Prep Batch:** 59423

Weight: 1.25 **Volume:** 100 **Percent Moisture:** 17.69

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	4.3		4.2	B	1.5	1	5	ICPST	3/14/03	21:18	3/14/03	21:45

Comments: Sample Date: 03/13/03 Sample Time: 09:25 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): C

5.04.5

B Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

ICP ANALYSIS LOG

Document Control No: GP_M_104

Instrument ID: Trace Inst. Method: TRACEV6 Nebulizer:
Profile: -0.0139 Intensity: 13669 At Setting: 299

Analytical Batch No: 030314

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Dil.	Comments
302127	CH2MHILL	59237	188	W	2-28-03	ILM04.1	2	012
303049	DAMES&MOORE	59384	007	↓	3-12-03	3010	5	009
303048	CH2MHILL	↓	↓	↓	↓	↓	5	009,010
303080	PARSONS	59423	014	S	3-14-03	3050		
303076	SWL	↓	↓	↓	↓	↓		
302081	PARSONS	↓	↓	↓	↓	↓		

3-17-03

Source Solution Numbers

Stds.	Number	Stds.	Number
S0	067-148-02	ICV	21363
S1	21360	CCV	22114
S2	21963	ICSA	22166
S3	21964	ICSAB	21967
S4	-	CRI	21968
S5	-	Low Ck	22023
Ints	21965	LR	22165

Post Digestion Spikes

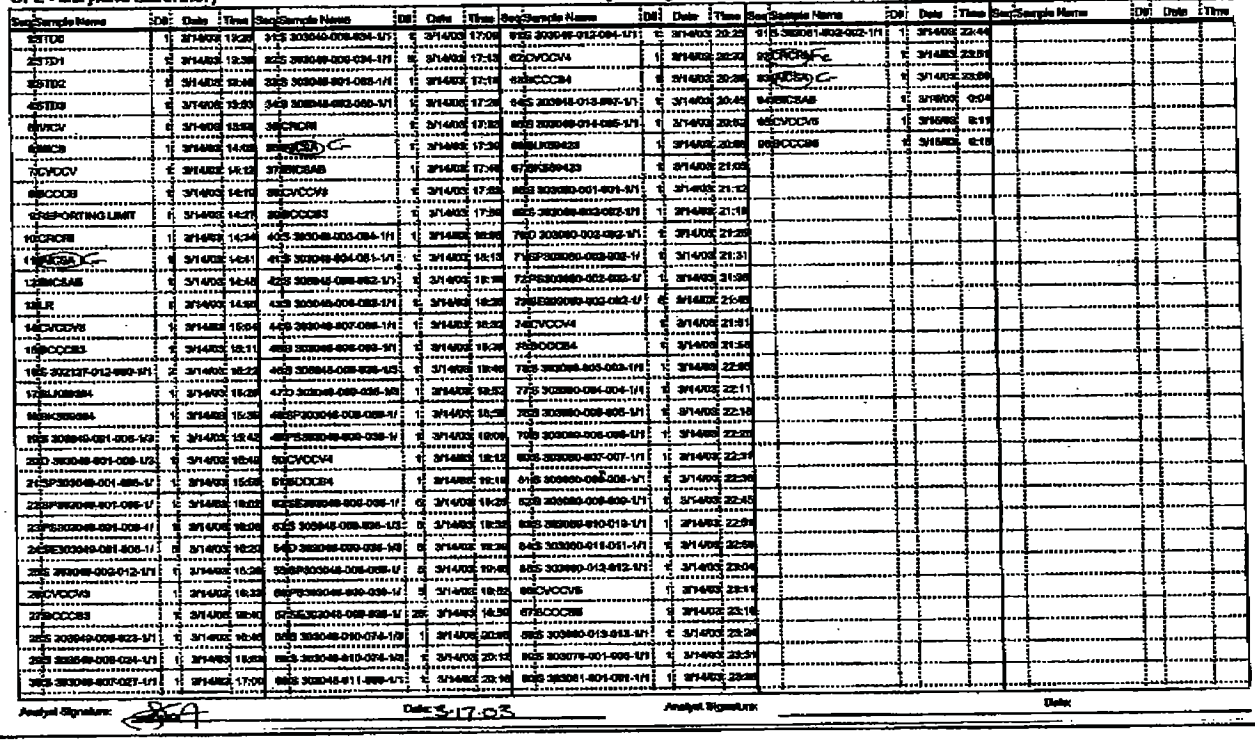
Spike 99 mls of sample with 0.1 mls of 19542

Samples:

303049-001-006-1/3
303048-009-038-1/3
303080-002-002-1/1

Analyst: [signature] Date: 3-17-03 Reviewed: [signature] Date: 3/17/03

GPL - Maryland Laboratory — ICPST Analysis Log — Data File: 030314V.ARC



Analyst Signature: [signature] Date: 3-17-03 Analyst Signature: Date:

Sample Dilutions:

GPL Laboratories, LLLP *Document Control No: GP_M_111*

Metals Preparation & Sample Description Log

Date: 3-14-03 Prep: 200.7 / 3005A / 3020A / 3050B / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 105 014

Analyst: HSI, Bill Comments: MOD BLOCK DIGESTION (Soil)

Reviewed by: [illegible] Date: 3/18/03 Spike Witness: WDS Prep. Seq: 59423

	GPL Work Order No.	Sample	Frac	SIZE mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	014		1:00	100	S				clear	
2	BKS	014		1:00							
3	303080	001	-001-½	1:30		Soil	Brown	Yellow	Medium		
4		002	-002-½	1:25							
5		DUP		1:30							
6		SPK		1:38							
7		003	-003-½	1:54							
8		004	-004-½	1:44			Red				
9		005	-005-½	1:47			Brown				
10		006	-006-½	1:31							
11		007	-007-½	1:36							
12		008	-008-½	1:37							
13		009	-009-½	1:27							
14		010	-010-½	1:35							
15		011	-011-½	1:36							
16		012	-012-½	1:37							
17		013	-013-½	1:41							
18	303076	001	-006-½	1:33							
19	303081	001	-001-½	1:44							
20		002	-002-½	1:33							
21											
22											
23											
24											

03-14-03

Bill

LCS ID / Amt. Added (ml, g): 0.9 ml (17654, 17656, 17657)	HNO3(1+1) ID: GP-057-145-04
Spiking ID / Amt Added (ml): 0.9 ml (17654, 17656, 17657)	HNO3(conc) ID: GP-057-006-14
	HCl(conc) ID: GP-057-006-09
Temperature, C: 94°C	HCl(1+1) ID: —
	Peroxide ID: GP-057-006-12

GPL Laboratories, LLLP *Document Control No: GP_W_208*

PERCENT SOLIDS DETERMINATION LOG

Method Title: %Solids
Method Reference: OLMO4.2 / ASTM D2216

Analyst: RDS
Reviewed By / Date: _____

Analytical Balance ID: Mettler AE 240 #59494
Drying Oven Temp Maintained at 103-105C:
Time In (Oven): 2:00PM Temp 105°C Date: 3-17-03
Time Out (Oven): 9:00AM Temp 105° Date: 3-18-03
Dessicator Temp: 22°C Dessicator % Humidity (<20%): 14%

W.O.#	Frac.	Client ID	Weight of Dish	Weight of wet Sample + Dish	Weight of dry Sample +Dish	DUP RPD <15%
303074	001	EA5-001	10.2535	10.2682	9.6010	
	002	" -002	10.2721	10.6737	10.0010	
	003	" -003	10.2540	10.1130	9.5913	
	004	" -004	10.2673	10.9885	10.0765	
	005	" -005	10.2656	10.8030	10.0020	
	006	" -006	10.2713	10.3130	9.4170	
	007	" -007	10.2790	10.0860	9.2330	
	008	" -008	10.2840	10.3161	9.5343	
	009	" -009	10.2742	10.9214	10.0090	
	010	" -010	10.2632	10.8386	9.9165	
	011	" -011	10.2710	10.2152	9.9074	
	012	" -012	10.2700	10.2130	9.6090	
	013	" -013	10.2644	10.8323	10.1030	
	014	" -014	10.2700	10.6176	9.5727	
	015	" -015	10.2760	10.2110	9.6780	0.2%
	016	" -016	10.2694	10.1630	9.6633	
dup	dup	dup	10.2720	10.1800	9.5995	
	017	" -017	10.2656	10.4916	9.8780	
	018	" -018	10.2600	10.9874	10.0523	
	019	" -019	10.2615	10.9932	9.9170	
	020	" -020	10.2560	10.1898	9.1643	
303081	001	EA5-CBA-5 MW1VP1	10.2580	10.4730	8.3293	
	002	" " " MW2	10.2692	10.4842	8.3282	
303086	001	EA5-022	10.2780	10.2723	9.6356	
	002	" -023	10.2636	10.1290	9.3235	
	003	" -024	10.2574	10.3947	9.8330	
	004	" -025	10.2690	10.1282	9.4820	
	005	" -026	10.2720	10.0307	9.6474	0
dup	dup	dup	10.2660	10.0323	9.6510	

Comments: _____

ATTACHMENT 4

SDG 305134 LABORATORY DOCUMENTATION

GPL
Laboratories

CASE NARRATIVE

CLIENT: PARSONS ENGINEERING SCIENCE
PROJECT/SITE: SPRING VALLEY OU-5
WORK ORDER(S): 305134
REVIEW DATE: 6/3/03

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Two soil samples were received on 05/22/2003. The samples were delivered by GPL courier. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m". Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Metals

1. Two soil samples were analyzed for arsenic by EPA SW846 methods.
2. A matrix spike, duplicate, and serial dilution were performed on the batch sample 305062-001. They were within the control limits.
3. Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
4. All GPL QA/QC criteria were met.

Project Manager

Laboratory Director

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Spring Valley OU-5

Date Printed: June 3, 2003

GPL ID	Client ID
305134-001-001-1/1	OU5-CSA-4-4632TS-1
305134-002-002-1/1	OU5-CSA-4-4632TS-2

GPL LABORATORIES, LLLP

Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

Organics:

B = Indicates that the analyte was found in the associated blank as well as in the sample

D = Indicates that the analyte was reported from a diluted analysis

E = Indicates that the concentration detected exceeded the calibration range of the instrument

J = Value is less than the reporting limits but greater than the MDL

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

Metals:

B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)

H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit

N = Spiked sample recovery not within control limits

* = Duplicate analysis not within control limits

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-5802

CHAIN OF CUSTODY

DATE: 5/21/03

COC #:

PAGE: 1 OF 1

GPL Project Manager:	D. Griffith	Parsons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Numbe	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Preservatives and Containers

4 oz						500 mL HNO3																	

Sample Information — Methods for Analysis — RUSH

No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 6040B/6010B)					Arsenic (SW846 6040B/6010B)											QC (MS/MSD)	TOTAL BOTTLES
1	OU5-CSA-4-4632TS-1	5/21/03	0945	SOIL	EC, TP	X																	1
2	OU5-CSA-4-4632TS-2	5/21/03	0950	SOIL	EC, TP	X																	1
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

Relinquished By: ERIC CHENG	Date: 5/21/03	Time: 1600
Received By:	Date: 5/22/03	Time: 0800
Relinquished By:	Date:	Time:
Received By:	Date:	Time:
Received By (LAB):	Date:	Time:

For Lab Use

GPL WORK ORDER #: 505134

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 305134
Client Name: Parsons ES
Date Received: 5/22/03
Time Received: 9:00
Received By: Debbie

Carrier Name: GPL
Prepared (Logged In) By: [illegible] 5/22/03 (Initials Date)
Project:
Site:
VOA Holding Blank I.D. No:

	YES	NO
Airbill/Manifest Present?		✓
No.		
Shipping Container In Good Condition?	✓	
Custody Seals Present on Shipping Container?		✓
Condition: Broken		
Intact-not dated or signed		
Intact-dated and signed		
Usage of Tamper Evident Type		✓
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present in Shipping Container?	✓	✓
Type of Packing		
Custody seals on Sample Bottles?		✓
Condition: Good		Broken
Total Number of Sample Bottles 2		
Total Number of Samples 2		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks: No. of Sets		✓
Field Blanks: No. of Sets		✓
Equip. Blank: No. of Sets		✓
Field Duplicate: No. of Sets		✓
MS/MSD: No of Sets		✓
VOA Vials Have Zero Headspace?		✓
Preservatives Added to Sample?		✓
pH Check Required?		✓
Performed By?		✓
Ice Present in Shipping Container?	✓	

Container #	Temp.	Container #	Temp.

Project Manager Contacted?
Name: Debbie
Date Contacted: 5/22/03

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A/

COMMENTS:

Checklist Completed By: [signature]
Date: 5/22/03

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 305134

Lab Sample ID: S 305134-001-001-1/1 **Client ID:** OU5-CSA-4-4632TS-1

Matrix: Soil **Units:** mg/kg **Prep Date:** 5/27/03 **Prep Batch:** 60611

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 28.92

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	5.8		1	ICPST	5/31/03	1:41

Comments: Sample Date: 05/21/03 Sample Time: 09:45 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 305134

Lab Sample ID: S 305134-002-002-1/1 **Client ID:** OU5-CSA-4-4632TS-2

Matrix: Soil **Units:** mg/kg **Prep Date:** 5/27/03 **Prep Batch:** 60611

Weight: 1.13 **Volume:** 100 **Percent Moisture:** 31.08

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.35	2.6	4.0		1	ICPST	5/31/03	1:49

Comments: Sample Date: 05/21/03 Sample Time: 09:50 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard SDG: 305134

Instrument: ICPST **Units:** ug/L

Chart Number: 030530V.ARC **Acceptable Range:** 90% - 110%

Standard Source: ABSOLUTE **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 5/30/03 2:13 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	411.55	102.9								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 305134

Instrument: ICPST **Units:** ug/L

Chart Number: 030530V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV 5/30/03 2:27 PM		CVCCV3 5/30/03 3:34 PM		CVCCV3 5/30/03 5:18 PM		CVCCV3 5/30/03 6:51 PM		CVCCV4 5/30/03 8:24 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	506.17	101.2	508.12	101.6	505.18	101.0	514.70	102.9	520.85	104.2

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 305134

Instrument: ICPST **Units:** ug/L

Chart Number: 030530V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV4 5/30/03 9:57 PM Found	% Rec	CVCCV4 5/30/03 11:30 PM Found	% Rec	CVCCV5 5/31/03 1:03 AM Found	% Rec	CVCCV5 5/31/03 2:36 AM Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	548.36	109.7	526.53	105.3	533.77	106.8	536.32	107.3		

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** 305134

Instrument: ICPST **Units:** ug/L

Chart Number: 030530V.ARC **Acceptable Range:** 50% - 150%

Standard Source: HIGH PURITY **Standard ID:** REPORTING LIMIT

Element	WL/ Mass	True Conc	EPORTING LIMI 5/30/03 2:42 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	19.14	95.7								

Form 2B Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results SDG: 305134

Instrument: ICPST **Units:** ug/L

Chart Number: 030530V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BIICB 5/30/03 2:20 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U								

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 305134

Lab Sample ID: BLK60611

Matrix: Soil **Units:** mg/kg **Prep Date:** 5/27/03 **Prep Batch:** 60611

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.27	2.0	0.27	U	1	ICPST	5/30/03	21:41

Comments: Clarity(After): CLEAR Texture: FINE

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** 305134

Instrument: ICPST **Units:** ug/L

Chart Number: 030530V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 5/30/03 2:35 PM		BCCCB3 5/30/03 3:41 PM		BCCCB3 5/30/03 5:26 PM		BCCCB3 5/30/03 6:59 PM		BCCCB4 5/30/03 8:32 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** 305134

Instrument: ICPST **Units:** ug/L

Chart Number: 030530V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB4 5/30/03 10:04 PM Found	Q	BCCCB4 5/30/03 11:37 PM Found	Q	BCCCB5 5/31/03 1:10 AM Found	Q	BCCCB5 5/31/03 2:43 AM Found	Q	Found	Q
Arsenic	189.042	20	2.7	U	**-3.5**	**B**	2.7	U	2.7	U		

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 305134

Instrument: ICPST **Units:** ug/L

Chart Number: 030530V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 5/30/03 2:56 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		1				

5.04.5

U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB **SDG:** 305134

Instrument: ICPST **Units:** ug/L

Chart Number: 030530V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	IBICSABI 5/30/03 3:04 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	98.1	98.1								

5.04.5

NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 305134

Spike Sample ID: SP305062-001-007-1/3

Original Sample ID: S 305062-001-007-1/3 **Client ID:** SBJOD1(2)

Matrix: Soil **Units:** mg/kg **Prep Date:** 5/27/03 **Prep Batch:** 60611

Weight: 1.27 **Volume:** 100 **Percent Moisture:** 15.37

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	4.9		14.1		9.3040	99.5	1	1	ICPST	5/30/03	22:12	5/30/03	22:28

Comments: Sample Date: 05/08/03 Sample Time: 10:00 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

5.04.5

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 305134

Duplicate Sample ID: D 305062-001-007-1/3

Original Sample ID: S 305062-001-007-1/3 **Client ID:** SBJOD1(2)

Matrix: Soil **Units:** mg/kg **Prep Date:** 5/27/03 **Prep Batch:** 60611

Weight: 1.17 **Volume:** 100 **Percent Moisture:** 15.37

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	4.9		4.6		6.0	1	1	ICPST	5/30/03	22:12	5/30/03	22:20

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 305134

Lab Sample ID: BKS60611

Matrix: Soil **Units:** mg/kg **Prep Date:** 5/27/03 **Prep Batch:** 60611

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	9.9	98.6		80-Rc	1	ICPST	5/30/03	21:49

Comments: Clarity(After): CLEAR

5.04.5

NC Percent recovery was not calculated

U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 305134

Serial Dilution Sample ID: SE305062-001-007-1/3

Original Sample ID: S 305062-001-007-1/3 **Client ID:** SBJOD1(2)

Matrix: Soil **Units:** mg/kg **Prep Date:** 5/27/03 **Prep Batch:** 60611

Weight: 1.11 **Volume:** 100 **Percent Moisture:** 15.37

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	4.9		5.0	B	2.6	1	5	ICPST	5/30/03	22:12	5/30/03	22:43

Comments: Sample Date: 05/08/03 Sample Time: 10:00 AM Color(Before): BROWN Color(After): YELLOW Clarity(After):

E Serial dilution percent difference not within limits
U Result is less than the IDL
B Result is between IDL and RL

Form 9 Equivalent

GPL Laboratories, LLLP | **ICP ANALYSIS LOG** | *Document Control No: GP_M_116*

Instrument ID: Trace (375590) Inst. Method: TRACE V8 Nebulizer: Analytical Batch No: 030530 ✓
Profile: 0.0042 Intensity: 6773 At Setting: 286

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
305024	TetraTech	600303	130	S	5.8.03	6010	2x ON 010
305035	Microfact	600394	136		5.12.03	↓	10x ON 016
305011	OHIO EPA	600472	153		5.16.03	ILM04.1	
305108	ACOE	600563	167		5.22.03	6010	BLK 600563: Fe Failed - OK. Samples 10x Higher - Report QC only
305107	EnergTech	↓	↓		↓	↓	
305059	TetraTech	600459	148		5.15.03		Rerun (Failed CCV)
305065	↓	↓	↓		↓		↓
305062	↓	600611	174		5.27.03		
305146	Hydrogeologic	↓	↓		↓		
305134	Parsons						As Only - OK
305125	↓	↓	↓		↓		↓
305105	CleanSpec	600530	162	W	5.21.03		BLK 600530: Fe, Mo Failed - Rerun (Possible Carryover)
305106	Hydrogeologic	↓	↓	↓	↓	↓	↓ (Fe, Mo not Reported For 305105)

6.2.03

Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 19542
S0	057-148-05	ICV	22315	Samples:
S1	22871	CCV	23002	305108-001-001-1/1
S2	22872	ICSA	23054	305059-002-051-1/1
S3	23029	ICSAB	23055	305062-001-007-1/3
S4	"	CRI	23041	305105-002-046-1/2
S5	"	Low Ck	23042	
Ints	23043	LR	22704	

Analyst: Date: 6.2.03 Reviewed: Date: 6/2/03

GPL - Maryland Laboratory

ICPST Analysis Log

Data File: 030530V_ARC

Seq	Sample Name	Dil	Date	Time
1	1STD0	1	5/30/03	16:47
2	2STD1	1	5/30/03	16:54
3	3STD2	1	5/30/03	17:01
4	4STD3	1	5/30/03	17:08
5	5MIXV	1	5/30/03	17:15
6	6BKCB	1	5/30/03	17:22
7	7ICVOCV	1	5/30/03	17:27
8	8ICCCB	1	5/30/03	17:34
9	9LRSPIKING LIMIT	1	5/30/03	17:41
10	10CRDRB	1	5/30/03	17:48
11	11RDCSA	1	5/30/03	17:55
12	12RDCSAB	1	5/30/03	18:02
13	13LRBR1SPPM	1	5/30/03	18:09
14	14LR	1	5/30/03	18:16
15	15CVOCV5	1	5/30/03	18:23
16	16CCCB3	1	5/30/03	18:30
17	17S 305029-010-007-1/1	1	5/30/03	18:37
18	18S 305029-010-006-1/1	10	5/30/03	18:44
19	19S 305011-001	1	5/30/03	18:51
20	20S 305011-002	1	5/30/03	18:58
21	21S 305011-003	1	5/30/03	19:05
22	22SLK80502	1	5/30/03	19:12
23	23SKB80503	1	5/30/03	19:19
24	24S 305108-001-001-1/1	1	5/30/03	19:26
25	25D 305108-001-001-1/1	1	5/30/03	19:33
26	26SP 305108-001-001-1/	1	5/30/03	19:40
27	27CVOCV8	1	5/30/03	19:47
28	28CCCB8	1	5/30/03	19:54
29	29PS 305108-001-001-1/	1	5/30/03	20:01
30	30S 305107-001-001-1/1	1	5/30/03	20:08
31	31S 305107-002-001-1/1	1	5/30/03	20:15
32	32S 305107-003-001-1/1	1	5/30/03	20:22
33	33S 305107-004-001-1/1	1	5/30/03	20:29
34	34S 305107-005-001-1/1	1	5/30/03	20:36
35	35S 305107-006-001-1/1	1	5/30/03	20:43
36	36S 305107-007-001-1/1	1	5/30/03	20:50
37	37S 305107-008-001-1/1	1	5/30/03	20:57
38	38S 305107-009-001-1/1	1	5/30/03	21:04
39	39S 305107-010-001-1/1	1	5/30/03	21:11
40	40S 305107-011-001-1/1	1	5/30/03	21:18
41	41S 305107-012-001-1/1	1	5/30/03	21:25
42	42S 305107-013-001-1/1	1	5/30/03	21:32
43	43S 305107-014-001-1/1	1	5/30/03	21:39
44	44S 305107-015-001-1/1	1	5/30/03	21:46
45	45S 305107-016-001-1/1	1	5/30/03	21:53
46	46S 305107-017-001-1/1	1	5/30/03	22:00
47	47S 305107-018-001-1/1	1	5/30/03	22:07
48	48S 305107-019-001-1/1	1	5/30/03	22:14
49	49S 305107-020-001-1/1	1	5/30/03	22:21
50	50S 305107-021-001-1/1	1	5/30/03	22:28
51	51CVOCV5	1	5/30/03	22:35
52	52CCCB5	1	5/30/03	22:42
53	53S 305029-001-001-1/1	1	5/30/03	22:49
54	54S 305029-002-001-1/1	1	5/30/03	22:56
55	55S 305029-003-001-1/1	1	5/30/03	23:03
56	56S 305029-004-001-1/1	1	5/30/03	23:10
57	57S 305029-005-001-1/1	1	5/30/03	23:17
58	58S 305029-006-001-1/1	1	5/30/03	23:24
59	59S 305029-007-001-1/1	1	5/30/03	23:31
60	60S 305029-008-001-1/1	1	5/30/03	23:38
61	61S 305029-009-001-1/1	1	5/30/03	23:45
62	62S 305029-010-001-1/1	1	5/30/03	23:52
63	63S 305029-011-001-1/1	1	5/30/03	23:59
64	64S 305029-012-001-1/1	1	5/31/03	0:06
65	65S 305029-013-001-1/1	1	5/31/03	0:13
66	66S 305029-014-001-1/1	1	5/31/03	0:20
67	67CVOCV6	1	5/31/03	0:27
68	68CCCB6	1	5/31/03	0:34
69	69S 305145-001-001-1/1	1	5/31/03	0:41
70	70S 305145-002-001-1/1	1	5/31/03	0:48
71	71S 305145-003-001-1/1	1	5/31/03	0:55
72	72S 305145-004-001-1/1	1	5/31/03	1:02
73	73S 305145-005-001-1/1	1	5/31/03	1:09
74	74S 305145-006-001-1/1	1	5/31/03	1:16
75	75S 305145-007-001-1/1	1	5/31/03	1:23
76	76S 305145-008-001-1/1	1	5/31/03	1:30
77	77S 305145-009-001-1/1	1	5/31/03	1:37
78	78S 305145-010-001-1/1	1	5/31/03	1:44
79	79S 305145-011-001-1/1	1	5/31/03	1:51
80	80S 305145-012-001-1/1	1	5/31/03	1:58
81	81S 305145-013-001-1/1	1	5/31/03	2:05
82	82S 305145-014-001-1/1	1	5/31/03	2:12
83	83CVOCV7	1	5/31/03	2:19
84	84CCCB7	1	5/31/03	2:26
85	85S 305145-001-002-1/1	1	5/31/03	2:33
86	86S 305145-002-002-1/1	1	5/31/03	2:40
87	87S 305145-003-002-1/1	1	5/31/03	2:47
88	88S 305145-004-002-1/1	1	5/31/03	2:54
89	89S 305145-005-002-1/1	1	5/31/03	3:01
90	90S 305145-006-002-1/1	1	5/31/03	3:08
91	91S 305145-007-002-1/1	1	5/31/03	3:15
92	92S 305145-008-002-1/1	1	5/31/03	3:22
93	93S 305145-009-002-1/1	1	5/31/03	3:29
94	94S 305145-010-002-1/1	1	5/31/03	3:36
95	95S 305145-011-002-1/1	1	5/31/03	3:43
96	96S 305145-012-002-1/1	1	5/31/03	3:50
97	97S 305145-013-002-1/1	1	5/31/03	3:57
98	98S 305145-014-002-1/1	1	5/31/03	4:04
99	99CVOCV8	1	5/31/03	4:11
100	100CCCB8	1	5/31/03	4:18
101	101S 305145-001-003-1/1	1	5/31/03	4:25
102	102S 305145-002-003-1/1	1	5/31/03	4:32
103	103S 305145-003-003-1/1	1	5/31/03	4:39
104	104S 305145-004-003-1/1	1	5/31/03	4:46
105	105S 305145-005-003-1/1	1	5/31/03	4:53
106	106S 305145-006-003-1/1	1	5/31/03	5:00
107	107S 305145-007-003-1/1	1	5/31/03	5:07
108	108S 305145-008-003-1/1	1	5/31/03	5:14
109	109S 305145-009-003-1/1	1	5/31/03	5:21
110	110S 305145-010-003-1/1	1	5/31/03	5:28
111	111S 305145-011-003-1/1	1	5/31/03	5:35
112	112S 305145-012-003-1/1	1	5/31/03	5:42
113	113S 305145-013-003-1/1	1	5/31/03	5:49
114	114CVOCV9	1	5/31/03	5:56
115	115CCCB9	1	5/31/03	6:03
116	116S 305145-001-004-1/1	1	5/31/03	6:10
117	117S 305145-002-004-1/1	1	5/31/03	6:17
118	118S 305145-003-004-1/1	1	5/31/03	6:24
119	119S 305145-004-004-1/1	1	5/31/03	6:31
120	120S 305145-005-004-1/1	1	5/31/03	6:38
121	121S 305145-006-004-1/1	1	5/31/03	6:45
122	122S 305145-007-004-1/1	1	5/31/03	6:52
123	123S 305145-008-004-1/1	1	5/31/03	6:59
124	124S 305145-009-004-1/1	1	5/31/03	7:06
125	125S 305145-010-004-1/1	1	5/31/03	7:13
126	126S 305145-011-004-1/1	1	5/31/03	7:20
127	127S 305145-012-004-1/1	1	5/31/03	7:27
128	128S 305145-013-004-1/1	1	5/31/03	7:34
129	129CVOCV10	1	5/31/03	7:41
130	130CCCB10	1	5/31/03	7:48
131	131S 305145-001-005-1/1	1	5/31/03	7:55
132	132S 305145-002-005-1/1	1	5/31/03	8:02
133	133S 305145-003-005-1/1	1	5/31/03	8:09
134	134S 305145-004-005-1/1	1	5/31/03	8:16
135	135S 305145-005-005-1/1	1	5/31/03	8:23
136	136S 305145-006-005-1/1	1	5/31/03	8:30
137	137S 305145-007-005-1/1	1	5/31/03	8:37
138	138S 305145-008-005-1/1	1	5/31/03	8:44
139	139S 305145-009-005-1/1	1	5/31/03	8:51
140	140S 305145-010-005-1/1	1	5/31/03	8:58
141	141S 305145-011-005-1/1	1	5/31/03	9:05
142	142S 305145-012-005-1/1	1	5/31/03	9:12
143	143S 305145-013-005-1/1	1	5/31/03	9:19
144	144CVOCV11	1	5/31/03	9:26
145	145CCCB11	1	5/31/03	9:33
146	146S 305145-001-006-1/1	1	5/31/03	9:40
147	147S 305145-002-006-1/1	1	5/31/03	9:47
148	148S 305145-003-006-1/1	1	5/31/03	9:54
149	149S 305145-004-006-1/1	1	5/31/03	10:01
150	150S 305145-005-006-1/1	1	5/31/03	10:08
151	151S 305145-006-006-1/1	1	5/31/03	10:15
152	152S 305145-007-006-1/1	1	5/31/03	10:22
153	153S 305145-008-006-1/1	1	5/31/03	10:29
154	154S 305145-009-006-1/1	1	5/31/03	10:36
155	155S 305145-010-006-1/1	1	5/31/03	10:43
156	156S 305145-011-006-1/1	1	5/31/03	10:50
157	157S 305145-012-006-1/1	1	5/31/03	10:57
158	158S 305145-013-006-1/1	1	5/31/03	11:04
159	159CVOCV12	1	5/31/03	11:11
160	160CCCB12	1	5/31/03	11:18

Analyst Signature: Date: 6.2.03

Analyst Signature: Date:

Sample Dilutions:

305107-002-012-1/1: 10x For As

305108-001-001-1/1: 5x For Ca, Zn - Not Reqd

305146-001-001-1/1: 5x For Ca, 10x For Mn

305146-002-002-1/1: 5x For Ca, 10x For Mn

305125-002-002-1/1: 2x For Fe, 5x For Mn - Not Reqd

305146-003-003-1/1: 10x For Mn

305134-002-002-1/1: 2x For K - Not Reqd

GPL Laboratories, LLLP *Document Control No: GP_M_111*

Metals Preparation & Sample Description Log

Date: 5-22-05 Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 105174

Analyst: MSI Comments: MOD BLOCK DIGESTION (Soil)

Reviewed by: JD Date: 6/2/05 Spike Witness: KC Prep. Seq: 060611

	GPL Work Order No.	Sample	Frac	SIZE mL (g)	Final Vol: (mL)	Matrix S, W Other	Color Before (R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.)	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	174		1.00	100	S				Clear	-
2	BKS	174		1.00						"	-
3	305062	001	-001-½	1.11		Soil	Brown	Yellow	Medium	"	-
4		DUP	↓	1.17		↓	↓	↓	↓	↓	↓
5		SRK	↓	1.27							
6		002	-045-½	1.19							
7		003	-046-½	1.16							
8		004	-047-½	1.23							
9		005	-048-½	1.22							
10		007	-032-½	1.15							
11		008	-038-½	1.19							
12		009	-039-½	1.26							
13		010	-040-½	1.34							
14		011	-041-½	1.32							
15		012	-042-½	1.27							
16		013	-043-½	1.22							
17	↓	014	-044-½	1.33							
18	305146	001	-001-½	1.26							
19	↓	002	-002-½	1.28							
20	↓	003	-003-½	1.26							
21	305134	001	-001-½	1.22							
22	↓	002	-002-½	1.13							
23	305125	001	-001-½	1.19							
24	↓	002	-002-½	1.34	↓	↓	↓	↓	VMS	↓05-20-¥03	

LCS ID / Amt. Added (ml , g): 0.2ml (22696, 22697, 22698)	HNO3(1+1) ID: GP-052-159-01
Spiking ID / Amt Added (ml): 0.2ml (22696, 22697, 22698)	HNO3(conc) ID: GP-052-062-13
	HCl(conc) ID: GP-052-002-04
Temperature, C: 94°C	HCl(1+1) ID: -
	Peroxide ID: GP-052-002-12

OU-5 SAMPLING FOR THE PERIOD

5/22/03 TO 8/26/03

(REPORT NO. 13)

OU-5 SAMPLES COLLECTED FROM 5/22/03 TO 8/26/03 (Report No. 13)
(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CSA-6-4316WinP-(20,40)	6/3/2003	306007
OU5-CSA-6-4316WinP-(80,60)	6/3/2003	306007
OU5-CSA-6-4316WinP-(80,80)	6/3/2003	306007
OU5-CSA-6-4316WinP-(60,20)	6/3/2003	306007
OU5-CSA-6-4316WinP-(60,40)	6/3/2003	306007
OU5-CSA-6-4316WinP-(40,40)	6/3/2003	306007
OU5-CSA-6-4316WinP-(20,60)	6/3/2003	306007
OU5-CSA-6-4316WinP-(40,80)	6/3/2003	306007
OU5-CSA-6-4316WinP-(40,60)	6/3/2003	306007
OU5-CSA-6-4316WinP-(60,80)	6/3/2003	306007
OU5-CSA-6-4316WinP-(80,40)	6/3/2003	306007
OU5-CSA-6-4316WinP-(40,20)	6/3/2003	306007
OU5-CSA-6-4316WinP-(120,60)	6/3/2003	306007
OU5-CSA-6-4316WinP-(20,80)	6/3/2003	306007
OU5-CSA-6-4316WinP-(120,40)	6/3/2003	306007
OU5-CSA-6-4316WinP-SB1	6/3/2003	306007
OU5-CSA-6-4316WinP-DUP02	6/3/2003	306007
OU5-CSA-6-4316WinP-DUP01	6/3/2003	306007
OU5-CSA-6-4316WinP-(140,40)	6/3/2003	306007
OU5-CSA-6-4316WinP-(120,100)	6/3/2003	306007
OU5-CSA-6-4316WinP-(140,60)	6/3/2003	306007
OU5-CSA-6-4316WinP-(80,20)	6/3/2003	306007
OU5-CSA-6-4316WinP-(120,80)	6/3/2003	306007
OU5-CSA-6-4316WinP-(60,60)	6/3/2003	306007
OU5-CSA-6-4316WinP-(100,40)	6/3/2003	306007
OU5-CSA-6-4316WinP-(100,60)	6/3/2003	306007
OU5-CSA-6-4316WinP-(100,80)	6/3/2003	306007
OU5-CSA-6-4316WinP-(100,100)	6/3/2003	306007
OU5-CTA-1B-L10-(100,60)	6/11/2003	306082
OU5-CTA-1B-L10-(20,80)	6/11/2003	306082
OU5-CTA-1B-L10-DUP04	6/11/2003	306082
OU5-CTA-1B-L10-DUP03	6/11/2003	306082
OU5-CTA-1B-L10-DUP02	6/11/2003	306082
OU5-CTA-1B-L10-DUP01	6/11/2003	306082
OU5-CTA-1B-L10-(140,0)	6/11/2003	306082
OU5-CTA-1B-L10-(100,20)	6/11/2003	306082
OU5-CTA-1B-L10-(40,120)	6/11/2003	306082
OU5-CTA-1B-L10-(80,40)	6/11/2003	306082
OU5-CTA-1B-L10-(140,80)	6/11/2003	306082
OU5-CTA-1B-L10-(120,20)	6/11/2003	306082
OU5-CTA-1B-L10-(20,60)	6/11/2003	306082
OU5-CTA-1B-L10-(120,80)	6/11/2003	306082
OU5-CTA-1B-L10-(60,120)	6/11/2003	306082
OU5-CTA-1B-L10-(60,40)	6/11/2003	306082
OU5-CTA-1B-L10-(40,40)	6/11/2003	306082
OU5-CTA-1B-L10-(140,60)	6/11/2003	306082
OU5-CTA-1B-L10-(20,100)	6/11/2003	306082
OU5-CTA-1B-L10-(40,80)	6/11/2003	306082
OU5-CTA-1B-L10-(80,20)	6/11/2003	306082
OU5-CTA-1B-L10-(180,100)	6/11/2003	306082
OU5-CTA-1B-L10-(40,100)	6/11/2003	306082
OU5-CTA-1B-L10-(120,120)	6/11/2003	306082
OU5-CTA-1B-L10-(160,80)	6/11/2003	306082
OU5-CTA-1B-L10-(120,160)	6/11/2003	306082

OU-5 SAMPLES COLLECTED FROM 5/22/03 TO 8/26/03 (Report No. 13)
(ordered by date)

SAMPLE ID	SAMPLE DATE	SDG NO.
OU5-CTA-1B-L10-(60,140)	6/11/2003	306082
OU5-CTA-1B-L10-(80,140)	6/11/2003	306082
OU5-CTA-1B-L10-(120,100)	6/11/2003	306082
OU5-CTA-1B-L10-(180,80)	6/11/2003	306082
OU5-CTA-1B-L10-(100,120)	6/11/2003	306082
OU5-CTA-1B-L10-(80,120)	6/11/2003	306082
OU5-CTA-1B-L10-(100,140)	6/11/2003	306082
OU5-CTA-1B-L10-(40,160)	6/11/2003	306082
OU5-CTA-1B-L10-(140,120)	6/11/2003	306082
OU5-CTA-1B-L10-(80,160)	6/11/2003	306082
OU5-CTA-1B-L10-(160,120)	6/11/2003	306082
OU5-CTA-1B-L10-(160,100)	6/11/2003	306082
OU5-CTA-1B-L10-(160,140)	6/11/2003	306082
OU5-CTA-1B-L10-(200,120)	6/11/2003	306082
OU5-CTA-1B-L10-(180,120)	6/11/2003	306082
OU5-CTA-1B-L10-(140,100)	6/11/2003	306082
OU5-CTA-1B-L10-(140,140)	6/11/2003	306082
OU5-CTA-1B-L10-(200,140)	6/11/2003	306082
OU5-CTA-1B-L10-(120,140)	6/11/2003	306082
OU5-CTA-1B-L10-(180,140)	6/11/2003	306082
OU5-CTA-1B-L10-(40,140)	6/11/2003	306082
OU5-CTA-1B-L10-(120,40)	6/11/2003	306082
OU5-CTA-1B-L10-(80,100)	6/11/2003	306082
OU5-CTA-1B-L10-(180,60)	6/11/2003	306082
OU5-CTA-1B-L10-(100,100)	6/11/2003	306082
OU5-CTA-1B-L10-(100,80)	6/11/2003	306082
OU5-CTA-1B-L10-(120,60)	6/11/2003	306082
OU5-CTA-1B-L10-(160,60)	6/11/2003	306082
OU5-CTA-1B-L10-(140,20)	6/11/2003	306082
OU5-CTA-1B-L10-(60,80)	6/11/2003	306082
OU5-CTA-1B-L10-(60,60)	6/11/2003	306082
OU5-CTA-1B-L10-(140,40)	6/11/2003	306082
OU5-CTA-1B-L10-(100,180)	6/11/2003	306082
OU5-CTA-1B-L10-(100,40)	6/11/2003	306082
OU5-CTA-1B-L10-(60,100)	6/11/2003	306082
OU5-CTA-1B-L10-(40,180)	6/11/2003	306082
OU5-CTA-1B-L10-(120,180)	6/11/2003	306082
OU5-CTA-1B-L10-(60,200)	6/11/2003	306082
OU5-CTA-1B-L10-(80,180)	6/11/2003	306082
OU5-CTA-1B-L10-(80,80)	6/11/2003	306082
OU5-CTA-1B-L10-(60,160)	6/11/2003	306082
OU5-CTA-1B-L10-(160,40)	6/11/2003	306082
OU5-CTA-1B-L10-(140,160)	6/11/2003	306082
OU5-CTA-1B-L10-(160,160)	6/11/2003	306082
OU5-CTA-1B-L10-(180,160)	6/11/2003	306082
OU5-CTA-1B-L10-(100,160)	6/11/2003	306082
OU5-CTA-1B-L10-(160,20)	6/11/2003	306082
OU5-CTA-1B-L10-(80,100)	6/11/2003	306082
OU5-CTA-1B-L10-(60,180)	6/11/2003	306082
OU5-CSA-12-5104RP--2	8/26/2003	308187
OU5-CSA-12-5104RP-1	8/26/2003	308187

QUALITY ASSURANCE SUMMARY REPORT (NO. 13) FOR SAMPLES ASSOCIATED WITH SPRING VALLEY OU-5 SAMPLING

SAMPLING FROM MAY 22, 2003 THROUGH AUGUST 26, 2003

INTRODUCTION

This data validation summary report covers environmental soil and associated equipment blank samples collected from Spring Valley OU-5 sampling locations between May 22 and August 26, 2003. The samples are arranged by Sample Delivery Groups (SDGs). An SDG represents the group of samples that were prepared, analyzed, and reported together in the analytical batch with common laboratory QC samples. The sampling period in this report includes five SDGs (306007, 306008, 306082, 306083, and 308187). The samples discussed in this report are listed in the table on the preceding pages.

The samples were analyzed for arsenic only. Soil samples for arsenic analysis were prepared by method SW 846 3050B and analyzed by method SW 846 6010B. Aqueous samples for arsenic analysis were prepared by method SW 846 3010B and analyzed by method SW 846 6010B.

All work was performed in accordance with the Work Management Plan (WMP) and applicable Amendments prepared by Parsons. The WMP included a Quality Assurance Project Plan (QAPP) that was also prepared and approved for use to ensure generation of legally defensible data. General Physics Laboratories (GPL) of Gaithersburg, Maryland and their sister laboratory, GEOMET, following procedures outlined in the QAPP and the WMP, performed all analyses.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. The organization of the validated data summary tables and supporting appendices are also discussed in the summary section. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented. Issues or problems not leading to qualifying of data are presented in the notes section.

SUMMARY

This section of this report discusses deviations from the QAPP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected, and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this sampling event. No reported results have been qualified as unusable or rejected. All reported results should be considered usable as qualified in the data tables for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected based on the validation process.

Minor QC problems leading to qualifying of data as estimated or not detected, included field or laboratory blank contamination and detections less than the Practical Quantitation Limit (PQL). Details concerning these QC problems are presented in the Minor Problems section.

Arsenic was detected in each of the soil samples but not in the any of the six associated equipment blanks. A summary of all detections is presented in Table 1 of Appendix A. A summary of the results for the soil duplicate samples is presented in Table 2 of Appendix A. Results for the equipment blanks associated with the soil samples are presented in Table 3 of Appendix A. A glossary of the validation qualifiers is presented in Appendix B. Supporting laboratory documentation is presented in Appendix C (by SDG).

MAJOR PROBLEMS

No major problems were found during validation of the data for this sampling event. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data summary tables.

MINOR PROBLEMS

This section discusses QC problems leading to qualifying of data as estimated. The "J" qualifier flag is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

QC problems leading to qualifying of data as estimated included laboratory blank contamination, and detections less than the PQL. Details concerning these problems are presented below by analytical parameter.

Metals

- Some reported results for arsenic have been qualified as estimated and flagged 'J'. The 'J' flag indicates the analyte was positively identified but the associated value is less than the PQL. Some samples in SDG 306082 are affected. Supporting laboratory documentation (Form 1s) are presented in Appendix C.

- Some laboratory blanks associated with the samples in SDG 306082 contained arsenic. Reported detections of arsenic in the associated samples at levels comparable to the level found in the blank have been qualified as estimates and flagged 'B/JB'. These results should be considered biased high due to the blank contamination. Supporting laboratory documentation for the laboratory blanks are presented in Appendix C (by SDG).

Notes

Six equipment blanks were collected in support of the soil samples. The blanks were analyzed for arsenic only. The equipment blanks are free of contamination. Supporting laboratory documentation for the equipment blank is presented in Appendix C.

Six matrix spike/duplicate (MS/D) samples were collected and analyzed in support of the samples. No accuracy or precision outliers were reported for the MS/D samples. Laboratory QC summary forms for the MS/D samples are presented in Appendix C.

Six soil duplicates were collected in support of the samples. There was excellent precision (RPD) between the results for the duplicates (see Table 2, Appendix A) except for sample OU5-CSA-6-4316WinP-(80,80) and its duplicate (OU5-CSA-6-4316WinP-DUP02) which reported an RPD of 88% (above the control limit of 50%). Laboratory documentation for the duplicate samples is presented in Appendix C.

APPENDIX A

DATA SUMMARY TABLES

TABLE 1 – SUMMARY OF DETECTIONS FOR SPRING VALLEY SAMPLES COLLECTED BETWEEN 5/22/03 AND 8/26/03

TABLE 2 – SUMMARY OF RESULTS FOR SOIL FIELD DUPLICATES FOR SPRING VALLEY SAMPLES COLLECTED BETWEEN 5/22/03 AND 8/26/03

TABLE 3 – SUMMARY OF VALIDATED ANALYTICAL RESULTS FOR EQUIPMENT BLANKS COLLECTED BETWEEN 5/22/03 AND 8/26/03

TABLE 1 (APPENDIX A)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-5 SAMPLES COLLECTED BETWEEN 5/22/03 AND 8/26/03
(All detections were for arsenic)

LAB SAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC mg/kg	EPA QUAL	DATA VALID QUAL	DILUTION FACTOR
306007-003-003-1/1	OU5-CSA-6-4316WinP-(20,40)	6/3/2003	3.4			1
306007-013-013-1/1	OU5-CSA-6-4316WinP-(80,60)	6/3/2003	7.5			1
306007-012-012-1/1	OU5-CSA-6-4316WinP-(80,80)	6/3/2003	9.4			1
306007-011-011-1/1	OU5-CSA-6-4316WinP-(60,20)	6/3/2003	7			1
306007-010-010-1/1	OU5-CSA-6-4316WinP-(60,40)	6/3/2003	3.8			1
306007-006-006-1/1	OU5-CSA-6-4316WinP-(40,40)	6/3/2003	3.7			1
306007-002-002-1/1	OU5-CSA-6-4316WinP-(20,60)	6/3/2003	4.5			1
306007-004-004-1/1	OU5-CSA-6-4316WinP-(40,80)	6/3/2003	5.6			1
306007-005-005-1/1	OU5-CSA-6-4316WinP-(40,60)	6/3/2003	3.3			1
306007-008-008-1/1	OU5-CSA-6-4316WinP-(60,80)	6/3/2003	14.4			1
306007-014-014-1/1	OU5-CSA-6-4316WinP-(80,40)	6/3/2003	5.8			1
306007-007-007-1/1	OU5-CSA-6-4316WinP-(40,20)	6/3/2003	4.2			1
306007-022-022-1/1	OU5-CSA-6-4316WinP-(120,60)	6/3/2003	4.4			1
306007-001-001-1/1	OU5-CSA-6-4316WinP-(20,80)	6/3/2003	29.3			1
306007-023-023-1/1	OU5-CSA-6-4316WinP-(120,40)	6/3/2003	15.3			1
306007-028-028-1/1	OU5-CSA-6-4316WinP-SB1	6/3/2003	2.9			1
306007-027-027-1/1	OU5-CSA-6-4316WinP-DUP02	6/3/2003	24.1			1
306007-026-026-1/1	OU5-CSA-6-4316WinP-DUP01	6/3/2003	4.1			1
306007-025-025-1/1	OU5-CSA-6-4316WinP-(140,40)	6/3/2003	13.2			1
306007-020-020-1/1	OU5-CSA-6-4316WinP-(120,100)	6/3/2003	6.5			1
306007-024-024-1/1	OU5-CSA-6-4316WinP-(140,60)	6/3/2003	5.9			1
306007-015-015-1/1	OU5-CSA-6-4316WinP-(80,20)	6/3/2003	8.2			1
306007-021-021-1/1	OU5-CSA-6-4316WinP-(120,80)	6/3/2003	4.5			1
306007-009-009-1/1	OU5-CSA-6-4316WinP-(60,60)	6/3/2003	4.7			1
306007-019-019-1/1	OU5-CSA-6-4316WinP-(100,40)	6/3/2003	27.6			1
306007-018-018-1/1	OU5-CSA-6-4316WinP-(100,60)	6/3/2003	15.7			1
306007-017-017-1/1	OU5-CSA-6-4316WinP-(100,80)	6/3/2003	13.6			1
306007-016-016-1/1	OU5-CSA-6-4316WinP-(100,100)	6/3/2003	4.8			1
306082-058-058-1/1	OU5-CTA-1B-L10-(100,60)	6/11/2003	2.6		B	1
306082-068-068-1/1	OU5-CTA-1B-L10-(20,80)	6/11/2003	2.9		B	1
306082-076-076-1/1	OU5-CTA-1B-L10-DUP04	6/11/2003	4.1			1
306082-075-075-1/1	OU5-CTA-1B-L10-DUP03	6/11/2003	9.2			1
306082-074-074-1/1	OU5-CTA-1B-L10-DUP02	6/11/2003	2.9		B	1
306082-073-073-1/1	OU5-CTA-1B-L10-DUP01	6/11/2003	3		B	1
306082-072-072-1/1	OU5-CTA-1B-L10-(140,0)	6/11/2003	4.5			1
306082-071-071-1/1	OU5-CTA-1B-L10-(100,20)	6/11/2003	4.4			1
306082-056-056-1/1	OU5-CTA-1B-L10-(40,120)	6/11/2003	2.1		B	1
306082-069-069-1/1	OU5-CTA-1B-L10-(80,40)	6/11/2003	106			1
306082-057-057-1/1	OU5-CTA-1B-L10-(140,80)	6/11/2003	2.9		B	1
306082-067-067-1/1	OU5-CTA-1B-L10-(120,20)	6/11/2003	21.7			1
306082-065-065-1/1	OU5-CTA-1B-L10-(20,60)	6/11/2003	10.2			1
306082-064-064-1/1	OU5-CTA-1B-L10-(120,80)	6/11/2003	2.9		B	1
306082-063-063-1/1	OU5-CTA-1B-L10-(60,120)	6/11/2003	2.5	B	JB	1
306082-062-062-1/1	OU5-CTA-1B-L10-(60,40)	6/11/2003	19.6			1
306082-061-061-1/1	OU5-CTA-1B-L10-(40,40)	6/11/2003	26.9			1
306082-060-060-1/1	OU5-CTA-1B-L10-(140,60)	6/11/2003	2.5		B	1
306082-059-059-1/1	OU5-CTA-1B-L10-(20,100)	6/11/2003	2.5		B	1
306082-051-051-1/1	OU5-CTA-1B-L10-(40,80)	6/11/2003	4			1
306082-070-070-1/1	OU5-CTA-1B-L10-(80,20)	6/11/2003	6.6			1
306082-011-011-1/1	OU5-CTA-1B-L10-(180,100)	6/11/2003	2.2	B	JB	1
306082-053-053-1/1	OU5-CTA-1B-L10-(40,100)	6/11/2003	2.5		B	1
306082-023-023-1/1	OU5-CTA-1B-L10-(120,120)	6/11/2003	2.7		B	1
306082-022-022-1/1	OU5-CTA-1B-L10-(160,80)	6/11/2003	2.5		B	1

TABLE 1 (APPENDIX A)
SUMMARY OF DETECTIONS FOR SPRING VALLEY OU-5 SAMPLES COLLECTED BETWEEN 5/22/03 AND 8/26/03
(All detections were for arsenic)

LAB SAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC mg/kg	EPA QUAL	DATA VALID QUAL	DILUTION FACTOR
306082-021-021-1/1	OU5-CTA-1B-L10-(120,160)	6/11/2003	3.1		B	1
306082-020-020-1/1	OU5-CTA-1B-L10-(60,140)	6/11/2003	2.2	B	JB	1
306082-019-019-1/1	OU5-CTA-1B-L10-(80,140)	6/11/2003	4.4			1
306082-018-018-1/1	OU5-CTA-1B-L10-(120,100)	6/11/2003	2.6		B	1
306082-017-017-1/1	OU5-CTA-1B-L10-(180,80)	6/11/2003	2.3	B	JB	1
306082-016-016-1/1	OU5-CTA-1B-L10-(100,120)	6/11/2003	3.3		B	1
306082-015-015-1/1	OU5-CTA-1B-L10-(80,120)	6/11/2003	3.1		B	1
306082-014-014-1/1	OU5-CTA-1B-L10-(100,140)	6/11/2003	2.2	B	JB	1
306082-025-025-1/1	OU5-CTA-1B-L10-(40,160)	6/11/2003	2.7		B	1
306082-012-012-1/1	OU5-CTA-1B-L10-(140,120)	6/11/2003	2.4		B	1
306082-026-026-1/1	OU5-CTA-1B-L10-(80,160)	6/11/2003	2.4		B	1
306082-010-010-1/1	OU5-CTA-1B-L10-(160,120)	6/11/2003	2.9		B	1
306082-009-009-1/1	OU5-CTA-1B-L10-(160,100)	6/11/2003	2.3		B	1
306082-008-008-1/1	OU5-CTA-1B-L10-(160,140)	6/11/2003	3		B	1
306082-007-007-1/1	OU5-CTA-1B-L10-(200,120)	6/11/2003	1.8	B	JB	1
306082-006-006-1/1	OU5-CTA-1B-L10-(180,120)	6/11/2003	2	B	JB	1
306082-005-005-1/1	OU5-CTA-1B-L10-(140,100)	6/11/2003	2.4		B	1
306082-004-004-1/1	OU5-CTA-1B-L10-(140,140)	6/11/2003	3.2		B	1
306082-003-003-1/1	OU5-CTA-1B-L10-(200,140)	6/11/2003	2.2	B	JB	1
306082-002-002-1/1	OU5-CTA-1B-L10-(120,140)	6/11/2003	2	B	JB	1
306082-001-001-1/1	OU5-CTA-1B-L10-(180,140)	6/11/2003	1.8	B	JB	1
306082-013-013-1/1	OU5-CTA-1B-L10-(40,140)	6/11/2003	2.9		B	1
306082-040-040-1/1	OU5-CTA-1B-L10-(120,40)	6/11/2003	1.8	B	JB	1
306082-054-054-1/1	OU5-CTA-1B-L10-(80,100)	6/11/2003	2.5		B	1
306082-052-052-1/1	OU5-CTA-1B-L10-(180,60)	6/11/2003	2.7		B	1
306082-050-050-1/1	OU5-CTA-1B-L10-(100,100)	6/11/2003	1.3	B	JB	1
306082-049-049-1/1	OU5-CTA-1B-L10-(100,80)	6/11/2003	8			1
306082-048-048-1/1	OU5-CTA-1B-L10-(120,60)	6/11/2003	1.1	B	JB	1
306082-047-047-1/1	OU5-CTA-1B-L10-(160,60)	6/11/2003	5.3			1
306082-046-046-1/1	OU5-CTA-1B-L10-(140,20)	6/11/2003	53.6			1
306082-045-045-1/1	OU5-CTA-1B-L10-(60,80)	6/11/2003	1.7	B	JB	1
306082-044-044-1/1	OU5-CTA-1B-L10-(60,60)	6/11/2003	8.7			1
306082-043-043-1/1	OU5-CTA-1B-L10-(140,40)	6/11/2003	2.3		B	1
306082-024-024-1/1	OU5-CTA-1B-L10-(100,180)	6/11/2003	1.9	B	JB	1
306082-041-041-1/1	OU5-CTA-1B-L10-(100,40)	6/11/2003	7.6			1
306082-055-055-1/1	OU5-CTA-1B-L10-(60,100)	6/11/2003	2.6		B	1
306082-032-032-1/1	OU5-CTA-1B-L10-(40,180)	6/11/2003	3.2		B	1
306082-027-027-1/1	OU5-CTA-1B-L10-(120,180)	6/11/2003	2.6		B	1
306082-028-028-1/1	OU5-CTA-1B-L10-(60,200)	6/11/2003	2.5		B	1
306082-029-029-1/1	OU5-CTA-1B-L10-(80,180)	6/11/2003	1.8	B	JB	1
306082-042-042-1/1	OU5-CTA-1B-L10-(80,80)	6/11/2003	2.3		B	1
306082-031-031-1/1	OU5-CTA-1B-L10-(60,160)	6/11/2003	2.1		B	1
306082-039-039-1/1	OU5-CTA-1B-L10-(160,40)	6/11/2003	3.3		B	1
306082-033-033-1/1	OU5-CTA-1B-L10-(140,160)	6/11/2003	3.4		B	1
306082-034-034-1/1	OU5-CTA-1B-L10-(160,160)	6/11/2003	3.1		B	1
306082-035-035-1/1	OU5-CTA-1B-L10-(180,160)	6/11/2003	2.3	B	JB	1
306082-036-036-1/1	OU5-CTA-1B-L10-(100,160)	6/11/2003	2	B	JB	1
306082-037-037-1/1	OU5-CTA-1B-L10-(160,20)	6/11/2003	3.7		B	1
306082-038-038-1/1	OU5-CTA-1B-L10-(80,100)	6/11/2003	2.8		B	1
306082-030-030-1/1	OU5-CTA-1B-L10-(60,180)	6/11/2003	1.8	B	JB	1
308187-002-002-1/1	OU5-CSA-12-5104RP--2	8/26/2003	9.6			1
308187-001-001-1/1	OU5-CSA-12-5104RP-1	8/26/2003	7.1			1

TABLE 2 (APPENDIX A)
SUMMARY OF RESULTS FOR SOIL FIELD DUPLICATES FOR SPRING VALLEY OU-5 SAMPLES COLLECTED BETWEEN 5/22/03 AND 8/26/03

SDG No.	SAMPLE ID	FLD DUPLICATE SAMPLE ID	ARSENIC SAMPLE RESULT (mg/kg)	MATCHING FIELD DUPLICATE SAMPLE RESULT	RPD(%)
306007	OU5-CSA-6-4316WinP-(40,40)	OU5-CSA-6-4316WinP-DUP01	3.7	4.1	15.7
306007	OU5-CSA-6-4316WinP-(80,80)	OU5-CSA-6-4316WinP-DUP02	9.4	24.1	87.8
306082	OU5-CTA-1B-L10-(160,80)	OU5-CTA-1B-L10-DUP01	2.5	3	18.2
306082	OU5-CTA-1B-L10-(120,120)	OU5-CTA-1B-L10-DUP02	2.7	2.9	7.1
306082	OU5-CTA-1B-L10-(60,60)	OU5-CTA-1B-L10-DUP03	8.7	9.2	5.6
306082	OU5-CTA-1B-L10-(160,60)	OU5-CTA-1B-L10-DUP04	5.3	4.1	25.5

Note: RPD is relative percent difference as a measure of precision. The project objective is less than 50%.

TABLE 3 (APPENDIX A)
SUMMARY OF VALIDATED ANALYTICAL RESULTS FOR EQUIPMENT BLANKS COLLECTED BETWEEN 5/22/03 AND 8/26/03

LAB SAMPID	SAMPLE ID	SAMPLE DATE	ARSENIC ug/L	EPA QUAL	DATA VALID QUAL	DILUTION FACTOR
306008-002-002-1/1	OU5-CSA-6-4316WinP-EB02	6/3/2003	4.9	U	U	1
306008-001-001-1/1	OU5-CSA-6-4316WinP-EB01	6/3/2003	4.9	U	U	1
306083-004-004-1/1	OU5-CTA-1B-L10-EB04	6/11/2003	4.9	U	U	1
306083-003-003-1/1	OU5-CTA-1B-L10-EB03	6/11/2003	4.9	U	U	1
306083-002-002-1/1	OU5-CTA-1B-L10-EB02	6/11/2003	4.9	U	U	1
306083-001-001-1/1	OU5-CTA-1B-L10-EB01	6/11/2003	4.9	U	U	1

APPENDIX B

GLOSSARY OF DATA VALIDATION QUALIFIERS

U the analyte was analyzed for and is not present. For metals, the associated numerical value (Method Detection Limit – MDL) indicates the minimum concentration that can be measured by the instrument with 99% confidence. The 'J' qualifier may be combined with the 'U' qualifier.

J the analyte was analyzed for and was detected in the samples, but the reported result is 'estimated' either because it is less than the PQL or at least one minor QA/QC problem was found during validation. Data with the 'J' qualifier is considered usable for most decision-making purposes, including risk assessment. The 'J' qualifier may be combined with the 'K' (high bias) or 'L' (low bias) qualifier when the bias resulting from a minor QA/QC problem can be determined. When combined with the 'K' or 'L' qualifier, the 'J' qualifier indicates the reported value is less than the PQL.

K the analyte was detected in the sample. The reported result is considered estimated and may be biased high, due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L the analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration of the analyte present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

R the analyte was not detected in the sample. The reported result has been qualified as unusable due to a major QA/QC problem found during validation. This flag does not address the presence or absence of the analyte of concern rather it addresses one or more major QA/QC problems associated with the reported result. If the analyte affected is critical to the project, resampling and reanalysis of the qualified result may be required.

D result reported from diluted sample run. The original analysis of the sample required dilution either because of matrix interferences in the sample or concentration above the calibration range for the method. The sample was rerun at a dilution to obtain a more reliable result. The reported result has been adjusted to reflect the dilution factor. The reported result should be considered estimated and usable for most decision-making purposes, including risk assessment.

B this flag indicates the reported result is greater than the MDL but less than 5 times the amount found in an associated field or laboratory blank. The reported result should be considered estimated and may be biased high due to the blank contamination. The true concentration of the analyte in the sample may be lower than the reported result. This flag may be combined with the 'J' qualifier to indicate the reported value is less than the PQL.

MDL the minimum concentration of an analyte that can be measured and reported with 99% confidence that the analyte concentration is greater than zero. The MDL is determined by multiplying the appropriate one-sided 99% t-statistic by the standard deviation obtained from the analysis of seven replicates of a matrix spike containing the analyte of interest at a concentration three to five times the estimated MDL. For seven replicates, the t-statistic is 3.143.

PQL the lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory conditions. The PQL is generally 5 to 10 times the MDL. However, it may be nominally chosen within these guidelines to simplify data reporting. For many analytes the PQL is selected as the lowest non-zero standard in the calibration curve.

APPENDIX C

LABORATORY SUPPORTING DOCUMENTATION BY SDG:

- **SDG 306007**
- **SDG 306008**
- **SDG 306082**
- **SDG 306083**
- **SDG 308187**

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Spring Valley OU-5

Date Printed: June 13, 2003

GPL ID	Client ID
306007-016-016-1/1	OU5-CSA-6-4316WinP-(100,100)
306007-019-019-1/1	OU5-CSA-6-4316WinP-(100,40)
306007-018-018-1/1	OU5-CSA-6-4316WinP-(100,60)
306007-017-017-1/1	OU5-CSA-6-4316WinP-(100,80)
306007-020-020-1/1	OU5-CSA-6-4316WinP-(120,100)
306007-023-023-1/1	OU5-CSA-6-4316WinP-(120,40)
306007-022-022-1/1	OU5-CSA-6-4316WinP-(120,60)
306007-021-021-1/1	OU5-CSA-6-4316WinP-(120,80)
306007-025-025-1/1	OU5-CSA-6-4316WinP-(140,40)
306007-024-024-1/1	OU5-CSA-6-4316WinP-(140,60)
306007-003-003-1/1	OU5-CSA-6-4316WinP-(20,40)
306007-002-002-1/1	OU5-CSA-6-4316WinP-(20,60)
306007-001-001-1/1	OU5-CSA-6-4316WinP-(20,80)
306007-007-007-1/1	OU5-CSA-6-4316WinP-(40,20)
306007-006-006-1/1	OU5-CSA-6-4316WinP-(40,40)
306007-005-005-1/1	OU5-CSA-6-4316WinP-(40,60)
306007-004-004-1/1	OU5-CSA-6-4316WinP-(40,80)
306007-011-011-1/1	OU5-CSA-6-4316WinP-(60,20)
306007-010-010-1/1	OU5-CSA-6-4316WinP-(60,40)
306007-009-009-1/1	OU5-CSA-6-4316WinP-(60,60)
306007-008-008-1/1	OU5-CSA-6-4316WinP-(60,80)
306007-015-015-1/1	OU5-CSA-6-4316WinP-(80,20)
306007-014-014-1/1	OU5-CSA-6-4316WinP-(80,40)
306007-013-013-1/1	OU5-CSA-6-4316WinP-(80,60)
306007-012-012-1/1	OU5-CSA-6-4316WinP-(80,80)
306007-026-026-1/1	OU5-CSA-6-4316WinP-DUP01
306007-027-027-1/1	OU5-CSA-6-4316WinP-DUP02
306007-028-028-1/1	OU5-CSA-6-4316WinP-SB1

GPL
Laboratories

CASE NARRATIVE

CLIENT: PARSONS ENGINEERING SCIENCE
PROJECT/SITE: SPRING VALLEY OU-5
WORK ORDER(S): 306007
REVIEW DATE: 6/13/03

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Twenty Eight soil samples were received on 06/03/2003. The samples were delivered by GPL courier. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m". Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Metals

1. Twenty-eight soil samples were analyzed for arsenic by EPA SW846 methods.
2. A matrix spike, duplicate, and serial dilution were performed on samples OU5-CSA-6-4316WinP-(40,60), and OU5-CSA-6-4316WinP-(40,20). They were within the control limits.
3. Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
4. All GPL QA/QC criteria were met.

Project Manager

Laboratory Director

GPL LABORATORIES, LLLP

Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

Organics:

B = Indicates that the analyte was found in the associated blank as well as in the sample

D = Indicates that the analyte was reported from a diluted analysis

E = Indicates that the concentration detected exceeded the calibration range of the instrument

J = Value is less than the reporting limits but greater than the MDL

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

Metals:

B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)

H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit

N = Spiked sample recovery not within control limits

* = Duplicate analysis not within control limits

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-5802

CHAIN OF CUSTODY

DATE: 6/3/03

COC #:

PAGE: 1 OF 2

GPL Project Manager:	D. Griffith	Persons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Preservatives and Containers: 4 oz; 500 mL HNO_3

Methods for Analysis: Arsenic (SW846 3050B/6010B); Arsenic (SW846 3050B/6010B)

RUSH

Sample Information

No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 3050B/6010B)	Arsenic (SW846 3050B/6010B)		QC (MS/MSD)	TOTAL BOTTLES
1	OU5-CSA-6-4316WinP-(20,80)	6/3/03	1049	SOIL	EC, TP	X				1
2	OU5-CSA-6-4316WinP-(20,60)	6/3/03	1045	SOIL	EC, TP	X				1
3	OU5-CSA-6-4316WinP-(20,40)	6/3/03	1043	SOIL	EC, TP	X				1
4	OU5-CSA-6-4316WinP-(40,80)	6/3/03	1051	SOIL	EC, TP	X				1
5	OU5-CSA-6-4316WinP-(40,60)	6/3/03	1041	SOIL	EC, TP	X		"MS/MSD01"	1	1
6	OU5-CSA-6-4316WinP-(40,40)	6/3/03	1053	SOIL	EC, TP	X				1
7	OU5-CSA-6-4316WinP-(40,20)	6/3/03	1047	SOIL	EC, TP	X		"MS/MSD02"		1
8	OU5-CSA-6-4316WinP-(60,80)	6/3/03	1101	SOIL	EC, TP	X				1
9	OU5-CSA-6-4316WinP-(60,60)	6/3/03	1059	SOIL	EC, TP	X				1
10	OU5-CSA-6-4316WinP-(60,40)	6/3/03	1054	SOIL	EC, TP	X				1
11	OU5-CSA-6-4316WinP-(60,20)	6/3/03	1056	SOIL	EC, TP	X				1
12	OU5-CSA-6-4316WinP-(80,80)	6/3/03	1057	SOIL	EC, TP	X				1
13	OU5-CSA-6-4316WinP-(80,60)	6/3/03	1048	SOIL	EC, TP	X				1
14	OU5-CSA-6-4316WinP-(80,40)	6/3/03	1058	SOIL	EC, TP	X				1
15	OU5-CSA-6-4316WinP-(80,20)	6/3/03	1052	SOIL	EC, TP	X				1

	Date:	Time:
Relinquished By: ERIC CHENG	6/3/03	1400
Received By:	6/3/03	
Relinquished By:		
Received By:		
Received By (LAB):		

For Lab Use

GPL WORK ORDER #: 306007

① cyc rec. via email

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CHAIN OF CUSTODY

DATE: 6/3/03

COC #:

PAGE: 2 OF 2

GPL Project Manager:	D. Griffith	Parsons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Preservatives and Containers: 4 oz; 500 ml, HNO_3

Methods for Analysis: Arsenic (SW846 3050B/6010B); Arsenic (SW846 3050B/6010B); RUSH

Sample Information

No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 3050B/6010B)	Arsenic (SW846 3050B/6010B)	ICC (MS/MSD)	TOTAL BOTTLES
16	OU5-CSA-6-4316WInP-(100,100)	6/3/03	1104	SOIL	EC, TP	X			1
17	OU5-CSA-6-4316WInP-(100,80)	6/3/03	1055	SOIL	EC, TP	X			1
18	OU5-CSA-6-4316WInP-(100,60)	6/3/03	1050	SOIL	EC, TP	X			1
19	OU5-CSA-6-4316WInP-(100,40)	6/3/03	1044	SOIL	EC, TP	X			1
20	OU5-CSA-6-4316WInP-(120,100)	6/3/03	1106	SOIL	EC, TP	X			1
21	OU5-CSA-6-4316WInP-(120,80)	6/3/03	1042	SOIL	EC, TP	X			1
22	OU5-CSA-6-4316WInP-(120,60)	6/3/03	1040	SOIL	EC, TP	X			1
23	OU5-CSA-6-4316WInP-(120,40)	6/3/03	1046	SOIL	EC, TP	X			1
24	OU5-CSA-6-4316WInP-(140,60)	6/3/03	1102	SOIL	EC, TP	X			1
25	OU5-CSA-6-4316WInP-(140,40)	6/3/03	1100	SOIL	EC, TP	X			1
26	OU5-CSA-6-4316WInP-DUP01	6/3/03	1200	SOIL	EC, TP	X			1
27	OU5-CSA-6-4316WInP-DUP02	6/3/03	1300	SOIL	EC, TP	X			1
28	OU5-CSA-6-4316WInP-EB01	6/3/03	1205	SOIL	EC, TP		X		1
29	OU5-CSA-6-4316WInP-EB02	6/3/03	1305	SOIL	EC, TP		X		1
30	OU5-CSA-6-4316WInP-SB1	6/3/03	1130	SOIL	EC, TP	X			1

Relinquished By: ERIC CHENG	Date: 6/3/03	Time: 1400
Received By: DL Griffith	Date: 6/6/03	Time: ③ 1415
Relinquished By:	Date:	Time:
Received By:	Date:	Time:
Received By (LAB):	Date:	Time:

For Lab Use

GPL WORK ORDER #: 306007

③ COC rec. via email 8

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 306007
Client Name: Parson ES
Date Received: 6/3/03
Time Received: 14:15
Received By: Debbie

Carrier Name: GPL
Prepared (Logged In) By: _____ 6/3/03 (Initials Date)
Project: _____
Site: _____
VOA Holding Blank I.D. No: _____

	YES	NO
Airbill/Manifest Present?	—	✓
No. _____		
Shipping Container in Good Condition?	✓	—
Custody Seals Present on Shipping Container?	—	✓
Condition: Broken ____ Intact-not dated or signed ____ Intact-dated and signed ____		
Usage of Tamper Evident Type	—	✓
Chain-of-Custody Present?	✓	—
Chain-of-Custody Agrees with Sample Labels?	✓	—
Chain-of-Custody Signed?	✓	—
Packing Present in Shipping Container?	✓	—
Type of Packing Bag		
Custody seals on Sample Bottles?	—	✓
Condition: Good ____ Broken ____		
Total Number of Sample Bottles 28		
Total Number of Samples 28		
Samples Intact?	✓	—
Sufficient Sample Volume for Indicated Test?	✓	—

	YES	NO
Trip Blanks: No. of Sets ____	—	✓
Field Blanks: No. of Sets ____	—	✓
Equip. Blank: No. of Sets ____	—	✓
Field Duplicate: No. of Sets ____	—	✓
MS/MSD: No of Sets____	—	✓
VOA Vials Have Zero Headspace?	—	✓
Preservatives Added to Sample?	—	✓
pH Check Required?	—	✓
Performed By? ____	—	✓
Ice Present in Shipping Container?	✓	—

Container #	Temp.	Container #	Temp.
1	3.0		

Project Manager Contacted?
Name: Debbie
Date Contacted: 6/3/03

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A/

COMMENTS: _____

Checklist Completed By: _____

Date: 6/3/03

GPL - Maryland Laboratory

Cover Page - Inorganic Analysis Data Package

SDG: 306007

Client ID	Lab Sample ID:
OU5-CSA-6-4316WinP-(100,100)	S 306007-016-016-1/1
OU5-CSA-6-4316WinP-(100,40)	S 306007-019-019-1/1
OU5-CSA-6-4316WinP-(100,60)	S 306007-018-018-1/1
OU5-CSA-6-4316WinP-(100,80)	S 306007-017-017-1/1
OU5-CSA-6-4316WinP-(120,100)	S 306007-020-020-1/1
OU5-CSA-6-4316WinP-(120,40)	S 306007-023-023-1/1
OU5-CSA-6-4316WinP-(120,60)	S 306007-022-022-1/1
OU5-CSA-6-4316WinP-(120,80)	S 306007-021-021-1/1
OU5-CSA-6-4316WinP-(140,40)	S 306007-025-025-1/1
OU5-CSA-6-4316WinP-(140,60)	S 306007-024-024-1/1
OU5-CSA-6-4316WinP-(20,40)	S 306007-003-003-1/1
OU5-CSA-6-4316WinP-(20,60)	S 306007-002-002-1/1
OU5-CSA-6-4316WinP-(20,80)	S 306007-001-001-1/1
OU5-CSA-6-4316WinP-(40,20)	D 306007-007-007-1/1
OU5-CSA-6-4316WinP-(40,20)	S 306007-007-007-1/1
OU5-CSA-6-4316WinP-(40,20)	SP306007-007-007-1/1
OU5-CSA-6-4316WinP-(40,40)	S 306007-006-006-1/1
OU5-CSA-6-4316WinP-(40,60)	D 306007-005-005-1/1
OU5-CSA-6-4316WinP-(40,60)	S 306007-005-005-1/1
OU5-CSA-6-4316WinP-(40,60)	SP306007-005-005-1/1
OU5-CSA-6-4316WinP-(40,80)	S 306007-004-004-1/1
OU5-CSA-6-4316WinP-(60,20)	S 306007-011-011-1/1
OU5-CSA-6-4316WinP-(60,40)	S 306007-010-010-1/1
OU5-CSA-6-4316WinP-(60,60)	S 306007-009-009-1/1
OU5-CSA-6-4316WinP-(60,80)	S 306007-008-008-1/1
OU5-CSA-6-4316WinP-(80,20)	S 306007-015-015-1/1
OU5-CSA-6-4316WinP-(80,40)	S 306007-014-014-1/1
OU5-CSA-6-4316WinP-(80,60)	S 306007-013-013-1/1

Cover Page Equivalent

GPL - Maryland Laboratory

Cover Page - Inorganic Analysis Data Package

SDG: 306007

Client ID	Lab Sample ID:
OU5-CSA-6-4316WinP-(80,80)	S 306007-012-012-1/1
OU5-CSA-6-4316WinP-DUP01	S 306007-026-026-1/1
OU5-CSA-6-4316WinP-DUP02	S 306007-027-027-1/1
OU5-CSA-6-4316WinP-SB1	S 306007-028-028-1/1

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Steve Dill Name: Steve Dill

Date: 6-15-03 Title: Metals Supervisor

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-001-001-1/1 **Client ID:** OU5-CSA-6-4316WinP-(20,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.33 **Volume:** 100 **Percent Moisture:** 24.71

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**189.04**	**0.27**	**2.0**	**29.3**		**1**	**ICPST**	**6/06/03**	**1:32**

Comments: Sample Date: 06/03/03 Sample Time: 10:49 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-002-002-1/1 **Client ID:** OU5-CSA-6-4316WinP-(20,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 26.81

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**189.04**	**0.30**	**2.2**	**4.5**		**1**	**ICPST**	**6/06/03**	**1:40**

Comments: Sample Date: 06/03/03 Sample Time: 10:45 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-003-003-1/1 **Client ID:** OU5-CSA-6-4316WinP-(20,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.23 **Volume:** 100 **Percent Moisture:** 19.65

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	3.4		1	ICPST	6/06/03	1:48

Comments: Sample Date: 06/03/03 Sample Time: 10:43 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-004-004-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.17 **Volume:** 100 **Percent Moisture:** 34.24

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**189.04**	**0.35**	**2.6**	**5.6**		**1**	**ICPST**	**6/06/03**	**1:55**

Comments: Sample Date: 06/03/03 Sample Time: 10:51 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-005-005-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.23 **Volume:** 100 **Percent Moisture:** 29.73

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	3.3		1	ICPST	6/06/03	2:03

Comments: Sample Date: 06/03/03 Sample Time: 10:41 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-006-006-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 29.24

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	3.7		1	ICPST	6/06/03	3:00

Comments: Sample Date: 06/03/03 Sample Time: 10:53 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-008-008-1/1 **Client ID:** OU5-CSA-6-4316WinP-(60,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 26.14

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**189.04**	**0.30**	**2.2**	**14.4**		**1**	**ICPST**	**6/06/03**	**3:07**

Comments: Sample Date: 06/03/03 Sample Time: 11:01 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-009-009-1/1 **Client ID:** OU5-CSA-6-4316WmP-(60,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.19 **Volume:** 100 **Percent Moisture:** 37.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.36	2.7	4.7		1	ICPST	6/06/03	3:15

Comments: Sample Date: 06/03/03 Sample Time: 10:59 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-010-010-1/1 **Client ID:** OU5-CSA-6-4316WinP-(60,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.26 **Volume:** 100 **Percent Moisture:** 31.74

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	3.8		1	ICPST	6/06/03	3:23

Comments: Sample Date: 06/03/03 Sample Time: 10:54 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-011-011-1/1 **Client ID:** OU5-CSA-6-4316WinP-(60,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 29.83

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**189.04**	**0.32**	**2.4**	**7.0**		**1**	**ICPST**	**6/06/03**	**3:30**

Comments: Sample Date: 06/03/03 Sample Time: 10:56 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-012-012-1/1 **Client ID:** OU5-CSA-6-4316WinP-(80,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.23 **Volume:** 100 **Percent Moisture:** 25.79

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	2.2	9.4		1	ICPST	6/06/03	3:38

Comments: Sample Date: 06/03/03 Sample Time: 10:57 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-013-013-1/1 **Client ID:** OU5-CSA-6-4316WinP-(80,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.19 **Volume:** 100 **Percent Moisture:** 28.50

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	2.4	7.5		1	ICPST	6/06/03	3:46

Comments: Sample Date: 06/03/03 Sample Time: 10:48 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-014-014-1/1 **Client ID:** OU5-CSA-6-4316WinP-(80,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.42 **Volume:** 100 **Percent Moisture:** 25.28

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.25	1.9	5.8		1	ICPST	6/06/03	4:11

Comments: Sample Date: 06/03/03 Sample Time: 10:58 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-015-015-1/1 **Client ID:** OU5-CSA-6-4316WinP-(80,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 38.31

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.36	2.7	8.2		1	ICPST	6/06/03	4:19

Comments: Sample Date: 06/03/03 Sample Time: 10:52 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-016-016-1/1 **Client ID:** U5-CSA-6-4316WinP-(100,10

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 28.03

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**189.04**	**0.31**	**2.3**	**4.8**		**1**	**ICPST**	**6/06/03**	**4:27**

Comments: Sample Date: 06/03/03 Sample Time: 11:04 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-017-017-1/1 **Client ID:** U5-CSA-6-4316WinP-(100,80

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.23 **Volume:** 100 **Percent Moisture:** 25.40

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.2	13.6		1	ICPST	6/06/03	4:35

Comments: Sample Date: 06/03/03 Sample Time: 10:55 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-018-018-1/1 **Client ID:** U5-CSA-6-4316WinP-(100,60

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.29 **Volume:** 100 **Percent Moisture:** 22.12

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	15.7		1	ICPST	6/06/03	4:42

Comments: Sample Date: 06/03/03 Sample Time: 10:50 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-019-019-1/1 **Client ID:** U5-CSA-6-4316WinP-(100,40

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 33.29

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.33	2.5	27.6		1	ICPST	6/06/03	4:50

Comments: Sample Date: 06/03/03 Sample Time: 10:44 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-020-020-1/1 **Client ID:** U5-CSA-6-4316WinP-(120,10

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 39.56

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.37	2.7	6.5		1	ICPST	6/06/03	4:58

Comments: Sample Date: 06/03/03 Sample Time: 11:06 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-021-021-1/1 **Client ID:** U5-CSA-6-4316WinP-(120,80

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.15 **Volume:** 100 **Percent Moisture:** 21.83

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	2.2	4.5		1	ICPST	6/06/03	5:06

Comments: Sample Date: 06/03/03 Sample Time: 10:42 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-007-007-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.12 **Volume:** 100 **Percent Moisture:** 21.61

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	4.2		1	ICPST	6/06/03	5:47

Comments: Sample Date: 06/03/03 Sample Time: 10:47 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-022-022-1/1 **Client ID:** U5-CSA-6-4316WmP-(120,60

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 25.19

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	2.2	4.4		1	ICPST	6/06/03	6:25

Comments: Sample Date: 06/03/03 Sample Time: 10:40 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-023-023-1/1 **Client ID:** U5-CSA-6-4316WinP-(120,40

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.24 **Volume:** 100 **Percent Moisture:** 34.10

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.33	2.4	15.3		1	ICPST	6/06/03	6:33

Comments: Sample Date: 06/03/03 Sample Time: 10:46 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-024-024-1/1 **Client ID:** U5-CSA-6-4316WinP-(140,60

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.35 **Volume:** 100 **Percent Moisture:** 20.60

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.25	1.9	5.9		1	ICPST	6/06/03	6:41

Comments: Sample Date: 06/03/03 Sample Time: 11:02 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-025-025-1/1 **Client ID:** U5-CSA-6-4316WinP-(140,40

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.19 **Volume:** 100 **Percent Moisture:** 31.51

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**189.04**	**0.33**	**2.5**	**13.2**		**1**	**ICPST**	**6/06/03**	**6:49**

Comments: Sample Date: 06/03/03 Sample Time: 11:00 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-026-026-1/1 **Client ID:** OU5-CSA-6-4316WinP-DUP01

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.17 **Volume:** 100 **Percent Moisture:** 27.71

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	2.4	4.1		1	ICPST	6/06/03	6:56

Comments: Sample Date: 06/03/03 Sample Time: 12:00 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306007

Lab Sample ID: S 306007-027-027-1/1 **Client ID:** OU5-CSA-6-4316WinP-DUP02

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.25 **Volume:** 100 **Percent Moisture:** 22.38

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.28	2.1	24.1		1	ICPST	6/06/03	7:22

Comments: Sample Date: 06/03/03 Sample Time: 01:00 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306007

Lab Sample ID: S 306007-028-028-1/1 **Client ID:** OU5-CSA-6-4316WinP-SB1

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.16 **Volume:** 100 **Percent Moisture:** 18.83

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.1	2.9		1	ICPST	6/06/03	7:30

Comments: Sample Date: 06/03/03 Sample Time: 11:30 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard **SDG:** 306007

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 90% - 110%

Standard Source: ABSOLUTE **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 6/05/03 6:16 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	420.72	105.2								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306007

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV 6/05/03 6:30 PM		CVCCV3 6/05/03 8:08 PM		CVCCV3 6/05/03 9:40 PM		CVCCV3 6/05/03 11:13 PM		CVCCV4 6/06/03 12:46 AM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	507.82	101.6	502.16	100.4	506.12	101.2	508.68	101.7	516.71	103.3

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306007

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV4 6/06/03 2:21 AM Found	% Rec	CVCCV4 6/06/03 3:56 AM Found	% Rec	CVCCV5 6/06/03 5:31 AM Found	% Rec	CVCCV5 6/06/03 7:06 AM Found	% Rec	CVCCV5 6/06/03 8:03 AM Found	% Rec
Arsenic	189.042	500.0	514.60	102.9	510.08	102.0	513.22	102.6	519.97	104.0	519.04	103.8

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard SDG: 306007

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 50% - 150%

Standard Source: HIGH PURITY **Standard ID:** REPORTING LIMIT

Element	WL/ Mass	True Conc	REPORT LIMIT 6/05/03 6:44 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	21.48	107.4								

Form 2B Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** 306007

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BIICB 6/05/03 6:23 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 306007

Lab Sample ID: BLK60731

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.27	2.0	0.27	U	1	ICPST	6/06/03	1:17

Comments: Clarity(After): CLEAR Texture: FINE

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 306007

Lab Sample ID: BLK60732

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.27	2.0	0.27	U	1	ICPST	6/06/03	5:16

Comments: Clarity(After): CLEAR Texture: FINE

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** 306007

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 6/05/03 6:37 PM		BCCCB3 6/05/03 8:15 PM		BCCCB3 6/05/03 9:48 PM		BCCCB3 6/05/03 11:21 PM		BCCCB4 6/06/03 12:53 AM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** 306007

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB4 6/06/03 2:29 AM		BCCCB4 6/06/03 4:04 AM		BCCCB5 6/06/03 5:39 AM		BCCCB5 6/06/03 7:14 AM		BCCCB5 6/06/03 8:11 AM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 306007

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 6/05/03 6:59 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		-3				

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB **SDG:** 306007

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	IBICSABI 6/05/03 7:06 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	104.3	104.3								

5.04.5

NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 306007

Spike Sample ID: SP306007-005-005-1/1

Original Sample ID: S 306007-005-005-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.46 **Volume:** 100 **Percent Moisture:** 29.73

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	3.3		12.8		9.7471	97.0	1	1	ICPST	6/06/03	2:03	6/06/03	2:36

Comments: Sample Date: 06/03/03 Sample Time: 10:41 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits
E Serial dilution percent difference not within limits
U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results

SDG: 306007

Spike Sample ID: SP306007-007-007-1/1

Original Sample ID: S 306007-007-007-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.37 **Volume:** 100 **Percent Moisture:** 21.61

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	4.2		12.9		9.3115	93.5	1	1	ICPST	6/06/03	5:47	6/06/03	6:02

Comments: Sample Date: 06/03/03 Sample Time: 10:47 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

5.04.5

NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits
E Serial dilution percent difference not within limits
U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 306007

Duplicate Sample ID: D 306007-005-005-1/1

Original Sample ID: S 306007-005-005-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.31 **Volume:** 100 **Percent Moisture:** 29.73

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	3.3		3.5		5.4	1	1	ICPST	6/06/03	2:03	6/06/03	2:11

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 6 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 306007

Duplicate Sample ID: D 306007-007-007-1/1

Original Sample ID: S 306007-007-007-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.25 **Volume:** 100 **Percent Moisture:** 21.61

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	4.2		4.5		6.6	1	1	ICPST	6/06/03	5:47	6/06/03	5:54

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 6 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 306007

Lab Sample ID: BKS60731

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	9.8	97.9		80-120	1	ICPST	6/06/03	1:24

Comments: Clarity(After): CLEAR

NC Percent recovery was not calculated
U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 306007

Lab Sample ID: BKS60732

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	9.7	97.4		80- Re	1	ICPST	6/06/03	5:23

Comments: Clarity(After): CLEAR

NC Percent recovery was not calculated

U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 306007

Serial Dilution Sample ID: SE306007-005-005-1/1

Original Sample ID: S 306007-005-005-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60731

Weight: 1.23 **Volume:** 100 **Percent Moisture:** 29.73

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	3.3		2.8	B	16.7	1	5	ICPST	6/06/03	2:03	6/06/03	2:52

Comments: Sample Date: 06/03/03 Sample Time: 10:41 AM Color(Before): BROWN Color(After): YELLOW Clarity(After):

5.04.5

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 306007

Serial Dilution Sample ID: SE306007-007-007-1/1

Original Sample ID: S 306007-007-007-1/1 **Client ID:** OU5-CSA-6-4316WinP-(40,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/05/03 **Prep Batch:** 60732

Weight: 1.12 **Volume:** 100 **Percent Moisture:** 21.61

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	4.2		4.2	B	1.5	1	5	ICPST	6/06/03	5:47	6/06/03	6:18

Comments: Sample Date: 06/03/03 Sample Time: 10:47 AM Color(Before): BROWN Color(After): YELLOW Clarity(After):

E Serial dilution percent difference not within limits
U Result is less than the IDL
B Result is between IDL and RL

Form 9 Equivalent

GPL Laboratories, LLLP | **ICP ANALYSIS LOG** | *Document Control No: GP_M_116*

Instrument ID: Trace (375590)	Inst. Method: TRACEV8 Nebulizer:	Analytical Batch No: 030605J
Profile: 0.0143	Intensity: 8075	At Setting: 287

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
306003	CH2MHILL	60692	183	S	6.3.03	ILM04.1	2x ON 004
305133	TETRATECH	60730	187	W	6.5.03	6010	
306008	PARSONS	↓	↓	↓			
			190	BIOTA			FISH BKS(190): Sb, Ag FAILED (60ppb)
306007	PARSONS	60731	188	S			As ONLY
306007	↓	60732	189	↓	↓	↓	BLK60732: Mo FAILED — 8 SAMPLES 10x HIGHER.

Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 19542
S0	057-148-06	ICV	23179	Samples:
S1	22871	CCV	23002	305133-001-055-1/1
S2	22872	ICSA	23054	306007-005-005 1/1
S3	23029	ICSAB	23055	306007-007-007-1/1
S4	-	CRI	23041	
S5	-	Low Ck	23042	
Ints	23177	LR	23180	

Analyst: [signature] Date: 6.5.03 Reviewed: [signature] Date: 6/7/03

GPL Laboratories, LLLP

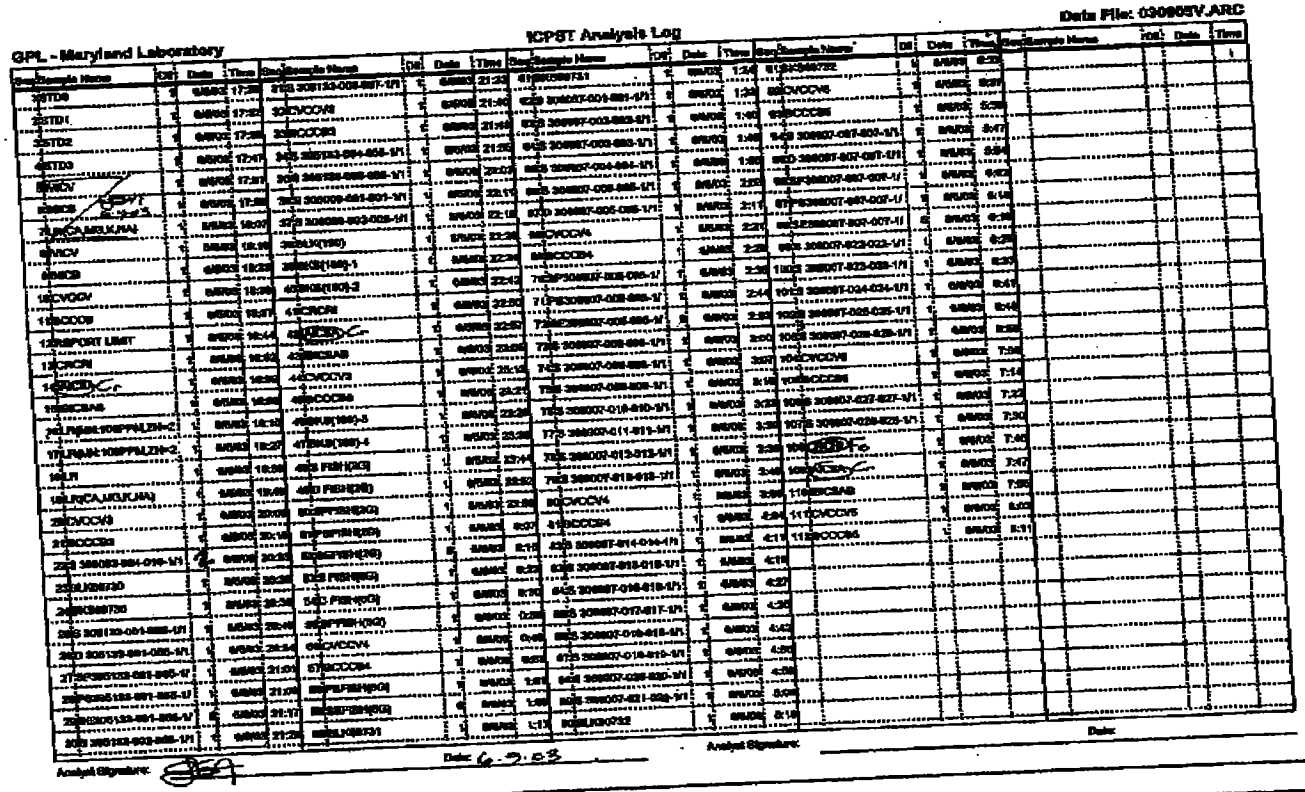
ICP ANALYSIS LOG

Document Control No: GP_M_116

Data File: 030605V.ARC

ICPST Analysis Log

GPL - Maryland Laboratory



Date: 6-5-03

Analyst Signature:

Sample Dilutions:

306007-012-012-1 / 1 : 5x For Cu
306007-027-027-1 / 1 : 2x For Cu } As Only Diluted Samples Not Redo
306007-014-014-1 / 1 : 2x For K
or FISH (5g) : 2x For K

GPL Laboratories, LLLP *Document Control No: GP_M_111*

Metals Preparation & Sample Description Log

Date: 06-05-02 Prep: 200.7 / 3005A / 3020A / 3050B / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 105 189

Analyst: KH Comments: HOD BLOCK DIGESTION (Soil)

Reviewed by: AD Date: 6/13/02 Spike Witness: RA Prep. Seq: 60732

	GPL Work Order No.	Sample	Frac	SIZE mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	189		1.00	100	S				Clear	-
2	BKS	189		1.00							-
3	306007	002	-002	1.12		Soil	Brown	Yellow	Medium		-
4		DUP		1.25							
5		SPK		1.37							
6		022	-022	1.21							
7		023	-023	1.24							
8		024	-024	1.35							
9		025	-025	1.19							
10		026	-026	1.17							
11		027	-027	1.25							
12		028	-028	1.16							
13											
14											
15											
16											
17											
18						MSS					
19											
20											
21											
22											
23											
24											

06-05-02

LCS ID / Amt. Added (ml, g): 0.2 ml (22696, 22697, 22698)	HNO3(1+1) ID: GP-057-159-02
Spiking ID / Amt Added (ml): 0.2 ml (22696, 22697, 22698)	HNO3(conc) ID: GP-057-007-14
	HCl(conc) ID: GP-057-002-04
Temperature, C: 94°	HCl(1+1) ID: -
	Peroxide ID: GP-057-002-12

GPL Laboratories, LLLP *Document Control No: GP_M_111*

Metals Preparation & Sample Description Log

Date: 06-05-8 Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 105 188

Analyst: MH Comments: HOT BLOCK DIGESTION (Soil)

Reviewed by: JD Date: 6/13/52 Spike Witness: RA Prep. Seq: 62731

	GPL Work Order No.	Sample	Frac	SIZE mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	188		1.00	100	S				Clear	C
2	BKS	188		1.00							C
3	306007	001	-001	1.33		Soil	Brown	Yellow	Medium		7
4		002	-002	1.22							
5		003	-003	1.23							
6		004	-004	1.17							
7		005	-005	1.23							
8		DUP		1.31							
9		SPK		1.46							
10		006	-006	1.22							
11		008	-008	1.21							
12		009	-009	1.19							
13		010	-010	1.26							
14		011	-011	1.21							
15		012	-012	1.23							
16		013	-013	1.19							
17		014	-014	1.42							
18		015	-015	1.22							
19		016	-016	1.21							
20		017	-017	1.23							
21		018	-018	1.29							
22		019	-019	1.21							
23		020	-020	1.22							
24		021	-021	1.15						MH-006-05/03	

LCS ID / Amt. Added (ml , g): 0.9 ml (22696, 22697, 22698)	HNO3(1+1) ID: GP-057-159-02
Spiking ID / Amt Added (ml): 0.9 ml (22696, 22697, 22698)	HNO3(conc) ID: GP-057-002-14
	HCl(conc) ID: GP-057-007-04
Temperature, C: 94°	HCl(1+1) ID:
	Peroxide ID: GP-057-007-12

PERCENT SOLIDS DETERMINATION LOG

Method Title: %Solids
Method Reference: OLMO4.2 / ASTM D2216

Analyst: RLS
Reviewed By / Date: _____

Analytical Balance ID: Mettler AE 240
Drying Oven Temp Maintained at 103-105C:
Time In (Oven): 3:00 pm Temp 105 C Date: 6-5-03
Time Out (Oven): 10:20 AM Temp 105 C Date: 6-6-03
Dessicator Temp: 21 C Dessicator % Humidity (<20%): 14%

W.O.#	Frac.	Client ID	Weight of Dish	Weight of wet Sample + Dish	Weight of dry Sample +Dish	DUP RPD <15%
306005	010	MEM05	0.9860	10.7240	8.8240	
	011	SOM05	0.9863	10.1190	8.9354	
	012	TEM05	0.9797	10.0890	5.9070	
dup	dup	dup	0.9770	10.1240	5.8427	1.1%
306007	001	OVS-CSA-6-43/60 Wiper (2nd)	0.9850	10.4182	8.0890	
	002	OVS-CSA-6-43/60 Wiper (3rd)	0.9837	10.3300	7.9240	
	003	OVS-CSA-6-43/60 Wiper-(2nd) (40/60)	0.9936	10.3820	8.5370	
	004	OVS-CSA-6-43/60 Wiper (1st)	0.9870	10.2955	7.1084	
	005	OVS-CSA-6-43/60 Wiper (40/60)	0.9813	10.3020	7.5395	
dup	dup	dup (40/60)	0.9884	10.2940	7.5044	0.3%
	006	OVS-CSA-6-43/60 Wiper (40/60)	0.9812	10.2990	7.5742	
	007	OVS-CSA-6-43/60 Wiper (40/60)	0.9866	10.3170	8.3010	
dup	dup	dup (40/60)	0.9866	10.3060	8.0393	3.2%
	008	OVS-CSA-6-43/60 Wiper (60/40)	0.9830	10.5370	8.3665	
	009	OVS-CSA-6-43/60 Wiper (60/40)	0.9823	10.6974	7.0476	
	010	OVS-CSA-6-43/60 Wiper (60/40)	0.9880	10.4184	7.4250	
	011	OVS-CSA-6-43/60 Wiper (60/40)	0.9820	10.4070	7.5954	
	012	OVS-CSA-6-43/60 Wiper (60/40)	0.9810	10.4310	7.9935	
	013	OVS-CSA-6-43/60 Wiper (60/40)	0.9770	10.0577	7.4696	
	014	OVS-CSA-6-43/60 Wiper (40/60)	0.9837	10.2223	8.2610	
	015	OVS-CSA-6-43/60 Wiper (40/60)	0.9830	10.1655	6.6480	
	016	OVS-CSA-6-43/60	0.9790	10.2950	7.6840	
!	017	OVS-CSA-6-43/60	0.9790	10.2650	7.9060	
	018	OVS-CSA-6-43/60	0.9820	10.0790	8.0563	
	019	OVS-CSA-6-43/60	0.9790	10.5154	7.3410	
	020	OVS-CSA-6-43/60	0.9785	10.4880	6.7258	
	021	OVS-CSA-6-43/60	0.9844	10.1618	8.1585	
	022	OVS-CSA-6-43/60	0.9870	10.2998	7.9842	
	023	OVS-CSA-6-43/60	0.9825	10.9080	7.5233	

Comments: _____

GPL Laboratories, LLLP

Document Control No: GP_W_208

PERCENT SOLIDS DETERMINATION LOG

Method Title: %Solids
Method Reference: OLMO4.2 / ASTM D2216

Analyst: RO5
Reviewed By / Date: _____

Analytical Balance ID: Mettler AE 240
Drying Oven Temp Maintained at 103-105C:
Time In (Oven): 3:00 pm Temp 105°C Date: 6-5-03 RO5
Time Out (Oven): 10:00AM Temp 105°C Date: 6-6-03
Dessicator Temp: 21°C Dessicator % Humidity (<20%): 14%

W.O.#	Frac.	Client ID	Weight of Dish	Weight of wet Sample + Dish	Weight of dry Sample +Dish	DUP RPD <15%
80607	024	OV5-CIA-6-43\6W-Wipe(Wet)	0.9816	10.2940	8.3756	
	025	OV5-CIA-6-43\6W	0.9830	10.0410	7.1872	
	026	OV5-CIA-6-43\6W	0.9830	10.2740	8.0614	
	027	OV5-CIA-6-43\6W	0.9797	10.2470	8.0580	
	028	OV5-CIA-6-43\6W	0.9810	10.0723	8.3600	0.2%
DUP	DUP	DUP	0.9800	10.1130	8.3760	

RO5 6-5-03

Comments: _____

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Spring Valley OU-5

Date Printed: June 13, 2003

GPL ID	Client ID
306008-001-001-1/1	OU5-CSA-6-4316WinP-EB01
306008-002-002-1/1	OU5-CSA-6-4316WinP-EB02

GPL
Laboratories

EBMCS clean

CASE NARRATIVE

CLIENT: PARSONS ENGINEERING SCIENCE
PROJECT/SITE: SPRING VALLEY OU-5
WORK ORDER(S): 306008
REVIEW DATE: 6/13/03

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Two water samples were received on 06/03/2003. The samples were delivered by GPL courier. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m". Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Metals

1. Two water samples were analyzed for arsenic by EPA SW846 methods.
2. A matrix spike, duplicate, and serial dilution were performed on the batch sample 305133-001. They were within the control limits.
3. Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
4. All GPL QA/QC criteria were met.

Project Manager

Laboratory Director

GPL LABORATORIES, LLLP

Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

Organics:

B = Indicates that the analyte was found in the associated blank as well as in the sample

D = Indicates that the analyte was reported from a diluted analysis

E = Indicates that the concentration detected exceeded the calibration range of the instrument

J = Value is less than the reporting limits but greater than the MDL

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

Metals:

B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)

H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit

N = Spiked sample recovery not within control limits

* = Duplicate analysis not within control limits

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802

CHAIN OF CUSTODY

DATE: 6/3/03

COC #:

PAGE: 2 OF 2

GPL Project Manager:	D. Griffith	Persons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Sample Information						Preservatives and Containers																											
						4 oz						500 ml, HNO_3																						
						Methods for Analysis																								RUSH				
No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 9056/6010B)						Arsenic (SW846 3060B/6010B)																				DC (MS/MSD)	TOTAL BOTTLES
16	OU5-CSA-6-4316WInP-(100,100)	6/3/03	1104	SOIL	EC, TP	X																											1
17	OU5-CSA-6-4316WInP-(100,80)	6/3/03	1055	SOIL	EC, TP	X																											1
18	OU5-CSA-6-4316WInP-(100,60)	6/3/03	1050	SOIL	EC, TP	X																											1
19	OU5-CSA-6-4316WInP-(100,40)	6/3/03	1044	SOIL	EC, TP	X																											1
20	OU5-CSA-6-4316WInP-(120,100)	6/3/03	1106	SOIL	EC, TP	X																											1
21	OU5-CSA-6-4316WInP-(120,80)	6/3/03	1042	SOIL	EC, TP	X																											1
22	OU5-CSA-6-4316WInP-(120,60)	6/3/03	1040	SOIL	EC, TP	X																											1
23	OU5-CSA-6-4316WInP-(120,40)	6/3/03	1046	SOIL	EC, TP	X																											1
24	OU5-CSA-6-4316WInP-(140,80)	6/3/03	1102	SOIL	EC, TP	X																											1
25	OU5-CSA-6-4316WInP-(140,40)	6/3/03	1100	SOIL	EC, TP	X																											1
26	OU5-CSA-6-4316WInP-DUP01	6/3/03	1200	SOIL	EC, TP	X																											1
27	OU5-CSA-6-4316WInP-DUP02	6/3/03	1300	SOIL	EC, TP	X																											1
28	OU5-CSA-6-4316WInP-EB01	6/3/03	1205	SOIL	EC, TP							X																					1
29	OU5-CSA-6-4316WInP-EB02	6/3/03	1305	SOIL	EC, TP							X																					1
30	OU5-CSA-6-4316WInP-SB1	6/3/03	1130	SOIL	EC, TP	X																											1

Relinquished By: ERIC CHENG	Date: 6/3/03	Time: 1400	For Lab Use
Received By:	Date: 6/3/03	Time: 1415	GPL WORK ORDER #: 306008
Relinquished By:	Date:	Time:	
Received By:	Date:	Time:	
Received By (LAB):	Date:	Time:	

@ COC rec. via email
8

GPL Laboratories, LLLP

Sample Preservation Check Documentation Form

Work Order: 306008

Parameter: / Preservative: / pH Value	Metals HN03 <2	Phenol H2SO4 <2	TPH O&G H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide NaOH >12	Sulfide NaOH >9	Radiology H2SO4 <2	Other Preservations
Client ID								
005-CSA-6-4316W,mk FM	<2							
005-CSA-6-4316W, mP-Em	<2							

Sample Preservation Check Performed By: [signature] Date: 6/3/03

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 306008
Client Name: Parsons ES
Date Received: 6/5/03
Time Received: 14:15
Received By: Debbie

Carrier Name: G/C
Prepared (Logged In) By: [illegible] 6/5/03 (Initials Date)
Project:
Site:
VOA Holding Blank I.D. No:

	YES	NO
Airbill/Manifest Present?		✓
No.		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?	✓	
Condition: Broken		
Intact-not dated or signed		
Intact-dated and signed		
Usage of Tamper Evident Type		✓
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present in Shipping Container?		✓
Type of Packing		
Custody seals on Sample Bottles?		✓
Condition: Good		
Broken		
Total Number of Sample Bottles 2		
Total Number of Samples 2		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks: No. of Sets		✓
Field Blanks: No. of Sets		✓
Equip. Blank: No. of Sets		✓
Field Duplicate: No. of Sets		✓
MS/MSD: No of Sets		✓
VOA Vials Have Zero Headspace?		✓
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By? [illegible]	✓	
Ice Present in Shipping Container?	✓	

Container #	Temp.	Container #	Temp.
1	3.0		

Project Manager Contacted?
Name: [illegible]
Date Contacted: 6/5/03

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A

COMMENTS: The two samples are water not soil.

Checklist Completed By: [signature]
Date: 6/5/03

GPL - Maryland Laboratory

Cover Page - Inorganic Analysis Data Package

SDG: 306008

Client ID	Lab Sample ID:
A2GLMW0801	D 305133-001-055-1/1
A2GLMW0801	S 305133-001-055-1/1
A2GLMW0801	SP305133-001-055-1/1
OU5-CSA-6-4316WinP-EB01	S 306008-001-001-1/1
OU5-CSA-6-4316WinP-EB02	S 306008-002-002-1/1

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Steve Dill

Date: 6-12-03 Title: Metals Supervisor

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306008

Lab Sample ID: S 306008-001-001-1/1 **Client ID:** OU5-CSA-6-4316WinP-EB01

Matrix: Water **Units:** ug/L **Prep Date:** 6/05/03 **Prep Batch:** 60730

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	4.9	20.0	4.9	U	1	ICPST	6/05/03	22:11

Comments: Sample Date: 06/03/03 Sample Time: 12:05 PM Color(Before): COLORLESS Color(After): COLORLESS
Clarity(Before): CLEAR Clarity(After): CLEAR

E Serial dilution percent difference not within limits
U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306008

Lab Sample ID: S 306008-002-002-1/1 **Client ID:** OU5-CSA-6-4316WinP-HB02

Matrix: Water **Units:** ug/L **Prep Date:** 6/05/03 **Prep Batch:** 60730

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	4.9	20.0	4.9	U	1	ICPST	6/05/03	22:19

Comments: Sample Date: 06/03/03 Sample Time: 01:05 PM Color(Before): COLORLESS Color(After): COLORLESS Clarity(Before): CLEAR Clarity(After): CLEAR

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306008

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV 6/05/03 6:30 PM Found	% Rec	CVCCV3 6/05/03 8:08 PM Found	% Rec	CVCCV3 6/05/03 9:40 PM Found	% Rec	CVCCV3 6/05/03 11:13 PM Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	507.82	101.6	502.16	100.4	506.12	101.2	508.68	101.7		

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard **SDG:** 306008

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 90% - 110%

Standard Source: ABSOLUTE **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 6/05/03 6:16 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	420.72	105.2								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** 306008

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 50% - 150%

Standard Source: HIGH PURITY **Standard ID:** REPORTING LIMIT

Element	WL/ Mass	True Conc	REPORT LIMIT 6/05/03 6:44 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	21.48	107.4								

Form 2B Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** 306008

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BIICB 6/05/03 6:23 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	4.9	U								

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 306008

Lab Sample ID: BLK60730

Matrix: Water **Units:** ug/L **Prep Date:** 6/05/03 **Prep Batch:** 60730

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	4.9	20.0	4.9	U	1	ICPST	6/05/03	20:30

Comments: Color(Before): COLORLESS Color(After): COLORLESS Clarity(Before): CLEAR Clarity(After): CLEAR

U Result is less than the IDL

B Result is between IDL and RL

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** 306008

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 6/05/03 6:37 PM		BCCCB3 6/05/03 8:15 PM		BCCCB3 6/05/03 9:48 PM		BCCCB3 6/05/03 11:21 PM			
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	4.9	U	4.9	U	4.9	U	4.9	U		

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 306008

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 6/05/03 6:59 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		-3				

U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB **SDG:** 306008

Instrument: ICPST **Units:** ug/L

Chart Number: 030605V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	IBICSABI 6/05/03 7:06 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	104.3	104.3								

5.04.5

NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 306008

Spike Sample ID: SP305133-001-055-1/1

Original Sample ID: S 305133-001-055-1/1 **Client ID:** A2GLMW0801

Matrix: Water **Units:** ug/L **Prep Date:** 6/05/03 **Prep Batch:** 60730

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	4.9	U	51.2		50	102.4	1	1	ICPST	6/05/03	20:46	6/05/03	21:01

Comments: Sample Date: 05/21/03 Sample Time: 09:45 AM Color(Before): COLORLESS Color(After): COLORLESS
Clarity(Before): CLEAR Clarity(After): CLEAR

5.04.5

NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits
E Serial dilution percent difference not within limits
U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 306008

Duplicate Sample ID: D 305133-001-055-1/1

Original Sample ID: S 305133-001-055-1/1 **Client ID:** A2GLMW0801

Matrix: Water **Units:** ug/L **Prep Date:** 6/05/03 **Prep Batch:** 60730

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	4.9	U	4.9	U		1	1	ICPST	6/05/03	20:46	6/05/03	20:54

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 6 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 306008

Lab Sample ID: BKS60730

Matrix: Water **Units:** ug/L **Prep Date:** 6/05/03 **Prep Batch:** 60730

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	50.0	55.3	110.5		80-120	1	ICPST	6/05/03	20:38

Comments: Color(Before): COLORLESS Color(After): COLORLESS Clarity(Before): CLEAR Clarity(After): CLEAR

NC Percent recovery was not calculated

U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 306008

Serial Dilution Sample ID: SE305133-001-055-1/1

Original Sample ID: S 305133-001-055-1/1 **Client ID:** A2GLMW0801

Matrix: Water **Units:** ug/L **Prep Date:** 6/05/03 **Prep Batch:** 60730

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	4.9	U	24.5	U		1	5	ICPST	6/05/03	20:46	6/05/03	21:17

Comments: Sample Date: 05/21/03 Sample Time: 09:45 AM Color(Before): COLORLESS Color(After): COLORLESS Clarity(

5.04.5

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

GPL Laboratories, LLLP | **ICP ANALYSIS LOG** | *Document Control No: GP_M_116*

Instrument ID: Trace (375590) Inst. Method: TRACE V8 Nebulizer: Analytical Batch No: 030605V
Profile: 0.0143 Intensity: 8075 At Setting: 257

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
306003	CH2MHILL	60692	183	S	6.3.03	ILM04.1	2x on 004
305133	TEMPLETON	60730	187	W	6.5.03	6010	
306008	PARSONS	↓	↓	↓	↓	↓	
			190	BIOTA			FISH BKS(190): Sb, Ag FAILED (50ppb)
306007	PARSONS	60731	188	S			Ag ONLY
306007	↓	60732	189	↓	↓	↓	BLK60732: Mo FAILED — ALL SAMPLES 10x HIGHER. ↓

6/7/03

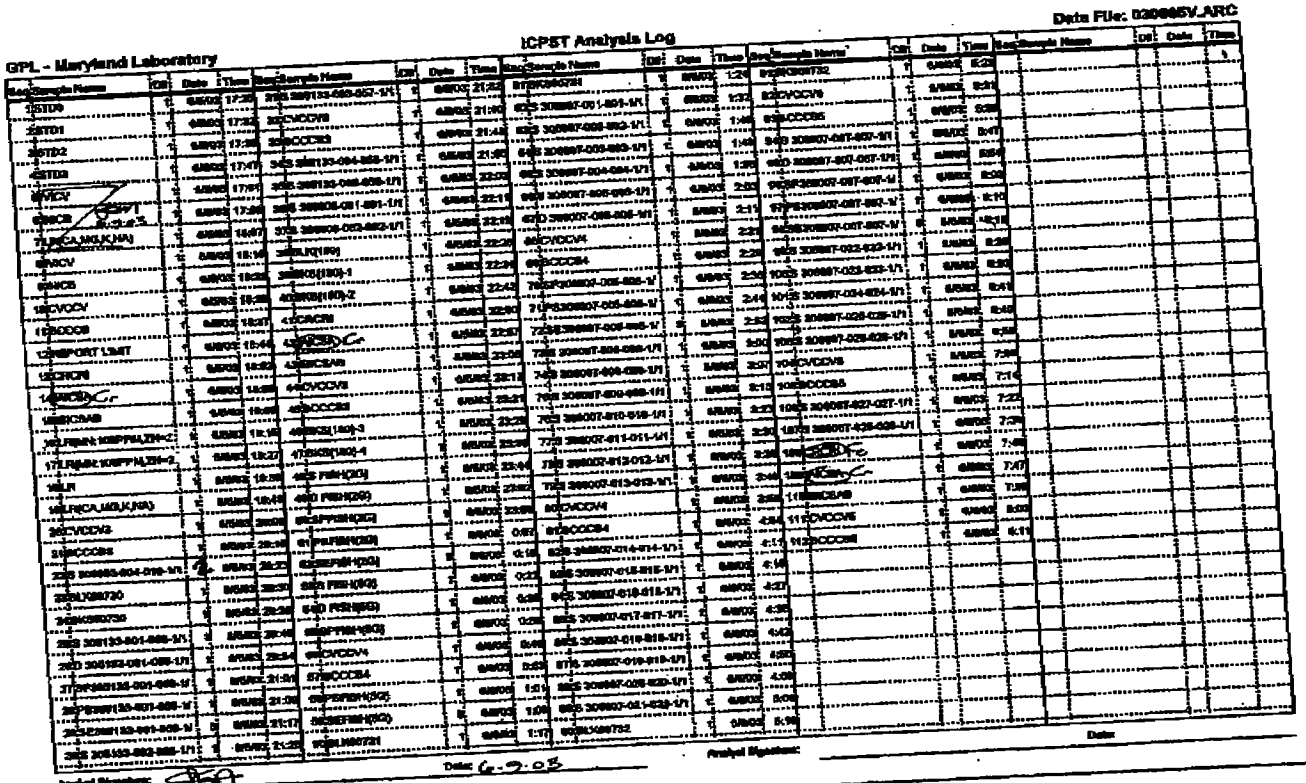
Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 19542
S0	057-148-06	ICV	23179	Samples:
S1	22871	CCV	23002	305133-001-055-1/1
S2	22872	ICSA	23054	306007-005-005-1/1
S3	23029	ICSAB	23055	306007-007-007-1/1
S4	"	CRI	23041	
S5	"	Low Ck	23042	
Ints	23177	LR	23180	

Analyst: Date: 6.5.03 Reviewed: Date: 6/7/03

ICPST Analysis Log

GPL - Maryland Laboratory

Data File: 030605V_ARC



Analyst Signature: [signature] Date: 6-9-05

Analyst Signature: Date

Sample Dilutions:

306007-012-012-1 / 1:5x For Cu
306007-027-027-1 / 1:2x For Cu } As Only Dilutions Not Read
306007-014-014-1 / 1:2x For K
or FISH (5g): 2x for K

GPL Laboratories, LLLP *Document Control No: GP_M_111*

Metals Preparation & Sample Description Log

Date: 06-05-03 Prep: 200.7 / 3005A / 3020A / 3050B (3010A) / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 105 187

Analyst: HSJ Comments: HOT PLATE DIGESTION (Water-TOTAL)

Reviewed by: [illegible] Date: 6/12/03 Spike Witness: MP Prep. Seq: 60730

	GPL Work Order No.	Sample	Frac	SIZE (mL) (g)	Final Vol. (mL)	Matrix S, W Other	Color Before	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
							R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.				
1	BLK	187		100	100	Extra Water	Colorless	Colorless	Clear	Clear	4-5
2	BKS	187									
3	~~305120~~	~~005~~	~~001~~								~~HSJ~~
4	~~MSJ~~	~~DUP~~									~~MSJ~~
5	~~HSJ~~	~~SPK~~									~~HSJ~~
6	~~305120~~	~~007~~	~~001~~								~~MP~~
7	~~MSJ~~	~~DUP~~									~~MP~~
8	~~MSJ~~	~~SPK~~									~~HSJ~~
9	305133	001	001								
10		DUP									
11		SPK									
12		002	002								
13		003	003								
14		004	004								
15		005	005								
16	306008	001	001								
17		002	002								
18	B030604 HSJ	BS2	DI-BW								HSJ
19											
20											
21						HSJ		06-05-03			
22											
23											
24											

LCS ID / Amt. Added (ml , g): 0.1 ml (22696, 22697, 22698) HNO3(1+1) ID: –

Spiking ID / Amt Added (ml): 0.1 ml (22696, 22697, 22698) HNO3(conc) ID: GP-052-002-14

HCl(conc) ID: –

Temperature, C: 94° HCl(1+1) ID: GP-052-151-07

Peroxide ID: –

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Spring Valley OU-5

Date Printed: June 25, 2003

GPL ID	Client ID
306082-050-050-1/1	OU5-CTA-1B-L10-(100,100)
306082-016-016-1/1	OU5-CTA-1B-L10-(100,120)
306082-014-014-1/1	OU5-CTA-1B-L10-(100,140)
306082-036-036-1/1	OU5-CTA-1B-L10-(100,160)
306082-024-024-1/1	OU5-CTA-1B-L10-(100,180)
306082-071-071-1/1	OU5-CTA-1B-L10-(100,20)
306082-041-041-1/1	OU5-CTA-1B-L10-(100,40)
306082-058-058-1/1	OU5-CTA-1B-L10-(100,60)
306082-049-049-1/1	OU5-CTA-1B-L10-(100,80)
306082-018-018-1/1	OU5-CTA-1B-L10-(120,100)
306082-023-023-1/1	OU5-CTA-1B-L10-(120,120)
306082-002-002-1/1	OU5-CTA-1B-L10-(120,140)
306082-021-021-1/1	OU5-CTA-1B-L10-(120,160)
306082-027-027-1/1	OU5-CTA-1B-L10-(120,180)
306082-067-067-1/1	OU5-CTA-1B-L10-(120,20)
306082-040-040-1/1	OU5-CTA-1B-L10-(120,40)
306082-048-048-1/1	OU5-CTA-1B-L10-(120,60)
306082-064-064-1/1	OU5-CTA-1B-L10-(120,80)
306082-072-072-1/1	OU5-CTA-1B-L10-(140,0)
306082-005-005-1/1	OU5-CTA-1B-L10-(140,100)
306082-012-012-1/1	OU5-CTA-1B-L10-(140,120)
306082-004-004-1/1	OU5-CTA-1B-L10-(140,140)
306082-033-033-1/1	OU5-CTA-1B-L10-(140,160)
306082-046-046-1/1	OU5-CTA-1B-L10-(140,20)
306082-043-043-1/1	OU5-CTA-1B-L10-(140,40)
306082-060-060-1/1	OU5-CTA-1B-L10-(140,60)
306082-057-057-1/1	OU5-CTA-1B-L10-(140,80)
306082-009-009-1/1	OU5-CTA-1B-L10-(160,100)
306082-010-010-1/1	OU5-CTA-1B-L10-(160,120)
306082-008-008-1/1	OU5-CTA-1B-L10-(160,140)
306082-034-034-1/1	OU5-CTA-1B-L10-(160,160)
306082-037-037-1/1	OU5-CTA-1B-L10-(160,20)
306082-039-039-1/1	OU5-CTA-1B-L10-(160,40)
306082-047-047-1/1	OU5-CTA-1B-L10-(160,60)
306082-022-022-1/1	OU5-CTA-1B-L10-(160,80)
306082-011-011-1/1	OU5-CTA-1B-L10-(180,100)
306082-006-006-1/1	OU5-CTA-1B-L10-(180,120)
306082-001-001-1/1	OU5-CTA-1B-L10-(180,140)
306082-035-035-1/1	OU5-CTA-1B-L10-(180,160)
306082-052-052-1/1	OU5-CTA-1B-L10-(180,60)
306082-017-017-1/1	OU5-CTA-1B-L10-(180,80)
306082-059-059-1/1	OU5-CTA-1B-L10-(20,100)
306082-065-065-1/1	OU5-CTA-1B-L10-(20,60)
306082-068-068-1/1	OU5-CTA-1B-L10-(20,80)
306082-007-007-1/1	OU5-CTA-1B-L10-(200,120)
306082-003-003-1/1	OU5-CTA-1B-L10-(200,140)
306082-053-053-1/1	OU5-CTA-1B-L10-(40,100)

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Spring Valley OU-5

Date Printed: June 25, 2003

GPL ID	Client ID
306082-056-056-1/1	OU5-CTA-1B-L10-(40,120)
306082-013-013-1/1	OU5-CTA-1B-L10-(40,140)
306082-025-025-1/1	OU5-CTA-1B-L10-(40,160)
306082-032-032-1/1	OU5-CTA-1B-L10-(40,180)
306082-061-061-1/1	OU5-CTA-1B-L10-(40,40)
306082-066-066-1/1	OU5-CTA-1B-L10-(40,60)
306082-051-051-1/1	OU5-CTA-1B-L10-(40,80)
306082-055-055-1/1	OU5-CTA-1B-L10-(60,100)
306082-063-063-1/1	OU5-CTA-1B-L10-(60,120)
306082-020-020-1/1	OU5-CTA-1B-L10-(60,140)
306082-031-031-1/1	OU5-CTA-1B-L10-(60,160)
306082-030-030-1/1	OU5-CTA-1B-L10-(60,180)
306082-028-028-1/1	OU5-CTA-1B-L10-(60,200)
306082-062-062-1/1	OU5-CTA-1B-L10-(60,40)
306082-044-044-1/1	OU5-CTA-1B-L10-(60,60)
306082-045-045-1/1	OU5-CTA-1B-L10-(60,80)
306082-038-038-1/1	OU5-CTA-1B-L10-(80,100)
306082-054-054-1/1	OU5-CTA-1B-L10-(80,100)
306082-015-015-1/1	OU5-CTA-1B-L10-(80,120)
306082-019-019-1/1	OU5-CTA-1B-L10-(80,140)
306082-026-026-1/1	OU5-CTA-1B-L10-(80,160)
306082-029-029-1/1	OU5-CTA-1B-L10-(80,180)
306082-070-070-1/1	OU5-CTA-1B-L10-(80,20)
306082-069-069-1/1	OU5-CTA-1B-L10-(80,40)
306082-042-042-1/1	OU5-CTA-1B-L10-(80,80)
306082-073-073-1/1	OU5-CTA-1B-L10-DUP01
306082-074-074-1/1	OU5-CTA-1B-L10-DUP02
306082-075-075-1/1	OU5-CTA-1B-L10-DUP03
306082-076-076-1/1	OU5-CTA-1B-L10-DUP04

GPL
Laboratories

CASE NARRATIVE

CLIENT: PARSONS ENGINEERING SCIENCE
PROJECT/SITE: SPRING VALLEY OU-5
REVIEW DATE: 6/25/03
WORK ORDER(S): 306082

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Seventy Six soil samples were received on 06/11/2003. The samples were delivered by GPL courier. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m". Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Metals

1. Seventy-six soil samples were analyzed for arsenic by EPA SW846 methods.
2. A matrix spike, duplicate, and serial dilution were performed on samples OU5-CTA-1B-L10-(180,100), OU5-CTA-1B-L10-(180,80), OU5-CTA-1B-L10-(60,80), and OU5-CTA-1B-L10-(20,100). They were within the control limits.
3. Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
4. All GPL QA/QC criteria were met.

Project Manager

Laboratory Director

GPL LABORATORIES, LLLP

Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

Organics:

B = Indicates that the analyte was found in the associated blank as well as in the sample

D = Indicates that the analyte was reported from a diluted analysis

E = Indicates that the concentration detected exceeded the calibration range of the instrument

J = Value is less than the reporting limits but greater than the MDL

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

Metals:

B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)

H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit

N = Spiked sample recovery not within control limits

***** = Duplicate analysis not within control limits

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802

CHAIN OF CUSTODY

DATE: 6/11/2003

COC #:

PAGE: 1 OF 6

GPL Project Manager:	D. Griffith	Persons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20015	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Sample Information						Preservatives and Containers																		Methods for Analysis											RUSH					
						4 oz					500 ml, HNO_3																														
No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 3050B/6010B)					Arsenic (SW846 3050B/6010B)																															QC (MS/MSD)	TOTAL BOTTLES
1	OU5-CTA-1B-L10-(160,140)	6/11/2003	1433	SOIL	EC, TP	X																																		1
2	OU5-CTA-1B-L10-(120, 140)	6/11/2003	1427	SOIL	EC, TP	X																																		1
3	OU5-CTA-1B-L10-(200,140)	6/11/2003	1435	SOIL	EC, TP	X																																		1
4	OU5-CTA-1B-L10-(140,140)	6/11/2003	1429	SOIL	EC, TP	X																																		1
5	OU5-CTA-1B-L10-(140,100)	6/11/2003	1417	SOIL	EC, TP	X																																		1
6	OU5-CTA-1B-L10-(160,120)	6/11/2003	1439	SOIL	EC, TP	X																																		1
7	OU5-CTA-1B-L10-(200,120)	6/11/2003	1437	SOIL	EC, TP	X																																		1
8	OU5-CTA-1B-L10-(160,140)	6/11/2003	1431	SOIL	EC, TP	X																																		1
9	OU5-CTA-1B-L10-(160,100)	6/11/2003	1419	SOIL	EC, TP	X																																		1
10	OU5-CTA-1B-L10-(160,120)	6/11/2003	1423	SOIL	EC, TP	X																																		1
11	OU5-CTA-1B-L10-(180,100)	6/11/2003	1421	SOIL	EC, TP	X																																	X	1
12	OU5-CTA-1B-L10-(140,120)	6/11/2003	1425	SOIL	EC, TP	X																																		1
13	OU5-CTA-1B-L10-(40,140)	6/11/2003	1407	SOIL	EC, TP	X																																		1
14	OU5-CTA-1B-L10-(100,140)	6/11/2003	1413	SOIL	EC, TP	X																																		1
15	OU5-CTA-1B-L10-(80,120)	6/11/2003	1405	SOIL	EC, TP	X																																		1

MS/MSD01

Relinquished By:	Date:	Time:	For Lab Use
ERIC CHENG	6/11/2003	1600	GPL WORK ORDER #: 306082
Received By:	Date: 6/12/03	Time: 1600	
Relinquished By:	Date:	Time:	
Received By:	Date:	Time:	
Received By (LAB):	Date:	Time:	

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802

CHAIN OF CUSTODY

DATE: 6/11/2003
COC #:
PAGE: 2 OF 6

GPL Project Manager:	D. Griffith	Parsons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Preservatives and Containers: 4 oz; 500 ml, HNO_3

Methods for Analysis: Arsenic (SW846 3050B/6010B); Arsenic (SW846 3050B/6010B); RUSH

No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 3050B/6010B)	Arsenic (SW846 3050B/6010B)	RUSH	QC (MS/MSD)	TOTAL BOTTLES
16	OU5-CTA-1B-L10-(100,120)	6/11/2003	1403	SOIL	EC, TP	X				1
17	OU5-CTA-1B-L10-(180,80)	6/11/2003	1357	SOIL	EC, TP	X	**MS/MSD02**		X	1
18	OU5-CTA-1B-L10-(120,100)	6/11/2003	1401	SOIL	EC, TP	X				1
19	OU5-CTA-1B-L10-(80,140)	6/11/2003	1411	SOIL	EC, TP	X				1
20	OU5-CTA-1B-L10-(60,140)	6/11/2003	1409	SOIL	EC, TP	X				1
21	OU5-CTA-1B-L10-(120,160)	6/11/2003	1441	SOIL	EC, TP	X				1
22	OU5-CTA-1B-L10-(160,80)	6/11/2003	1359	SOIL	EC, TP	X				1
23	OU5-CTA-1B-L10-(120,120)	6/11/2003	1415	SOIL	EC, TP	X				1
24	OU5-CTA-1B-L10-(100,160)	6/11/2003	1457	SOIL	EC, TP	X				1
25	OU5-CTA-1B-L10-(40,180)	6/11/2003	1449	SOIL	EC, TP	X				1
26	OU5-CTA-1B-L10-(80,160)	6/11/2003	1445	SOIL	EC, TP	X				1
27	OU5-CTA-1B-L10-(120,180)	6/11/2003	1459	SOIL	EC, TP	X				1
28	OU5-CTA-1B-L10-(60,200)	6/11/2003	1453	SOIL	EC, TP	X				1
29	OU5-CTA-1B-L10-(80,180)	6/11/2003	1455	SOIL	EC, TP	X				1
30	OU5-CTA-1B-L10-(60,180)	6/11/2003	1451	SOIL	EC, TP	X				1

Relinquished By: ERIC CHENG	Date: 6/11/2003	Time: 1600
Received By:	Date: 6/11/03	Time: 1600
Relinquished By:	Date:	Time:
Received By:	Date:	Time:
Received By (LAB):	Date:	Time:

For Lab Use

GPL WORK ORDER #: 306082

GPL Laboratories

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802

CHAIN OF CUSTODY

DATE: 6/11/2003

COC #:

GPL Project Manager:	D. Griffith	Parsons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Sample Information						Preservatives and Containers																							
						4 oz						500 ml, HNO_3																	
						Methods for Analysis																				RUSH			
No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 3050B/6010B)						Arsenic (SW846 3050B/6010B)																QC (MS/MSD)	TOTAL BOTTLES
31	OU5-CTA-1B-L10-(60,160)	6/11/2003	1447	SOIL	EC, TP	X																							1
32	OU5-CTA-1B-L10-(40,180)	6/11/2003	1501	SOIL	EC, TP	X																							1
33	OU5-CTA-1B-L10-(140,160)	6/11/2003	1503	SOIL	EC, TP	X																							1
34	OU5-CTA-1B-L10-(160,180)	6/11/2003	1507	SOIL	EC, TP	X																							1
35	OU5-CTA-1B-L10-(180,160)	6/11/2003	1505	SOIL	EC, TP	X																							1
36	OU5-CTA-1B-L10-(100,160)	6/11/2003	1443	SOIL	EC, TP	X																							1
37	OU5-CTA-1B-L10-(180,20)	6/11/2003	1420	SOIL	EC, TP	X																							1
38	OU5-CTA-1B-L10-(60,100)	6/11/2003	1500	SOIL	EC, TP	X																							1
39	OU5-CTA-1B-L10-(160,40)	6/11/2003	1448	SOIL	EC, TP	X																							1
40	OU5-CTA-1B-L10-(120,40)	6/11/2003	1424	SOIL	EC, TP	X																							1
41	OU5-CTA-1B-L10-(100,40)	6/11/2003	1426	SOIL	EC, TP	X																							1
42	OU5-CTA-1B-L10-(80,80)	6/11/2003	1438	SOIL	EC, TP	X																							1
43	OU5-CTA-1B-L10-(140,40)	6/11/2003	1422	SOIL	EC, TP	X																							1
44	OU5-CTA-1B-L10-(60,60)	6/11/2003	1432	SOIL	EC, TP	X												**MS/MSD03**										X	1
45	OU5-CTA-1B-L10-(60,80)	6/11/2003	1436	SOIL	EC, TP	X																							1

Relinquished By: ERIC CHENG	Date: 6/11/2003	Time: 1600
Received By:	Date: 6/11/03	Time: 1600
Relinquished By:	Date:	Time:
Received By:	Date:	Time:
Received By (LAB):	Date:	Time:

For Lab Use

GPL WORK ORDER #: 306082

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802

CHAIN OF CUSTODY

DATE: 6/11/2003

COC #:

PAGE: 4 OF 6

GPL Project Manager:	D. Griffith	Parsons Project Contact:	Thomas Sachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Sample Information						Preservatives and Containers																					
						4 oz						500 ml. HNO_3															
						Methods for Analysis																		RUSH			
No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 3050B/6010B)						Arsenic (SW846 3050B/6010B)														QC (MS/MSD)	TOTAL BOTTLES
46	OU5-CTA-1B-L10-(140,20)	6/11/2003	1418	SOIL	EC, TP	X																					1
47	OU5-CTA-1B-L10-(160,60)	6/11/2003	1450	SOIL	EC, TP	X																					1
48	OU5-CTA-1B-L10-(120,60)	6/11/2003	1444	SOIL	EC, TP	X																					1
49	OU5-CTA-1B-L10-(100,80)	6/11/2003	1440	SOIL	EC, TP	X																					1
50	OU5-CTA-1B-L10-(100,100)	6/11/2003	1458	SOIL	EC, TP	X																					1
51	OU5-CTA-1B-L10-(40,80)	6/11/2003	1434	SOIL	EC, TP	X																					1
52	OU5-CTA-1B-L10-(180,60)	6/11/2003	1452	SOIL	EC, TP	X																					1
53	OU5-CTA-1B-L10-(40,100)	6/11/2003	1506	SOIL	EC, TP	X																					1
54	OU5-CTA-1B-L10-(60,100)	6/11/2003	1430	SOIL	EC, TP	X																					1
55	OU5-CTA-1B-L10-(60,100)	6/11/2003	1504	SOIL	EC, TP	X																					1
56	OU5-CTA-1B-L10-(40,120)	6/11/2003	1510	SOIL	EC, TP	X																					1
57	OU5-CTA-1B-L10-(140,80)	6/11/2003	1454	SOIL	EC, TP	X																					1
58	OU5-CTA-1B-L10-(100,60)	6/11/2003	1442	SOIL	EC, TP	X																					1
59	OU5-CTA-1B-L10-(20,100)	6/11/2003	1508	SOIL	EC, TP	X												**MS/MSD04**								X	1
60	OU5-CTA-1B-L10-(140,60)	6/11/2003	1454	SOIL	EC, TP	X																					1

Relinquished By: ERIC CHENG	Date: 6/11/2003	Time: 1600
Received By:	Date: 6/11/03	Time: 1600
Relinquished By:	Date:	Time:
Received By:	Date:	Time:
Received By (LAB):	Date:	Time:

For Lab Use

GPL WORK ORDER #: 306082

GPL LABORATORIES
202 Perry Parkway
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CHAIN OF CUSTODY

DATE: 6/11/2003

COC #:

PAGE: 5 OF 6

GPL Project Manager:	D. Griffith	Parsons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Preservatives and Containers

4 oz						500 ml. HNO_3																

Sample Information | Methods for Analysis | RUSH

No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 3050B/6010B)	Arsenic (SW846 3050B/6010B)	QC (MS/MSD)	TOTAL BOTTLES
61	OU5-CTA-1B-L10-(40,40)	6/11/2003	1402	SOIL	EC, TP	X			1
62	OU5-CTA-1B-L10-(60,40)	6/11/2003	1404	SOIL	EC, TP	X			1
63	OU5-CTA-1B-L10-(60,120)	6/11/2003	1512	SOIL	EC, TP	X			1
64	OU5-CTA-1B-L10-(120,80)	6/11/2003	1456	SOIL	EC, TP	X			1
65	OU5-CTA-1B-L10-(20,60)	6/11/2003	1356	SOIL	EC, TP	X			1
66	OU5-CTA-1B-L10-(40,60)	6/11/2003	1400	SOIL	EC, TP	X			1
67	OU5-CTA-1B-L10-(120,20)	6/11/2003	1412	SOIL	EC, TP	X			1
68	OU5-CTA-1B-L10-(20,80)	6/11/2003	1358	SOIL	EC, TP	X			1
69	OU5-CTA-1B-L10-(80,40)	6/11/2003	1406	SOIL	EC, TP	X			1
70	OU5-CTA-1B-L10-(80,20)	6/11/2003	1408	SOIL	EC, TP	X			1
71	OU5-CTA-1B-L10-(100,20)	6/11/2003	1410	SOIL	EC, TP	X			1
72	OU5-CTA-1B-L10-(140,0)	6/11/2003	1414	SOIL	EC, TP	X			1
73	OU5-CTA-1B-L10-DUP01	6/11/2003	0900	SOIL	EC, TP	X			1
74	OU5-CTA-1B-L10-DUP02	6/11/2003	1000	SOIL	EC, TP	X			1
75	OU5-CTA-1B-L10-DUP03	6/11/2003	1100	SOIL	EC, TP	X			1

Relinquished By: ERIC CHENG	Date: 6/11/2003	Time: 1600
Received By:	Date: 6/11/03	Time: 1600
Relinquished By:	Date:	Time:
Received By:	Date:	Time:
Received By (LAB):	Date:	Time:

For Lab Use

GPL WORK ORDER #: 306082

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802

CHAIN OF CUSTODY

DATE: 6/11/2003

COC #:

PAGE: 6 OF 6

GPL Project Manager:	D. Griffith	Persons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Sample Information						Preservatives and Containers																							
						4 oz						500 ml. HNO_3																	
						Methods for Analysis																		RUSH					
No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 3050B/6010B)						Arsenic (SW846 3050B/6010B)																QC (MS/MSD)	TOTAL BOTTLES
76	OUS-CTA-1B-L10-DUP04	6/11/2003	1200	SOIL	EC, TP	X																							1
77	OUS-CTA-1B-L10-EB01	6/11/2003	0905	SOIL	EC, TP							X																	1
78	OUS-CTA-1B-L10-EB02	6/11/2003	1005	SOIL	EC, TP							X																	1
79	OUS-CTA-1B-L10-EB03	6/11/2003	1105	SOIL	EC, TP							X																	1
80	OUS-CTA-1B-L10-EB04	6/11/2003	1205	SOIL	EC, TP							X																	1

Relinquished By:	ERIC CHENG	Date: 6/11/2003	Time: 1600
Received By:		Date: 6/11/03	Time: 1600
Relinquished By:		Date:	Time:
Received By:		Date:	Time:
Received By (LAB):		Date:	Time:

For Lab Use

GPL WORK ORDER #: 506082

GPL Laboratories, LLLP

Figure 1
SAMPLE RECEIPT CHECKLIST

W.O. No: 306082
Client Name: Parsons ES
Date Received: 6/11/03
Time Received: 16:00
Received By: Debbie

Carrier Name: GPL
Prepared (Logged In) By: [initials] 6/12/03 (Initials Date)
Project:
Site:
VOA Holding Blank I.D. No:

	YES	NO
Airbill/Manifest Present?		✓
No.		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?		✓
Condition: Broken		
Intact-not dated or signed		
Intact-dated and signed		
Usage of Tamper Evident Type		✓
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present in Shipping Container?		✓
Type of Packing		
Custody seals on Sample Bottles?		✓
Condition: Good		
Broken		
Total Number of Sample Bottles 76		
Total Number of Samples 76		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks: No. of Sets		✓
Field Blanks: No. of Sets		✓
Equip. Blank: No. of Sets		✓
Field Duplicate: No. of Sets		✓
MS/MSD: No of Sets	✓	
VOA Vials Have Zero Headspace?		✓
Preservatives Added to Sample?		✓
pH Check Required?		✓
Performed By?		✓
Ice Present in Shipping Container?	✓	

Container #	Temp.	Container #	Temp.
1	3.0		

Project Manager Contacted?
Name: Debbie
Date Contacted: 6/11/03

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A/

COMMENTS:

Checklist Completed By: [signature]
Date: 6/11/03

SOP No: F.2V11

GPL - Maryland Laboratory

Cover Page - Inorganic Analysis Data Package

SDG: 306082

Client ID	Lab Sample ID:
OU5-CTA-1B-L10-(100,100)	S 306082-050-050-1/1
OU5-CTA-1B-L10-(100,120)	S 306082-016-016-1/1
OU5-CTA-1B-L10-(100,140)	S 306082-014-014-1/1
OU5-CTA-1B-L10-(100,160)	S 306082-036-036-1/1
OU5-CTA-1B-L10-(100,180)	S 306082-024-024-1/1
OU5-CTA-1B-L10-(100,20)	S 306082-071-071-1/1
OU5-CTA-1B-L10-(100,40)	S 306082-041-041-1/1
OU5-CTA-1B-L10-(100,60)	S 306082-058-058-1/1
OU5-CTA-1B-L10-(100,80)	S 306082-049-049-1/1
OU5-CTA-1B-L10-(120,100)	S 306082-018-018-1/1
OU5-CTA-1B-L10-(120,120)	S 306082-023-023-1/1
OU5-CTA-1B-L10-(120,140)	S 306082-002-002-1/1
OU5-CTA-1B-L10-(120,160)	S 306082-021-021-1/1
OU5-CTA-1B-L10-(120,180)	S 306082-027-027-1/1
OU5-CTA-1B-L10-(120,20)	S 306082-067-067-1/1
OU5-CTA-1B-L10-(120,40)	S 306082-040-040-1/1
OU5-CTA-1B-L10-(120,60)	S 306082-048-048-1/1
OU5-CTA-1B-L10-(120,80)	S 306082-064-064-1/1
OU5-CTA-1B-L10-(140,0)	S 306082-072-072-1/1
OU5-CTA-1B-L10-(140,100)	S 306082-005-005-1/1
OU5-CTA-1B-L10-(140,120)	S 306082-012-012-1/1
OU5-CTA-1B-L10-(140,140)	S 306082-004-004-1/1
OU5-CTA-1B-L10-(140,160)	S 306082-033-033-1/1
OU5-CTA-1B-L10-(140,20)	S 306082-046-046-1/1
OU5-CTA-1B-L10-(140,40)	S 306082-043-043-1/1
OU5-CTA-1B-L10-(140,60)	S 306082-060-060-1/1
OU5-CTA-1B-L10-(140,80)	S 306082-057-057-1/1
OU5-CTA-1B-L10-(160,100)	S 306082-009-009-1/1

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SDG: 306082

Client ID	Lab Sample ID:
OU5-CTA-1B-L10-(160,120)	S 306082-010-010-1/1
OU5-CTA-1B-L10-(160,140)	S 306082-008-008-1/1
OU5-CTA-1B-L10-(160,160)	S 306082-034-034-1/1
OU5-CTA-1B-L10-(160,20)	S 306082-037-037-1/1
OU5-CTA-1B-L10-(160,40)	S 306082-039-039-1/1
OU5-CTA-1B-L10-(160,60)	S 306082-047-047-1/1
OU5-CTA-1B-L10-(160,80)	S 306082-022-022-1/1
OU5-CTA-1B-L10-(180,100)	D 306082-011-011-1/1
OU5-CTA-1B-L10-(180,100)	S 306082-011-011-1/1
OU5-CTA-1B-L10-(180,100)	SP306082-011-011-1/1
OU5-CTA-1B-L10-(180,120)	S 306082-006-006-1/1
OU5-CTA-1B-L10-(180,140)	S 306082-001-001-1/1
OU5-CTA-1B-L10-(180,160)	S 306082-035-035-1/1
OU5-CTA-1B-L10-(180,60)	S 306082-052-052-1/1
OU5-CTA-1B-L10-(180,80)	D 306082-017-017-1/1
OU5-CTA-1B-L10-(180,80)	S 306082-017-017-1/1
OU5-CTA-1B-L10-(180,80)	SP306082-017-017-1/1
OU5-CTA-1B-L10-(20,100)	D 306082-059-059-1/1
OU5-CTA-1B-L10-(20,100)	S 306082-059-059-1/1
OU5-CTA-1B-L10-(20,100)	SP306082-059-059-1/1
OU5-CTA-1B-L10-(20,60)	S 306082-065-065-1/1
OU5-CTA-1B-L10-(20,80)	S 306082-068-068-1/1
OU5-CTA-1B-L10-(200,120)	S 306082-007-007-1/1
OU5-CTA-1B-L10-(200,140)	S 306082-003-003-1/1
OU5-CTA-1B-L10-(40,100)	S 306082-053-053-1/1
OU5-CTA-1B-L10-(40,120)	S 306082-056-056-1/1
OU5-CTA-1B-L10-(40,140)	S 306082-013-013-1/1
OU5-CTA-1B-L10-(40,160)	S 306082-025-025-1/1

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SDG: 306082

Client ID	Lab Sample ID:
OU5-CTA-1B-L10-(40,180)	S 306082-032-032-1/1
OU5-CTA-1B-L10-(40,40)	S 306082-061-061-1/1
OU5-CTA-1B-L10-(40,60)	S 306082-066-066-1/1
OU5-CTA-1B-L10-(40,80)	S 306082-051-051-1/1
OU5-CTA-1B-L10-(60,100)	S 306082-055-055-1/1
OU5-CTA-1B-L10-(60,120)	S 306082-063-063-1/1
OU5-CTA-1B-L10-(60,140)	S 306082-020-020-1/1
OU5-CTA-1B-L10-(60,160)	S 306082-031-031-1/1
OU5-CTA-1B-L10-(60,180)	S 306082-030-030-1/1
OU5-CTA-1B-L10-(60,200)	S 306082-028-028-1/1
OU5-CTA-1B-L10-(60,40)	S 306082-062-062-1/1
OU5-CTA-1B-L10-(60,60)	D 306082-044-044-1/1
OU5-CTA-1B-L10-(60,60)	S 306082-044-044-1/1
OU5-CTA-1B-L10-(60,60)	SP306082-044-044-1/1
OU5-CTA-1B-L10-(60,80)	S 306082-045-045-1/1
OU5-CTA-1B-L10-(80,100)	S 306082-038-038-1/1
OU5-CTA-1B-L10-(80,100)	S 306082-054-054-1/1
OU5-CTA-1B-L10-(80,120)	S 306082-015-015-1/1
OU5-CTA-1B-L10-(80,140)	S 306082-019-019-1/1
OU5-CTA-1B-L10-(80,160)	S 306082-026-026-1/1
OU5-CTA-1B-L10-(80,180)	S 306082-029-029-1/1
OU5-CTA-1B-L10-(80,20)	S 306082-070-070-1/1
OU5-CTA-1B-L10-(80,40)	S 306082-069-069-1/1
OU5-CTA-1B-L10-(80,80)	S 306082-042-042-1/1
OU5-CTA-1B-L10-DUP01	S 306082-073-073-1/1
OU5-CTA-1B-L10-DUP02	S 306082-074-074-1/1
OU5-CTA-1B-L10-DUP03	S 306082-075-075-1/1
OU5-CTA-1B-L10-DUP04	S 306082-076-076-1/1

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Cover Page - Inorganic Analysis Data Package

SDG: 306082

Client ID	Lab Sample ID:

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's desiginee, as verified by the following signature.

Signature: _____ Name: Curt Muhlhausen

Date: 6.25.05 Title: Analyst

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-001-001-1/1 **Client ID:** OU5-CTA-1B-L10-(180,140)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.26 **Volume:** 100 **Percent Moisture:** 19.77

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	1.8	~~B~~ J	1	ICPST	6/17/03	20:51

DAB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:33 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-002-002-1/1 **Client ID:** OU5-CTA-1B-L10-(120,140)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.20 **Volume:** 100 **Percent Moisture:** 23.71

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.2	2.0	~~B~~ J	1	ICPST	6/17/03	20:59

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:27 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-003-003-1/1 **Client ID:** OU5-CTA-1B-L10-(200,140)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.15 **Volume:** 100 **Percent Moisture:** 27.80

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.33	2.4	2.2	~~B~~ J	1	ICPST	6/17/03	21:06

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:35 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-004-004-1/1 **Client ID:** OU5-CTA-1B-L10-(140,140)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.16 **Volume:** 100 **Percent Moisture:** 30.23

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.33	2.5	3.2		1	ICPST	6/17/03	21:14

Comments: Sample Date: 06/11/03 Sample Time: 02:29 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-005-005-1/1 **Client ID:** OU5-CTA-1B-L10-(140,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.27 **Volume:** 100 **Percent Moisture:** 19.55

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.26	2.0	2.4		1	ICPST	6/17/03	21:22

Comments: Sample Date: 06/11/03 Sample Time: 02:17 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-006-006-1/1 **Client ID:** OU5-CTA-1B-L10-(180,120)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.28 **Volume:** 100 **Percent Moisture:** 22.48

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	2.0	~~B~~ J	1	ICPST	6/17/03	21:30

12/1/03 DYB

Comments: Sample Date: 06/11/03 Sample Time: 02:39 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-007-007-1/1 **Client ID:** OU5-CTA-1B-L10-(200,120)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.15 **Volume:** 100 **Percent Moisture:** 25.67

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	2.3	1.8	~~B~~ J	1	ICPST	6/17/03	21:37

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:37 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-008-008-1/1 **Client ID:** OU5-CTA-1B-L10-(160,140)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 29.45

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	2.3	3.0		1	ICPST	6/17/03	22:24

Comments: Sample Date: 06/11/03 Sample Time: 02:31 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-009-009-1/1 **Client ID:** OU5-CTA-1B-L10-(160,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.31 **Volume:** 100 **Percent Moisture:** 20.04

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.26	1.9	2.3		1	ICPST	6/17/03	22:32

Comments: Sample Date: 06/11/03 Sample Time: 02:19 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S306082-010-010-1/1 **Client ID:** OU5-CTA-1B-L10-(160,120)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.24 **Volume:** 100 **Percent Moisture:** 28.61

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	2.9		1	ICPST	6/17/03	22:39

Comments: Sample Date: 06/11/03 Sample Time: 02:23 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-011-011-1/1 **Client ID:** OU5-CTA-1B-L10-(180,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.15 **Volume:** 100 **Percent Moisture:** 33.79

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.35	2.6	2.2	~~B~~ J	1	ICPST	6/17/03	22:47

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:21 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-012-012-1/1 **Client ID:** OU5-CTA-1B-L10-(140,120)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.20 **Volume:** 100 **Percent Moisture:** 23.16

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.2	2.4		1	ICPST	6/17/03	23:26

Comments: Sample Date: 06/11/03 Sample Time: 02:25 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-013-013-1/1 **Client ID:** OU5-CTA-1B-L10-(40,140)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.36 **Volume:** 100 **Percent Moisture:** 26.58

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	2.9		1	ICPST	6/17/03	23:34

Comments: Sample Date: 06/11/03 Sample Time: 02:07 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-014-014-1/1 **Client ID:** OU5-CTA-1B-L10-(100,140)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 33.66

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.33	2.5	2.2	~~B~~ J	1	ICPST	6/17/03	23:57

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:13 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-015-015-1/1 **Client ID:** OU5-CTA-1B-L10-(80,120)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.24 **Volume:** 100 **Percent Moisture:** 26.56

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	2.2	3.1		1	ICPST	6/18/03	0:05

Comments: Sample Date: 06/11/03 Sample Time: 02:05 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S306082-016-016-1/1 **Client ID:** OU5-CTA-1B-L10-(100,120)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.27 **Volume:** 100 **Percent Moisture:** 36.49

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.33	2.5	3.3		1	ICPST	6/18/03	0:12

Comments: Sample Date: 06/11/03 Sample Time: 02:03 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-017-017-1/1 **Client ID:** OU5-CTA-1B-L10-(180,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.24 **Volume:** 100 **Percent Moisture:** 45.42

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.40	3.0	2.3	~~B~~ J	1	ICPST	6/19/03	0:44

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 01:57 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-018-018-1/1 **Client ID:** OU5-CTA-1B-L10-(120,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.39 **Volume:** 100 **Percent Moisture:** 25.38

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.26	1.9	2.6		1	ICPST	6/18/03	0:20

Comments: Sample Date: 06/11/03 Sample Time: 02:01 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-019-019-1/1 **Client ID:** OU5-CTA-1B-L10-(80,140)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.36 **Volume:** 100 **Percent Moisture:** 37.68

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	2.4	4.4		1	ICPST	6/18/03	0:28

Comments: Sample Date: 06/11/03 Sample Time: 02:11 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-020-020-1/1 **Client ID:** OU5-CTA-1B-L10-(60,140)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 30.42

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	2.4	2.2	~~B~~ J	1	ICPST	6/18/03	0:36

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:09 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-021-021-1/1 **Client ID:** OU5-CTA-1B-L10-(120,160)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 30.70

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	2.4	3.1		1	ICPST	6/18/03	0:43

Comments: Sample Date: 06/11/03 Sample Time: 02:41 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-022-022-1/1 **Client ID:** OU5-CTA-1B-L10-(160,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.24 **Volume:** 100 **Percent Moisture:** 19.79

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	2.5		1	ICPST	6/19/03	1:23

Comments: Sample Date: 06/11/03 Sample Time: 01:59 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-023-023-1/1 **Client ID:** OU5-CTA-1B-L10-(120,120)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.27 **Volume:** 100 **Percent Moisture:** 23.29

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.28	2.1	2.7		1	ICPST	6/19/03	1:30

Comments: Sample Date: 06/11/03 Sample Time: 02:15 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-024-024-1/1 **Client ID:** OU5-CTA-1B-L10-(100,180)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.19 **Volume:** 100 **Percent Moisture:** 22.81

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.2	1.9	~~B~~ J	1	ICPST	6/19/03	1:38

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:57 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-025-025-1/1 **Client ID:** OU5-CTA-1B-L10-(40,160)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.27 **Volume:** 100 **Percent Moisture:** 35.10

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.33	2.4	2.7		1	ICPST	6/19/03	1:46

Comments: Sample Date: 06/11/03 Sample Time: 02:49 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-026-026-1/1 **Client ID:** OU5-CTA-1B-L10-(80,160)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.34 **Volume:** 100 **Percent Moisture:** 25.47

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	2.4		1	ICPST	6/19/03	1:54

Comments: Sample Date: 06/11/03 Sample Time: 02:45 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-027-027-1/1 **Client ID:** OU5-CTA-1B-L10-(120,180)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.28 **Volume:** 100 **Percent Moisture:** 27.98

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.2	2.6		1	ICPST	6/19/03	2:17

Comments: Sample Date: 06/11/03 Sample Time: 02:59 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-028-028-1/1 **Client ID:** OU5-CTA-1B-L10-(60,200)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 24.74

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.2	2.5		1	ICPST	6/19/03	2:25

Comments: Sample Date: 06/11/03 Sample Time: 02:53 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-029-029-1/1 **Client ID:** OU5-CTA-1B-L10-(80,180)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.29 **Volume:** 100 **Percent Moisture:** 21.47

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	1.8	~~B~~ J	1	ICPST	6/19/03	2:32

DAB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:55 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-030-030-1/1 **Client ID:** OU5-CTA-1B-L10-(60,180)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.37 **Volume:** 100 **Percent Moisture:** 21.53

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.25	1.9	1.8	~~B~~ J	1	ICPST	6/19/03	2:40

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:51 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-031-031-1/1 **Client ID:** OU5-CTA-1B-L10-(60,160)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.28 **Volume:** 100 **Percent Moisture:** 23.05

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	2.1		1	ICPST	6/19/03	2:48

Comments: Sample Date: 06/11/03 Sample Time: 02:47 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-032-032-1/1 **Client ID:** OU5-CTA-1B-L10-(40,180)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 28.90

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	3.2		1	ICPST	6/19/03	2:56

Comments: Sample Date: 06/11/03 Sample Time: 03:01 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-033-033-1/1 **Client ID:** OU5-CTA-1B-L10-(140,160)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.29 **Volume:** 100 **Percent Moisture:** 27.55

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.1	3.4		1	ICPST	6/19/03	3:03

Comments: Sample Date: 06/11/03 Sample Time: 03:03 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-034-034-1/1 **Client ID:** OU5-CTA-1B-L10-(160,160)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 30.23

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	2.4	3.1		1	ICPST	6/19/03	3:11

Comments: Sample Date: 06/11/03 Sample Time: 03:07 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-035-035-1/1 **Client ID:** OU5-CTA-1B-L10-(180,160)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.25 **Volume:** 100 **Percent Moisture:** 31.25

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	2.3	~~E~~ J	1	ICPST	6/19/03	3:19

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 03:05 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-036-036-1/1 **Client ID:** OU5-CTA-1B-L10-(100,160)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.23 **Volume:** 100 **Percent Moisture:** 24.05

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.1	2.0	B	1	ICPST	6/19/03	3:27

DYS 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:43 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-037-037-1/1 **Client ID:** OU5-CTA-1B-L10-(160,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.25 **Volume:** 100 **Percent Moisture:** 24.05

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.28	2.1	3.7		1	ICPST	6/19/03	3:50

Comments: Sample Date: 06/11/03 Sample Time: 02:20 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-038-038-1/1 **Client ID:** OU5-CTA-1B-L10-(80,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.24 **Volume:** 100 **Percent Moisture:** 42.16

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.38	2.8	2.8		1	ICPST	6/19/03	3:58

Comments: Sample Date: 06/11/03 Sample Time: 03:00 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-039-039-1/1 **Client ID:** OU5-CTA-1B-L10-(160,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.24 **Volume:** 100 **Percent Moisture:** 26.47

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	2.2	3.3		1	ICPST	6/19/03	4:05

Comments: Sample Date: 06/11/03 Sample Time: 02:48 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-040-040-1/1 **Client ID:** OU5-CTA-1B-L10-(120,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.30 **Volume:** 100 **Percent Moisture:** 22.53

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	1.8	~~B~~ J	1	ICPST	6/19/03	4:13

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:24 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-041-041-1/1 **Client ID:** OU5-CTA-1B-L10-(100,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.37 **Volume:** 100 **Percent Moisture:** 15.78

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.23	1.7	7.6		1	ICPST	6/25/03	3:23

Comments: Sample Date: 06/11/03 Sample Time: 02:26 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-042-042-1/1 **Client ID:** OU5-CTA-1B-L10-(80,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.39 **Volume:** 100 **Percent Moisture:** 20.54

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.24	1.8	2.3		1	ICPST	6/25/03	3:31

Comments: Sample Date: 06/11/03 Sample Time: 02:38 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-043-043-1/1 **Client ID:** OU5-CTA-1B-L10-(140,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.38 **Volume:** 100 **Percent Moisture:** 20.02

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.24	1.8	2.3		1	ICPST	6/25/03	3:39

Comments: Sample Date: 06/11/03 Sample Time: 02:22 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-044-044-1/1 **Client ID:** OU5-CTA-1B-L10-(60,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.17 **Volume:** 100 **Percent Moisture:** 23.79

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	2.2	8.7		1	ICPST	6/25/03	4:04

Comments: Sample Date: 06/11/03 Sample Time: 02:32 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-045-045-1/1 **Client ID:** OU5-CTA-1B-L10-(60,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.29 **Volume:** 100 **Percent Moisture:** 18.30

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.26	1.9	1.7	~~B~~ J	1	ICPST	6/25/03	4:43

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:36 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-046-046-1/1 **Client ID:** OU5-CTA-1B-L10-(140,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 17.48

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	53.6		1	ICPST	6/25/03	4:51

Comments: Sample Date: 06/11/03 Sample Time: 02:18 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-047-047-1/1 **Client ID:** OU5-CTA-1B-L10-(160,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.43 **Volume:** 100 **Percent Moisture:** 18.83

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.23	1.7	5.3		1	ICPST	6/25/03	4:58

Comments: Sample Date: 06/11/03 Sample Time: 02:50 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-048-048-1/1 **Client ID:** OU5-CTA-1B-L10-(120,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.44 **Volume:** 100 **Percent Moisture:** 7.22

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.20	1.5	1.1	~~E~~ J	1	ICPST	6/25/03	5:06

DMS 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:44 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-049-049-1/1 **Client ID:** OU5-CTA-1B-L10-(100,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.17 **Volume:** 100 **Percent Moisture:** 39.78

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.38	2.8	8.0		1	ICPST	6/25/03	5:14

Comments: Sample Date: 06/11/03 Sample Time: 02:40 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-050-050-1/1 **Client ID:** OU5-CTA-1B-L10-(100,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.18 **Volume:** 100 **Percent Moisture:** 20.59

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.1	1.3	~~B~~ J	1	ICPST	6/25/03	5:40

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 02:58 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S306082-051-051-1/I **Client ID:** OU5-CTA-1B-L10-(40,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 23.16

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.1	4.0		1	ICPST	6/25/03	5:47

Comments: Sample Date: 06/11/03 Sample Time: 02:34 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S306082-052-052-1/1 **Client ID:** OU5-CTA-1B-L10-(180,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.20 **Volume:** 100 **Percent Moisture:** 26.76

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	2.7		1	ICPST	6/25/03	5:55

Comments: Sample Date: 06/11/03 Sample Time: 02:52 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-053-053-1/1 **Client ID:** OU5-CTA-1B-L10-(40,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.44 **Volume:** 100 **Percent Moisture:** 21.78

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.24	1.8	2.5		1	ICPST	6/25/03	6:03

Comments: Sample Date: 06/11/03 Sample Time: 03:06 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-054-054-1/1 **Client ID:** OU5-CTA-1B-L10-(80,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.20 **Volume:** 100 **Percent Moisture:** 20.90

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.28	2.1	2.5		1	ICPST	6/25/03	6:11

Comments: Sample Date: 06/11/03 Sample Time: 02:30 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-055-055-1/1 **Client ID:** OU5-CTA-1B-L10-(60,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.17 **Volume:** 100 **Percent Moisture:** 21.09

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.2	2.6		1	ICPST	6/25/03	6:18

Comments: Sample Date: 06/11/03 Sample Time: 03:04 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-056-056-1/1 **Client ID:** OU5-CTA-1B-L10-(40,120)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 20.94

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.28	2.1	2.1		1	ICPST	6/25/03	6:26

Comments: Sample Date: 06/11/03 Sample Time: 03:10 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S306082-057-057-1/1 **Client ID:** OU5-CTA-1B-L10-(140,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 29.05

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.31	2.3	2.9		1	ICPST	6/25/03	6:34

Comments: Sample Date: 06/11/03 Sample Time: 02:54 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-058-058-1/1 **Client ID:** OU5-CTA-1B-L10-(100,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.23 **Volume:** 100 **Percent Moisture:** 20.46

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.28	2.0	2.6		1	ICPST	6/25/03	6:42

Comments: Sample Date: 06/11/03 Sample Time: 02:42 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-059-059-1/1 **Client ID:** OU5-CTA-1B-L10-(20,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 25.32

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	2.2	2.5		1	ICPST	6/18/03	1:07

Comments: Sample Date: 06/11/03 Sample Time: 03:08 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-060-060-1/1 **Client ID:** OU5-CTA-1B-L10-(140,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.38 **Volume:** 100 **Percent Moisture:** 20.49

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.25	1.8	2.5		1	ICPST	6/25/03	6:49

Comments: Sample Date: 06/11/03 Sample Time: 02:54 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-061-061-1/1 **Client ID:** OU5-CTA-1B-L10-(40,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.27 **Volume:** 100 **Percent Moisture:** 22.59

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	26.9		1	ICPST	6/25/03	7:15

Comments: Sample Date: 06/11/03 Sample Time: 02:02 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-062-062-1/1 **Client ID:** OU5-CTA-1B-L10-(60,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.34 **Volume:** 100 **Percent Moisture:** 27.33

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.28	2.1	19.6		1	ICPST	6/18/03	2:01

Comments: Sample Date: 06/11/03 Sample Time: 02:04 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-063-063-1/1 **Client ID:** OU5-CTA-1B-L10-(60,120)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.14 **Volume:** 100 **Percent Moisture:** 31.97

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.35	2.6	2.5	~~B~~ J	1	ICPST	6/18/03	2:09

DYB 12/1/03

Comments: Sample Date: 06/11/03 Sample Time: 03:12 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-064-064-1/1 **Client ID:** OU5-CTA-1B-L10-(120,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.19 **Volume:** 100 **Percent Moisture:** 29.09

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.32	2.4	2.9		1	ICPST	6/18/03	2:16

Comments: Sample Date: 06/11/03 Sample Time: 02:56 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-065-065-1/1 **Client ID:** OU5-CTA-1B-L10-(20,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.34 **Volume:** 100 **Percent Moisture:** 18.93

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.25	1.8	10.2		1	ICPST	6/18/03	2:24

Comments: Sample Date: 06/11/03 Sample Time: 01:56 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-066-066-1/1 **Client ID:** OU5-CTA-1B-L10-(40,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.30 **Volume:** 100 **Percent Moisture:** 23.88

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	122		1	ICPST	6/18/03	2:32

Comments: Sample Date: 06/11/03 Sample Time: 02:00 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-067-067-1/1 **Client ID:** OU5-CTA-1B-L10-(120,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.20 **Volume:** 100 **Percent Moisture:** 15.35

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	21.7		1	ICPST	6/18/03	2:40

Comments: Sample Date: 06/11/03 Sample Time: 02:12 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

B Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306082

Lab Sample ID: S 306082-068-068-1/1 **Client ID:** OU5-CTA-1B-L10-(20,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.18 **Volume:** 100 **Percent Moisture:** 23.67

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.30	2.2	2.9		1	ICPST	6/18/03	3:03

Comments: Sample Date: 06/11/03 Sample Time: 01:58 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-069-069-1/1 **Client ID:** OU5-CTA-1B-L10-(80,40)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.26 **Volume:** 100 **Percent Moisture:** 37.36

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.34	2.5	106		1	ICPST	6/18/03	3:11

Comments: Sample Date: 06/11/03 Sample Time: 02:06 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-070-070-1/1 **Client ID:** OU5-CTA-1B-L10-(80,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.24 **Volume:** 100 **Percent Moisture:** 24.06

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.29	2.1	6.6		1	ICPST	6/18/03	3:18

Comments: Sample Date: 06/11/03 Sample Time: 02:08 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S306082-071-071-1/1 **Client ID:** OU5-CTA-1B-L10-(100,20)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.25 **Volume:** 100 **Percent Moisture:** 19.17

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	4.4		1	ICPST	6/18/03	3:26

Comments: Sample Date: 06/11/03 Sample Time: 02:10 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-072-072-1/1 **Client ID:** OU5-CTA-1B-L10-(140,0)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.36 **Volume:** 100 **Percent Moisture:** 20.96

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.25	1.9	4.5		1	ICPST	6/18/03	3:34

Comments: Sample Date: 06/11/03 Sample Time: 02:14 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form I Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-073-073-1/1 **Client ID:** OU5-CTA-1B-L10-DUP01

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.38 **Volume:** 100 **Percent Moisture:** 23.77

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.26	1.9	3.0		1	ICPST	6/18/03	3:42

Comments: Sample Date: 06/11/03 Sample Time: 09:00 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S306082-074-074-1/1 **Client ID:** OU5-CTA-1B-L10-DUP02

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.36 **Volume:** 100 **Percent Moisture:** 28.49

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.28	2.1	2.9		1	ICPST	6/18/03	3:49

Comments: Sample Date: 06/11/03 Sample Time: 10:00 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-075-075-1/1 **Client ID:** OU5-CTA-1B-L10-DUP03

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.30 **Volume:** 100 **Percent Moisture:** 23.15

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.27	2.0	9.2		1	ICPST	6/18/03	3:57

Comments: Sample Date: 06/11/03 Sample Time: 11:00 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306082

Lab Sample ID: S 306082-076-076-1/1 **Client ID:** OU5-CTA-1B-L10-DUP04

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.28 **Volume:** 100 **Percent Moisture:** 19.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.26	1.9	4.1		1	ICPST	6/18/03	4:05

Comments: Sample Date: 06/11/03 Sample Time: 12:00 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 90% - 110%

Standard Source: ABSOLUTE **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 6/17/03 2:28 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	413.12	103.3								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC **Acceptable Range:** 90% - 110%

Standard Source: ABSOLUTE **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 6/18/03 1:30 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	416.75	**104.2**								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC **Acceptable Range:** 90% - 110%

Standard Source: ABSOLUTE **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 6/24/03 2:48 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	414.66	103.7								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV 6/17/03 2:42 PM		CVCCV3 6/17/03 3:48 PM		CVCCV3 6/17/03 5:30 PM		CVCCV3 6/17/03 7:03 PM		CVCCV4 6/17/03 8:35 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	494.37	98.9	503.25	100.7	498.34	99.7	501.26	100.3	507.61	101.5

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV4 6/17/03 10:08 PM		CVCCV4 6/17/03 11:41 PM		CVCCV5 6/18/03 1:14 AM		CVCCV5 6/18/03 2:47 AM		CVCCV5 6/18/03 4:20 AM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	503.11	100.6	509.91	102.0	511.70	102.3	505.60	101.1	506.01	101.2

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV3 6/18/03 5:15 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	504.85	101.0								

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV 6/18/03 1:44 PM Found	% Rec	CVCCV3 6/18/03 2:57 PM Found	% Rec	CVCCV3 6/18/03 4:34 PM Found	% Rec	CVCCV3 6/18/03 6:11 PM Found	% Rec	CVCCV4 6/18/03 7:49 PM Found	% Rec
Arsenic	189.042	500.0	497.31	99.5	494.08	98.8	497.20	99.4	495.46	99.1	497.25	99.4

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV4 6/18/03 9:22 PM Found	% Rec	CVCCV4 6/18/03 10:55 PM Found	% Rec	CVCCV5 6/19/03 12:28 AM Found	% Rec	CVCCV5 6/19/03 2:01 AM Found	% Rec	CVCCV5 6/19/03 3:34 AM Found	% Rec
Arsenic	189.042	500.0	496.92	99.4	500.46	100.1	493.85	98.8	494.07	98.8	511.50	102.3

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV3 6/19/03 4:44 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	502.71	100.5								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV 6/24/03 3:03 PM		CVCCV3 6/24/03 4:30 PM		CVCCV3 6/24/03 6:22 PM		CVCCV3 6/24/03 7:55 PM		CVCCV4 6/24/03 9:28 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	516.62	103.3	511.81	102.4	509.33	101.9	502.30	100.5	517.87	103.6

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV4 6/24/03 11:01 PM Found	% Rec	CVCCV4 6/25/03 12:36 AM Found	% Rec	CVCCV5 6/25/03 2:11 AM Found	% Rec	CVCCV5 6/25/03 3:49 AM Found	% Rec	CVCCV5 6/25/03 5:24 AM Found	% Rec
Arsenic	189.042	500.0	514.63	102.9	503.22	100.6	506.18	101.2	512.32	102.5	509.30	101.9

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:** _____

Element	WL/ Mass	True Conc	CVCCV6 6/25/03 6:59 AM Found	% Rec	CVCCV6 6/25/03 7:46 AM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	514.89	103.0	512.61	102.5						

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 50% - 150%

Standard Source: HIGH PURITY **Standard ID:** REPORTING LIMIT

Element	WL/ Mass	True Conc	REPORT LIMIT 6/17/03 2:57 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	19.80	99.0								

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC **Acceptable Range:** 50% - 150%

Standard Source: HIGH PURITY **Standard ID:** REPORTING LIMIT

Element	WL/ Mass	True Conc	REPORT LIMIT 6/18/03 1:59 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	19.95	99.8								

Form 2B Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC **Acceptable Range:** 50% - 150%

Standard Source: HIGH PURITY **Standard ID:** REPORTING LIMIT

Element	WL/ Mass	True Conc	REPORT LIMIT 6/24/03 3:17 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	22.36	111.8								

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BIICB 6/17/03 2:35 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U								

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results SDG: 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BIICB 6/18/03 1:37 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BIICB 6/24/03 2:55 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U								

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 306082

Lab Sample ID: BLK60888

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.27	2.0	-0.32	B	1	ICPST	6/17/03	20:20

Comments: Clarity(After): CLEAR Texture: FINE

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 306082

Lab Sample ID: BLK60890

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.27	2.0	0.27	U	1	ICPST	6/19/03	0:13

Comments: Clarity(After): CLEAR Texture: FINE

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 306082

Lab Sample ID: BLK60914

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.27	2.0	0.27	U	1	ICPST	6/25/03	3:08

Comments: Clarity(After): CLEAR Texture: FINE

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 306082

Lab Sample ID: BLK60916

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.27	2.0	0.27	U	1	ICPST	6/18/03	0:51

Comments: Clarity(After): CLEAR Texture: FINE

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 6/17/03 2:49 PM		BCCCB3 6/17/03 3:56 PM		BCCCB3 6/17/03 5:37 PM		BCCCB3 6/17/03 7:10 PM		BCCCB4 6/17/03 8:43 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result SDG: 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB4 6/17/03 10:16 PM Found	Q	BCCCB4 6/17/03 11:49 PM Found	Q	BCCCB5 6/18/03 1:22 AM Found	Q	BCCCB5 6/18/03 2:55 AM Found	Q	BCCCB5 6/18/03 4:28 AM Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	-3.1	B	2.7	U	2.7	U

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result SDG: 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB3 6/18/03 5:22 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U								

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 6/18/03 1:51 PM		BCCCB3 6/18/03 3:04 PM		BCCCB3 6/18/03 4:42 PM		BCCCB3 6/18/03 6:18 PM		BCCCB4 6/18/03 7:57 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB4 6/18/03 9:30 PM Found	Q	BCCCB4 6/18/03 11:03 PM Found	Q	BCCCB5 6/19/03 12:36 AM Found	Q	BCCCB5 6/19/03 2:09 AM Found	Q	BCCCB5 6/19/03 3:42 AM Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB3 6/19/03 4:52 AM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	-4.7	B								

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 6/24/03 3:10 PM Found	Q	BCCCB3 6/24/03 4:52 PM Found	Q	BCCCB3 6/24/03 6:30 PM Found	Q	BCCCB3 6/24/03 8:03 PM Found	Q	BCCCB4 6/24/03 9:36 PM Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U

U Result is less than the IDL.

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result SDG: 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB4 6/24/03 11:09 PM Found	Q	BCCCB4 6/25/03 12:44 AM Found	Q	BCCCB5 6/25/03 2:19 AM Found	Q	BCCCB5 6/25/03 3:56 AM Found	Q	BCCCB5 6/25/03 5:32 AM Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	2.7	U	3.7	B

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB6 6/25/03 7:07 AM Found	Q	BCCCB6 6/25/03 7:54 AM Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U	2.7	U						

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 6/17/03 3:11 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		4				

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030618V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 6/18/03 2:13 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		-4				

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 6/24/03 3:32 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		2				

U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	IBICSABI 6/17/03 3:18 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	98.2	98.2								

NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB — **SDG:** 306082

Instrument: ICPST — **Units:** ug/L

Chart Number: 030618V.ARC — **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY — **Standard ID:** _____

Element	WL/ Mass	True Conc	IBICSABI 6/18/03 2:20 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	96.4	96.4								

NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB **SDG:** 306082

Instrument: ICPST **Units:** ug/L

Chart Number: 030624V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	IBICSABI 6/24/03 3:45 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	104.8	104.8								

5.04.5

NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 306082

Spike Sample ID: SP306082-011-011-1/1

Original Sample ID: S 306082-011-011-1/1 **Client ID:** OU5-CTA-1B-L10-(180,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.28 **Volume:** 100 **Percent Moisture:** 33.79

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	2.2	B	12.8		11.8	89.5	1	1	ICPST	6/17/03	22:47	6/17/03	23:03

Comments: Sample Date: 06/11/03 Sample Time: 02:21 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits
E Serial dilution percent difference not within limits
U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 306082

Spike Sample ID: SP306082-017-017-1/1

Original Sample ID: S 306082-017-017-1/1 **Client ID:** OU5-CTA-1B-L10-(180,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.46 **Volume:** 100 **Percent Moisture:** 45.42

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	2.3	B	13.7		12.549	90.5	1	1	ICPST	6/19/03	0:44	6/19/03	0:59

Comments: Sample Date: 06/11/03 Sample Time: 01:57 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

E Serial dilution percent difference not within limits

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 306082

Spike Sample ID: SP306082-044-044-1/1

Original Sample ID: S 306082-044-044-1/1 **Client ID:** OU5-CTA-1B-L10-(60,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.41 **Volume:** 100 **Percent Moisture:** 23.79

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	8.7		17.1		9.3061	90.5	1	1	ICPST	6/25/03	4:04	6/25/03	4:20

Comments: Sample Date: 06/11/03 Sample Time: 02:32 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 306082

Spike Sample ID: SP306082-059-059-1/1

Original Sample ID: S 306082-059-059-1/1 **Client ID:** OU5-CTA-1B-L10-(20,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.40 **Volume:** 100 **Percent Moisture:** 25.32

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	2.5		10.8		9.5646	86.8	1	1	ICPST	6/18/03	1:07	6/18/03	1:38

Comments: Sample Date: 06/11/03 Sample Time: 03:08 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

NC Percent recovery was not calculated
* Duplicate analysis RPD was not within limits
E Serial dilution percent difference not within limits
U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report SDG: 306082

Duplicate Sample ID: D 306082-011-011-1/1

Original Sample ID: S 306082-011-011-1/1 **Client ID:** OU5-CTA-1B-L10-(180,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.22 **Volume:** 100 **Percent Moisture:** 33.79

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	2.2	B	1.9	B	14.1	1	1	ICPST	6/17/03	22:47	6/17/03	22:55

* Duplicate analysis RPD was not within limits.

U Result is less than the IDL

B Result is between IDL and RL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 306082

Duplicate Sample ID: D 306082-017-017-1/1

Original Sample ID: S 306082-017-017-1/1 **Client ID:** OU5-CTA-1B-L10-(180,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.32 **Volume:** 100 **Percent Moisture:** 45.42

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	2.3	B	2.1	B	10.8	1	1	ICPST	6/19/03	0:44	6/19/03	0:52

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 306082

Duplicate Sample ID: D 306082-044-044-1/1

Original Sample ID: S 306082-044-044-1/1 **Client ID:** OU5-CTA-1B-L10-(60,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.27 **Volume:** 100 **Percent Moisture:** 23.79

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	8.7		8.0		8.2	1	1	ICPST	6/25/03	4:04	6/25/03	4:12

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 6 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 306082

Duplicate Sample ID: D 306082-059-059-1/1

Original Sample ID: S 306082-059-059-1/1 **Client ID:** OU5-CTA-1B-L10-(20,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.32 **Volume:** 100 **Percent Moisture:** 25.32

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	2.5		2.2		11.0	1	1	ICPST	6/18/03	1:07	6/18/03	1:30

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 6 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 306082

Lab Sample ID: BKS60888

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	9.4	94.0		80-120	1	ICPST	6/17/03	20:28

Comments: Clarity(After): CLEAR

NC Percent recovery was not calculated

U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 306082

Lab Sample ID: BKS60890

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	9.1	90.9		80-120	1	ICPST	6/19/03	0:21

Comments: Clarity(After): CLEAR

NC Percent recovery was not calculated
U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 306082

Lab Sample ID: BKS60914

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	9.6	95.9		80-120	1	ICPST	6/25/03	3:15

Comments: Clarity(After): CLEAR

5.04.5

NC Percent recovery was not calculated

U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 306082

Lab Sample ID: BKS60916

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	9.5	95.4		80-120	1	ICPST	6/18/03	0:59

Comments: Clarity(After): CLEAR

NC Percent recovery was not calculated
U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 306082

Serial Dilution Sample ID: SE306082-011-011-1/1

Original Sample ID: S 306082-011-011-1/1 **Client ID:** OU5-CTA-1B-L10-(180,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60888

Weight: 1.15 **Volume:** 100 **Percent Moisture:** 33.79

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	2.2	B	1.8	U	100.0	1	5	ICPST	6/17/03	22:47	6/17/03	23:18

Comments: Sample Date: 06/11/03 Sample Time: 02:21 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CL

5.04.5

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 306082

Serial Dilution Sample ID: SE306082-017-017-1/1

Original Sample ID: S 306082-017-017-1/1 **Client ID:** OU5-CTA-1B-L10-(180,80)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/16/03 **Prep Batch:** 60890

Weight: 1.24 **Volume:** 100 **Percent Moisture:** 45.42

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	2.3	B	2.0	U	100.0	1	5	ICPST	6/19/03	0:44	6/19/03	1:15

Comments: Sample Date: 06/11/03 Sample Time: 01:57 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CL

5.04.5

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 306082

Serial Dilution Sample ID: SE306082-044-044-1/1

Original Sample ID: S 306082-044-044-1/1 **Client ID:** OU5-CTA-1B-L10-(60,60)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60914

Weight: 1.17 **Volume:** 100 **Percent Moisture:** 23.79

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	8.7		10.0	B	14.8	1	5	ICPST	6/25/03	4:04	6/25/03	4:35

Comments: Sample Date: 06/11/03 Sample Time: 02:32 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CL

5.04.5

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 306082

Serial Dilution Sample ID: SE306082-059-059-1/1

Original Sample ID: S 306082-059-059-1/1 **Client ID:** OU5-CTA-1B-L10-(20,100)

Matrix: Soil **Units:** mg/kg **Prep Date:** 6/17/03 **Prep Batch:** 60916

Weight: 1.21 **Volume:** 100 **Percent Moisture:** 25.32

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	2.5		3.2	B	28.6	1	5	ICPST	6/18/03	1:07	6/18/03	1:53

Comments: Sample Date: 06/11/03 Sample Time: 03:08 PM Color(Before): BROWN Color(After): YELLOW Clarity(After): CL

5.04.5

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

ICP ANALYSIS LOG

Document Control No: GP_M_116

Instrument ID: Trace (375590) Inst. Method: TRACEV8 Nebulizer: Analytical Batch No: 030617

Profile: 0.0198 Intensity: 6163 At Setting: 297

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
306053	TETRA TECH	608866	008	W	6.16.03	6010	
306080	↓						
306083	PARSONS						
306076	UXB			E			
306082	PARSONS	608888	010	S			
306082	↓	609116	015		6.17.03		
306084	ACOE						
306079	PARSONS						

Source Solution Numbers

Stds.	Number	Stds.	Number
S0	057-148-06	ICV	23179
S1	23337	CCV	23367
S2	23294	ICSA	23368
S3	23029	ICSAB	23369
S4	-	CRI	23295
S5	-	Low Ck	23042
Ints	23339	LR	23180

Post Digestion Spikes

Spike 0.9 mls of sample with 0.1 mls of 19542

Samples:

306053-006-065-1 /3

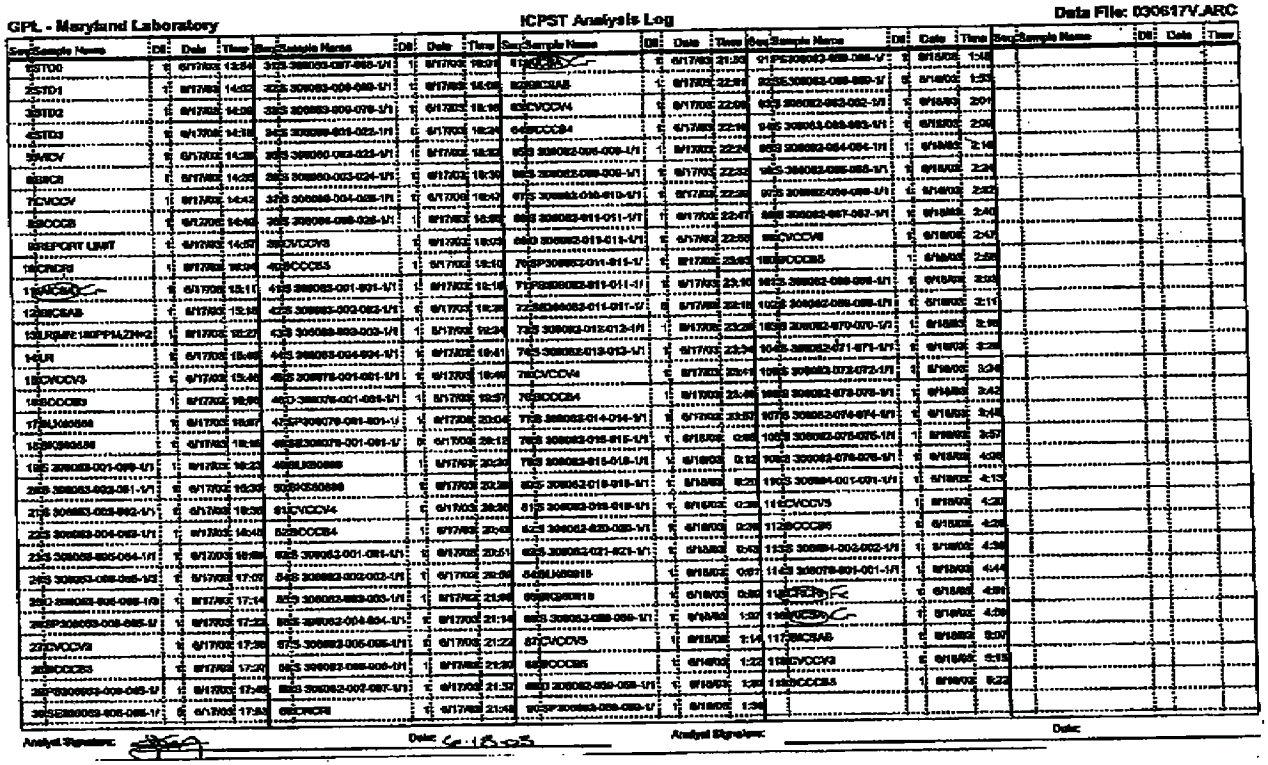
306082-011-011-1 /1

306082-059-059-1 /1

~~306076-001-001-1 /1~~ 6.18.03

Analyst: Date: 6.18.03 Reviewed: Date: 6/19/03

GPL - Maryland Laboratory ICPST Analysis Log Data File: 030617V.ARC



Analyst Signature: Date: 6-18-03 Analyst Signature: Date:

Sample Dilutions:

306082-062-062-1 / 1:2x For Pb - ok, may need

306053-003-062-1 / 1:5x For Mn

GPL Laboratories, LLLP | **ICP ANALYSIS LOG** | *Document Control No: GP_M_116*

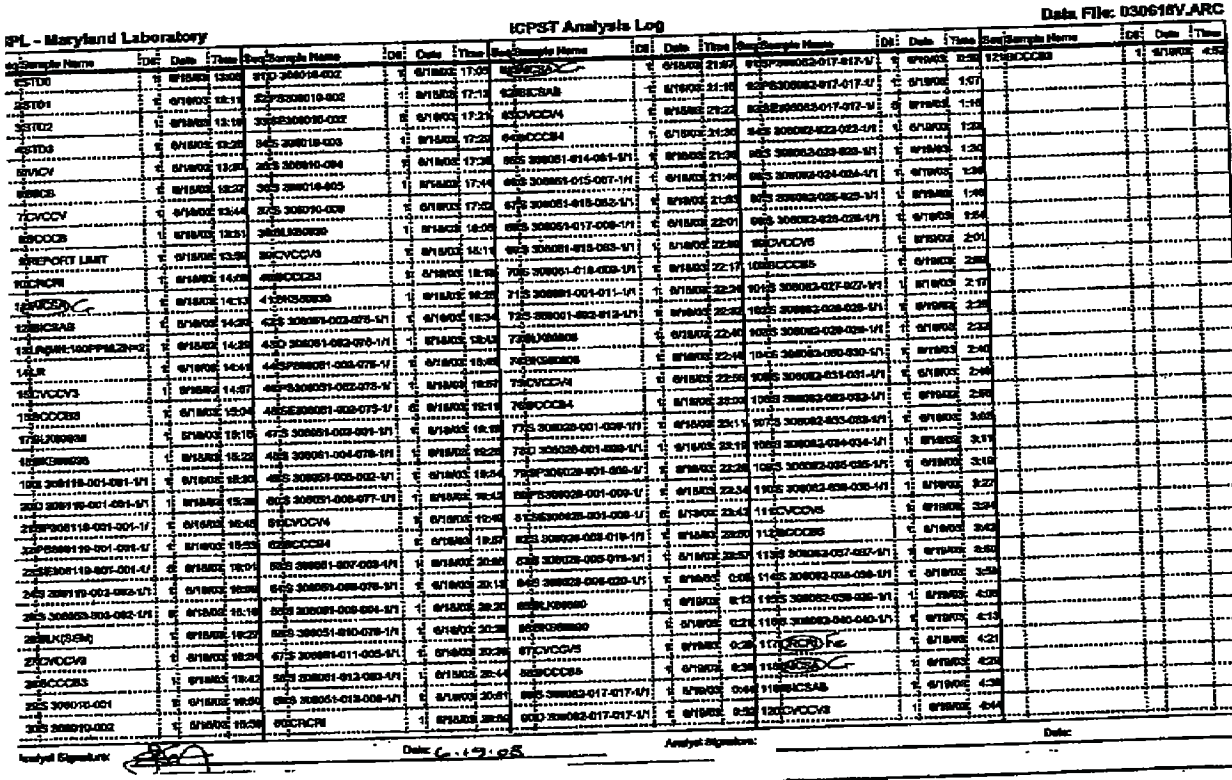
Instrument ID: Trace (375590) Inst. Method: TRACEV8 Nebulizer: Analytical Batch No: 0506018V
Profile: 0.0178 Intensity: 6006 At Setting: 296

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
306119	C&E	60938	017	W	6.18.03	6010	
306053	TETRATECH	60886	008	↓	6.16.03		5x ON 008
306010	[illegible]			E	↓		SEM BLK(SEM): Ag, Zn, B FAILED
306051	GP	60939	016	W	6.18.03		
306001	CH2M HILL	↓	↓	↓	↓		
306028	↓	60808	199	↓	6.10.03		BLK60808: Cr FAILED EKS60808: Cr FAILED
306082	PARSONS	60890	011	S	6.16.03	↓	

6.19.03

Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 19542
S0	067-148-06	ICV	23179	Samples:
S1	23337	CCV	23367	306119-001-001-1/1
S2	23294	ICSA	23368	306010-002
S3	23029	ICSAB	23369	306051-002-076-1/1
S4	"	CRI	23295	306028-001-009-1/1
S5	"	Low Ck	23042	306082-017-017-1/1
Ints	23339	LR	23180	

Analyst: Date: 6.19.03 Reviewed: Date: 6/19/03



GPL - Maryland Laboratory

ICPST Analysis Log

Data File: 030618V.ARC

Seq	Sample Name	ID	Date	Time
1	1218CCCB		6/18/03	4:52

Analyst Signature:

Date:

Sample Dilutions:

GPL Laboratories, LLLP | **ICP ANALYSIS LOG** | *Document Control No: GP_M_116*

Instrument ID: Trace (375590) Inst. Method: TRACEV8 Nebulizer: Analytical Batch No: 030624V
Profile: -0.0103 Intensity: 55864 AI Setting: 304

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
306028	CH2M Hill	60808	027	W	6.23.03	6010	
305160	EPA		019	Tissue	6.19.03	↓	BLK(019): Al, Na, B Failed BKS(019): Ca, Na, B Failed
306051	GP	60939	016	W	6.18.03	ILM04.1	BLK60939: B Failed BKS60939: B Failed - OK, B Not Reqd
306001	CH2M Hill	↓	↓				↓
306004	Dames & Moore	60913	012	↓	6.17.03	6010	BLK60913: B Failed ← OK Not Reqd
306004	↓	60862	006	S	6.13.03		BLK60862: Pb, B Failed ← OK, B Not Reqd, Pb 10x Higher
306063	Altech	↓	↓		↓		
306082	Parsons	60914	014	↓	6.17.03	↓	

6.25.03

Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 19542
S0	057-148-06	ICV	23179	Samples:
S1	23337	CCV	23367	306028-003-010-1/1
S2	23294	ICSA	23368	305160-001
S3	23029	ICSAB	23369	306004-007-019-1/3
S4	-	CRI	23295	306004-009-025-1/3
S5	-	Low Ck	23042	306082-044-044-1/1
Ints	23359	LR	23180	

Analyst: Date: 6.25.03 Reviewed: RA Date: 6-25-03

GPL - Maryland Laboratory **ICP3T Analysis Log** **Data File: 030624V.ARC**

Seq	Sample Name	Dil	Date	Time
0	STD0	1	6/24/03	14:22
1	STD1	1	6/24/03	14:29
2	STD2	1	6/24/03	14:36
3	STD3	1	6/24/03	14:43
4	MCV	1	6/24/03	14:49
5	BC	1	6/24/03	14:55
6	CVCCV	1	6/24/03	15:02
7	CCCB	1	6/24/03	15:10
8	REPORT LIMIT	1	6/24/03	15:17
9	CSAB	1	6/24/03	15:25
10	MCSA	1	6/24/03	15:33
11	CSAB	1	6/24/03	15:40
12	LRQMN-100PPM,ZN=2	1	6/24/03	15:54
13	LRQMN-100PPM,ZN=2	1	6/24/03	16:07
14	LR	1	6/24/03	16:15
15	CVCCV3	1	6/24/03	16:30
16	CCCB3	1	6/24/03	16:38
17	LH06009	1	6/24/03	17:05
18	LH06009	1	6/24/03	17:12
19	306628-001-006-1/1	1	6/24/03	17:20
20	306628-003-010-1/1	1	6/24/03	17:28
21	306628-003-010-1/1	1	6/24/03	17:36
22	306628-006-016-1/1	1	6/24/03	17:43
23	SP306628-003-010-1/	1	6/24/03	17:51
24	S306628-003-010-1/	1	6/24/03	17:58
25	306628-006-016-1/1	1	6/24/03	18:06
26	306628-008-028-1/1	1	6/24/03	18:14
27	CVCCV3	1	6/24/03	18:22
28	CCCB3	1	6/24/03	18:29
29	LH06010	1	6/24/03	18:37
30	LR	1	6/24/03	18:44
31	306631-002-012-1/1	1	6/24/03	18:52
32	306631-002-012-1/1	1	6/24/03	19:00
33	306631-002-075-1/1	1	6/24/03	19:07
34	306631-002-075-1/1	1	6/24/03	19:15
35	306631-002-075-1/1	1	6/24/03	19:22
36	306631-002-075-1/1	1	6/24/03	19:30
37	LH06036	1	6/24/03	19:37
38	LH06036	1	6/24/03	19:45
39	306631-001-015-1/1	1	6/24/03	19:52
40	306631-002-012-1/1	1	6/24/03	20:00
41	LH06063	1	6/24/03	20:07
42	CVCCV3	1	6/24/03	20:15
43	CCCB3	1	6/24/03	20:22
44	306631-003-013-1/1	1	6/24/03	20:30
45	306631-004-009-1/1	1	6/24/03	20:37
46	306631-004-009-1/1	1	6/24/03	20:45
47	306631-004-009-1/1	1	6/24/03	20:52
48	306631-004-009-1/1	1	6/24/03	21:00
49	306631-004-009-1/1	1	6/24/03	21:07
50	SP306631-004-009-1/	1	6/24/03	21:15
51	LH06063	1	6/24/03	21:22
52	306631-004-009-1/1	1	6/24/03	21:30
53	CVCCV3	1	6/24/03	21:37
54	CCCB3	1	6/24/03	21:45
55	306631-004-009-1/1	1	6/24/03	21:52
56	306631-004-009-1/1	1	6/24/03	22:00
57	306631-004-009-1/1	1	6/24/03	22:07
58	306631-004-011-1/1	1	6/24/03	22:14
59	306631-007-010-1/1	1	6/24/03	22:22
60	306631-007-010-1/1	1	6/24/03	22:30
61	306631-007-010-1/1	1	6/24/03	22:37
62	306631-007-010-1/1	1	6/24/03	22:45
63	CVCCV3	1	6/24/03	22:52
64	CCCB3	1	6/24/03	23:00
65	306631-007-010-1/1	1	6/24/03	23:07
66	LH06064	1	6/24/03	23:15
67	LH06064	1	6/24/03	23:22
68	LH06064	1	6/24/03	23:30
69	306631-007-010-1/1	1	6/24/03	23:37
70	CVCCV3	1	6/24/03	23:45
71	CCCB3	1	6/24/03	23:52
72	306631-007-010-1/1	1	6/25/03	0:00
73	306631-007-010-1/1	1	6/25/03	0:07
74	306631-004-009-1/1	1	6/25/03	0:15
75	306631-004-009-1/1	1	6/25/03	0:22
76	CVCCV3	1	6/25/03	0:30
77	CCCB3	1	6/25/03	0:37
78	306631-004-009-1/1	1	6/25/03	0:44
79	LH06064	1	6/25/03	0:52
80	306631-004-009-1/1	1	6/25/03	1:00
81	306631-004-009-1/1	1	6/25/03	1:07
82	SP306631-004-009-1/	1	6/25/03	1:15
83	S306631-004-009-1/	1	6/25/03	1:22
84	306631-004-016-1/1	1	6/25/03	1:30
85	CVCCV3	1	6/25/03	1:37
86	CCCB3	1	6/25/03	1:45
87	306631-003-013-1/1	1	6/25/03	1:52
88	306631-003-013-1/1	1	6/25/03	2:00
89	306631-006-008-1/1	1	6/25/03	2:07
90	CVCCV3	1	6/25/03	2:15
91	CCCB3	1	6/25/03	2:22
92	306631-007-007-1/1	1	6/25/03	2:30
93	306631-007-007-1/1	1	6/25/03	2:37
94	306631-007-007-1/1	1	6/25/03	2:45
95	306631-007-007-1/1	1	6/25/03	2:52
96	CVCCV3	1	6/25/03	3:00
97	CCCB3	1	6/25/03	3:07
98	306631-008-008-1/1	1	6/25/03	3:15
99	306631-008-008-1/1	1	6/25/03	3:22
100	306631-008-008-1/1	1	6/25/03	3:30
101	306631-008-008-1/1	1	6/25/03	3:37
102	CVCCV3	1	6/25/03	3:45
103	CCCB3	1	6/25/03	3:52
104	306631-008-008-1/1	1	6/25/03	4:00
105	LH06064	1	6/25/03	4:07
106	LH06064	1	6/25/03	4:15
107	LH06064	1	6/25/03	4:22
108	SP306631-004-009-1/	1	6/25/03	4:30
109	306631-004-009-1/1	1	6/25/03	4:37
110	306631-004-009-1/1	1	6/25/03	4:45
111	306631-004-009-1/1	1	6/25/03	4:52
112	CVCCV3	1	6/25/03	5:00
113	CCCB3	1	6/25/03	5:07
114	306631-001-001-1/1	1	6/25/03	5:15
115	306631-001-001-1/1	1	6/25/03	5:22
116	306631-001-001-1/1	1	6/25/03	5:30
117	306631-001-001-1/1	1	6/25/03	5:37
118	CVCCV3	1	6/25/03	5:45
119	CCCB3	1	6/25/03	5:52
120	306631-001-001-1/1	1	6/25/03	6:00
121	306631-001-001-1/1	1	6/25/03	6:07
122	306631-001-001-1/1	1	6/25/03	6:15
123	306631-007-007-1/1	1	6/25/03	6:22
124	CVCCV3	1	6/25/03	6:30
125	CCCB3	1	6/25/03	6:37

Analyst Signature: Date: 6-26-03 Analyst Signature: Date:

Sample Dilutions:

QC 305160-001 : 5x For Ti 306063-010-010-1/1 : 10x For Fe, Zn

306063-001-001-1/1 : 5x For Fe 306063-011-011-1/1 : 5x For Fe, Zn

306063-006-006-1/1 : 10x For Fe, Mn, Zn 306063-012-012-1/1 : 10x For Fe, Zn

306063-007-007-1/1 : 2x For Fe, Ca, Mn 306004-006-012-1/1 : 2x For Mn

306063-008-008-1/1 : 5x For Fe, Zn 306004-008-008-1/1 : 5x For Zn

GPL Laboratories, LLLP *Document Control No: GP_M_119*

Metals Preparation & Sample Description Log

Date: 06-16-09 Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 119 010

Analyst: MSL Comments: MOD BLOCK DIGESTION (Soil)

Reviewed by: JD Date: 6/19/09 Spike Witness: KC Prep. Seq: 60888

	GPL Work Order No.	Sample	Frac	SIZE mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	010		1.00	100	S				Cloud	-
2	BKS	010		1.00							-
3	306082	001	-001-½	1.26		Soil	Brown	Yellow	Medium	-	-
4	↓	002	-002-½	1.20	↓	↓	↓	↓	↓	↓	↓
5		003	-003-½	1.15							
6		004	-004-½	1.16							
7		005	-005-½	1.27							
8		006	-006-½	1.28							
9		007	-007-½	1.15							
10		008	-008-½	1.21							
11		009	-009-½	1.31							
12		010	-010-½	1.24							
13		011	-011-½	1.15							
14		DUP	↓	1.22							
15		SPK	↓	1.28							
16		012	-012-½	1.20							
17		013	-013-½	1.36							
18		014	-014-½	1.22							
19		015	-015-½	1.24							
20		016	-016-½	1.27							
21		018	-018-½	1.39							
22		019	-019-½	1.36							
23		020	-020-½	1.21							
24	↓	021	-021-½	1.22	↓	↓	↓	↓	↓	Milipore HF 003	

LCS ID / Amt. Added (ml , g): 0.2 ml (22696, 22697, 22698)

Spiking ID / Amt Added (ml): 0.2 ml (22696, 22697, 22698)

Temperature, C: 94°C

HNO3(1+1) ID: GP-052-159-03

HNO3(conc) ID: GP-052-007-14

HCl(conc) ID: GP-052-002-04

HCl(1+1) ID: -

Peroxide ID: GP-052-002-17

GPL Laboratories, LLLP *Document Control No: GP_M_119*

Metals Preparation & Sample Description Log

Date: 06-12-03 Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 119 015

Analyst: MSI Comments: MOD BLOCK DIGESTION (Soil)

Reviewed by: [illegible] Date: 6/19/03 Spike Witness: KC Prep. Seq: 60916

	GPL Work Order No.	Sample	Frac	SIZE mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
							R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.				
1	BLK	015		1.00	100	S				Clear	~
2	BKS	015		1.00							~
3	306082	059	-059-½	1.21		soil	Brown	Yellow	Medium		~
4		DUP		1.32							
5		SRK		1.40							
6		062	-062-½	1.34							
7		063	-063-½	1.14							
8		064	-064-½	1.19							
9		065	-065-½	1.34							
10		066	-066-½	1.30							
11		067	-067-½	1.20							
12		068	-068-½	1.18							
13		069	-069-½	1.26							
14		070	-070-½	1.24							
15		071	-071-½	1.25							
16		072	-072-½	1.36							
17		073	-073-½	1.38							
18		074	-074-½	1.36							
19		075	-075-½	1.30							
20		076	-076-½	1.28							
21	306084	001	-001-½	1.30							
22		002	-002-½	1.32							
23	306079	001	-001-½	1.37							
24			MBL	0.5	0.2					MI(06-17-03	

LCS ID / Amt. Added (ml , g) : 0.8 ml (22696, 22697, 22698)	HNO3(1+1) ID: GP-057-159-03
Spiking ID / Amt Added (ml): 0.2 ml (22696, 22697, 22698)	HNO3(conc) ID: GP-057-00)-14
	HCl(conc) ID: GP-057-002-04
Temperature, C: 94°	HCl(1+1) ID: -
	Peroxide ID: GP-057-002-17

GPL Laboratories, LLLP *Document Control No: GP_M_119*

Metals Preparation & Sample Description Log

Date: 06-17-03 Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 119 014

Analyst: MSS Comments: MOD BLOCK DIGESTION (soil)

Reviewed by: [illegible] Date: 6.25.03 Spike Witness: KC Prep. Seq: 60914

	GPL Work Order No.	Sample	Frac	SIZE mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	014		1.00	100	S				Clear	✓
2	BKS	014		1.00							–
3	306082	041	-041-½	1.37		Soil	Brown	Yellow	Medium		✓
4		042	-042-½	1.39							
5		043	-043-½	1.38							
6		044	-044-½	1.17							
7		DUP		1.37							
8		SPK		1.41							
9		045	-045-½	1.29							
10		046	-046-½	1.22							
11		047	-047-½	1.43							
12		048	-048-½	1.44							
13		049	-049-½	1.17							
14		050	-050-½	1.18							
15		051	-051-½	1.22							
16		052	-052-½	1.20							
17		053	-053-½	1.44							
18		054	-054-½	1.20							
19		055	-055-½	1.17							
20		056	-056-½	1.22							
21		057	-057-½	1.22							
22		058	-058-½	1.23							
23		060	-060-½	1.38							
24		061	-061-½	1.27						MH 06-17-03	

LCS ID / Amt. Added (ml, g): 0.2 ml (22696, 22697, 22698)	HNO3(1+1) ID: GP-052-159-03
Spiking ID / Amt Added (ml): 0.2 ml (22696, 22697, 22698)	HNO3(conc) ID: GP-052-002-14
	HCl(conc) ID: GP-052-002-04
Temperature, C: 94°C	HCl(1+1) ID: –
	Peroxide ID: GP-052-002-17

GPL Laboratories, LLLP *Document Control No: GP_M_119*

Metals Preparation & Sample Description Log

Date: 06-16-05 Prep: 200.7 / 3005A / 3020A / (3050B) / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 119 011

Analyst: MSI Comments: MOD BLOCK DIGESTION (Soil)

Reviewed by: AD Date: 6/19/05 Spike Witness: KC Prep. Seq: 60890

	GPL Work Order No.	Sample	Frac	SIZE mL (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	011		1.00	100	S				Clear	✓
2	BKS	011		1.00							✓
3	306082	017	-017-½	1.24		Soil	Brown	Yellow	Medium		✓
4		DUP		1.32							
5		SPK		1.46							
6		022	-022-½	1.24							
7		023	-023-½	1.27							
8		024	-024-½	1.19							
9		025	-025-½	1.27							
10		026	-026-½	1.34							
11		027	-027-½	1.28							
12		028	-028-½	1.22							
13		029	-029-½	1.29							
14		030	-030-½	1.37							
15		031	-031-½	1.28							
16		032	-032-½	1.22							
17		033	-033-½	1.29							
18		034	-034-½	1.21							
19		035	-035-½	1.25							
20		036	-036-½	1.23							
21		037	-037-½	1.25							
22		038	-038-½	1.24							
23		039	-039-½	1.24							
24		040	-040-½	1.30						MI 06-16-05	

LCS ID / Amt. Added (ml, g): 0.8 ml (22696, 22697, 22698)

Spiking ID / Amt Added (ml): 0.8 ml (22696, 22697, 22698)

Temperature, C: 94°C

HNO3(1+1) ID: GP-057-019-03

HNO3(conc) ID: GP-057-007-14

HCl(conc) ID: GP-057-007-04

HCl(1+1) ID: -

Peroxide ID: GP-057-007-12

GPL Laboratories, LLLP *Document Control No: GP_W_208*

PERCENT SOLIDS DETERMINATION LOG

Method Title: %Solids
Method Reference: OLMO4.2 / ASTM D2216

Analyst: RAS
Reviewed By / Date: _____

Analytical Balance ID: Mettler AE 240 # 6102
Drying Oven Temp Maintained at 103-105C:
Time In (Oven): 2&3 0pm Temp 105C Date: 6-19-03
Time Out (Oven): 10:30 AM Temp 105C Date: 6-20-03
Dessicator Temp: 21°C Dessicator % Humidity (<20%): 14%

W.O.#	Frac.	Client ID	Weight of Dish	Weight of wet Sample + Dish	Weight of dry Sample +Dish	DUP RPD <15%
306082	001	OUS-CTA-1B-LLo-(180/180)	1.2550	10.4520	8.6335	
	002	OUS-CTA-1B-LLo-(120/140)	1.2560	10.8960	8.6106	
	003	OUS-CTA-1B-LLo-(200/140)	1.2660	10.0370	7.5984	
	004	OUS-CTA-1B-LLo-(140/140)	1.2533	10.2377	7.5210	
	005	OUS-CTA-1B-LLo-(1	0.9697	10.3250	8.4465	
	006	OUS-CTA-1B-LLo-(180/180)	1.2790	10.9130	8.2470	
	007	OUS-CTA-1B-LLo-(200/	1.2595	10.4206	8.0688	
	008	OUS-CTA-1B-LLo-(100/160)	0.9846	10.7166	7.8510	
	009	OUS-CTA-1B-LLo-(1 140)	0.9694	10.5930	8.6640	
	010	OUS-CTA-1B-LLo-(160/160)	1.2534	10.1660	7.6165	
	011	OUS-CTA-1B-LLo-(180/180)	1.2615	10.7840	7.5660	2%
dup ✓	dup ✓	dup ✓	1.2804	10.7740	7.5910	0.0 %
	012	OUS-CTA-1B-LLo-(140/140)	1.2566	10.4582	8.3274	
	013	OUS-CTA-1B-LLo-(140/140)	1.2625	10.6810	8.1780	
	014	OUS-CTA-1B-LLo-(1	0.9654	10.0410	7.2382	
	015	OUS-CTA-1B-LLo-(1	0.9700	10.0850	8.2170	
	016	OUS-CTA-1B-LLo-(1	0.9680	10.0850	6.7580	
	017	OUS-CTA-1B-LLo-(180/180)	1.2627	10.3900	6.8443	
dup ✓	dup ✓	dup ✓	1.2750	10.4184	6.7060	4.0 %
	018	OUS-CTA-1B-LLo-(180/	1.2540	10.0500	7.8174	
	019	OUS-CTA-1B-LLo-(8 100)	0.9665	10.1500	6.6900	
	020	OUS-CTA-1B-LLo-(60/140)	0.9822	10.1500	7.3610	
	021	OUS-CTA-1B-LLo-(120/160)	1.2870	10.1950	7.4843	
	022	OUS-CTA-1B-LLo-(160/80)	1.2630	10.3502	8.5500	
	023	OUS-CTA-1B-LLo-(120/	1.2666	10.1500	8.0810	
	024	OUS-CTA-1B-LLo-(120/100)	1.2640	10.6443	8.5045	
	025	OUS-CTA-1B-LLo-(80) (40/160)	1.2560	10.0983	7.4620	
	026	OUS-CTA-1B-LLo-(80/160)	1.2740	10.0800	7.8373	
	027	OUS-CTA-1B-LLo-(120/180)	1.2740	10.1660	7.6782	

Comments: _____

GPL Laboratories, LLLP *Document Control No: GP_W_208*

PERCENT SOLIDS DETERMINATION LOG

Method Title: %Solids
Method Reference: OLMO4.2 / ASTM D2216

Analyst: RCS
Reviewed By / Date: _____

Analytical Balance ID: Mettler AE 240
Drying Oven Temp Maintained at 103-105C:
Time In (Oven): 2:30pm Temp 105C Date: 6-19-03
Time Out (Oven): 10:30 Am Temp 105C Date: 6-20-03
Dessicator Temp: RT Dessicator % Humidity (<20%): 14%

W.O.#	Frac.	Client ID	Weight of Dish	Weight of wet Sample + Dish	Weight of dry Sample +Dish	DUP RPD <15%
306092	028	OVS-CTA-1B-Lo-(60/80)	1.2734	10.7712	8.4211	
	029	OVS-CTA-1B-Lo-(80/100)	1.2810	10.5770	8.5811	
	030	OVS-CTA-1B-Lo-(60/	1.2610	10.1980	8.2740	
	031	OVS-CTA-1B-Lo-(60/80)	1.2562	10.0880	8.0520	
	032	OVS-CTA-1B-Lo-(40/60)	1.2715	10.0566	7.5180	
	033	OVS-CTA-1B-Lo-(140/160)	1.2500	10.8660	8.2163	
	034	OVS-CTA-1B-Lo-(160/60)	1.2570	10.4520	7.6726	
	035	OVS-CTA-1B-Lo-(180/160)	1.2733	10.7870	7.8140	
	036	OVS-CTA-1B-Lo-(100/60)	1.2703	10.4672	8.2550	
	037	OVS-CTA-1B-Lo-(160/60)	1.2600	10.0570	7.9413	
	038	OVS-CTA-1B-Lo-(80/100)	0.9830	10.1400	6.2790	
	039	OVS-CTA-1B-Lo-(160/40)	1.2670	10.2250	7.8535	
	040	OVS-CTA-1B-Lo-(120	1.2500	10.0760	8.5821	
	041	OVS-CTA-1B-Lo-(100/40)	0.9820	10.0280	8.5953	
	042	OVS-CTA-1B-Lo-(80/80)	0.9790	10.0070	8.0790	
	043	OVS-CTA-1B-Lo-(140/140)	1.2730	10.0640	8.0682	
	044	OVS-CTA-1B-Lo-(60/60)	1.2604	10.1860	8.0623	
dup	dup	dup	1.2760	10.1510	7.8166	3.1%
	045	OVS-CTA-1B-Lo-(60/80)	1.2514	10.3878	8.7160	
	046	OVS-CTA-1B-Lo-(140/140)	1.2550	10.0810	8.5380	
	047	OVS-CTA-1B-Lo-(160/60)	1.2610	10.1100	8.4434	
	048	OVS-CTA-1B-Lo-(120/60)	1.2694	10.0602	1.0100	
	049	OVS-CTA-1B-Lo-(100/60)	1.2702	10.9200	6.5996	
	050	OVS-CTA-1B-Lo-(100/80)	1.2744	10.0590	8.2500	
	051	OVS-CTA-1B-Lo-(40/60)	1.2550	10.1450	8.0863	
	052	OVS-CTA-1B-Lo-(180/60)	1.2704	10.0980	7.7360	
	053	OVS-CTA-1B-Lo-(140/100)	1.2680	10.5933	8.7970	
	054	OVS-CTA-1B-Lo-(60/100)	1.2666	10.2928	8.3984	
	055	OVS-CTA-1B-Lo-(60/100)	1.2640	10.2890	8.3866	

Comments: _____

GPL Laboratories, LLLP *Document Control No: GP_W_208*

PERCENT SOLIDS DETERMINATION LOG

Method Title: %Solids
Method Reference: OLMO4.2 / ASTM D2216

Analyst: RAS
Reviewed By / Date: _____

Analytical Balance ID: Mettler AE 240
Drying Oven Temp Maintained at 103-105C:
Time In (Oven): 4:00PM Temp 105oC Date: 6-19-03
Time Out (Oven): 10:30AM Temp 105oC Date: 6-20-03
Dessicator Temp: 21°C Dessicator % Humidity (<20%): 14%

W.O.#	Frac.	Client ID	Weight of Dish	Weight of wet Sample + Dish	Weight of dry Sample +Dish	DUP RPD <15%
306082	056	OVS-CTA-1B-Llo (14g/6g)	1.2755	10.1540	8.2950	
	057	OVS-CTA-1B-Llo (14g/6g)	1.2767	10.0370	7.4923	
	058	OVS-CTA-1B-Llo (120/60)	1.2560	10.2200	8.7840	
	059	OVS-CTA-1B-Llo (120/60)	1.2600	10.9180	8.4730	
dup	dup	dup	1.2635	10.8820	8.4330	0.5%
	060	OVS-CTA-1B-Llo (14g/6g)	1.2670	10.1480	8.3285	
	061	OVS-CTA-1B-Llo (14g/14g)	1.2720	10.3114	8.2690	
	062	OVS-CTA-1B-Llo (60g/60g)	1.2710	10.3402	7.8613	
	063	OVS-CTA-1B-Llo (60g/120)	0.9770	10.8710	7.7080	
	064	OVS-CTA-1B-Llo (120/60)	1.2650	10.0420	7.4885	
	065	OVS-CTA-1B-Llo (120/60)	1.2550	10.3906	8.6612	
	066	OVS-CTA-1B-Llo (14g/6g)	1.2649	10.2916	8.1360	
	067	OVS-CTA-1B-Llo (12g/6g)	1.2780	10.1560	8.2930	
	068	OVS-CTA-1B-Llo (60g/60g)	1.2615	10.1090	8.0146	
	069	OVS-CTA-1B-Llo (60g/120)	1.2696	10.3736	6.9219	
	070	OVS-CTA-1B-Llo (120/120)	1.2803	10.2660	8.1040	
	071	OVS-CTA-1B-Llo (14g/6g)	1.2739	10.4640	8.7024	
	072	OVS-CTA-1B-Llo (14g/6g)	1.2584	10.3970	8.4812	
	073	OVS-CTA-1B-Llo-Dup1	1.2590	10.4040	8.2300	
	074	OVS-CTA-1B-Llo-Dup2	1.2784	10.8773	8.1422	
	075	OVS-CTA-1B-Llo-Dup3	0.9812	10.7352	8.4220	
	076	OVS-CTA-1B-Llo-Dup4	1.2562	10.9770	9.0940	
dup	076(dup)	dup	0.9870	10.9720	8.9812	1.0%
306088	001	FD5352-SS0605	0.9825	2.5170	2.2180	
	002	FD5352-SS0640	1.2697	10.0824	8.7650	
	003	FD5352-SS0660	1.2804	10.2200	9.1180	
	004	FD5352-SS0680	0.9817	10.7750	10.1810	
	005	FD5352-SS0610	0.9862	10.2530	9.5030	
	006	FD5352-SS0620	0.9920	10.5120	9.5590	

Comments: A 306088 (001) = That was all the samples that were left in the jar.

GPL LABORATORIES, LLP
ANALYTICAL RESULTS

Project Name : Spring Valley OU-5

Date Printed: June 20, 2003

GPL ID	Client ID
306083-001-001-1/1	OU5-CTA-1B-L10-EB01
306083-002-002-1/1	OU5-CTA-1B-L10-EB02
306083-003-003-1/1	OU5-CTA-1B-L10-EB03
306083-004-004-1/1	OU5-CTA-1B-L10-EB04

GPL Laboratories

CASE NARRATIVE

CLIENT: PARSONS ENGINEERING SCIENCE
PROJECT/SITE: SPRING VALLEY OU-5
REVIEW DATE: 06/23/03
WORK ORDER(S): 306083

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Four water samples were received on 06/11/2003. The samples were delivered by GPL courier. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m". Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Metals

1. Four water samples were analyzed for arsenic by EPA SW846 methods.
2. A matrix spike, duplicate, and serial dilution were performed on the batch sample 306053-006. They were within the control limits.
3. Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
4. All GPL QA/QC criteria were met.

Project Manager

Laboratory Director

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: OU5-CTA-1B-L10-EB01
GPL ID: 306083-001-001-1/1
Matrix: WATER
Date Collected: 06/11/2003
Date Received: 06/11/2003

Prep Method: SW3010A
Prep Date: 06/16/2003
Prep Time: 00:00
Prep Batch: 60886

Analytical Method: SW6010B
Date Analyzed: 06/17/2003
Time Analyzed: 19:18
Analysis Batch: 14834

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	20	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: OU5-CTA-1B-L10-EB02
GPL ID: 306083-002-002-1/1
Matrix: WATER
Date Collected: 06/11/2003
Date Received: 06/11/2003

Prep Method: SW3010A
Prep Date: 06/16/2003
Prep Time: 00:00
Prep Batch: 60886

Analytical Method: SW6010B
Date Analyzed: 06/17/2003
Time Analyzed: 19:26
Analysis Batch: 14834

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	20	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: OU5-CTA-1B-L10-EB03
GPL ID: 306083-003-003-1/1
Matrix: WATER
Date Collected: 06/11/2003
Date Received: 06/11/2003

Prep Method: SW3010A
Prep Date: 06/16/2003
Prep Time: 00:00
Prep Batch: 60886

Analytical Method: SW6010B
Date Analyzed: 06/17/2003
Time Analyzed: 19:34
Analysis Batch: 14834

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	20	ug/L	U	1

GPL LABORATORIES, LLLP

Summary of Analytical Results

Client ID: OU5-CTA-1B-L10-EB04
GPL ID: 306083-004-004-1/1
Matrix: WATER
Date Collected: 06/11/2003
Date Received: 06/11/2003

Prep Method: SW3010A
Prep Date: 06/16/2003
Prep Time: 00:00
Prep Batch: 60886

Analytical Method: SW6010B
Date Analyzed: 06/17/2003
Time Analyzed: 19:41
Analysis Batch: 14834

Parameter	Result	Rep Limit	Units	Qualifier	D.F.
Arsenic	BQL	20	ug/L	U	1

GPL LABORATORIES, LLLP

Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

Organics:

B = Indicates that the analyte was found in the associated blank as well as in the sample

D = Indicates that the analyte was reported from a diluted analysis

E = Indicates that the concentration detected exceeded the calibration range of the instrument

J = Value is less than the reporting limits but greater than the MDL

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

Metals:

B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)

H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit

N = Spiked sample recovery not within control limits

* = Duplicate analysis not within control limits

GPL LABORATORIES
202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-8802

CHAIN OF CUSTODY

DATE: 6/11/2003

COC #:

PAGE: 6 OF 6

GPL Project Manager:	D. Griffith	Parsons Project Contact:	Thomas Bachovchin	Site:	OU5 Expanded Sampling	Disposal Instructions:	LAB
Project Name:	Spring Valley	Phone Number:	(703) 934-2345	Address	Fed.Property, 5201 Littlefalls Rd	Shipment Method:	COURIER
Project Number:	740144	Purchase Order No.:			Washington, DC 20016	Waybill Number	NA

Comments: H=Hold Analysis Request X=Analyze

REGULAR TURNAROUND TIME

Sample Information						Preservatives and Containers																							
						4 oz					500 ml. HNO_3																		
						Methods for Analysis																				RUSH			
No.	LAB Sample ID	Date Sampled	Time Sampled	Matrix	Sampler's Initials	Arsenic (SW846 3050B/6010B)					Arsenic (SW846 3050B/6010B)																	QC (MS/MSD)	TOTAL BOTTLES
76	OU5-CTA-1B-L10-DUP04	6/11/2003	1200	SOIL	EC, TP	X																							1
77	OU5-CTA-1B-L10-EB01	6/11/2003	0905	SOIL	EC, TP						X																		1
78	OU5-CTA-1B-L10-EB02	6/11/2003	1005	SOIL	EC, TP						X																		1
79	OU5-CTA-1B-L10-EB03	6/11/2003	1105	SOIL	EC, TP						X																		1
80	OU5-CTA-1B-L10-EB04	6/11/2003	1205	SOIL	EC, TP						X																		1

Relinquished By: ERIC CHENG	Date: 6/11/2003	Time: 1600	For Lab Use
Received By:	Date: 6/11/03	Time: 1600	GPL WORK ORDER #: 306083
Relinquished By:	Date:	Time:	
Received By:	Date:	Time:	
Received By (LAB):	Date:	Time:	

GPL Laboratories, LLLP

Sample Preservation Check Documentation Form

Work Order: 306083

Parameter: / Preservative: / pH Value	Metals HN03 <2	Phenol H2SO4 <2	TPH O&G H2SO4 <2	Classical Parameters H2SO4 <2	Cyanide NaOH >12	Sulfide NaOH >9	Radiology H2SO4 <2	Other Preservations
Client ID								
005-CTA-1B-L10-EB01	<2							
005-CTA-1B-L10-EB02	<2							
005-CTA-1B-L10-EB03	<2							
005-CTA-1B-L10-EB04	<2							

Sample Preservation Check Performed By: [signature]

Date: [signature] 6/12/03

GPL Laboratories, LLLP

Figure 1
SAMPLE RECEIPT CHECKLIST

W.O. No: 306083
Client Name: Parsons ES
Date Received: 6/11/03
Time Received: 1600
Received By: Debbie

Carrier Name: GPL
Prepared (Logged In) By: [illegible] 6/12/03 (Initials Date)
Project:
Site:
VOA Holding Blank I.D. No:

	YES	NO
Airbill/Manifest Present?		✓
No.		
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container?		✓
Condition: Broken		
Intact-not dated or signed		
Intact-dated and signed		
Usage of Tamper Evident Type		✓
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present in Shipping Container?		✓
Type of Packing		
Custody seals on Sample Bottles?		✓
Condition: Good		
Broken		
Total Number of Sample Bottles 4		
Total Number of Samples 4		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks: No. of Sets		✓
Field Blanks: No. of Sets		✓
Equip. Blank: No. of Sets		✓
Field Duplicate: No. of Sets		✓
MS/MSD: No of Sets		✓
VOA Vials Have Zero Headspace?		✓
Preservatives Added to Sample?	✓	
pH Check Required?	✓	
Performed By? [illegible]	✓	
Ice Present In Shipping Container?	✓	

Container #	Temp.	Container #	Temp.
1	3.0		

Project Manager Contacted?
Name: Debbie
Date Contacted: 6/12/03

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A

COMMENTS:

Checklist Completed By: [signature]
Date: 6/12/03

SOP No: F.2V11

GPL - Maryland Laboratory

Cover Page - Inorganic Analysis Data Package

SDG: 306083

Client ID	Lab Sample ID:
OBDA-1-060903	D 306053-006-065-1/3
OBDA-1-060903	S 306053-006-065-1/3
OBDA-1-060903	SP306053-006-065-1/3
OU5-CTA-1B-L10-EB01	S 306083-001-001-1/1
OU5-CTA-1B-L10-EB02	S 306083-002-002-1/1
OU5-CTA-1B-L10-EB03	S 306083-003-003-1/1
OU5-CTA-1B-L10-EB04	S 306083-004-004-1/1

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: Steve Dill

Date: 6-20-07 Title: Metals Supervisor

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306083

Lab Sample ID: S 306083-001-001-1/1 **Client ID:** OU5-CTA-1B-L10-EB01

Matrix: Water **Units:** ug/L **Prep Date:** 6/16/03 **Prep Batch:** 60886

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	4.9	20.0	4.9	U	1	ICPST	6/17/03	19:18

Comments: Sample Date: 06/11/03 Sample Time: 09:05 AM Color(Before): COLORLESS Color(After): COLORLESS
Clarity(Before): CLEAR Clarity(After): CLEAR

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 306083

Lab Sample ID: S 306083-002-002-1/1 **Client ID:** OU5-CTA-1B-L10-EB02

Matrix: Water **Units:** ug/L **Prep Date:** 6/16/03 **Prep Batch:** 60886

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	4.9	20.0	4.9	U	1	ICPST	6/17/03	19:26

Comments: Sample Date: 06/11/03 Sample Time: 10:05 AM Color(Before): COLORLESS Color(After): COLORLESS
Clarity(Before): CLEAR Clarity(After): CLEAR

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306083

Lab Sample ID: S 306083-003-003-1/1 **Client ID:** OU5-CTA-1B-L10-EB03

Matrix: Water **Units:** ug/L **Prep Date:** 6/16/03 **Prep Batch:** 60886

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	4.9	20.0	4.9	U	1	ICPST	6/17/03	19:34

Comments: Sample Date: 06/11/03 Sample Time: 11:05 AM Color(Before): COLORLESS Color(After): COLORLESS Clarity(Before): CLEAR Clarity(After): CLEAR

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results SDG: 306083

Lab Sample ID: S 306083-004-004-1/1 **Client ID:** OU5-CTA-1B-L10-EB04

Matrix: Water **Units:** ug/L **Prep Date:** 6/16/03 **Prep Batch:** 60886

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	4.9	20.0	4.9	U	1	ICPST	6/17/03	19:41

Comments: Sample Date: 06/11/03 Sample Time: 12:05 PM Color(Before): COLORLESS Color(After): COLORLESS
Clarity(Before): CLEAR Clarity(After): CLEAR

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard SDG: 306083

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 90% - 110%

Standard Source: ABSOLUTE **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 6/17/03 2:28 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	413.12	103.3								

Form 2A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 306083

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV 6/17/03 2:42 PM		CVCCV3 6/17/03 3:48 PM		CVCCV3 6/17/03 5:30 PM		CVCCV3 6/17/03 7:03 PM		CVCCV4 6/17/03 8:35 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	494.37	98.9	503.25	100.7	498.34	99.7	501.26	100.3	507.61	101.5

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** 306083

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 50% - 150%

Standard Source: HIGH PURITY **Standard ID:** REPORTING LIMIT

Element	WL/ Mass	True Conc	REPORT LIMIT 6/17/03 2:57 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	19.80	99.0								

Form 2B Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** 306083

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BIICB 6/17/03 2:35 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	4.9	U								

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 306083

Lab Sample ID: BLK60886

Matrix: Water **Units:** ug/L **Prep Date:** 6/16/03 **Prep Batch:** 60886

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	4.9	20.0	4.9	U	1	ICPST	6/17/03	16:07

Comments: Color(Before): COLORLESS Color(After): COLORLESS Clarity(Before): CLEAR Clarity(After): CLEAR
Texture: FINE

U Result is less than the IDL

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Result **SDG:** 306083

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 6/17/03 2:49 PM		BCCCB3 6/17/03 3:56 PM		BCCCB3 6/17/03 5:37 PM		BCCCB3 6/17/03 7:10 PM		BCCCB4 6/17/03 8:43 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	4.9	U	4.9	U	4.9	U	4.9	U	4.9	U

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 306083

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 6/17/03 3:11 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		4				

5.04.5

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB **SDG:** 306083

Instrument: ICPST **Units:** ug/L

Chart Number: 030617V.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	IBICSABI 6/17/03 3:18 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	98.2	98.2								

5.04.5

NC Percent recovery was not calculated
U Result is less than the IDL
B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 306083

Spike Sample ID: SP306053-006-065-1/3

Original Sample ID: S 306053-006-065-1/3 **Client ID:** OBDA-1-060903

Matrix: Water **Units:** ug/L **Prep Date:** 6/16/03 **Prep Batch:** 60886

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	4.9	U	52.6		50	105.1	1	1	ICPST	6/17/03	17:07	6/17/03	17:22

Comments: Sample Date: 06/09/03 Sample Time: 10:15 AM Color(Before): COLORLESS Color(After): COLORLESS
Clarity(Before): CLEAR Clarity(After): CLEAR

NC Percent recovery was not calculated

* Duplicate analysis RPD was not within limits

E Serial dilution percent difference not within limits

U Result is less than the IDL

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 306083

Duplicate Sample ID: D 306053-006-065-1/3

Original Sample ID: S 306053-006-065-1/3 **Client ID:** OBDA-1-060903

Matrix: Water **Units:** ug/L **Prep Date:** 6/16/03 **Prep Batch:** 60886

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	4.9	U	4.9	U		1	1	ICPST	6/17/03	17:07	6/17/03	17:14

* Duplicate analysis RPD was not within limits

U Result is less than the IDL

B Result is between IDL and RL

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 306083

Lab Sample ID: BKS60886

Matrix: Water **Units:** ug/L **Prep Date:** 6/16/03 **Prep Batch:** 60886

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	50.0	50.1	100.2		80-120	1	ICPST	6/17/03	16:15

Comments: Color(Before): COLORLESS Color(After): COLORLESS Clarity(Before): CLEAR Clarity(After): CLEAR

NC Percent recovery was not calculated

U Result is less than the IDL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 306083

Serial Dilution Sample ID: SE306053-006-065-1/3

Original Sample ID: S 306053-006-065-1/3 **Client ID:** OBDA-1-060903

Matrix: Water **Units:** ug/L **Prep Date:** 6/16/03 **Prep Batch:** 60886

Weight: 100.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	4.9	U	24.5	U		1	5	ICPST	6/17/03	17:07	6/17/03	17:53

Comments: Sample Date: 06/09/03 Sample Time: 10:15 AM Color(Before): COLORLESS Color(After): COLORLESS Clarity(B

E Serial dilution percent difference not within limits

U Result is less than the IDL

B Result is between IDL and RL

Form 9 Equivalent

ICP ANALYSIS LOG

Document Control No: GP_M_116

Instrument ID: Trace (375590) Inst. Method: TRACE/8 Nebulizer: Analytical Batch No: 030617 ✓

Profile: -0.0198 Intensity: 61163 At Setting: 297

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
306053	TETRA TECH	60886	008	W	6-16-03	6010	
306080	↓						
306083	PARSONS						
306076	UXB			E			
306082	PARSONS	60888	010	S			
306082	↓	60916	015		6-17-03		
306084	ACOE						
306079	PARSONS						

Source Solution Numbers

Stds.	Number	Stds.	Number
S0	057-148-06	ICV	23179
S1	23337	CCV	23367
S2	23294	ICSA	23368
S3	23029	ICSAB	23369
S4	"	CRI	23295
S5	"	Low Ck	23042
Ints	23339	LR	23180

Post Digestion Spikes

Spike 9.9 mls of sample with 0.1 mls of 19542

Samples:

306053-006-065-1 / 3

306082-011-011-1 / 1

306082-059-059-1 / 1

~~306076-001-001-1 / 1~~ 6.8.03

Analyst: Date: 6-18-03 Reviewed: Date: 6/19/03

GPL - Maryland Laboratory **ICPST Analysis Log** **Data File: 039617V.ARC**

Seq	Sample Name	Dil	Date	Time
1	STD0	1	6/17/03	12:54
2	STD1	1	6/17/03	14:52
3	STD2	1	6/17/03	14:56
4	STD3	1	6/17/03	14:59
5	VICV	1	6/17/03	14:29
6	BKCB	1	6/17/03	14:35
7	CVCCV	1	6/17/03	14:42
8	ICCCB	1	6/17/03	14:49
9	REPORT LIMIT	1	6/17/03	14:57
10	ICRICW	1	6/17/03	15:04
11	BKCB	1	6/17/03	15:11
12	BKCB5	1	6/17/03	15:18
13	LR#4 COPPM_ZN=2	1	6/17/03	15:22
14	LR	1	6/17/03	15:40
15	CVCCV3	1	6/17/03	15:48
16	ICCCB8	1	6/17/03	15:55
17	BKKB58	1	6/17/03	16:01
18	BKCB58	1	6/17/03	16:12
19	306053-001-090-1/1	1	6/17/03	16:22
20	306053-002-081-1/1	1	6/17/03	16:30
21	306053-005-082-1/1	1	6/17/03	16:38
22	306053-004-083-1/1	1	6/17/03	16:46
23	306053-008-084-1/1	1	6/17/03	16:54
24	306053-006-085-1/1	1	6/17/03	17:01
25	306053-009-086-1/1	1	6/17/03	17:10
26	306053-004-085-1/1	1	6/17/03	17:22
27	CVCCV3	1	6/17/03	17:30
28	ICCCB3	1	6/17/03	17:37
29	306053-006-085-1/1	1	6/17/03	17:45
30	306053-009-085-1/1	1	6/17/03	17:53

Seq	Sample Name	Dil	Date	Time
31	STD0	1	6/17/03	18:01
32	BKCB4	1	6/17/03	18:08
33	CVCCV4	1	6/17/03	18:15
34	CCCB4	1	6/17/03	18:21
35	306053-009-086-1/1	1	6/17/03	18:27
36	306053-008-086-1/1	1	6/17/03	18:33
37	306053-010-019-1/1	1	6/17/03	18:47
38	306053-013-091-1/1	1	6/17/03	18:55
39	306062-011-011-1/1	1	6/17/03	19:03
40	306062-011-019-1/1	1	6/17/03	19:10
41	306053-011-091-1/1	1	6/17/03	19:18
42	306062-011-011-1/1	1	6/17/03	19:25
43	306053-013-092-1/1	1	6/17/03	19:34
44	306053-013-013-1/1	1	6/17/03	19:41
45	CVCCV4	1	6/17/03	19:48
46	CCCB4	1	6/17/03	19:57
47	306062-014-014-1/1	1	6/17/03	20:04
48	306053-016-016-1/1	1	6/17/03	20:12
49	306053-018-018-1/1	1	6/17/03	20:20
50	306053-018-016-1/1	1	6/17/03	20:28
51	306053-019-019-1/1	1	6/17/03	20:35
52	306053-020-020-1/1	1	6/17/03	20:43
53	306062-021-021-1/1	1	6/17/03	20:51
54	BKLK00018	1	6/17/03	20:58
55	BKBK00018	1	6/17/03	21:06
56	306053-006-089-1/1	1	6/17/03	21:14
57	CVCCV5	1	6/17/03	21:22
58	CCCB5	1	6/17/03	21:30
59	306062-009-009-1/1	1	6/17/03	21:37
60	306062-009-009-1/1	1	6/17/03	21:45

Seq	Sample Name	Dil	Date	Time
61	306062-009-020-1/	1	6/17/03	21:53
62	306062-009-009-1/1	1	6/17/03	22:01
63	BKCB5	1	6/17/03	22:09
64	CVCCV5	1	6/17/03	22:16
65	CCCB5	1	6/17/03	22:24
66	306053-008-020-1/1	1	6/17/03	22:32
67	306062-010-019-1/1	1	6/17/03	22:39
68	306053-013-091-1/1	1	6/17/03	22:47
69	306062-011-011-1/1	1	6/17/03	22:54
70	CVCCV6	1	6/17/03	23:02
71	CCCB6	1	6/17/03	23:09
72	306062-011-011-1/	1	6/17/03	23:17
73	306062-011-011-1/	1	6/17/03	23:24
74	306062-012-012-1/1	1	6/17/03	23:32
75	306062-013-013-1/1	1	6/17/03	23:39
76	CVCCV7	1	6/17/03	23:47
77	CCCB7	1	6/17/03	23:54
78	306062-014-014-1/1	1	6/18/03	0:02
79	306062-015-015-1/1	1	6/18/03	0:09
80	306062-016-016-1/1	1	6/18/03	0:17
81	306062-019-019-1/1	1	6/18/03	0:24
82	306062-020-020-1/1	1	6/18/03	0:32
83	306062-021-021-1/1	1	6/18/03	0:39
84	BKBK00018	1	6/18/03	0:47
85	306053-006-089-1/1	1	6/18/03	0:54
86	CVCCV8	1	6/18/03	1:02
87	CCCB8	1	6/18/03	1:09
88	306062-009-009-1/1	1	6/18/03	1:17
89	306062-009-009-1/1	1	6/18/03	1:24

Seq	Sample Name	Dil	Date	Time
90	306062-009-020-1/	1	6/18/03	1:32
91	306062-009-009-1/1	1	6/18/03	1:39
92	BKCB5	1	6/18/03	1:47
93	CVCCV9	1	6/18/03	1:54
94	CCCB9	1	6/18/03	2:02
95	306062-008-020-1/1	1	6/18/03	2:09
96	306062-004-004-1/1	1	6/18/03	2:17
97	306062-005-005-1/1	1	6/18/03	2:24
98	306062-004-005-1/1	1	6/18/03	2:32
99	306062-007-007-1/1	1	6/18/03	2:40
100	CVCCV5	1	6/18/03	2:47
101	CCCB5	1	6/18/03	2:55
102	306062-004-008-1/1	1	6/18/03	3:03
103	306062-004-008-1/1	1	6/18/03	3:11
104	306062-007-070-1/1	1	6/18/03	3:18
105	306062-071-071-1/1	1	6/18/03	3:26
106	306062-072-072-1/1	1	6/18/03	3:34
107	306062-073-073-1/1	1	6/18/03	3:42
108	306062-074-074-1/1	1	6/18/03	3:49
109	306062-075-075-1/1	1	6/18/03	3:57
110	306062-076-076-1/1	1	6/18/03	4:05
111	306064-091-091-1/1	1	6/18/03	4:13
112	CVCCV6	1	6/18/03	4:20
113	CCCB6	1	6/18/03	4:28
114	306064-092-092-1/1	1	6/18/03	4:36
115	306079-091-091-1/1	1	6/18/03	4:44
116	ICRICW	1	6/18/03	4:51
117	BKCB4	1	6/18/03	4:59
118	CVCCV3	1	6/18/03	5:07
119	CCCB3	1	6/18/03	5:14

Analyst Signature: Date: 6-18-03 Analyst Signature: Date:

Sample Dilutions:

306082-062-062-1/1:2x For Pb - at log read
306053-003-062-1/1:5x For Mn

GPL Laboratories, LLLP

Document Control No: GP_M_119

Metals Preparation & Sample Description Log

Date: 06-16-08 Prep: 200.7 / 3005A / 3020A / 3050B / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 119008

Analyst: MSS Comments: HOT PLATE DIGESTION (Water, Extr.)

WO No 306076-001 = 25 ML Sample + 25 ML Nitric + DI Water = 100 (100ML)

Reviewed by: [illegible] Date: 6/17/08 Spike Witness: KC Prep. Seq: 60886

	GPL Work Order No.	Sample	Frac	SIZE (mL) (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk.	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	BLK	008		100	100	Water	Colorless	Colorless	Clear	Clear	2
2	BKS	008									
3	306053	001	-060-1/2								
4		002	-061-1/2								
5		003	-062-1/2								
6		004	-063-1/2								
7		005	-064-1/2								
8		006	-065-1/2								
9		DUP									
10		SPK									
11		007	-066-1/2								
12		008	-067-1/2								
13		009	-068-1/2								
14	306080	001	-022-1/2								
15		002	-023-1/2								
16		003	-024-1/2								
17		004	-025-1/2								
18		005	-026-1/2								
19	306083	001	-001-1/2								
20		002	-002-1/2								
21		003	-003-1/2								
22		004	-004-1/2								
23	306076	001	-001-1/2			Extr.				MH 08	16 03
24		DUP									

LCS ID / Amt. Added (ml, g): 0.1 ml (22696, 22697, 22698)

Spiking ID / Amt Added (ml): 0.1 ml (22696, 22697, 22698)

Temperature, C: 94°C

HNO3(1+1) ID: —

HNO3(conc) ID: GP-052-002-11

HCl(conc) ID: —

HCl(1+1) ID: GP-052-151-08

Peroxide ID: —

Metals Preparation & Sample Description Log

Page 2 of 2

Date: 06-16-03 Prep: 200.7 / 3005A / 3020A / 3050B / 3010A / ILC03.1 / ILM04.1 / ILM05.2 Batch No: 119008

Analyst: MH Comments: HOT PLATE DIGESTION (Water, Extr.)

W.O NO 306076 - 001 = 25 ml Sample + 2 ml Nitric Acid + DI Water = 100 ml (1000 ml)

Reviewed by: AP Date: 6/17/03 Spike Witness: EC Prep. Seq: 60886

	GPL Work Order No.	Sample	Frac	SIZE (mg) (g)	Final Vol. (mL)	Matrix S, W Other	Color Before R, Bl, Y, G, O, V, W, Colorless, Br, Grey, Bk	Color After	Clarity Before or Soil Texture	Clarity After Clear, Cloudy, Opaque	Soil Artifacts or Water pH
1	306076	001 SPK	-001	100	100	Extr	Colorless	Colorless	Clear	Clear	6
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											
15											
16											
17											
18											
19											
20											
21											
22											
23											
24											

MH 06-16-03

LCS ID / Amt. Added (ml, g): 0.1ml (22696, 22697, 22698)	HNO3(1+1) ID: —
Spiking ID / Amt Added (ml): 0.1ml (22696, 22697, 22698)	HNO3(conc) ID: GP-057-007-14
	HCl(conc) ID: —
Temperature, C: 94°C	HCl(1+1) ID: GP-057-151-08
	Peroxide ID: —

GPL
Laboratories

CASE NARRATIVE

CLIENT: PARSONS ENGINEERING SCIENCE
PROJECT/SITE: SPRING VALLEY OU-5
WORK ORDER(S): 308187
REVIEW DATE: 10/6/03

The Case Narrative, Chain of Custody, Sample Receipt Checklist, and the cover page of the Sample Analysis Report, are integral parts of GPL Laboratories' report package. If you did not receive all of these documents, please contact GPL immediately.

Sample Receipt

Two soil samples were received on 08/26/2003. The samples were delivered by GPL courier. Sample receipt conditions and temperatures are documented on the Sample Receipt Checklist.

Sample Analysis

Samples were prepared and analyzed by GPL using the analytical methodologies indicated on the Sample Analysis Summary Report. In some chromatographic analyses, manual integration is used instead of automated integration because it produces more accurate results. All manual integrations are denoted on the sample quantitation report as "m". Analysis results and limits for soil are reported on a dry weight basis unless otherwise specified on the report.

Metals

1. Two soil samples were analyzed for arsenic by EPA SW846 methods.
2. A matrix spike, duplicate, and serial dilution were performed on the batch sample 308194-001. They were within the control limits.
3. Calibration standards are verified against independent check standards purchased from a commercial vendor of environmental standards.
4. All GPL QA/QC criteria were met.

Project Manager

Laboratory Director

GPL LABORATORIES, LLLP

Qualifier Definitions

U = Indicates that the compound was analyzed for but not detected at or above the reporting limit

Organics:

B = Indicates that the analyte was found in the associated blank as well as in the sample

D = Indicates that the analyte was reported from a diluted analysis

E = Indicates that the concentration detected exceeded the calibration range of the instrument

J = Value is less than the reporting limits but greater than the MDL

P = Indicates that there is greater than 25% difference for detected pesticide/Aroclor results between the two GC columns

Metals:

B = Indicates that the reported value was less than the reporting limit but greater than or equal to the IDL/MDL

E = Indicates that reported value is estimated because of the possible presence of interference (i.e., the serial dilution not within control limits)

H = Indicates that the element was found in the associated blank as well as in the sample and the value is greater than or equal to the reporting limit

N = Spiked sample recovery not within control limits

* = Duplicate analysis not within control limits

GPL LABORATORIES, LLP

202 Perry Parkway
Gaithersburg, MD 20877
(301) 926-6802
Fax (301) 840-1209

Contract #/Billing Reference: 740144.12

1 of 1 Pgs.

Project: Spring Valley OU-5
Client: Parsons
Send Results To: James Taylor
Address: 10521 Rosehaven St.
Fairfax VA. 22030
Phone: 703-591-7575

Turnaround Time: Normal
# of Containers: 1
Container Type: 4oz. Jars
Preservative Used: 4°C
Type of Analysis: Asbestos

Sample ID#	Date Sampled	Time Sampled	Sample Matrix	Sampler's Initials	Asbestos	Lab Cooler No.	CLIENT COMMENTS
② 5104RP							
OU5-CSA-12-5546RA	1 8/26/03	1100	Soil	TP	X		
OU5-CSA-12-5547RP	2 8/26/03	1115	Soil	TP	X		

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
	8/26/03 1230				8/26/03 1250
Relinquished By:	Date/Time	Received By:	Date/Time / Shipper:	Airbill No.:	
Relinquished By:	Date/Time	Received By:	Lab Comments: ② Sample IDs Changed per Client & 8/27/03	Temp: 2.0	

G.P. W.O. 50187

GPL Laboratories, LLLP

SAMPLE RECEIPT CHECKLIST

W.O. No: 308187

Client Name: Parsons E5

Date Received: 8/26/03

Time Received: 12:30

Received By: Debbie

Carrier Name: GPL

Prepared (Logged In) By: _____ 8/26/03
Initials Date

Project: _____

Site: _____

VOA Holding Blank I.D. No: _____

	YES	NO
Airbill/Manifest Present?	—	✓
No. _____		
Shipping Container in Good Condition?	✓	—
Custody Seals Present on Shipping Container?	—	✓
Condition: Broken _____		
Intact-not dated or signed _____		
Intact-dated and signed _____		
Usage of Tamper Evident Type	—	✓
Chain-of-Custody Present?	✓	—
Chain-of-Custody Agrees with Sample Labels?	✓	—
Chain-of-Custody Signed?	✓	—
Packing Present in Shipping Container?	—	✓
Type of Packing _____		
Custody seals on Sample Bottles?	—	✓
Condition: Good _____ Broken _____		
Total Number of Sample Bottles 2		
Total Number of Samples 2		
Samples Intact?	✓	—
Sufficient Sample Volume for Indicated Test?	✓	—

	YES	NO
Trip Blanks: No. of Sets _____	—	✓
Field Blanks: No. of Sets _____	—	✓
Equip. Blank: No. of Sets _____	—	✓
Field Duplicate: No. of Sets _____	—	✓
MS/MSD: No of Sets _____	—	✓
VOA Vials Have Zero Headspace?	—	✓
Preservatives Added to Sample?	—	✓
pH Check Required?	—	✓
Performed By? _____	—	—
Ice Present in Shipping Container?	✓	—

Container #	Temp.	Container #	Temp.
1	2.0		

Project Manager Contacted?
Name: Debbie
Date Contacted: 8/26/03

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contracts, they should be marked N/A/

COMMENTS: _____

Checklist Completed By: _____

Date: 8/26/03

GPL - Maryland Laboratory

Cover Page - Inorganic Analysis Data Package

SDG: 308187

Client ID	Lab Sample ID:
3F51Q4	D 308194-001-001-1/1
3F51Q4	S 308194-001-001-1/1
3F51Q4	SP308194-001-001-1/1
OU5-CSA-12-5104RP-1	S 308187-001-001-1/1
OU5-CSA-12-5104RP-2	S 308187-002-002-1/1

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than conditions detailed above. Release of the data combined in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: Steve Dill Name: Steve Dill

Date: 10-7-03 Title: Metals Supervisor

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 308187

Lab Sample ID: S 308187-001-001-1/1 **Client ID:** OU5-CSA-12-5104RP-1

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/29/03 **Prep Batch:** 62275

Weight: 1.31 **Volume:** 100 **Percent Moisture:** 17.85

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.04	0.25	1.9	7.1		1	ICPST	9/05/03	4:01

Comments: Sample Date: 08/26/03 Sample Time: 11:00 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

U Result is less than the IDL

B Result is between IDL and RL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Results **SDG:** 308187

Lab Sample ID: S 308187-002-002-1/1 **Client ID:** OU5-CSA-12-5104RP--2

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/29/03 **Prep Batch:** 62275

Weight: 1.30 **Volume:** 100 **Percent Moisture:** 20.57

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	**189.04**	**0.26**	**1.9**	**9.6**		**1**	**ICPST**	**9/05/03**	**4:09**

Comments: Sample Date: 08/26/03 Sample Time: 11:15 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

5.05.0

U Result is less than the IDL

B Result is between IDL and RL

Form 1 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Verification Standard **SDG:** 308187

Instrument: ICPST **Units:** ug/L

Chart Number: 030904.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	IVICV 9/04/03 2:09 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	400.0	418.80	104.7								

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 308187

Instrument: ICPST **Units:** ug/L

Chart Number: 030904.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV 9/04/03 2:24 PM		CVCCV3 9/04/03 4:05 PM		CVCCV3 9/04/03 5:44 PM		CVCCV3 9/04/03 7:23 PM		CVCCV4 9/04/03 9:00 PM	
			Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	500.0	501.23	**100.2**	504.01	**100.8**	498.25	**99.6**	503.71	**100.7**	509.08	**101.8**

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Verification **SDG:** 308187

Instrument: ICPST **Units:** ug/L

Chart Number: 030904.ARC **Acceptable Range:** 90% - 110%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	CVCCV4 9/04/03 10:37 PM Found	% Rec	CVCCV4 9/05/03 12:15 AM Found	% Rec	CVCCV5 9/05/03 1:52 AM Found	% Rec	CVCCV5 9/05/03 3:29 AM Found	% Rec	CVCCV5 9/05/03 4:48 AM Found	% Rec
Arsenic	189.042	500.0	507.12	101.4	523.16	104.6	510.11	102.0	520.92	104.2	519.59	103.9

GPL - Maryland Laboratory

Metals Data Reporting Form

Contract Required Detection Limit Standard **SDG:** 308187

Instrument: ICPST **Units:** ug/L

Chart Number: 030904.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc	EPORTING LIMI 9/04/03 2:40 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	20.0	19.47	97.4								

Form 2B Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Initial Calibration Blank Results **SDG:** 308187

Instrument: ICPST **Units:** ug/L

Chart Number: 030904.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BIICB 9/04/03 2:16 PM Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U								

5.05.0

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Blank Results **SDG:** 308187

Lab Sample ID: BLK62275

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/29/03 **Prep Batch:** 62275

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	IDL	Report Limit	Conc	Q	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	0.27	2.0	0.27	U	1	ICPST	9/05/03	0:46

Comments: Clarity(After): CLEAR

5.05.0

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** 308187

Instrument: ICPST **Units:** ug/L

Chart Number: 030904.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB 9/04/03 2:32 PM		BCCCB3 9/04/03 4:12 PM		BCCCB3 9/04/03 5:52 PM		BCCCB3 9/04/03 7:31 PM		BCCCB4 9/04/03 9:08 PM	
			Found	Q	Found	Q	Found	Q	Found	Q	Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	2.7	U	2.7	U

U Result is less than the IDL
B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Continuing Calibration Blank Results **SDG:** 308187

Instrument: ICPST **Units:** ug/L

Chart Number: 030904.ARC

Standard Source: _____ **Standard ID:** _____

Element	WL/ Mass	Report Limit	BCCCB4 9/04/03 10:45 PM Found	Q	BCCCB4 9/05/03 12:22 AM Found	Q	BCCCB5 9/05/03 2:00 AM Found	Q	BCCCB5 9/05/03 3:37 AM Found	Q	BCCCB5 9/05/03 4:56 AM Found	Q
Arsenic	189.042	20	2.7	U	2.7	U	2.7	U	**3.1**	**B**	**3.2**	**B**

U Result is less than the IDL

B Result is between IDL and RL

Form 3 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard A **SDG:** 308187

Instrument: ICPST **Units:** ug/L

Chart Number: 030904.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	Reporting Limit	True Conc	IAICSAI 9/04/03 3:38 PM Found	Found	Found	Found	Found
Arsenic	189.042	20		2				

5.05.0

U Result is less than the IDL

B Result is between IDL and RL

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Interference Check Standard AB **SDG:** 308187

Instrument: ICPST **Units:** ug/L

Chart Number: 030904.ARC **Acceptable Range:** 80% - 120%

Standard Source: HIGH PURITY **Standard ID:**

Element	WL/ Mass	True Conc.	IBICSABI 9/04/03 3:45 PM Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec	Found	% Rec
Arsenic	189.042	100	96.5	96.5								

5.05.0

U Result is less than the IDL
B Result is between IDL and RL
N Spike recovery failed

Form 4 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Matrix Spike Sample Results **SDG:** 308187

Spike Sample ID: SP308194-001-001-1/1

Original Sample ID: S 308194-001-001-1/1 **Client ID:** 3F51Q4

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/29/03 **Prep Batch:** 62275

Weight: 1.44 **Volume:** 100 **Percent Moisture:** 30.98

Element	WL/ Mass	OS Conc	Q	MS Conc	Q	Spike Level	% Rec	OS DF	MS DF	Instr	OS Anal Date	OS Anal Time	MS Anal Date	MS Anal Time
Arsenic	189.0	3.9		13.6		10.061	96.1	1	1	ICPST	9/05/03	1:02	9/05/03	1:18

Comments: Sample Date: 08/19/03 Sample Time: 12:00 AM Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

U Result is less than the IDL

B Result is between IDL and RL

N Spike recovery failed

NC Percent recovery was not calculated

Form 5A Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Sample Duplicate RPD Report **SDG:** 308187

Duplicate Sample ID: D 308194-001-001-1/1

Original Sample ID: S 308194-001-001-1/1 **Client ID:** 3F51Q4

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/29/03 **Prep Batch:** 62275

Weight: 1.40 **Volume:** 100 **Percent Moisture:** 30.98

Element	WL/ Mass	OS Conc	Q	Dupe Conc	Q	% RPD	OS DF	Dupe DF	Instr	OS Anal Date	OS Anal Time	Dupe Anal Date	Dupe Anal Time
Arsenic	189.042	3.9		3.6		8.4	1	1	ICPST	9/05/03	1:02	9/05/03	1:10

U Result is less than the IDL

B Result is between IDL and RL

* Duplicate analysis RPD was not within limits

Form 6 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Laboratory Control Sample Results **SDG:** 308187

Lab Sample ID: BKS62275

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/29/03 **Prep Batch:** 62275

Weight: 1.00 **Volume:** 100 **Percent Moisture:** NA

Element	WL/ Mass	Spike Level	Conc	Percent Recovery	Q	Range	DF	Instr	Anal Date	Anal Time
Arsenic	189.042	10.0	10.1	100.9		80-120	1	ICPST	9/05/03	0:54

Comments: Color(Before): BROWN Color(After): YELLOW Clarity(After): CLEAR Texture: MEDIUM

U Result is less than the IDL

B Result is between IDL and RL

Form 7 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Serial Dilution RPD Report **SDG:** 308187

Serial Dilution Sample ID: SE308194-001-001-1/1

Original Sample ID: S 308194-001-001-1/1 **Client ID:** 3F51Q4

Matrix: Soil **Units:** mg/kg **Prep Date:** 8/29/03 **Prep Batch:** 62275

Weight: 1.37 **Volume:** 100 **Percent Moisture:** 30.98

Element	WL/ Mass	OS Conc	Q	Serial Dilution Conc	Q	Percent Diff	OS DF	Ser Dil DF	Instr	OS Anal Date	OS Anal Time	Ser Dil Anal Date	Ser Dil Anal Time
Arsenic	189.042	3.9		4.5	B	15.5	1	5	ICPST	9/05/03	1:02	9/05/03	1:34

Comments: Sample Date: 08/19/03 Sample Time: 12:00 AM

5.05.0

U Result is less than the IDL

B Result is between IDL and RL

E Serial dilution percent difference not within limits

Form 9 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Instrument Detection Limits **SDG:** 308187

Instrument: ICPST **Units:** ppb

Element	Wavelength	Reporting Limit	IDL	Date of IDL
Arsenic	189.042	20.0	2.7	3/05/03

GPL - Maryland Laboratory

Metals Data Reporting Form

Inter-Element Correction Factors Vaccum 275570 SDG: 308187

Instrument: ICPST **Date of IEC's:** 7/29/2003

Interfering Element	Wavelength /Mass	Correction Factor(s)
Aluminum	308.215	Cd(0.000003), Mn(0.000005), Pb(0.000281) Pb^2(-0.000196)
Barium	493.409	Co(-0.000541)
Chromium	267.716	As(-0.005974), Sb(0.006718), Ti(0.001094), V(-0.001295)
Cobalt	228.616	B(0.000259), Fe(0.092876), Tl(0.002844)
Copper	324.753	Zn(0.000762)
Iron	271.441	Al(-0.00056), B(-0.000036), Ba(0.000003), Cd(0.000151), Cr(-0.000023), Mg(0.000227), Mn(-0.000018), Mo(-0.000007), Na(-0.001207), Pb(0.000056), Sb(0.000022), Se(-0.000005), Sn(0.000011), Tl(-0.000135), V(-0.000039), Zn(0.000112) Pb^2(-0.000088) Se^2(-0.000347)
Magnesium	279.078	Fe(-0.000211)
Manganese	257.61	Ag(0.000047), Cr(0.000114), Mg(-0.003466), Mo(-0.000037), Pb(0.000089), Pb^2(0.000077) Se(0.000301), Sn(-0.000046), Tl(-0.0001), V(-0.000034) Se^2(0.000254)
Molybdenum	202.03	Al(0.006051), Be(-0.000051), Mn(-0.000344), Pb(-0.000171), Sb(-0.010796), Tl(-0.000447), V(-0.002908) Pb^2(-0.000355)
Titanium	334.941	B(0.000282), Co(0.002186), Cr(0.000032), Pb(-0.000645), Sn(0.000458), Tl(-0.000788), V(0.000335)
Vanadium	292.402	Al(0.025885), Be(-0.00054), Fe(0.007412), Tl(0.001774)
Zinc	206.2	Na(0.075037)

GPL - Maryland Laboratory

Metals Data Reporting Form

Linear Dynamic Ranges **SDG:** 308187

Instrument: ICPST **Units:** ppb

Element	Wavelength /Mass	Linear Range	Date of Linear Range
Arsenic	189.04	2000	7/04/03

GPL - Maryland Laboratory

Metals Data Reporting Form

Preparation Log **SDG:** 308187

Preparation Batch: 62275 **Instrument:** ICP **Matrix:** Soil

Sample ID	Prep Date	Weight (g)	Volume (ml)	% Moisture
BKS62275	8/29/03	1.00	100	NA
BLK62275	8/29/03	1.00	100	NA
D 308194-001-001-1/1	8/29/03	1.40	100	30.98
S 308187-001-001-1/1	8/29/03	1.31	100	17.85
S 308187-002-002-1/1	8/29/03	1.30	100	20.57
S 308194-001-001-1/1	8/29/03	1.37	100	30.98
SP308194-001-001-1/1	8/29/03	1.44	100	30.98

GPL - Maryland Laboratory

Metals Data Reporting Form

Instrument Runlog **SDG:** 308187

Instrument: ICPST **Chart Number:** 030904.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
STD0		9/04/03	13:19
STD1		9/04/03	13:27
STD2		9/04/03	13:35
STD3		9/04/03	13:42
ZZZZZZ		9/04/03	13:56
IVICV		9/04/03	14:09
BIICB		9/04/03	14:16
CVCCV		9/04/03	14:24
BCCCB		9/04/03	14:32
REPORTING LIMIT		9/04/03	14:40
ZZZZZZ		9/04/03	14:47
ZZZZZZ		9/04/03	14:55
ZZZZZZ		9/04/03	15:06
ZZZZZZ		9/04/03	15:17
ZZZZZZ		9/04/03	15:27
IAICSAI		9/04/03	15:38
IBICSABI		9/04/03	15:45
ZZZZZZ		9/04/03	15:55
CVCCV3		9/04/03	16:05
BCCCB3		9/04/03	16:12
ZZZZZZ		9/04/03	16:23
ZZZZZZ		9/04/03	16:30
ZZZZZZ		9/04/03	16:38
ZZZZZZ		9/04/03	16:46
ZZZZZZ		9/04/03	16:54
ZZZZZZ		9/04/03	17:02
ZZZZZZ		9/04/03	17:10
ZZZZZZ		9/04/03	17:18
ZZZZZZ		9/04/03	17:26
ZZZZZZ		9/04/03	17:34
CVCCV3		9/04/03	17:44
BCCCB3		9/04/03	17:52
ZZZZZZ		9/04/03	18:00
ZZZZZZ		9/04/03	18:07
ZZZZZZ		9/04/03	18:18
ZZZZZZ		9/04/03	18:26
ZZZZZZ		9/04/03	18:33
ZZZZZZ		9/04/03	18:41
ZZZZZZ		9/04/03	18:49

Form 14 Equivalent

GPL - Maryland Laboratory

Metals Data Reporting Form

Instrument Runlog **SDG:** 308187

Instrument: ICPST **Chart Number:** 030904.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
ZZZZZZ		9/04/03	18:57
ZZZZZZ		9/04/03	19:05
ZZZZZZ		9/04/03	19:13
CVCCV3		9/04/03	19:23
BCCCB3		9/04/03	19:31
ZZZZZZ		9/04/03	19:39
ZZZZZZ		9/04/03	19:47
ZZZZZZ		9/04/03	19:55
ZZZZZZ		9/04/03	20:03
ZZZZZZ		9/04/03	20:11
ZZZZZZ		9/04/03	20:18
ZZZZZZ		9/04/03	20:26
ZZZZZZ		9/04/03	20:34
ZZZZZZ		9/04/03	20:42
ZZZZZZ		9/04/03	20:50
CVCCV4		9/04/03	21:00
BCCCB4		9/04/03	21:08
ZZZZZZ		9/04/03	21:16
ZZZZZZ		9/04/03	21:24
ZZZZZZ		9/04/03	21:32
ZZZZZZ		9/04/03	21:42
ZZZZZZ		9/04/03	21:50
ZZZZZZ		9/04/03	21:58
ZZZZZZ		9/04/03	22:06
ZZZZZZ		9/04/03	22:14
ZZZZZZ		9/04/03	22:22
ZZZZZZ		9/04/03	22:30
CVCCV4		9/04/03	22:37
BCCCB4		9/04/03	22:45
ZZZZZZ		9/04/03	22:53
ZZZZZZ		9/04/03	23:01
ZZZZZZ		9/04/03	23:09
ZZZZZZ		9/04/03	23:17
ZZZZZZ		9/04/03	23:25
ZZZZZZ		9/04/03	23:33
ZZZZZZ		9/04/03	23:41
ZZZZZZ		9/04/03	23:49
ZZZZZZ		9/04/03	23:56
ZZZZZZ		9/05/03	0:04

GPL - Maryland Laboratory

Metals Data Reporting Form

Instrument Runlog **SDG:** 308187

Instrument: ICPST **Chart Number:** 030904.ARC

Lab Sample Name	Client Sample Name	Date of Analysis	Time of Analysis
CVCCV4		9/05/03	0:15
BCCCB4		9/05/03	0:22
ZZZZZZ		9/05/03	0:30
ZZZZZZ		9/05/03	0:38
BLK62275	BLK62275	9/05/03	0:46
BKS62275	BKS62275	9/05/03	0:54
S 308194-001-001-1/1	3F51Q4	9/05/03	1:02
D 308194-001-001-1/1	3F51Q4	9/05/03	1:10
SP308194-001-001-1/1	3F51Q4	9/05/03	1:18
ZZZZZZ		9/05/03	1:26
SE308194-001-001-1/1	3F51Q4	9/05/03	1:34
ZZZZZZ		9/05/03	1:42
CVCCV5		9/05/03	1:52
BCCCB5		9/05/03	2:00
ZZZZZZ		9/05/03	2:08
ZZZZZZ		9/05/03	2:16
ZZZZZZ		9/05/03	2:23
ZZZZZZ		9/05/03	2:31
ZZZZZZ		9/05/03	2:39
ZZZZZZ		9/05/03	2:47
ZZZZZZ		9/05/03	2:55
ZZZZZZ		9/05/03	3:03
ZZZZZZ		9/05/03	3:11
ZZZZZZ		9/05/03	3:19
CVCCV5		9/05/03	3:29
BCCCB5		9/05/03	3:37
ZZZZZZ		9/05/03	3:45
ZZZZZZ		9/05/03	3:53
S 308187-001-001-1/1	OU5-CSA-12-5104RP-1	9/05/03	4:01
S 308187-002-002-1/1	OU5-CSA-12-5104RP-2	9/05/03	4:09
ZZZZZZ		9/05/03	4:17
ZZZZZZ		9/05/03	4:25
ZZZZZZ		9/05/03	4:32
ZZZZZZ		9/05/03	4:40
CVCCV5		9/05/03	4:48
BCCCB5		9/05/03	4:56

GPL Laboratories, LLLP | **ICP ANALYSIS LOG** | *Document Control No: GP_M_109*

Instrument ID: Trace (424690)	Inst. Method: Trace4	Nebulizer:	Analytical Batch No: 030904
Profile:	Intensity:		At Setting:

Workorder	Project/SDG #	Prep. Seq.	Batch #	Matrix s/w/e	Prep. Date	Method	Comments / Dilution
306230	ALTECH	62243	181	S	8.28.03	6010B	2x ON 006,008,012 / 5x ON 009,010
307008	↓	61257	073	↓	7.7.03	↓	
307171	SHAW	61602	147	↓	8.13.03	↓	RERUN 005 (QC)
308151	EA	62224	175	↓	8.26.03	↓	
308152	↓	↓	↓	↓	↓	↓	
308109	MKM	62236	176	E	↓	↓	
308194	ACOE	62275	184	S	8.29.03	↓	
308203	CHEVRA	↓	↓	↓	↓	↓	
308187	PARSONS	↓	↓	↓	↓	↓	
307011	ALTECH	↓	↓	↓	↓	↓	-17 L TI

Source Solution Numbers				Post Digestion Spikes
Stds.	Number	Stds.	Number	Spike 9.9 mls of sample with 0.1 mls of 23548
S0	057-148-09	ICV	25716	Samples:
S1	25956	CCV	26004	308151-003-003-1 / 1
S2	25896	ICSA	25760	308194-001-001-1 / 1
S3	25758	ICSAB	25897	
S4	"	CRI	25895	
S5	"	Low Ck	25869	
Ints	25722	LR	25562	

Analyst: [signature] Date: 9.5.03 Reviewed: [signature] Date: 9/5/03

ORIGINAL

USEPA'S ARSENIC SPLIT SAMPLING RESULTS

Results of USEPA Arsenic Split Sampling with the USACE
(results in mg/kg)

Sample Date	USACE Sample ID	EPA Station ID	EPA Lab Sample Number	EPA Result	USACE Result	Validation Flag	Notes
9/17/2001	CTA-1A-4996-WS-1	R31083-01	1092001	5.0	1.47*		See Below
9/17/2001	CTA-1A-4996-WS-2	R31083-02	1092002	2.7	2.52*		See Below
9/17/2001	CTA-1A-4996-WS-3	R31083-03	1092003	2.6	1.9*		See Below
9/17/2001	CTA-1A-4996-WS-4	R31083-04	1092004	3.6	2.36*		See Below
9/17/2001	CTA-1A-5124-(52)-1	R31083-05	1092005	2.9	2.2		
9/17/2001	CTA-1A-5124-(52)-2	R31083-06	1092006	2.9	1.7	J	
9/17/2001	CTA-1A-5124-(52)-3	R31083-07	1092007	2.0	1.4	J	EPA Dup of 1092009
9/17/2001	CTA-1A-5124-(52)-4	R31083-08	1092008	2.0	1.9	J	
9/17/2001	CTA-1A-5124-(52)-5	R31083-09	1092009	1.8	1.2	J	EPA Dup of 1092007
9/17/2001	CTA-1D-4816-RS-1	R31083-10	1092010	1.9	3.5		
9/17/2001	CTA-1D-4816-RS-2	R31083-11	1092011	4.3	2.8		
9/17/2001	CTA-1D-4816-RS-3	R31083-12	1092012	4.2	3.9		
9/17/2001	CTA-1D-4816-RS-4	R31083-13	1092013	6.2	6.1		
9/17/2001	CTA-1A-5124-(52)-SB1	R31083-14	1092014	1.9	0.88	J	
9/17/2001	CTA-1A-5124-(52)-SB2	R31083-15	1092015	2.5	2.4		
9/17/2001	CTA-1A-5124-(52)-SB3	R31083-16	1092016	2.2	1.2	J	
11/6/2001	OU5-CSA-8-4462TinS-(520/220)	R31127-01	1110801	49.4	48.5	J	
11/6/2001	OU5-CSA-8-4462TinS-(520/200)	R31127-02	1110802	21.6	27.8	J	
11/6/2001	OU5-CSA-8-4462TinS-(500/220)	R31127-03	1110803	33.6	24.3	J	EPA Dup of 1110804
11/6/2001	OU5-CSA-8-4462TinS-(500/220)	R31127-04	1110804	30.1	NA		EPA Dup of 1110803
11/6/2001	OU5-CSA-8-4462TinS-(500/240)	R31127-05	1110805	9.8	12.9	J	
11/6/2001	OU5-CSA-8-4462TinS-(480/260)	R31127-06	1110806	27.3	14.9	J	
11/6/2001	OU5-CSA-8-4462TinS-(540/220)	R31127-07	1110807	9.8	10.4	J	
11/6/2001	OU5-CSA-8-4462TinS-(500/260)	R31127-08	1110808	10.8	11.5	UJ	
11/6/2001	OU5-CSA-8-4462TinS-(540/200)	R31127-09	1110809	23.5	31.1	J	
11/6/2001	OU5-CSA-8-4462TinS-(520/320)	R31127-10	1110810	3.5	6.7	J	
11/6/2001	OU5-CSA-8-4462TinS-(520/280)	R31127-11	1110811	24.1	36.5	J	
11/6/2001	OU5-CSA-8-4462TinS-(540/240)	R31127-12	1110812	19.9	17.6	J	
11/6/2001	OU5-CSA-8-4462TinS-(560/240)	R31127-13	1110813	4.4	7.9	J	
11/6/2001	OU5-CSA-8-4462TinS-(540/280)	R31127-14	1110814	49.1	44.4	J	
11/6/2001	OU5-CSA-8-4462TinS-(480/280)	R31127-15	1110815	8.4	11.6	J	
11/6/2001	OU5-CSA-8-4462TinS-(500/300)	R31127-16	1110816	23.8	30.9	J	
11/6/2001	OU5-CSA-8-4462TinS-(560/220)	R31127-17	1110817	19.9	25.3	J	
11/6/2001	OU5-CSA-8-4462TinS-(480/300)	R31127-18	1110818	15.6	8.4	J	
11/6/2001	OU5-CSA-8-4462TinS-(540/260)	R31127-19	1110819	45.6	49.1	J	
11/6/2001	OU5-CSA-8-4462TinS-(520/300)	R31127-20	1110820	23.3	27	J	

* Collected on Sept 17, but not analyzed because this property had been "split" sampled earlier (April 16) with a resident's consultant and analyzed.
The COE decided not to analyze these same quadrant samples when this property was sampled again on Sept 17.
The data shown are the April 16 results for the same quadrants.

DUP = Duplicate sample

Overview Map
Spring Valley

Spring Valley Operable Units 4 & 5
Washington D.C.

Groupings
Central Testing Area (CTA) Groupings
Non-Residential Acreage/Lots (No Color If Not Sampled)
OU-4 Sampled Residences/Lots (through 9/30/03)
Sampled Residences/Lots (through 9/30/03)
Buildings
Point of Interest (POI) Residences
Point of Interest
Roads

300 0 300 600 Feet

PARSONS



ENGINEERING EVALUATION / COST ANALYSIS FOR ARSENIC IN SOIL

SPRING VALLEY OPERABLE UNITS 4 and 5
WASHINGTON, D.C.

VOLUME III – TECHNICAL MEMORANDA AND OTHER SUPPORTING DATA

CONTRACT DAHA90-94-D-0010, TASK ORDER DA01
DERP-FUDS HTRW PROJECT NO. C03DC091802

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Prepared By:

PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VIRGINIA 22030

December 17, 2003

VOLUME III – TECHNICAL MEMORANDA AND OTHER SUPPORTING DATA

This volume contains:

- Technical Memoranda and Other Supporting Data:
  - Arsenic Speciation Technical Memorandum
  - Arsenic Bioavailability Technical Memorandum
  - Arsenic SPLP Technical Memorandum
  - AUES List Sampling – Report of Results:
    - 3819 48th Street, 4710 Quebec Street, 4625 & 4633 Rockwood Parkway
    - CDC and AU Lot 12
    - Sedgwick Trench
  - DCDOH Comments on AUES List Sampling and USACE Response to the Comments
  - Sampling Procedures Supporting Memoranda

TECHNICAL MEMORANDUM

ARSENIC SPECIATION STUDY

SPRING VALLEY OPERABLE UNIT 4 and 5

WASHINGTON, DC

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT



Prepared by:

PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030

January 20, 2003

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1.0 INTRODUCTION

1.0.0.1 The purpose of this technical memorandum is to discuss the results of the arsenic speciation study for the Spring Valley investigation. This sampling was performed in support of the Operable Unit 4 (OU-4) and 5 (OU-5) Remedial Investigation/Feasibility Study (RI/FS). The objective of this limited study was to determine if there were differences between site-specific soils and background soils in terms of arsenic speciation (trivalent vs. pentavalent arsenic and organic vs. inorganic arsenic compounds). Differences in arsenic species could be attributed to anthropogenic (resulting from influences of human beings) sources of arsenic. It has been shown that natural processes can also change the oxidation states of arsenic regardless of the original source (Oremland and Stolz, May 2003). Anthropogenic sources of arsenic may be associated with AUES activities, but could also be associated with the use of pressure-treated lumber, pesticides, herbicides, coal, or fertilizer.

2.0 BACKGROUND

2.0.0.1 In August and September 1999, the United States Environmental Protection Agency (USEPA) collected background soil samples in support of Spring Valley OU-3 investigations (Background Trip Report, USEPA, January 2000). These samples covered four distinct soil associations or types present in Spring Valley.

2.0.0.2 As an extension of the OU-3 investigations, remedial investigations addressing geographically larger areas of Spring Valley were undertaken as OU-4 and OU-5. As part of this investigation, grid soil sampling was performed by Parsons throughout Spring Valley. The sampling was performed to determine the extent and concentrations of arsenic (As) in surface soils in Spring Valley. All sampling was performed in accordance with the Work Management Plan (WMP) for OU-4 (Parsons ES, August 14, 2000 and Amendment 3 to the WMP, October 1, 2002).

2.0.0.3 Analysis of the toxic effects of arsenic is complicated by the fact that arsenic can exist as different forms in the environment. Arsenic can exist as inorganic or organic compounds, as well as several different electronic valence states. According to the September 2000 ATSDR Toxicological Profile for Arsenic (Update), a number of studies have indicated that among the inorganic arsenic compounds, the trivalent arsenites (As+3) are somewhat more toxic than the pentavalent arsenates (As+5). In addition, organic arsenicals are usually viewed as being less toxic than the inorganic arsenic compounds. Therefore, an investigation was undertaken to determine the amount of organic vs. inorganic arsenic, as well as the valence state of the inorganic arsenic found at the Spring Valley site, in order to gain additional information about the potential risk associated with exposure to the arsenic contaminated soil.

2.0.0.4 Based on the results of the grid sampling, grids with relatively high arsenic concentrations, distributed throughout Spring Valley, were sampled for speciation. Additionally, six background samples representing the four soil types were collected from the same locations the USEPA sampled; these were also analyzed for arsenic speciation. These background samples were collected to ensure that the site sample soil types were represented for the purposes of comparing site data and background data. However, only three of the four soil types were present in the sampled site soils.

3.0 SAMPLE COLLECTION

3.0.0.1 On November 21, 2002, fifteen (15) samples were collected, including twelve (12) soil samples, one (1) field duplicate sample, and a matrix spike/matrix spike duplicate (MS/MSD) pair. See Table 1. Figure 1 indicates the speciation sampling locations. Figure 2 indicates the background sampling locations. These figures are presented at the end of the report.

3.0.0.2 All samples were collected as discrete surface soil samples, from 0-6 inches in depth. The soil types are also indicated on Table 1.

3.0.0.3 Samples were sent to the Battelle Marine Science Laboratories of Sequim, Washington, for arsenic speciation testing. Battelle Marine Science Laboratories conducted the arsenic speciation tests in accordance with the guidelines of Method 1632, Chemical Speciation of Arsenic in Water and Tissue by Hydride Generation Quartz Furnace Atomic Absorption Spectrometry, Revision A (USEPA, 2001). The method is for determination of inorganic arsenic (IA), arsenite (As+3), arsenate (As+5), monomethylarsonic acid (MMA), and dimethylarsinic acid (DMA). Appendix A contains the method Standard Operating Procedure (SOP).

4.0 DATA VERIFICATION SUMMARY REPORT

4.0.0.1 This section describes the data verification performed by Parsons for the arsenic speciation soil sampling.

4.0.0.2 The following data verification summary report covers environmental soil samples and associated field quality control (QC) samples collected from Spring Valley OU-4 and OU-5 on November 21, 2002. The samples were analyzed by Battelle Marine Sciences Laboratories for IA, As+3, As+5, MMA, and DMA. MMA and DMA are the organic arsenic compounds. Battelle Marine Sciences Laboratories followed the procedures outlined in Method 1632 to perform all analyses.

4.0.0.3 Field QC samples collected were a field duplicate sample, a matrix spike sample and a matrix spike duplicate sample. The field QC samples were analyzed for the same parameters as their associated samples.

4.0.0.4. All samples were collected by Parsons following the procedures outlined in the WMP (Parsons ES, August 14, 2000 and Amendment 3 to the WMP, October 1, 2002).

4.1 Evaluation Criteria

4.1.0.1 The data submitted by the laboratory has been reviewed and validated following the guidelines outlined in the USACE "Shell for Analytical Chemistry Requirements," EM 200-1-3 Appendix I (February 2001). The data was also examined for compliance to the methodology presented in Method 1632. Information reviewed in the data package included sample results, method blank (MB), standard reference material (SRM), laboratory quality control results and chain-of-custody forms. The analyses and findings presented in this report are based on the reviewed information and whether the guidelines in the USACE Shell and SW-846 were met. All sample results and laboratory reporting limits have been adjusted for percent moisture.

TABLE 1
Soil Associations of Speciation Samples
Spring Valley Operable Units 4 and 5
(All Samples Collected November 21, 2002)

Spring Valley Background Sampling

Sample ID	Sample Description	Sample Location[\1]
OU4-BS-Mg (DRG)	Brown to light brown silty sand with mica.	**Dalecarlia Reservoir Grounds (DRG)**
OU4-BS-ULSC(FRP)	Brown silty clay. Moist.	**Fort Reno Park (FRP)**
OU4-BS-ULMg (TP)	Light brown silty soil.	**West of the Water Treatment Plant (TP)**
OU4-BS-Mg (BKP)	Brown silty soil with trace mica. Moist.	**Battery Kemble Park (BKP)**
OU4-BS-ULB (GP)	Reddish brown to dark brown silty clay. Moist. *MS/MSD.*	**Glover Parkway (GP)**
OU4-BS-ULMg (PP)	Brown to reddish brown silty clay.	**Palisades Park (PP)**
OU4-BS-ULB MS/MSD	***MS/MSD sample (OU4 BS-ULB).***	**Glover Parkway (GP)**

[\1] Sample locations are approximately the same locations used by the EPA to collect their background samples.

Elevated Arsenic Samples Within Spring Valley

Sample ID	Sample Description	Background Soil Association Match[\2]
OU4-4230FR-(60,80)	Reddish brown to dark brown silty clay.	ULB
OU4-4007(49)-(60,20)	Brown to dark brown silty sand. Moist.	Mg
OU4-4007(49)-(80,100)	Brown to reddish brown silty clay. Moist.	ULMg
OU4-3709CP-(40,60)	Brown silty soil. Moist. Collected a Duplicate sample.	ULMg
OU4-3709CP-DUP	***Duplicate sample of 3709CP-(40,60).***	ULMg
OU4-KREEG-(130,170)	Brown to reddish brown silty clay with trace mica.	ULMg
OU5-CSA-5-L15-(100,400)	Brown silty soil.	ULMg

[\2] Background Soil Associations: Mg - Manor Glenelg; ULSC- Urban Land Sassafras Chillum; ULMg - Urban Land Manor Glenelg; ULB - Urban Land Brandywine

4.2 Arsenic Speciation

4.2.0 General

4.2.0.1 This data group consisted of fifteen (15) samples, including twelve (12) soil samples, one (1) field duplicate sample and a pair of MS and MSD samples. Battelle Marine Sciences Laboratories received the samples on November 22, 2002.

4.2.0.2 The arsenic analyses were performed using the guidelines in Method 1632, Chemical Speciation of Arsenic in Water and Tissue by Hydride Generation Quartz Furnace Atomic Absorption Spectrometry, Revision A (USEPA, 2000). Battelle Marine Sciences Laboratories reported the results for total arsenic, As^{+3}, As^{+5}, MMA and DMA with "U" qualifiers for concentrations that were not detected at the method detection limit and "J" qualifiers for concentrations below the method detection limit and above the critical value. Battelle defined "Method Detection Limit" based on tissue method detection limits in Method 1632, since this method does not provide soil/sediment method detection limits.

4.2.1 Accuracy

4.2.1.1 Accuracy was evaluated using the percent recovery (%R) results for the blank spike (BS) sample, standard reference material (SRM) and the MS/MSD samples. Soil sample OU4-BS-ULB (GP) was used as the MS/MSD sample in this data group.

- All BS %Rs were within acceptance criteria as specified by the method.
- The SRM %R was within 5% of the theoretical amount for inorganic arsenic.
- The MS/MSD %Rs were within acceptance criteria as specified by the method.

4.2.2 Precision

4.2.2.1 Precision was evaluated using the Relative Percent Difference (RPD) results obtained from the field duplicate sample results, the MS/MSD results and the laboratory duplicate samples. Sample OU4-BS-ULB (GP) was used as the MS/MSD sample in this data group. Sample OU4-3709CP-DUP was collected and analyzed as the field duplicate of sample OU4-3709CP-(40,60). The laboratory randomly selected OU4-3709CP-DUP as the laboratory duplicate sample.

- The MS/MSD %RPD was within acceptance criteria as specified by the method.

4.2.2.2 There are no criteria specified by the method or USACE Shell document for field duplicate % RPD; therefore an internal limit of 70% for soils was applied. The field duplicate RPD was within 70% for all arsenic compounds.

4.2.2.3 There are no criteria specified by the method or USACE Shell document for MS/MSD % RPD; therefore an internal limit of 70% for soils was applied. The MS/MSD RPD was within 70% for all arsenic compounds.

4.2.2.4 There are no criteria specified by the method or USACE Shell for laboratory duplicate % RPD; therefore an internal limit of 70% for soils was applied. The laboratory duplicate RPD was within 70% for all arsenic compounds.

4.2.3 Completeness

4.2.3.1 Completeness has been evaluated by comparing the total number of samples collected with the total number of samples with valid analytical data. All results were considered usable. The completeness for this SDG is therefore 100% compared to the minimum acceptance limit of 90%.

4.2.4 Representativeness

4.2.4.1 Representativeness expresses the degree to which sample data accurately and precisely represents actual site conditions. Representativeness has been evaluated by:

- Actual analytical procedures were the same as those described in Method 1632;
- All samples were analyzed within appropriate hold time;
- All initial calibration criteria were met;
- All initial and continuing calibration verification criteria were met, except for the following: MMA was slightly below the acceptance criteria for the continuing calibration verification as specified in the method. The recovery for MMA in the first CCV was 79% with a tolerance of 80-120%. No corrective action was deemed necessary since the recovery was only slightly below method criteria. All other CCVs for all arsenic compounds were within method specified limits;
- All second source verification criteria were met.

4.2.4.2 There was one method blank associated with the arsenic analyses in this data group. The method blank was free of any arsenic compounds above the method detection limit. As^{+3} and As^{+5} were found in the method blank at concentrations between zero and the method detection limit.

5.0 RESULTS AND UNCERTAINTY DISCUSSION

5.0.0.1 Of the 15 samples (including QA/QC) analyzed for arsenic speciation by Battelle Marine Sciences Laboratories, all of the samples had detectable concentrations of total arsenic and As^{+5}, and 14 of the 15 samples had detectable concentration of As^{+3}. Of the 15 samples collected, 7 were considered background samples (including the MS/MSD sample) and 7 were collected as part of the study [including a duplicate sample of OU4-3709CP-(40,60)]. Battelle randomly selected an internal duplicate of OU4-3709CP-DUP to make a total of 15 samples analyzed (Table 2).

5.0.0.2 Uncertainties in this study are associated with the limited number of site samples collected, the historical knowledge of the specific types of arsenic compounds used at the AUES, and the effects that more than 80 years of weathering may have on the interpretation of the findings. Finally, there are uncertainties associated with the non-routine method that needed to be used to speciate arsenic. For example, to determine the arsenic species, a mild leaching condition was used by the laboratory, so that the valence state of the arsenic is not altered during the process. The leaching conditions used are not able to dissolve some arsenic compounds, and as a result, only a portion of the total arsenic is quantified in the speciation samples. Therefore, not all of the arsenic present in the total arsenic analysis can be accounted for in the As^{+5} and As^{+3} results.

TABLE 2

SPRING VALLEY OU-4 and OU-5

SPECIATED ARSENIC RESULTS

(Samples Collected 11/21/02, Received 11/22/02)

Sample Name	Lab Code	Units	Percent Dry WT	Total As ICP-MS	As+3	As+5	As +3/Total As (unitless)	As +5/Total As (unitless)	MMA	DMA
BACKGROUND										
OU4-BS-Mg(DRG)	1869-22	mg/kg dw	82.0	0.511	0.020 U	0.0396	0.0391	0.077	0.01 U	0.04 U
OU4-BS-ULSC(FRP)	1869-23	mg/kg dw	86.3	3.96	0.00564 JB	0.268	0.0014	0.067	0.01 U	0.04 U
OU4-BS-ULMg(TP)	1869-24	mg/kg dw	85.4	6.21	0.00434 JB	0.314	0.0007	0.051	0.01 U	0.04 U
OU4-BS-Mg(BKP)	1869-25	mg/kg dw	80.3	3.92	0.00645 JB	0.395	0.0016	0.100	0.01 U	0.04 U
OU4-BS-ULB(GP)	1869-26	mg/kg dw	79.0	2.93	0.00375 JB	0.117	0.0013	0.040	0.01 U	0.04 U
OU4-BS-ULMg(PP)	1869-27	mg/kg dw	81.8	3.09	0.00462 JB	0.157	0.0015	0.051	0.01 U	0.04 U
SITE SAMPLES										
OU4-4230FR-(60,80)	1869-29	mg/kg dw	84.4	4.64	0.0115 JB	0.623	0.0025	0.134	0.01 U	0.04 U
OU4-4007(49)-(60,20)	1869-30	mg/kg dw	82.5	133	0.484	24.57	0.0036	0.185	0.01 U	0.04 U
OU4-4007(49)-(80,100)	1869-31	mg/kg dw	76.3	13.6	0.0336	2.75	0.0025	0.202	0.01 U	0.04 U
OU4-3709CP-(40,60)	1869-32	mg/kg dw	83.6	21.2	0.0905	1.54	0.0043	0.073	0.01 U	0.04 U
OU4-3709CP-(40,60) Field Dup	1869-33r1	mg/kg dw	83.9	15.3	0.0694	2.66	0.0045	0.174	0.01 U	0.04 U
OU4-3709CP-(40,60) Lab Dup	1869-33r2	mg/kg dw	83.9	15.6	0.0567	2.81	0.0036	0.180	0.01 U	0.04 U
OU4-KREEG-(130,170)	1869-34	mg/kg dw	79.7	7.66	0.0159	1.23	0.0021	0.161	0.01 U	0.04 U
OU5-CSA-5-L15-(100,400)	1869-35	mg/kg dw	82.3	265	0.485	49.38	0.0018	0.186	0.01 U	0.04 U
Blank		mg/kg dw		0.188 U	0.00235 J	0.00281 J	--	--	0.01 U	0.04 U
Method Detection Limit				0.188	0.02	0.03	--	--	0.01	0.04

TABLE 2

SPRING VALLEY OU-4 and OU-5

SPECIATED ARSENIC RESULTS

(Samples Collected 11/21/02, Received 11/22/02)

Sample Name	Lab Code	Units	Percent Dry WT	Total As ICP-MS	As+3	As+5	As +3/Total As (unitless)	As +5/Total As (unitless)	MMA	DMA
Laboratory QA/QC Samples										
BLANK SPIKE RESULT										
Blank		mg/kg dw		--	0.00235 J	0.00281 J	--	--	0.01 U	0.04 U
Blank Spike		mg/kg dw		--	21.4	25.9	--	--	28.3	31.5
Spike concentration				--	25.0	25.0	--	--	25.0	25.0
Percent recovery				--	**86%**	**104%**	--	--	**113%**	**126%**
Acceptable QC Range				*(75-125%)*	*(30-170%)*	*(50-150%)*	--	--	*(60-140%)*	*(40-160%)*
MATRIX SPIKE RESULT										
OU4-BS-ULB(GP)	1869-26	mg/kg dw		2.93	0.00375 JB	0.117	--	--	0.01 U	0.04 U
OU4-BS-ULB(GP) MS	1869-26 MS	mg/kg dw		58.5	21.9	38.1	--	--	40.0	39.8
Spike concentration				57.5	29.8	37.8	--	--	37.8	37.8
Percent recovery				**97%**	**74%**	**100%**	--	--	**106%**	**105%**
Acceptable QC Range										
OU4-BS-ULB(GP)	1869-26	mg/kg dw		2.93	0.00235 J	0.117	--	--	0.01 U	0.04 U
OU4-BS-ULB(GP) MSD	1869-26 MSD	mg/kg dw		62.5	23.4	26.2	--	--	25.0	28.3
Spike concentration				62.0	29.7	25.3	--	--	25.3	25.3
Percent recovery				**96%**	**79%**	**103%**	--	--	**99%**	**112%**
Acceptable QC Range				*(75-125%)*	*(30-170%)*	*(50-150%)*	--	--	*(60-140%)*	*(40-160%)*

TABLE 2

SPRING VALLEY OU-4 and OU-5

SPECIATED ARSENIC RESULTS

(Samples Collected 11/21/02, Received 11/22/02)

Sample Name	Lab Code	Units	Percent Dry WT	Total As ICP-MS	As+3	As+5	As +3/Total As (unitless)	As +5/Total As (unitless)	MMA	DMA
Laboratory QA/QC Samples										
STANDARD REFERENCE MATERIAL										
MESS-3				20.1	--	--	--	--	--	--
certified value				21.2	NC	NC	--	--	NC	NC
range				±1.1	--	--	--	--		
percent difference				5%	--	--	--	--	--	--
Acceptable QC Range				*(<25%)*	--	--	--	--	--	--
REPLICATE ANALYSIS RESULTS										
OU4-3709CP-(40,60) Field Dup	1869-33r1	mg/kg dw		15.3	0.0694	2.66	--	--	0.01 U	0.04 U
OU4-3709CP-(40,60) Lab Dup	1869-33r2	mg/kg dw		15.6	0.0567	2.81	--	--	0.01 U	0.04 U
RPD				**2%**	**20%**	**6%**	--	--	--	--
Acceptable QC Range				*(<25%)*	*(<35%)*	*(<35%)*	--	--	*(<25%)*	*(<40%)*

U Not detected at or above MDL shown
J Reported below Method Detection Limit; estimated value only
JB J description above plus, result is less than 5 times amount found in associated blank
-- Not applicable
NC Not certified

5.0.0.3 The reason for attempting to quantify the different forms of arsenic at the site was to determine if the species can be determined to be site-related or the result of releases that are not related to AUES activities. Differences in the pattern of background arsenic compared to the site-related samples could indicate the source of the arsenic (i.e., naturally occurring vs. anthropogenic). If the species are site-related, then it may be possible to make some conclusions regarding the relative risk associated with site-related contamination compared to the risk associated with exposure to naturally occurring arsenic.

5.0.0.4 To obtain a general comparison of the background samples to the site samples collected for the study, the means of the Total As for background samples and site samples [not including the duplicates for OU4-3709CP-(40,60)] were calculated (Table 3). Since the small sample size makes it difficult to determine if the distribution is normal, a non-parametric test was used to compare the medians rather than the means. To determine if the medians were different, a Mann-Whitney test was performed. This test allows generalized differences between the background samples and the site samples to be determined for Total As, but does not allow specific areas of contamination to be identified. The results of Mann-Whitney test (Table 4) indicated that there was a significant difference between the median of the background samples and the site samples.

Table 3. Mean Arsenic Concentrations (mg/kg)

	Background Samples	**Site Samples**
Total Arsenic	3.44 ± 1.85	73.6 ± 105.9
As^{+3}	0.0058 ± 0.0023	0.18 ± 0.23
As^{+3}/Total Arsenic	0.0076 ± 0.0154	0.0028 ± 0.0009
As^{+5}	0.22 ± 0.11	13.5 ± 19.8
As^{+5}/Total Arsenic	0.064 ± 0.022	0.17 ± 0.03

5.0.0.5 To verify that these differences were also present for the As^{+5} species, the ratio of the As^{+5} to the Total As was calculated for each sample. Then the median of the ratios (As^{+5}/Total As) of all background samples and the median of the ratios (As^{+5}/Total As) for all site samples was calculated. The Mann-Whitney test was used and it was determined that there was a significant difference between the two data sets.

5.0.0.6 A ratio can be calculated in a similar manner for the As^{+3}/Total As. Therefore, the ratio of the As^{+3} to the Total As was calculated for each sample. Then the median of the ratios (As^{+3}/Total As) of all background samples and the median of the ratios (As^{+3}/Total As) for all site samples was calculated. The Mann-Whitney test was used, and it was determined that there was **not** a significant difference between the two data sets.

5.0.0.7 In addition, all samples were analyzed for the organic arsenic compounds MMA and DMA. According to the ATSDR Toxicological Profile for Arsenic (September 2000 Update), organic arsenic compounds can be naturally occurring, or their presence might indicate an anthropogenic source. However, these organic compounds were not detected above detection limits in any of the samples.

TABLE 4
Spring Valley OU4 and OU-5
Mann-Whitney U test performed on the Speciated As-to-Total As Ratios

Sample Name	Total As ICP-MS		As+3			As+5		As +5/Total As (unitless)		As+3/Total As (unitless)	
BACKGROUND											
OU4-BS-Mg(DRG)	0.511	-0.6713857	0.010	U	-4.6052	0.040	-3.2288	0.077	-2.56395	0.0196	-3.933784
OU4-BS-ULSC(FRP)	3.96	1.37624403	0.00564	JB	-5.1785	0.268	-1.3152	0.067	-2.703063	0.0014	-6.55471
OU4-BS-ULMg(TP)	6.21	1.8261609	0.00434	JB	-5.4397	0.314	-1.1585	0.051	-2.97593	0.0007	-7.265855
OU4-BS-Mg(BKP)	3.92	1.36609165	0.00645	JB	-5.0442	0.395	-0.9287	0.100	-2.302585	0.0016	-6.410247
OU4-BS-ULB(GP)	2.93	1.07500242	0.00375	JB	-5.5868	0.117	-2.1418	0.040	-3.218876	0.0013	-6.661819
OU4-BS-ULMg(PP)	3.09	1.12817109	0.00462	JB	-5.3783	0.157	-1.8536	0.051	-2.97593	0.0015	-6.506515
SITE SAMPLES											
OU4-4230FR-(60,80)	4.64	1.53471437	0.0115	JB	-4.4616	0.623	-0.4731	0.134	-2.009915	0.0025	-5.996284
OU4-4007(49)-(60,20)	133	4.89034913	0.484		-0.7256	24.57	3.20137	0.185	-1.687399	0.0036	-5.615973
OU4-4007(49)-(80,100)	13.6	2.61006979	0.0336		-3.3945	2.75	1.00989	0.202	-1.599488	0.0025	-6.004589
OU4-3709CP-(40,60)	17.4	2.85647021	0.0722		-2.6283	2.33	0.84587	0.142	-1.951928	0.0041	-5.484785
OU4-KREEG-(130,170)	7.66	2.03601198	0.0159		-4.1434	1.23	0.20355	0.161	-1.826351	0.0021	-6.179422
OU5-CSA-5-L15-(100,400)	265	5.57972983	0.485		-0.7246	49.38	3.89958	0.186	-1.682009	0.0018	-6.304359

As +5/Total As

	Value	Rank		Value	Rank
Bkgd	0.040	1	Samp	0.134	7
Bkgd	0.051	2.5	Samp	0.142	8
Bkgd	0.051	2.5	Samp	0.161	9
Bkgd	0.067	4	Samp	0.185	10
Bkgd	0.077	5	Samp	0.186	11
Bkgd	0.100	6	Samp	0.202	12

R1= 21.

Median 0.059 — R2= 57

Median 0.173

n1 = 6

critical value = 5

n2 = 6

U1 = 0.0000

U2 = 36.

Smallest value 0, less than critical value, therefore, the null hypothesis is rejected.
There is a significant difference between the medians.

As +3/Total As

	Value	Rank		Value	Rank
Bkgd	0.0007	1	Samp	0.0018	6
Bkgd	0.0013	2	Samp	0.0021	7
Bkgd	0.0014	3	Samp	0.0025	8
Bkgd	0.0015	4	Samp	0.0025	9
Bkgd	0.0016	5	Samp	0.0036	10
Bkgd	0.0196	12	Samp	0.0041	11

R1= 27.

Median 0.0015 — R2= 51

Median 0.0025

n1 = 6

critical value = 5

n2 = 6

U1 = 6.0000

U2 = 30.

Smallest value 6, greater than critical value, therefore, the null hypothesis is accepted.
There is no significant difference between the medians.

TABLE 4
Spring Valley OU4 and OU-5
Mann-Whitney U test performed on the Speciated As-to-Total As Ratios

Sample Name	Total As ICP-MS	As+3	As+5	As +5/Total As (unitless)	As+3/Total As (unitless)

As +5

	Value	Rank		Value	Rank
Bkgd	0.040	1	Samp	0.623	7
Bkgd	0.117	2	Samp	1.23	8
Bkgd	0.157	3	Samp	2.33	9
Bkgd	0.268	4	Samp	2.75	10
Bkgd	0.314	5	Samp	24.57	11
Bkgd	0.395	6	Samp	49.38	12

R1= 21.

Median	0.213	R2=	57
		Median	2.54
n1 = 6			
critical value = 5		n2 = 6	

U1 =	0.0000
U2 =	36.

Smallest value 0, less than critical value, therefore, the null hypothesis is rejected.
There is a significant difference between the medians.

As +3

	Value	Rank		Value	Rank
Bkgd	0.00375	1	Samp	0.0115	7
Bkgd	0.00434	2	Samp	0.0159	8
Bkgd	0.00462	3	Samp	0.0336	9
Bkgd	0.00564	4	Samp	0.0722	10
Bkgd	0.00645	5	Samp	0.484	11
Bkgd	0.010	6	Samp	0.485	12

R1= 21.

Median	0.0015	R2=	57
		Median	0.0025
n1 = 6			
critical value = 5		n2 = 6	

U1 =	0.0000
U2 =	36.

Smallest value 0, less than critical value, therefore, the null hypothesis is rejected.
There is a significant difference between the medians.

TABLE 4
Spring Valley OU4 and OU-5
Mann-Whitney U test performed on the Speciated As-to-Total As Ratios

Sample Name	Total As ICP-MS	As+3	As+5	As +5/Total As (unitless)	As+3/Total As (unitless)

Total As

	Value	Rank		Value	Rank
Bkgd	0.511	1	Samp	4.64	6
Bkgd	2.93	2	Samp	7.66	8
Bkgd	3.09	3	Samp	13.6	9
Bkgd	3.92	4	Samp	17.4	10
Bkgd	3.96	5	Samp	133	11
Bkgd	6.21	7	Samp	265	12

	R1= 22.		
Median	3.505		R2= 56
		Median	15.5
n1 = 6			
critical value = 5		n2 = 6	

U1 =	1.0000
U2 =	35.

Smallest value 1, less than critical value, therefore, the null hypothesis is rejected.
There is a significant difference between the medians.

6.0 CONCLUSIONS

6.0.0.1 Concentrations of Total Arsenic, As^{+5}, and As^{+3}, appear elevated in the site samples when compared to background samples. Also, the ratio of As^{+5}/Total As was significantly higher in the site samples. While there is no indication that anthropogenic activities would specifically contribute one species of arsenic over another, naturally occurring arsenic would likely have the same profile of arsenic species. This profile is indicated by the ratios of the arsenic species to total arsenic. Differences in the ratios of As^{+5}/Total As between site samples and background samples is a possible indicator of potential anthropogenic sources of arsenic contamination. In addition, none of the organic arsenic compounds analyzed were detected in either site or background samples.

6.0.0.2 The findings of this report indicate that, due to the significant difference in the As^{+5}/Total As ratios, the arsenic observed in the site samples may be from a different source than the arsenic in the background samples. Based solely on this report, the source of the As^{+3} and As^{+5} in the site samples cannot be determined. While the findings show that there may be an anthropogenic source of arsenic at the site, because of the uncertainties associated with the types of arsenic originally used at the site and the effects that more than 80 years of weathering may have, the findings cannot clearly indicate what that source may be. The anthropogenic source of arsenic may be associated with AUES, but it could also be associated with the use of pressure-treated lumber, pesticides, herbicides, coal, or fertilizer.

6.0.0.3 Because of the limitations of the study, the arsenic speciation findings were not relied upon to make Spring Valley project decisions. Neither the 12.6 ppm arsenic screening level nor the 20 ppm arsenic remediation endpoint was based on the results of this study.

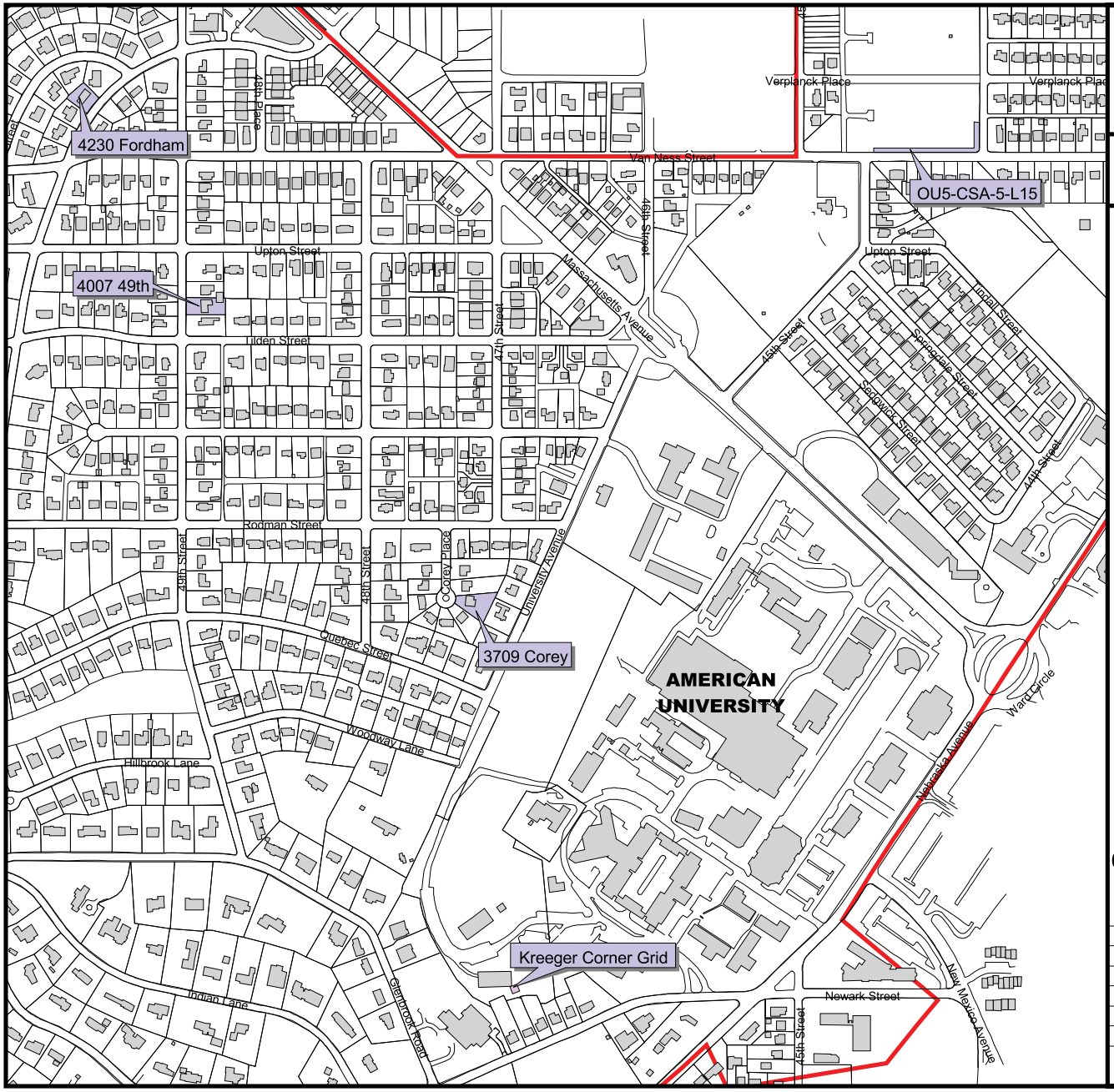


Figure 1
Arsenic Speciation Sample Locations

Spring Valley Operable Unit 4 & 5
Washington D.C.

Legend

- Roads
- Buildings
- Speciation Samples
- Parcels
- SV Boundary

Note:
Background sampling locations associated with speciation not shown.

N
W E
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600 0 600 Feet

1 inch = 600 feet

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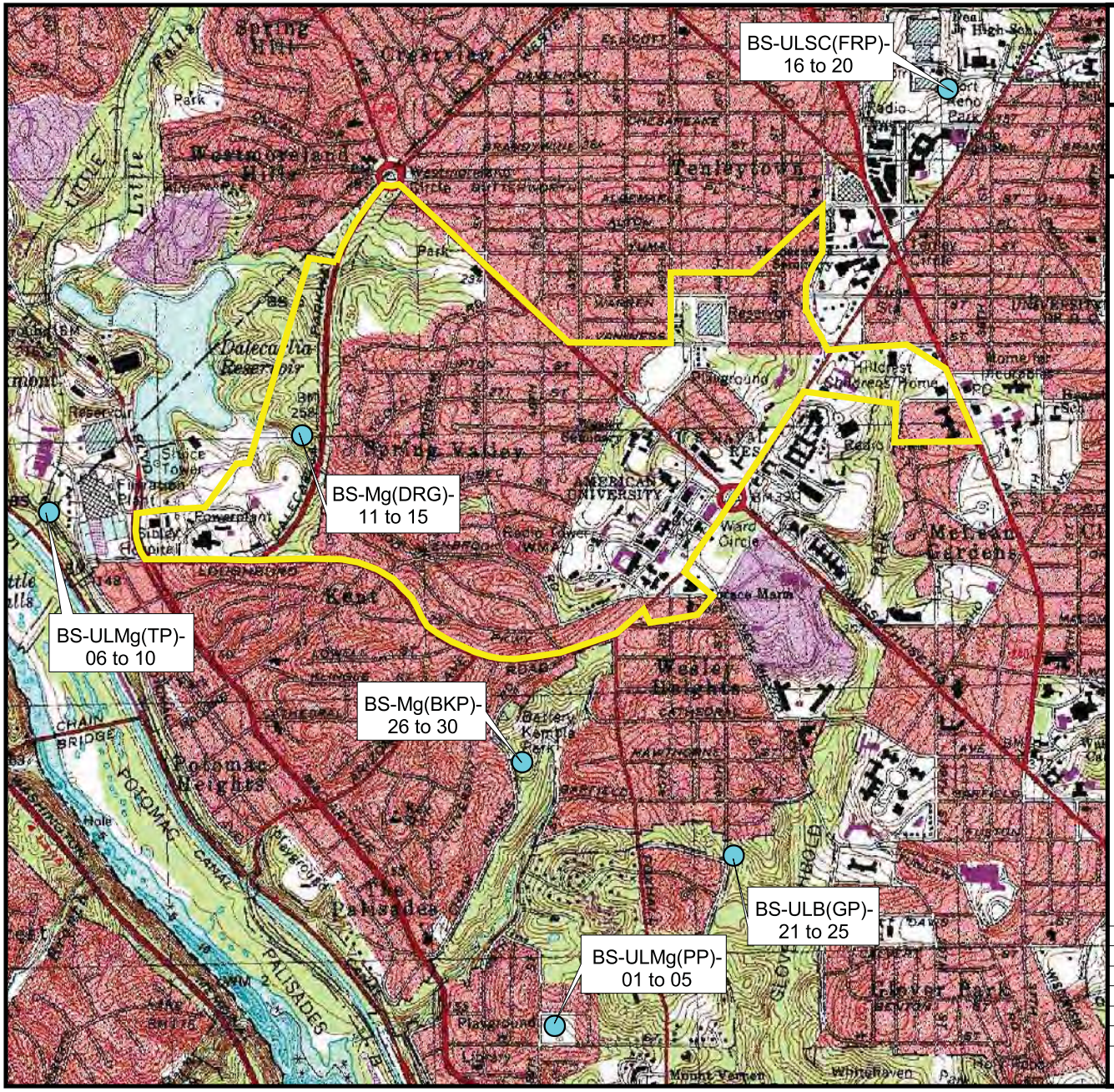


Figure 2
Background Sample Locations

Spring Valley Operable Units 4 and 5
Washington D.C.

Legend

SV FUDS Boundary

DRG - Dalecarlia Reservoir Grounds
FRP - Fort Reno Park
TP - West of Water Treatment Plant
BKP - Battery Kemble Park
GP - Glover Parkway
PP - Palisades Park

N
W E
S

1000 0 1000 2000 Feet

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APPENDIX A: METHOD STANDARD OPERATING PROCEDURE

EPA-821-R-01-006
January 2001

Method 1632

Chemical Speciation of Arsenic in Water and Tissue by Hydride Generation Quartz Furnace Atomic Absorption Spectrometry

Revision A

January 2001

U.S. Environmental Protection Agency
Office of Water
Engineering and Analysis Division (4303)
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Acknowledgments

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Disclaimer

This draft method has been reviewed and approved for publication by the Analytical Methods Staff within the Engineering and Analysis Division of the U.S. Environmental Protection Agency. Mention of trade names or commercial products does not constitute endorsement or recommendation for use. This method version contains minor editorial changes to the September 2000 version.

EPA welcomes suggestions for improvement of this method. Suggestions and questions concerning this method or its application should be addressed to:

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Introduction

This analytical method supports water quality monitoring programs authorized under the Clean Water Act (CWA, the "Act"). CWA Section 304(a) requires EPA to publish water quality criteria that reflect the latest scientific knowledge concerning the physical fate (e.g., concentration and dispersal) of pollutants, the effects of pollutants on ecological and human health, and the effect of pollutants on biological community diversity, productivity, and stability.

CWA Section 303 requires each State to set a water quality standard for each body of water within its boundaries. A State water quality standard consists of a designated use or uses of a water body or a segment of a water body, the water quality criteria that are necessary to protect the designated use or uses, and an anti-degradation policy. These water quality standards serve two purposes: (1) they establish the water quality goals for a specific water body, and (2) they are the basis for establishing water quality-based treatment controls and strategies beyond the technology-based controls required by CWA Sections 301(b) and 306.

In defining water quality standards, a State may use narrative criteria, numeric criteria, or both. However, the 1987 amendments to CWA required States to adopt numeric criteria for toxic pollutants (designated in Section 307(a) of the Act) based on EPA Section 304(a) criteria or other scientific data, when the discharge or presence of those toxic pollutants could reasonably be expected to interfere with designated uses.

In some cases, these water quality criteria (WQC) are as much as 280 times lower than levels measurable using approved EPA methods and required to support technology-based permits. EPA developed new sampling and analysis methods to specifically address State needs for measuring toxic metals at WQC levels, when such measurements are necessary to protect designated uses in State water quality standards. The latest criteria published by EPA are those listed in the National Toxics Rule (58 FR 60848) and the Stay of Federal Water Quality Criteria for Metals (60 FR 22228). These rules include WQC for 13 metals, and it is these criteria on which the new sampling and analysis methods are based. Method 1632 was specifically developed to provide reliable measurements of inorganic arsenic at EPA WQC levels using hydride generation quartz furnace atomic absorption techniques. It has since been modified to include determination of arsenic species.

In developing methods for determination of trace metals, EPA found that one of the greatest difficulties was precluding sample contamination during collection, transport, and analysis. The degree of difficulty, however, is highly dependent on the metal and site-specific conditions. This method is designed to preclude contamination in nearly all situations. It also contains procedures necessary to produce reliable results at the lowest WQC levels published by EPA. In recognition of the variety of situations to which this Method may be applied, and in recognition of continuing technological advances, Method 1632 is performance based. Alternative procedures may be used so long as those procedures are demonstrated to yield reliable results.

Requests for additional copies of this publication should be directed to:
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http://www.epa.gov/ncepihom/

Note: This Method is performance based. The laboratory is permitted to omit any step or modify any procedure provided that all performance requirements in this Method are met. The laboratory may not omit any quality control tests. The terms "shall," "must," and "may not" define procedures required for producing reliable data at water quality criteria levels. The terms "should" and "may" indicate optional steps that may be modified or omitted if the laboratory can demonstrate that the modified method produces results equivalent or superior to results produced by this Method.

Method 1632

Chemical Speciation of Arsenic in Water and Tissue by Hydride Generation Quartz Furnace Atomic Absorption Spectrometry

1.0 Scope and Application

1.1 This method is for determination of inorganic arsenic (IA), arsenite (As^{+3}), arsenate (As^{+5}), monomethylarsonic acid (MMA), and dimethylarsinic acid (DMA) in filtered and unfiltered water and in tissue by hydride generation and quartz furnace atomic absorption detection. The method is for use in EPA's data gathering and monitoring programs associated with the Clean Water Act. The method is based on a contractor-developed method (Reference 16.1) and on peer-reviewed, published procedures for the speciation of As in aqueous samples (Reference 16.2).

1.2 This method is accompanied by Method 1669: *Sampling Ambient Water for Trace Metals at EPA Water Quality Criteria Levels* (the Sampling Guidance). The Sampling Guidance may be necessary to preclude contamination during the sampling process.

1.3 This method is designed for measurement of As species in water in the range 0.01-50 □g/L and in tissue in the range 0.10-500 □g/g dry weight. This method may be applicable to determination of arsenic species in industrial discharges after sample dilution. Existing regulations (40 CFR parts 400-500) typically limit concentrations in industrial discharges to the part-per-billion (ppb) range, whereas ambient As concentrations are normally in the low part-per-trillion (ppt) to low part-per-billion range.

1.4 The method detection limits and minimum levels of quantitation in this method are usually dependent on the level of background elements and interferences rather than instrumental limitations. Table 1 lists method detection limits (MDLs) and minimum levels of quantitation (MLs) in water when no background elements or interferences are present as determined by two laboratories. Table 1 also shows MDLs and MLs in a reference tissue matrix (corn oil).

1.5 The ease of contaminating water samples with As and interfering substances cannot be overemphasized. This method includes suggestions for improvements in facilities and analytical techniques that should maximize the ability of the laboratory to make reliable trace metals determinations and minimize contamination (Section 4.0). Additional suggestions for improvement of existing facilities may be found in EPA's *Guidance on Establishing Trace Metals Clean Rooms in Existing Facilities*, which is available from the National Center for Environmental Publications and Information (NCEPI) at the address listed in the introduction to this document.

1.6 Clean and ultra clean—The terms "clean" and "ultra clean" have been applied to the techniques needed to reduce or eliminate contamination in trace metals determinations. These terms are not used in this method because they lack an exact definition. However, the information provided in this method is consistent with EPA's summary guidance on clean and ultra clean techniques.

1.7 This method follows the EPA Environmental Methods Management Council's "Format for Method Documentation."

1.8 This method is "performance based." The laboratory is permitted to modify the method to overcome interferences or lower the cost of measurements if all performance criteria are met. Section 9.1.2 gives the requirements for establishing method equivalency.

1.9 Any modification of this method, beyond those expressly permitted, shall be considered a major modification subject to application and approval of alternate test procedures at 40 CFR 136.4 and 136.5.

1.10 Each laboratory that uses this method must demonstrate the ability to generate acceptable results (Section 9.2).

1.11 This method is accompanied by a data verification and validation guidance document, *Guidance on the Documentation and Evaluation of Trace Metals Data Collected for CWA Compliance Monitoring*. This guidance document may be useful for reviewing data collected using this method.

2.0 Summary of Method

2.1 Aqueous sample—A 500- to 1000-mL water sample is collected directly into a cleaned fluoropolymer, conventional or linear polyethylene, polycarbonate, or polypropylene sample bottle using sample handling techniques specially designed for collection of metals at trace levels (Reference 16.3). Water samples are preserved in the field by the addition of 3 mL of pretested 6M HCl per liter of sample. The recommended holding time is 28 days.

2.2 Tissue sample—A 10- to 50-g wet weight sample is collected into a glass or fluoropolymer, conventional or linear polyethylene, polycarbonate, or polypropylene sample bottle, also using sample handling techniques specially designed for collection of metals at trace levels. The tissue sample is either freeze-dried and stored at room temperature or stored frozen at less than -18 °C. Prior to analysis, tissue samples are digested in HCl or NaOH at 80 °C for 16 hours. Matrix spike recoveries indicate that As^{+3} is more stable in HCl than NaOH.

2.3 An aliquot of water sample or tissue digestate is placed in a specially designed reaction vessel, and 6M HCl is added.

2.4 Four percent $NaBH_4$ solution is added to convert IA, MMA, and DMA to volatile arsines.

2.5 Arsines are purged from the sample onto a cooled glass trap packed with 15% OV-3 on Chromosorb® W AW-DMCS, or equivalent.

2.6 The trapped arsines are thermally desorbed, in order of increasing boiling points, into an inert gas stream that carries them into the quartz furnace of an atomic absorption spectrophotometer for detection. The first arsine to be desorbed is AsH_3, which represents IA in the sample. MMA and DMA are desorbed and detected several minutes after the first arsine.

2.7 Quality is ensured through calibration and testing of the hydride generation, purging, and detection systems.

2.8 To determine the concentration of As^{+3}, another aliquot of water sample or tissue digestate is placed in the reaction vessel and Tris-buffer is added. The procedure in Sections 2.4 through 2.7 is repeated to quantify only the arsine produced from As^{+3}.

2.9 The concentration of As^{+5} is the concentration of As^{+3} subtracted from the concentration of IA.

3.0 Definitions

3.1 Apparatus—Throughout this method, the sample containers, sampling devices, instrumentation, and all other materials and devices used in sample collection, sample processing, and sample analysis that come in contact with the sample and therefore require careful cleaning will be referred to collectively as the Apparatus.

3.2 Dissolved Inorganic Arsenic—All $NaBH_4$-reducible As^{+3} and As^{+5} found in aqueous solution filtrate after passing the sample through a 0.45 µm capsule filter.

3.3 Total Inorganic Arsenic—All $NaBH_4$-reducible As^{+3} and As^{+5} found in a sample. In this method, total inorganic arsenic and total recoverable inorganic arsenic are synonymous.

3.4 Definitions of other terms used in this method are given in the glossary at the end of the method.

4.0 Contamination and Interferences

4.1 Preventing ambient water samples from becoming contaminated during the sampling and analytical processes constitutes one of the greatest difficulties encountered in trace metal determinations. Over the last two decades, marine chemists have come to recognize that much of the historical data on the concentrations of dissolved trace metals in seawater are erroneously high because the concentrations reflect contamination from sampling and analysis rather than ambient levels. Therefore, it is imperative that extreme care be taken to avoid contamination when collecting and analyzing ambient water samples for As species at trace levels.

4.2 Samples may become contaminated by numerous routes. Potential sources of trace metal contamination during sampling include: metallic or metal-containing labware, containers, sampling equipment, reagents, and reagent water; improperly cleaned and stored equipment, labware, and reagents; and atmospheric inputs such as dirt and dust. Even human contact can be a source of trace metal contamination.

4.3 Contamination Control

4.3.1 Philosophy—The philosophy behind contamination control is to ensure that any object or substance that contacts the sample is arsenic-free and free from any material that may contain As, As species, or material that might interfere with the analysis of samples.

4.3.1.1 The integrity of the results produced must not be compromised by contamination of samples. This method and the Sampling Method give requirements and suggestions for control of sample contamination.

4.3.1.2 Substances in a sample cannot be allowed to contaminate the laboratory work area or instrumentation used for trace metal measurements. This method gives requirements and suggestions for protecting the laboratory.

4.3.1.3 Although contamination control is essential, personnel health and safety remain the highest priority. The Sampling Method and Section 5.0 of this method give requirements and suggestions for personnel safety.

4.3.2 Avoiding contamination—The best way to control contamination is to completely avoid exposure of the sample to contamination in the first place. Avoiding exposure means performing operations in an area known to be free from contamination. Two of the most important factors in avoiding/reducing sample contamination are (1) an awareness of potential sources of contamination and (2) strict attention to the work being done. Therefore, it is imperative that the procedures described in this method be carried out by well-trained, experienced personnel.

4.3.3 Use a clean environment—The ideal environment for processing samples is a class 100 clean room (Section 1.5). If a clean room is not available, all sample preparation should be performed in a class 100 clean bench or a nonmetal glove box fed by arsenic- and particle-free air or nitrogen. Digestions should be performed in a nonmetal fume hood situated, ideally, in the clean room.

4.3.4 Minimize exposure—Any apparatus that will contact samples, blanks, or standard solutions should be opened or exposed only in a clean room, clean bench, or glove box so that exposure to an uncontrolled atmosphere is minimized. When not in use, the apparatus should be covered with clean plastic wrap and stored in the clean bench, in a plastic box, or in a glove box, or bagged in clean zip-type bags. Minimizing the time between cleaning and use will also minimize contamination.

4.3.5 Clean work surfaces—Before a given batch of samples is processed, all work surfaces in the hood, clean bench, or glove box in which the samples will be processed should be cleaned by wiping with a lint-free cloth or wipe soaked with reagent water.

4.3.6 Wear gloves—Sampling personnel must wear clean, non-talc gloves during all operations involving handling of the apparatus, samples, and blanks. Only clean gloves may touch the apparatus. If another object or substance is touched, the glove(s) must be changed before again handling the apparatus. If it is even suspected that gloves have become contaminated, work must be halted, the contaminated gloves removed, and a new pair of clean gloves put on. Wearing multiple layers of clean gloves will allow the old pair to be quickly stripped with minimal disruption to the work activity.

4.3.7 Use metal-free apparatus—All apparatus used for determination of As and/or As species at ambient water quality criteria levels must be nonmetallic and free of material that may contain metals.

4.3.7.1 Construction materials—Only fluoropolymer (FEP, PTFE), conventional or linear polyethylene, polycarbonate, or polypropylene containers should be used for samples that will be analyzed for As. PTFE is less desirable than FEP because the sintered material in PTFE may contain contaminants and is susceptible to serious memory effects (Reference 16.4). All materials, regardless of construction, that will directly or indirectly contact the sample must be cleaned using the procedures given (Section 6.1.2) and must be known to be clean and arsenic-free before proceeding.

Note: Glass containers may be used for tissue sample collection.

4.3.7.2 Serialization—It is recommended that serial numbers be indelibly marked or etched on each piece of apparatus so that contamination can be traced. Logbooks should be

maintained to track the sample from the container through the labware to injection into the instrument. It may be useful to dedicate separate sets of labware to different sample types; e.g., receiving waters and effluents. However, the apparatus used for processing blanks and standards must be mixed with the apparatus used to process samples so that contamination of all labware can be detected.

4.3.7.3 The laboratory or cleaning facility is responsible for cleaning the apparatus used by the sampling team. If there are any indications that the apparatus is not clean when received by the sampling team (e.g., ripped storage bags), an assessment of the likelihood of contamination must be made. Sampling must not proceed if it is possible that the apparatus is contaminated. If the apparatus is contaminated, it must be returned to the laboratory or cleaning facility for proper cleaning before it is used in any sampling activity.

4.3.8 Avoid sources of contamination—Avoid contamination by being aware of potential sources and routes of contamination.

4.3.8.1 Contamination by carryover—Contamination may occur when a sample containing low concentrations of As is processed immediately after a sample containing relatively high concentrations of As. To reduce carryover, the sample introduction system may be rinsed between samples with dilute acid and reagent water. When an unusually concentrated sample is encountered, it should be followed by analysis of a method blank to check for carryover. Samples known or suspected to contain the lowest concentration of As should be analyzed first followed by samples containing higher levels.

4.3.8.2 Contamination by samples—Significant laboratory or instrument contamination may result when untreated effluents, in-process waters, landfill leachates, and other samples containing high concentrations of As are processed and analyzed. This method is not intended for application to these samples, and samples containing high concentrations should not be permitted into the clean room and laboratory dedicated for processing trace metal samples.

4.3.8.3 Contamination by indirect contact—Apparatus that does not directly come in contact with the samples may still be a source of contamination. For example, clean tubing placed in a dirty plastic bag may pick up contamination from the bag and subsequently transfer the contamination to the sample. Therefore, it is imperative that every piece of the apparatus that is directly or indirectly used in the collection, processing, and analysis of water and tissue samples be thoroughly cleaned (see Section 6.1.2).

4.3.8.4 Contamination by airborne particulate matter—Less obvious substances capable of contaminating samples include airborne particles. Samples may be contaminated by airborne dust, dirt, particles, or vapors from unfiltered air supplies; nearby corroded or rusted pipes, wires, or other fixtures; or metal-containing paint. Whenever possible, sample processing and analysis should occur as far as possible from sources of airborne contamination.

4.4 Interferences—Water vapor may condense in the transfer line between the cold trap and the atomizer if it is not well heated. Such condensation can interfere with the determination of DMA.

5.0 Safety

5.1 The toxicity or carcinogenicity of each chemical used in this method has not been precisely determined; however, each compound should be treated as a potential health hazard. Exposure to these compounds should be reduced to the lowest possible level. It is recommended that the laboratory purchase a dilute standard solution of the As and/or As species to be used in this method. If solutions are prepared from pure solids, they shall be prepared in a hood, and a NIOSH/MESA-approved toxic gas respirator shall be worn when high concentrations are handled.

5.2 This method does not address all safety issues associated with its use. The laboratory is responsible for maintaining a current awareness file of OSHA regulations for the safe handling of the chemicals specified in this method. A reference file of material safety data sheets (MSDSs) should also be made available to all personnel involved in these analyses. It is also suggested that the laboratory perform personal hygiene monitoring of each analyst who uses this method and that the results of this monitoring be made available to the analyst. Additional information on laboratory safety can be found in References 16.5-16.8.

5.3 Samples suspected to contain high concentrations of As and/or As species are handled using essentially the same techniques used in handling radioactive or infectious materials. Well-ventilated, controlled access laboratories are required. Assistance in evaluating the health hazards of particular laboratory conditions may be obtained from certain consulting laboratories and from State Departments of Health or Labor, many of which have an industrial health service. Each laboratory must develop a strict safety program for handling As and/or As species.

5.3.1 Facility—When samples known or suspected of containing high concentrations (> 50 µg/Lor >500µg/g) of total As are handled, all operations (including removal of samples from sample containers, weighing, transferring, and mixing) should be performed in a glove box demonstrated to be leak tight or in a fume hood demonstrated to have adequate air flow. Gross losses to the laboratory ventilation system must not be allowed. Handling of the dilute solutions normally used in analytical and animal work presents no inhalation hazards except in an accident.

5.3.2 Protective equipment—Disposable plastic gloves, apron or laboratory coat, safety glasses or mask, and a glove box or fume hood adequate for radioactive work should be used when handling arsenic powders. During analytical operations that may give rise to aerosols or dusts, personnel should wear respirators equipped with activated carbon filters.

5.3.3 Training—Workers must be trained in the proper method of removing contaminated gloves and clothing without contacting the exterior surfaces.

5.3.4 Personal hygiene—Hands and forearms should be washed thoroughly after each manipulation and before breaks (including coffee, lunch, and shift).

5.3.5 Confinement—Isolated work areas posted with signs, with their own segregated glassware and tools, and with plastic absorbent paper on bench tops will aid in confining contamination.

5.3.6 Effluent vapors—The effluent vapors from the atomic absorption spectrophotometer (AAS) should pass through either a column of activated charcoal or a trap designed to remove As and/or As species.

5.3.7 Waste handling—Good waste handling techniques include minimizing contaminated waste. Plastic bag liners should be used in waste cans. Janitors and other personnel must be trained in the safe handling of waste.

5.3.8 Decontamination

5.3.8.1 Decontamination of personnel—Use any mild soap with plenty of scrubbing action.

5.3.8.2 Glassware, tools, and surfaces—Satisfactory cleaning may be accomplished by washing with any detergent and water.

5.3.9 Laundry—Clothing known to be contaminated should be collected in plastic bags. Persons who convey the bags and launder the clothing should be advised of the hazard and trained in proper handling. If the launderer knows of the potential problem, the clothing may be put into a washing machine without contact. The washing machine should be run through a full cycle before being used for other clothing.

6.0 Apparatus and Materials

NOTE: *The mention of trade names or commercial products in this method is for illustrative purposes only and does not constitute endorsement or recommendation for use by the Environmental Protection Agency. Equivalent performance may be achievable using apparatus, materials, or cleaning procedures other than those suggested here. The laboratory is responsible for demonstrating equivalent performance.*

6.1 Sampling Equipment

6.1.1 Sample collection bottles—Fluoropolymer, conventional or linear polyethylene, polycarbonate, or polypropylene, 500-1000 mL for aqueous samples. Glass or plastic (fluoropolymer, etc.) jars for tissue samples.

6.1.2 Cleaning—Sample collection bottles, glass jars, and glass vials are cleaned with liquid detergent and thoroughly rinsed with reagent water. The bottles are then immersed in 1N trace metal grade HCl for at least 48 hours. The bottles are thoroughly rinsed with reagent water, air dried in a class 100 area, and double-bagged in new polyethylene zip-type bags until needed.

NOTE: *Plastic sample bottles should not be cleaned with HNO_3 as it oxidizes chemicals that may remain in the plastic.*

6.1.3 Tissue digestion vials— Glass scintillation vials (25-mL) with fluoropolymer-lined lids are used for the digestion of tissue samples.

6.2 Equipment for bottle and glassware cleaning.

6.2.1 Vats—Up to 200-L capacity, constructed of high-density polyethylene (HDPE) or other nonmetallic, non-contaminating material suitable for holding dilute HCl.

6.2.2 Laboratory sink—In Class 100 clean area, with high-flow reagent water for rinsing.

6.2.3 Clean bench—Class 100, for drying rinsed bottles.

6.3 Atomic absorption spectrophotometer (AAS)—Any AAS may serve as a detector. A bracket is required to hold the quartz atomizer in the optical path of the instrument. Table 3 gives typical conditions for the spectrophotometer.

6.3.1 Electrodeless discharge lamp—For measuring As at 193.7 nm.

6.3.2 Quartz cuvette burner tube (Reference 16.2)—70 mm long and 9 mm in diameter with two 6 mm O.D. side tubes, each 25 mm long. Figure 1A shows a schematic diagram of the tube and bracket.

6.4 Reaction vessel—Figure 1B shows the schematic diagram for the vessel used for the reaction of the sample with sodium borohydride. The system consists of the following:

6.4.1 125-mL gas wash bottle—Corning # 1760-125, or equivalent, onto which an 8 mm O.D. sidearm inlet tube 2 cm long has been grafted. A smaller reaction vessel (30-mL size) can be used for up to 5 mL aqueous samples and tissue digestates.

6.4.2 Silicone rubber stopper septum—Ace Glass #9096-32, or equivalent.

6.4.3 Four-way fluoropolymer stopcock valve—Capable of switching the helium from the purge to the analysis mode of operation.

6.4.4 Flow meter/needle valve—Capable of controlling and measuring gas flow rate to the reaction vessel at 150 (±30) mL/minute.

6.4.5 Silicone tubing—All glass-to-glass connections are made with silicone rubber sleeves.

6.5 Cryogenic trap—Figure 1C shows the schematic diagram for the trap. It consists of the following:

6.5.1 Nichrome wire (22-gauge).

6.5.2 Variacs for controlling Nichrome wire.

6.5.3 A 6 mm O.D. borosilicate glass U-tube about 30 cm long with a 2 cm radius of bend (or similar dimensions to fit into a tall wide mouth Dewar flask), which has been silanized and packed halfway with 15% OV-3 on Chromosorb® W AW DMCS (45-60 mesh), or equivalent. The ends of the tube are packed with silanized glass wool.

6.5.3.1 Conditioning the trap—The input side of the trap (the side that is not packed) is connected with silicone rubber tubing to He at a flow rate of 40 mL/min, and the trap is placed in an oven at 175°C for two hours. At the end of this time, two 25 µL aliquots of GC column conditioner (Silyl-8®, Supelco, Inc., or equivalent) are injected through the silicone tubing into the glass trap. The trap is returned to the oven, with the He still flowing, for 24 hours.

6.5.3.2 After conditioning, the trap is wrapped with approximately 1.8 m of 22-gauge Nichrome wire, the ends of which are affixed to crimp-on electrical contacts.

6.5.3.3 The trap is connected by silicone rubber tubing to the output of the reaction vessel.

The output side of the trap is connected by 6 mm O.D. borosilicate tubing that has been wrapped by Nichrome wire to the input of the flame atomizer.

6.5.4 Dewar flask—Capable of containing the trap described in Section 6.5.3.

6.6 Recorder/integrator—Any integrator with a range compatible with the AAS is acceptable.

6.7 Pipettors—All-plastic pneumatic fixed volume and variable pipettors in the range of 10 µL to 5.0 mL.

6.8 Analytical balance—Capable of weighing to the nearest 0.01 g.

7.0 Reagents and Standards

7.1 River/reagent Water—Water demonstrated to be free from As species at the MDL as well as potentially interfering substances. The water can be prepared by distillation or collected from the field and filtered through a 0.2 µm filter. It has been observed that deionized water can have an oxidizing potential that diminishes As^{+3} response (References 16.1,16.2, and 16.9).

7.2 Hydrochloric acid—Trace-metal grade, purified, concentrated, reagent-grade HCl.

7.2.1 6M hydrochloric acid—Equal volumes of trace metal grade concentrated HCl (Section 7.2) and river/reagent water (Section 7.1) are combined to give a solution approximately 6M in HCl.

7.2.2 2M hydrochloric acid—Trace metal grade concentrated HCl (Section 7.2) and river/reagent water (Section 7.1) are combined in a 1:6 ratio to give a solution approximately 2M in HCl.

7.3 Tris buffer—394 g of Tris-HCl (tris(hydroxymethyl)aminomethane hydrochloride) and 2.5 g of reagent grade NaOH (sodium hydroxide) are dissolved in river/reagent water (Section 7.1) to make 1.0 L of a solution that is 2.5 M tris-HCl and 2.475 M HCl.

7.4 Sodium hydroxide — Reagent grade NaOH.

7.4.1 2M NaOH—Add 80 g of reagent grade NaOH to a 1-L flask. Add about 700 mL of river/reagent water. After the solid dissolves, dilute to 1 L to give a 2M NaOH solution.

7.4.2 0.02M NaOH—Add 10.0 mL of 2M NaOH (Section 7.4.1) to a 1-L flask. Dilute to 1 L with river/reagent water to give a 0.02M NaOH solution.

7.5 Sodium borohydride solution ($NaBH_4$)—Four grams of > 98% $NaBH_4$ (previously analyzed and shown to be free of measurable As) are dissolved in 100 mL of 0.02 M NaOH solution. This solution is stable for only 8-10 hours, and must be made daily.

7.6 Liquid nitrogen (LN_2)—For cooling the cryogenic trap.

7.7 Helium—Grade 4.5 (standard laboratory grade) helium.

7.8 Hydrogen—Grade 4.5 (standard laboratory grade) hydrogen.

7.9 Air—Grade 4.5 (standard laboratory grade) air.

7.10 Ascorbic acid

7.10.1 10% Ascorbic acid—Add 10 g reagent ascorbic acid to about 70 mL of river/reagent water (Section 7.1) and swirl to dissolve. After the powder dissolves, dilute to 100 mL, producing a solution which is stable for one year when stored at 4°C.

7.10.2 0.1% Ascorbic acid—Dilute 10 mL of 10% ascorbic acid solution to 1 L with river/reagent water. This solution should be made as needed.

7.11 Arsenic standards—It is recommended that laboratories purchase standard solutions of 1000 mg/L and dilute them to make working standard solutions (Section 7.13.6). Sections 7.13.1 through 7.13.4 give directions for making stock solutions if a source is not readily available.

7.11.1 Arsenite (As^{+3}) standard—A 1000 mg/L stock solution is made up by the dissolution of 1.73 g of reagent grade $NaAsO_2$ in 1.0 L of the 0.1% ascorbic acid solution (Section 7.12.2). This solution is stable for at least one year if kept refrigerated in an amber bottle.

7.11.2 Arsenate (As^{+5}) standard—To prepare a 1000 mg/L stock solution, 4.16 g of reagent grade Na_2HAsO_4 -$7H_2O$ are dissolved in 1.0 L of river/reagent water (Section 7.1). This stock solution has been found to be stable for at least 10 years.

7.11.3 Monomethylarsonate (MMA) standard—To prepare a stock solution of 1000 mg/L, 3.90 g of $CH_3AsO(ONa)_2$ -$6H_2O$ is dissolved in 1.0 L of river/reagent water (Section 7.1). This stock solution has been found to be stable for at least 10 years.

7.11.4 Dimethylarsinate (DMA) standard—To prepare a stock solution of 1000 mg/L, 2.86 g of reagent grade $(CH_3)_2AsO_2Na$-$3H_2O$ (cacodylic acid, sodium salt) is dissolved in 1.0 L river/reagent water (Section 7.1). This stock solution has been found to be stable for at least 10 years.

7.11.5 Working standard solution A—Prepare an intermediate solution containing 10 mg/L of As^{3+}, MMA and DMA combining measured aliquots of the above stock solutions (7.13.1, 7.13.3 and 7.13.4) and diluting to a measured volume with river/reagent water. Prepare a working standard solution containing 500 µg/L of As^{3+}, MMA and DMA by diluting the intermediate solution in river/reagent water.

NOTE: *As^{3+} is used for calibrating the analytical system for inorganic arsenic (As^{3+} + As^{5+}).*

7.11.6 Working standard solution B—Prepare an intermediate solution containing 10 mg/L of As^{3+}, As^{5+}, MMA and DMA combining measured aliquots of the above stock solutions (7.13.1 through 7.13.4) and diluting to a measured volume with river/reagent water. Prepare a working standard solution containing 500 µg/L of As^{3+},As^{5+}, MMA and DMA by diluting the intermediate solution in river/reagent water.

7.12 Corn oil—Reference matrix for tissue samples.

8.0 Sample Collection, Preservation, and Storage

8.1 Sample collection—Aqueous samples are collected as described in the Sampling Method (Reference 16.3). Tissue samples are collected as described in Reference 16.10.

8.2 Sample filtration—This step is not required if total IA and/or As species are the target analyte(s). For dissolved IA and/or As species, samples and field blanks are filtered through a 0.45 µm capsule filter at the field site as described in the Sampling Method. If the dissolved As species are required analytes, the water sample must be field filtered without contact to air. This can be accomplished by using a capsule filter and exercising care during the filtration process. The extra care is necessary because anoxic water may contain high concentrations of soluble iron and manganese that rapidly precipitate when exposed to air. Iron and manganese hydroxy/oxides precipitates remove dissolved As from water. After the sample is filtered, however, the concern is not as great. The samples are preserved through acidification, and when the water is acidified these precipitates will dissolve.

8.3 Water sample preservation—Sample preservation must be performed in the field to reduce changes in As speciation that may occur during transport and storage. Water samples are acidified to pH <2 with hydrochloric acid (3 mL 6M HCl/L sample) and stored at 0-4 C from the time of collection until analysis. Other preservation techniques for water and a variety of matrices have been explored (References 16.1 and 16.11 through 16.13) but only the procedure described here is to be used. If As species are not target analytes, the samples may be preserved upon receipt by the laboratory.

8.3.1 Wearing clean gloves, remove the cap from the sample bottle, add the volume of reagent grade acid that will bring the pH to < 2 and recap the bottle immediately. If the bottle is full, withdraw the necessary volume using a precleaned plastic pipette and then add the acid.

NOTE: *When testing pH, do not dip pH paper or a pH meter into the sample; remove a small aliquot with a clean pipette and test the pH of the aliquot.*

8.3.2 Store the preserved sample for a minimum of 48 hours at 0-4C to allow the As adsorbed on the container walls to completely dissolve in the acidified sample.

8.3.3 Sample bottles should be stored in polyethylene bags at 0-4C until analysis.

8.3.3 The holding time for aqueous samples is 28 days from the time of collection until the time of analysis.

8.4 Tissue sample preservation—The tissue sample must be frozen in the sampling container at less than -18 C or freeze-dried and stored at room temperature. The holding time for tissue samples is 2 years.

9.0 Quality Control/Quality Assurance

9.1 Each laboratory that uses this method is required to operate a formal quality assurance program (Reference 16.3). The minimum requirements of this program consist of an initial demonstration of laboratory capability, analysis of samples spiked with As and/or As species to evaluate and document data quality, and analysis of standards and blanks as tests of continued performance. To determine if the results of analyses meet the performance characteristics of the method, laboratory performance is compared to established performance criteria.

9.1.1 The laboratory shall make an initial demonstration of the ability to generate acceptable accuracy and precision with this method. This ability is established as described in Section 9.2.

9.1.2 In recognition of advances that are occurring in analytical technology, the laboratory is permitted to exercise certain options to eliminate interferences or lower the costs of measurements. These options include alternate digestion, concentration, and cleanup procedures, and changes in instrumentation. Alternate determinative techniques such as the substitution of a colorimetric technique or changes that degrade method performance are not allowed. If an analytical technique other than the techniques specified in this method is used, that technique must have a specificity equal to or better than the specificity of the techniques in the referenced method for the analytes of interest.

9.1.2.1 Each time this method is modified, the laboratory is required to repeat the procedures in Section 9.2. If the change will affect the detection limit of the method, the laboratory is required to demonstrate that the MDL (40 CFR part 136, Appendix B) is less than or equal to the MDL for this method or one-third the regulatory compliance level, whichever is greater. If the change will affect calibration, the laboratory must recalibrate the instrument according to Section 10.0 of this method.

9.1.2.2 The laboratory is required to maintain records of modifications made to this method. These records include the following, at a minimum:

9.1.2.2.1 The names, titles, addresses, and telephone numbers of the analyst(s) who performed the analyses and modification, and of the quality control officer who witnessed and will verify the analyses and modification.

9.1.2.2.2 A listing of metals measured (As and/or As species), by name and CAS Registry number.

9.1.2.2.3 A narrative stating reason(s) for the modification(s).

9.1.2.2.4 Results from all quality control (QC) tests comparing the modified method to this method, including:

(a) Calibration (Section 10.1)
(b) Calibration verification (Section 9.5 and 10.2)
(c) Initial precision and recovery (Section 9.2.2)
(d) Analysis of blanks (Section 9.6)
(e) Matrix spike/matrix spike duplicate analysis (Section 9.3 and 9.4)
(f) Ongoing precision and recovery (Section 9.7)

9.1.2.2.5 Data that will allow an independent reviewer to validate each determination by tracing the instrument output (peak height, area, or other signal) to the final result. These data are to include, where possible:

(a) Sample numbers and other identifiers
(b) Preparation dates
(c) Analysis dates and times
(d) Analysis sequence/run chronology

(e) Sample volume
(f) Volume before each preparation step
(g) Volume after each preparation step
(h) Final volume before analysis
(i) Dilution data
(j) Instrument and operating conditions (make, model, revision, modifications)
(k) Sample introduction system (ultrasonic nebulizer, hydride generator, flow injection system, etc.)
(l) Operating conditions (ashing temperature, temperature program, flow rates, etc.)
(m) Detector (type, operating conditions, etc.)
(n) Printer tapes and other recordings of raw data
(o) Quantitation reports, data system outputs, and other data to link the raw data to the results reported

9.1.3 Analyses of blanks are required to demonstrate freedom from contamination. Section 9.6 describes the required blank types and the procedures and criteria for analysis of blanks.

9.1.4 The laboratory shall spike at least 10% of the samples with As species to monitor method performance. Section 9.3 describes this test. When results of these spikes indicate atypical method performance, an alternate extraction or cleanup technique must be used to bring method performance within acceptable limits. If method performance for spikes cannot be brought within the limits given in this method, the result may not be reported or used for permitting or regulatory compliance purposes.

9.1.5 The laboratory shall, on an ongoing basis, demonstrate through calibration verification (for water and tissue samples) and through analysis of the ongoing precision and recovery aliquot (for tissue samples) that the analytical system is within specified limits. Sections 9.5 and 9.7 describe these required procedures.

9.1.6 The laboratory shall maintain records to define the quality of data that are generated. Section 9.3.4 describes the development of accuracy statements.

9.2 Initial demonstration of laboratory capability.

9.2.1 Method detection limit—To establish the ability to detect each As species, the laboratory must determine the MDL for each analyte per the procedure in 40 CFR 136, Appendix B using the apparatus, reagents, and standards that will be used in the practice of this method. The laboratory must produce an MDL for each analyte that is no more than one-tenth the regulatory compliance level or that is less than or equal to the MDL listed in Table 1, whichever is greater.

9.2.2 Initial precision and recovery (IPR)—To establish the ability to generate acceptable precision and recovery, the laboratory shall perform the following operations.

9.2.2.1 Analyze four aliquots of river/reagent water (Section 7.1) or corn oil (tissue reference matrix; Section 7.14) spiked with the analyte(s) of interest at one to five times the ML (Table 1). All sample preparation steps, and the containers, labware, and reagents that will be used with samples must be used in this test.

9.2.2.2 Using results of the set of four analyses, compute the average percent recovery (X) of

each analyte in each aliquot and the standard deviation (s) of the recovery of the analyte.

9.2.2.3 Compare X and s for each analyte with the corresponding limits for initial precision and recovery in Table 2. If s and X meet the acceptance criteria, system performance is acceptable and analysis of blanks and samples may begin. If, however, s exceeds the precision limit or X falls outside the range for accuracy, system performance is unacceptable. The laboratory should correct the problem and repeat the test (Section 9.2.2.1).

9.2.3 Quality control sample (QCS)—The QCS must be prepared from a source different from that used to produce the calibration standards. River/reagent water and marine water that contain certified concentrations of total As may be purchased. Certified reference materials for As species are not currently available. When beginning use of this method and on a quarterly basis, or as required to meet data quality needs, the calibration standards and acceptable instrument performance must be verified with the preparation and analyses of a QCS (Section 7.10). To verify the calibration standards, the determined mean concentration from three analyses of the QCS must be within ± 10% of the stated QCS value. If the QCS is not within the required limits, an immediate second analysis of the QCS is recommended to confirm unacceptable performance. If the calibration standards and/or acceptable instrument performance cannot be verified, the source of the problem must be identified and corrected before proceeding with further analyses.

9.3 Method Accuracy—To assess the performance of the method on a given sample matrix, the laboratory must perform matrix spike (MS) and matrix spike duplicate (MSD) sample analyses on 10% of the samples from each site being monitored, or at least one MS sample analysis and one MSD sample analysis must be performed for each sample set (samples collected from the same site at the same time, to a maximum of 10 samples), whichever is more frequent.

9.3.1 The concentration of the MS and MSD is determined as follows:

9.3.1.1 If, as in compliance monitoring, the concentration of analyte(s) in the sample is being checked against a regulatory concentration limit, the spike must contain the analyte(s) at that limit or at one to five times the background concentration, whichever is greater.

9.3.1.2 If the concentration(s) is not being checked against a regulatory limit, the concentration(s) must be at one to five times the background concentration or at one to five times the ML(s) in Table 1, whichever is greater.

9.3.2 Assessing spike recovery

9.3.2.1 Determine the background concentration (B) of As species by analyzing one sample aliquot according to the procedures in Section 11.0.

9.3.2.2 Prepare a matrix spiking solution that will produce the appropriate level (Section 9.3.1) of analyte(s) of interest in the sample when the spiking solution is added.

9.3.2.3 Spike two additional aliquots with the matrix spiking solution and analyze these aliquots to determine the concentration after spiking (A).

9.3.2.4 Calculate each percent recovery of the matrix spike and matrix spike duplicate by using Equation 1.

Equation 1

$$P = 100 * \frac{A - B}{T}$$

Where P = Percent recovery of the spike
A = Concentration of the spiked aliquot
B = Background concentration of the sample
T = Known value of the spike

9.3.3 Compare the percent recovery (P) with the corresponding QC acceptance criteria in Table 2. If P falls outside the designated range for recovery, the result has failed the acceptance criteria.

9.3.3.1 If the system performance is unacceptable, analyze the calibration verification standard (CALVER, Section 9.5.2) for water samples, or the ongoing precision and recovery sample (Section 9.7) for tissue samples. If the CALVER or OPR is within acceptance criteria (Table 2), the analytical system is within specified limits and the problem can be attributed to the sample matrix.

9.3.3.2 For samples that exhibit matrix problems, further isolate As species from the sample matrix using chelation, extraction, concentration, or other means, and repeat the accuracy test (Sections 9.3.2).

NOTE: *The use of these techniques to reduce matrix problems may affect the speciation of the As in solution.*

9.3.3.3 If matrix problems cannot be corrected and the recovery for As species remains outside the acceptance criteria, the analytical result in the unspiked sample is suspect and may not be reported or used for permitting or regulatory compliance purposes.

9.3.4 Recovery for samples should be assessed and records maintained.

9.3.4.1 After the analysis of five samples of a given matrix type (river water, lake water, etc.) for which As species pass the tests in Section 9.3.3, compute the average percent recovery (P) (P = percent recovery in 9.3.2.4) and the standard deviation of the percent recovery (SP). Express the accuracy assessment as a percent recovery interval from P-2SP to P+2SP for each matrix. For example, if P = 90% and SP = 10% for five analyses of river water, the accuracy interval is expressed as 70-110%.

9.3.4.2 Update the accuracy assessment in each matrix regularly (e.g., after each 5-10 new measurements).

9.4 Precision of MS/MSD

9.4.1 Calculate the relative percent difference (RPD) between the MS and MSD using the concentrations found in the MS and MSD (Equation 1). Do not use the recoveries calculated in Section 9.3.2.4 for this calculation because the RPD of recoveries is inflated when the background concentration is near the spike concentration.

Equation 2

$$RPD = 100 * \frac{\left(\left|D_1 - D_2\right|\right)}{\frac{1}{2}\left(D_1 + D_2\right)}$$

Where:

RPD = Relative percent difference
D_1 = Concentration of the analyte in the MS sample
D_2 = Concentration of the analyte in the MSD sample

9.4.2 Compare the RPD with the limits in Table 2. If the criteria are not met, the analytical system performance is judged to be unacceptable. Correct the problem and reanalyze all samples in the sample set associated with the MS/MSD that failed the RPD test.

9.5 Calibration verification (also see Section 10.2)

9.5.1 Calibration verification (CALVER) shall be performed immediately after the analytical system is calibrated or before analyzing any samples in a sample batch. In addition, the CALVER standard shall be analyzed after every 10 samples and after the last analytical sample in a sample batch. Refer to Section 10.2.2 and 10.2.3 for procedures on analyzing the CALVER standard.

9.5.2 Recovery of the CALVER standard must be within the control limits specified in Table 2. If recovery of the CALVER standard is outside the control limits in Table 2, the analysis must be stopped, the problem corrected, the instrument recalibrated, and the calibration verified. Samples processed after the last satisfactory calibration verification must be re-analyzed.

9.6 Blanks—Blanks are analyzed to demonstrate freedom from contamination.

9.6.1 Calibration blanks– A calibration blank consists of river/reagent water placed in the reaction vessel and analyzed like a sample (Section 11.4 and 11.5). At least one calibration blank must be analyzed after calibration. A calibration blank is also analyzed after each analysis of the CALVER standard (Section 9.5). If As species or any potentially interfering substance is found in the blank at a concentration equal to or greater than the MDL (Table 1), sample analysis must be halted, the source of the contamination determined, the problem corrected, and the sample batch and a fresh calibration blank reanalyzed.

9.6.2 Method blanks—The method blank is an aliquot of river/reagent water or corn oil (tissue reference matrix; Section 7.14) that is treated exactly as a sample including exposure to all glassware, equipment and reagents that are used with samples. It is used to determine if analytes or interferences are present in the laboratory environment, the reagents, or the apparatus.

9.6.2.1 Prepare a minimum of 1 method blank with each sample batch (samples of the same matrix started through the preparation process on the same 12-hour shift, to a maximum of 20 samples). Three method blanks are preferred.

NOTE: *Method blanks for water samples are identical to the calibration blanks (see Section 9.6.1). Analyze the method blank immediately after analysis of the CALVER (Section 9.5) for water samples, or OPR (Section 9.7) for tissue samples, to demonstrate freedom from contamination.*

9.6.2.2 If As species or any potentially interfering substance is found in the blank at a concentration equal to or greater than the MDL (Table 1), sample analysis must be halted, the source of the contamination determined, the problem corrected, and the sample batch and a fresh method blank reanalyzed.

9.6.2.3 Alternatively, if a sufficient number of method blanks (three minimum) are analyzed to characterize the nature of a blank, the average concentration plus two standard deviations must be less than the regulatory compliance level.

9.6.2.4 If the result for a single method blank remains above the MDL or if the result for the average concentration plus two standard deviations of three or more blanks exceeds the regulatory compliance level, results for samples associated with those blanks may not be reported or used for permitting or regulatory compliance purposes. Stated another way, results for all initial precision and recovery tests (Section 9.2) and all samples must be associated with an uncontaminated method blank before these results may be reported or used for permitting or regulatory compliance purposes.

9.6.3 Field blanks for water samples

9.6.3.1 Analyze the field blank(s) shipped with each set of samples (samples collected from the same site at the same time, to a maximum of 10 samples). If the samples are filtered for the determination of dissolved As and/or As species, the field blank shall be filtered as well. Analyze the blank immediately before analyzing the samples in the batch.

9.6.3.2 If As species or any potentially interfering substance is found in the field blank at a concentration equal to or greater than the ML (Table 1), or greater than one-fifth the level in the associated sample, whichever is greater, results for associated samples may be the result of contamination and may not be reported or used for permitting or regulatory compliance purposes.

9.6.3.3 Alternatively, if a sufficient number of field blanks (three minimum) are analyzed to characterize the nature of the field blank, the average concentration plus two standard deviations must be less than the regulatory compliance level or less than one-half the level in the associated sample, whichever is greater.

9.6.3.4 If contamination of the field blanks and associated samples is known or suspected, the laboratory should communicate this to the sampling team so that the source of contamination can be identified and corrective measures taken before the next sampling event.

9.6.4 Equipment blanks—Before any sampling equipment is used at a given site, the laboratory or cleaning facility is required to generate equipment blanks to demonstrate that the sampling

equipment is free from contamination. Two types of equipment blanks are required: bottle blanks and sampler check blanks.

9.6.4.1 Bottle blanks—After undergoing appropriate cleaning procedures (Section 6.1.2), bottles should be subjected to conditions of use to verify the effectiveness of the cleaning procedures. A representative set of sample bottles should be filled with river/reagent water (Section 7.1) acidified to pH < 2 and allowed to stand for a minimum of 24 hours. Ideally, the time that the bottles are allowed to stand should be as close as possible to the actual time that sample will be in contact with the bottle. After standing, the water should be analyzed for any signs of contamination. If any bottle shows signs of contamination, the problem must be identified, the cleaning procedures corrected or cleaning solutions changed, and all affected bottles cleaned again.

9.6.4.2 Sampler check blanks for water samples—Sampler check blanks are generated in the laboratory or at the equipment cleaning contractor's facility by processing river/reagent water (Section 7.1) through the sampling devices using the same procedures that are used in the field (see Sampling Method). Therefore, the "clean hands/dirty hands" technique used during field sampling should be followed when preparing sampler check blanks at the laboratory or cleaning facility.

9.6.4.2.1 Sampler check blanks are generated by filling a large carboy or other container with river/reagent water (Section 7.1) and processing the river/reagent water (Section 7.1) through the equipment using the same procedures that are used in the field (see Sampling Method). For example, manual grab sampler check blanks are collected by directly submerging a sample bottle into the water, filling the bottle, and capping. Subsurface sampler check blanks are collected by immersing the sampler into the water and pumping water into a sample container. "Clean hands/dirty hands" techniques must be used.

9.6.4.2.2 The sampler check blank must be analyzed using the procedures in this method. If As and/or As species or any potentially interfering substance is detected in the blank, the source of contamination or interference must be identified and the problem corrected. The equipment must be demonstrated to be free from As and/or As species before the equipment may be used in the field.

9.6.4.2.3 Sampler check blanks must be run on all equipment that will be used in the field. If, for example, samples are to be collected using both a grab sampling device and a subsurface sampling device, a sampler check blank must be run on both pieces of equipment.

9.7 Ongoing Precision and Recovery - Because water samples do not require digestion prior to analysis, OPR samples are only required for tissue samples. CALVER analysis in Section 9.5 is equivalent to the analysis of an aqueous OPR.

9.7.1 For each sample batch (i.e., samples of the same matrix started through the extraction process on the same 12-hour shift, to a maximum of 20 samples), prepare an ongoing precision and recovery (OPR) aliquot in the same manner as IPR aliquots (Section 9.2.2).

9.7.2 Analyze the OPR aliquot before analyzing the method blank and samples from the same batch.

9.7.3 Compute the percent recovery of As species in the OPR aliquot.

9.7.4 Compare the recovery in the OPR sample to the limits for ongoing recovery in Table 2. If the acceptance criteria are met, system performance is acceptable and analysis of blanks and samples may proceed. If, however, recovery falls outside of the range given, the analytical processes are not being performed properly. Correct the problem, prepare the sample batch again, and repeat the OPR test.

9.7.5 Add results that pass the specifications to IPR and previous OPR data for As species. Update QC charts to form a graphic representation of continued laboratory performance. Develop a statement of laboratory accuracy by calculating the average percent recovery (P) and the standard deviation of percent recovery (SP). Express the accuracy as a recovery interval from P-2SP to P+2SP. For example, if P = 95% and SP = 5%, the accuracy is 85-105%.

9.8 The specifications in this method can be met if the instrument used is calibrated properly and then maintained in a calibrated state. A given instrument will provide the most reproducible results if dedicated to the settings and conditions required for the analyses of As and/or As species by this method.

9.9 Depending on specific program requirements, field duplicates may be collected to determine the precision of the sampling technique. The relative percent difference (RPD, Equation 2) between field duplicates should be less than 20%.

10.0 Calibration and Standardization

10.1 Calibration—Calibration is required before any samples or method blanks are analyzed.

10.1.1 Standards are analyzed by addition of measured aliquots of the working standard solution A (Section 7.13.5) directly into the reaction vessel that has been pre-filled with river/reagent water (70 mL for the 125-mL reaction vessel; 5 mL for the 30-mL reaction vessel). Proceed with analysis of the standards following procedures in Section 11.4.

10.1.2 The calibration must contain 3 or more non-zero points. For a given As species, the lowest calibration point must be less than or equal to the ML shown in Table 1.

10.1.3 Calculate the calibration factor (CF) for IA, MMA and DMA in each calibration standard using the following equation.

Equation 3

$$CF = \frac{R_x}{m_x}$$

Where,

CF = Calibration factor [peak area or height units / µg]

R_x = Peak height or area for As species in standard [peak area or height units]

m_x = Mass of As species in standard analyzed (µg)

10.1.4 For each analyte of interest, calculate the mean calibration factor (CF_m), the standard deviation of the CF_m (SD), and the relative standard deviation (RSD) of the mean, where RSD = 100 x SD/CF_m.

10.1.5 Appropriateness of CF—If the RSD as calculated in Section 10.1.4 is less than 20%, the CF_m may be used to calculate sample concentrations. Otherwise, use weighted linear regression to calculate a slope and intercept for the calibration line.

10.1.6 When analyzing for As^{3+}, the calibration line for IA can be used.

10.1.7 Following calibration, analyze a calibration blank. The concentrations of As and As species in the calibration blank be less than the MDL.

10.2 Calibration verification—A calibration verification is performed immediately after calibration and after analysis of a maximum of every 10 samples thereafter (Section 10.2.2). Blanks and samples may not be analyzed until these criteria are met.

10.2.1 Verify the specificity of the instrument for As and adjust the wavelength or tuning until the resolving power (Table 3) specified in this method is met.

10.2.2 Calibration verification for IA, MMA and DMA

10.2.2.1 Calibration verification (CALVER)—Prepare the CALVER standard by adding a measured volume of working standard solution B to the reaction vessel (pre-filled with river/reagent water) corresponding to the mid-level standard used to establish the calibration line. The CALVER standard is then purged and analyzed for IA, MMA and DMA following procedures in Section 11.4. Compute the percent recovery of As species using the initial calibration.

10.2.2.2 Compare the recovery with the corresponding limit for calibration verification in Table 2. If acceptance criteria are met, system performance is acceptable and analysis of blanks and samples may continue using the response from the initial calibration. If acceptance criteria are not met, system performance is unacceptable. Locate and correct the problem and/or prepare a new calibration verification standard and repeat the test (Sections 10.2.1 through 10.2.3), or recalibrate the system (Sections 10.1 and 10.2). All samples after the last

acceptable calibration verification must be reanalyzed.

10.2.3 Calibration verification for As^{3+}

10.2.3.1 Before the As^{3+} analysis of samples, the CALVER standard is analyzed at the beginning of an analytical batch, following every 10 samples, and at the end of an analytical batch. The CALVER standard is prepared by adding a measured volume of working standard solution B to the reaction vessel pre-filled with river/reagent water (70 or 5 mLs). The CALVER standard should correspond to the mid-level standard used to establish the calibration line. The CALVER standard is then purged and analyzed for As^{3+} in Section 11.5. Compute the percent recovery of As^{3+} using the initial calibration.

10.2.3.2 Compare the recovery with the corresponding limit for calibration verification in Table 2. If acceptance criteria are met, system performance is acceptable and analysis of blanks and samples may continue using the response from the initial calibration. If acceptance criteria are not met, system performance is unacceptable. Locate and correct the problem and/or prepare a new calibration check standard and repeat the test (Sections 10.2.1 through 10.2.3), or recalibrate the system (Sections 10.1 and 10.2). If the recovery does not meet the acceptance criteria specified in Table 2, analyses must be halted and the problem corrected. All samples after the last acceptable calibration verification for As^{3+} must be reanalyzed for As^{3+}.

10.3 Analyze a calibration blank following every calibration verification to demonstrate that there is no carryover of the analytes of interest and that the analytical system is free from contamination. The concentrations of As and As species in the calibration blank must be less than the MDL. If the concentration of an analyte in the blank result is equal to or exceeds the MDL, correct the problem, verify the calibration (Section 10.1), and repeat the analysis of the calibration blank.

11.0 Sample Preparation and Analysis

11.1 Set up the AAS system according to manufacturer's instructions. The settings in Tables 3 and 4 can be used as a guide. Calibrate the instrument according to Section 10.1.

NOTE: Precision and sensitivity are affected by gas flow rates and these must be individually optimized for each system using the settings in Table 5 as an initial guide.

11.2 To light the flame, turn on the air and H_2, and expose the end of the quartz cuvette to a flame. At this point, a flame will be burning out the ends of the tube. Allow the tube to heat for approximately five minutes, then place a flat metal spatula over each end of the tube in sequence. An invisible air/hydrogen flame should now be burning in the center of the cuvette. To check for the flame, place a mirror near the end of the tube and observe condensation of water vapor or turn-off the room light to observe the flame.

11.3 Tissue samples large enough to sub-sample must be homogenized to a fine paste with a stainless steel mill, or finely chopped with stainless steel tools on an acid-cleaned, plastic cutting board. Clean sample handling techniques must be followed. Digest tissue samples by adding 10 mL of 2M HCl to 0.5 g of either wet or dry tissue in a 25-mL glass scintillation vial. Cap the vial with a fluoropolymer-lined lid and heat overnight (16 hours) in an oven at 75 - 85 °C. Cool and

analyze the overlying liquid. Tissue may also be digested in 2M NaOH overnight at 75 - 85 °C; however, As^{+3} and As^{+5} are more stable in HCl than NaOH. If only IA, MMA, and DMA are required, the advantage of the NaOH digestion is that, if it is available, ICP-MS can be used to quantify total As (Reference 16.14) in the digestate.

11.4 Inorganic As, MMA, and DMA determination.

11.4.1 Purging of Samples

11.4.1.1 To achieve a detection limit < 0.01 µg/L, place a known volume of aqueous sample (up to 70 mL) into the large (125-mL) reaction vessel. If less than 70 mL of sample is used, add sufficient river/reagent water (Section 7.1) to result in a total volume of 70 mL. Add 5.0 mL of 6M HCl. Set the four-way valve on the reaction vessel to pass the flow of He through the sample and onto the trap and begin purging the vessel with He.

11.4.1.2 To analyze tissue digestates or to analyze water samples with a detection limit > 0.01 µg/L, place a known volume of aqueous sample (up to 5 mL) or tissue digestate (up to 2 mL) into the small (30 mL) reaction vessel. Add 1.0 mL of 6M HCl. Set the four-way valve on the reaction vessel to pass the flow of He through the sample and onto the trap and begin purging the vessel with He.

11.4.1.3 Lower the trap into a Dewar flask containing LN_2 and top the flask off with LN_2 to a constant level.

11.4.1.4 For a large reaction vessel, add 10 mL of $NaBH_4$ solution slowly (over a period of approximately two minutes) through the rubber septum with a disposable hypodermic syringe and begin timing the reaction. For the small reaction vessel, add 2.0 mL of $NaBH_4$ slowly over a 1-minute period. After seven minutes, turn the stopcock on the four-way valve to bypass the reaction vessel and pass helium directly to the trap. Arsines are purged from the sample onto the cooled glass trap packed with 15% OV-3 on Chromosorb® W AW DMCS, or equivalent.

11.4.2 Trap desorption and AAS analysis

11.4.2.1 Quickly remove the trap from the LN_2, activate the heating coils to heat the trap, and begin recording output from the AAS system. The transfer line is maintained at 75 - 85 °C. The trapped arsines are thermally desorbed, in order of increasing boiling points, into an inert gas stream that carries them into the quartz furnace of an atomic absorption spectrophotometer for detection. The first arsine to be desorbed is AsH_3, which represents total inorganic As in the sample. The MMA and DMA are desorbed and detected several minutes after the arsine.

11.4.2.2 To ensure that all organic reduction products have been desorbed from the trap, maintain the trap temperature at 65 - 85 °C and keep He flowing through the trap for at least three minutes between samples.

11.4.3 The trap should be cooled for one minute before re-using for another analysis to reduce the possibility of cracking.

11.5 Arsenite (As^{+3}) Determination

11.5.1 pH Adjustment

11.5.1.1 To analyze water samples with a detection limit < 0.01 □g/L, place a known volume (up to 70 mL) in the large (125-mL) reaction vessel. If less than 70 mL of sample is used, add sufficient river/reagent water (Section 7.1) to result in a total volume of 70 mL. Add 3.0 mL of Tris buffer to bring the sample's pH to 5 to 7. If the sample is strongly acidic or basic, it must be either neutralized or have more buffer added to obtain a pH of 5 to 7.

11.5.1.2 To analyze tissue digestates or to analyze water samples with a detection limit > 0.01 □g/L, place a known volume of aqueous sample (up to 5 mL) or tissue digestate (up to 2 mL) in the small reaction vessel. Add 1.0 mL of Tris buffer. If the sample is strongly acidic or basic, it must be either neutralized or have more buffer added to obtain a pH of 5 to 7.

11.5.2 Purging of samples—For a large reaction vessel, add 3.0 mL of $NaBH_4$ solution quickly (about 10 seconds) through the rubber septum with a disposable hypodermic syringe and begin timing the reaction. For a small reaction vessel, add 1.0 mL of $NaBH_4$ in a short injection (about 10 seconds). The injections are quicker for As^{+3} determinations than for Inorganic As, MMA, DMA determinations (Section 11.4.1.4) because rapid evolution of H_2 does not occur at a neutral pH. After seven minutes, turn the stopcock on the four-way valve to bypass the reaction vessel and pass helium directly to the trap. Arsines are purged from the sample onto the cooled glass trap packed with 15% OV-3 on Chromosorb® W AW DMCS, or equivalent.

11.5.3 Trap desorption and AAS analysis—Desorption of arsines from the trap follows the same procedure as in Sections 11.4.2 through 11.4.3 to complete the determination of As^{+3} concentration. During this procedure, small, irreproducible quantities of organic arsines may be released at this pH and should be ignored. This separation of arsenite is reproducible and essentially 100% complete.

11.6 Arsenate (As^{+5}) determination—The concentration of As^{+5} is calculated by subtracting the As^{+3} determined in Section 11.5 from the total inorganic As determined on an aliquot of the same sample in Section 11.4.

12.0 Data analysis and calculations

12.1 For water samples, compute the concentration of As species in ng/L using the calibration data (Section 10.1):

Equation 4

$$C\left[\frac{\mu g}{L}\right]=\frac{R_x}{CF_m V_s}$$

Where:

Rx	= Peak height or area for As species in the sample [peak height or area units]
CF_m	= Mean calibration factor for As species [peak height or area units /µg]
V_s	= Volume of sample purged and analyzed [L]

For tissue samples, compute the concentration of As species in µg/g as follows:

Equation 5

$$C\left[\frac{\mu g}{g}\right]=\left(\frac{R_x}{CF_m}\right)\left(\frac{V_{digest}}{V_d}\right)\left(\frac{1}{m_s}\right)$$

Where:

R_x	= Peak height or area As species in the digestate [peak height or area units]
CF_m	= Mean calibration factor for As species [peak height or area units /µg]
V_{digest}	= Total volume of tissue digestate [mL]
V_d	= Volume of digestate added to reaction vessel [mL]
m_s	= mass of sample digested [g]

12.2 If the concentration exceeds the calibration range, dilute the sample by successive factors of 10 until the concentration is within the calibration range.

12.3 Reporting

12.3.1 Report results for each As species at or above the ML, in µg/L or µg/g, to three significant figures. Report results for each As species in samples below the ML as less than the value of the ML, or as required by the regulatory authority or in the permit. Report results for each As species in field blanks at or above the ML, in µg/L or µg/g, to three significant figures. Report results for each As species in field blanks below the ML but at or above the MDL to two significant figures. Report results for each As species not detected in field blanks as less than the value of the MDL, or as required by the regulatory authority or in the permit.

12.3.2 Report results for each As species in samples, method blanks, and field blanks separately, unless otherwise requested or required by a regulatory authority or in a permit. If blank correction is requested or required, subtract the concentration of each As species in the method blank, average of multiple method blanks, or field blank from the concentration of

the respective As species in the sample to obtain the net sample As species concentration. Among the preceding blanks, only one may be subtracted.

12.3.3 Results from tests performed with an analytical system that is not in control must not be reported or otherwise used for permitting or regulatory compliance purposes, but does not relieve a discharger or permittee of reporting timely results.

13.0 Method Performance

Tables 1 contains MDLs and MLs for As species in water and tissue matrices. The QC acceptance criteria in Table 2 are based on quality control data generated during As speciation analysis by Method 1632 for the Cook Inlet Study (1998). Details on how the criteria were developed can be found in Reference 16.16.

14.0 Pollution Prevention

14.1 Pollution prevention encompasses any technique that reduces or eliminates the quantity or toxicity of waste at the point of generation. Many opportunities for pollution prevention exist in laboratory operation. EPA has established a preferred hierarchy of environmental management techniques that places pollution prevention as the management option of first choice. Whenever feasible, laboratory personnel should use pollution prevention techniques to address their waste generation. When wastes cannot be feasibly reduced at the source, the Agency recommends recycling as the next best option. The acids used in this method should be reused as practicable by purifying with electrochemical techniques. The only other chemicals used in this method are the neat materials used in preparing standards. These standards are used in extremely small amounts and pose little threat to the environment when managed properly. Standards should be prepared in volumes consistent with laboratory use to minimize the disposal of excess volumes of expired standards.

14.2 For information about pollution prevention that may be applied to laboratories and research institutions, consult Less is Better: Laboratory Chemical Management for Waste Reduction, available from the American Chemical Society's Government Affairs Publications , 1155 16th Street NW, Washington DC 20036, 202/872–4600, or govtrelations@acs.org.

15.0 Waste Management

15.1 The laboratory is responsible for complying with all federal, state, and local regulations governing waste management, particularly hazardous waste identification rules and land disposal restrictions, and for protecting the air, water, and land by minimizing and controlling all releases from fume hoods and bench operations. Compliance with all sewage discharge permits and regulations is also required.

15.2 Acids and samples at pH < 2 must be either neutralized before being disposed or handled as hazardous waste.

15.3 For further information on waste management, consult *The Waste Management Manual for Laboratory Personnel* and *Less is Better: Laboratory Chemical Management for Waste Reduction*, both available from the American Chemical Society's Government Affairs Publications, 1155 16th Street NW, Washington, DC 20036.

16.0 References

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16.3 Method 1669, "Method for Sampling Ambient Water of Metals at EPA Ambient Criteria Levels," U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology, Engineering and Analysis Division (4303), 401 M St SW, Washington, DC 20460 (January 1996).

16.4 Patterson, C.C. and Settle, D.M. "Accuracy in Trace Analysis"; In National Bureau of Standards Special Publication 422; LaFleur, P.D., Ed., U.S. Government Printing Office, Washington, DC, 1976.

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16.6 "OSHA Safety and Health Standards, General Industry," OSHA 2206, 29 CFR 1910.

16.7 "Safety in Academic Chemistry Laboratories," ACS Committee on Chemical Safety, 1979.

16.8 "Standard Methods for the Examination of Water and Wastewater," 18th ed. and later revisions, American Public Health Association, 1015 15th Street NW, Washington DC 20005, 1-35: Section 1090 (Safety), 1992.

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16.10 Lauenstein, G.G. and A.Y. Cantillo (Eds.). July, 1983. Silver Spring, MD. NOAA Technical Memorandum NOS ORCA 71. Sampling and Analytical Methods of the National Status and Trends Program National Benthic Surveillance and Mussel Watch Projects 1984-1992, Volume 1: Overview and Summary of Methods.

16.11 Aggett, J. and Kriegman, M.R. "Preservation of Arsenic(III) and Arsenic(V) in Samples of Sediment Interstitial Water," Analyst 1987, 112, 153.

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16.13 Crecelius, E. and J. Yager. "Intercomparison of Analytical Methods for Arsenic Speciation in Human Urine." Environmental Health Perspectives 1997, 105, 650.

16.14 Method 1640, "Determination of Trace Elements in Water by Preconcentration and Inductively Coupled Plasma-Mass Spectrometry," U.S. Environmental Protection Agency, Office of Water, Office of Science and Technology, Engineering and Analysis Division (4303), 401 M St SW, Washington, DC 20460 (April, 1997). Draft.

16.15 "Results of the EPA Method 1632 Validation Study," July 1996. Available from the EPA Sample Control Center, 6101 Stevenson Avenue, Alexandria, VA 22304, 703-461-2100.

16.16 "Development of Quality Control Criteria for Method 1632, Revision A," July 2000. Available from the EPA Sample Control Center, 6101 Stevenson Avenue, Alexandria, VA 22304, 703-461-2100.

17.0 Glossary

The definitions and purposes below are specific to this method, but have been conformed to common usage as much as possible.

17.1 Ambient water—Water in the natural environment (e.g., river, lake, stream, and other receiving water), as opposed to an effluent discharge.

17.2 Equipment blank—An aliquot of river/reagent water (Section 7.1) that is subjected in the laboratory to all aspects of sample collection and analysis, including contact with all sampling devices and apparatus. The purpose of the equipment blank is to determine if the sampling devices and apparatus for sample collection have been adequately cleaned before shipment to the field site. An acceptable equipment blank must be achieved before the sampling devices and apparatus are used for sample collection. In addition, equipment blanks should be run on random, representative sets of gloves, storage bags, and plastic wrap for each lot to determine if these materials are free from contamination before use.

17.3 Field blank—An aliquot of river/reagent water (Section 7.1) that is placed in a sample container in the laboratory, shipped to the field, and treated as a sample in all respects, including contact with the sampling devices and exposure to sampling site conditions, storage, preservation, and all analytical procedures, which may include filtration. The purpose of the field blank is to determine if the field or sample transporting procedures and environments have contaminated the sample.

17.4 Field duplicates (FD1 and FD2)—Two separate samples collected in separate sample bottles at the same time and place under identical circumstances and treated exactly the same throughout field and laboratory procedures. Analyses of FD1 and FD2 give a measure of the precision associated with sample collection, preservation, and storage, as well as with laboratory procedures.

17.5 Initial precision and recovery (IPR)—Four aliquots of the ongoing precision and recovery standard analyzed to establish the ability to generate acceptable precision and accuracy. IPR tests are performed before a method is used for the first time and any time the method or instrumentation is modified.

17.6 Matrix spike (MS) and matrix spike duplicate (MSD)—Aliquots of an environmental sample to which known quantities of the analytes are added in the laboratory. The MS and MSD are analyzed exactly like samples. Their purpose is to quantify the bias and precision caused by the sample matrix. The background concentrations of the analytes in the sample matrix must be determined in a separate aliquot and the measured values in the MS and MSD corrected for background concentrations.

17.7 May—This action, activity, or procedural step is optional.

17.8 May not—This action, activity, or procedural step is prohibited.

17.9 Method blank—An aliquot of river/reagent water (Section 7.1) or corn oil (Section 7.14) that is treated exactly as a sample including exposure to all glassware, equipment, solvents, reagents, internal standards, and surrogates that are used with samples. The method blank is used to determine if analytes or interferences are present in the laboratory environment, the reagents, or the apparatus.

17.10 Minimum level (ML)—The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. It is equivalent to the concentration of the lowest calibration standard, assuming that all method-specified sample weights, volumes, and cleanup procedures have been employed. The ML is calculated by multiplying the MDL by 3.18 and rounding the result to the number nearest to (1, 2, or 5) x 10n, where n is an integer.

17.11 Must—This action, activity, or procedural step is required.

17.12 Ongoing precision and recovery (OPR)—A method blank spiked with known quantities of analytes. The OPR is analyzed exactly like a sample. Its purpose is to assure that the results produced by the laboratory remain within the limits specified in the referenced methods for precision and accuracy.

17.13 Quality control sample (QCS)—A sample containing all or a subset of the analytes at known concentrations. The QCS is obtained from a source external to the laboratory or is prepared from a source of standards different from the source of calibration standards. It is used to check laboratory performance with test materials prepared external to the normal preparation process.

17.14 Reagent water—Water demonstrated to be free of As, As species, and potentially interfering substances at the MDLs for As and/or As species.

17.15 River Water—Freshwater containing arsenic species at concentrations below the MDLs.

17.16 Should—This action, activity, or procedural step is suggested but not required.

17.17 Stock solution—A solution containing an analyte that is prepared using a reference material traceable to EPA, the National Institute of Science and Technology (NIST), or a source that will attest to the purity and authenticity of the reference material.

18.0 Tables and Figures

TABLE 1. ARSENIC SPECIATION ANALYSIS USING METHOD 1632: METHOD DETECTION LIMIT (MDL) AND MINIMUM LEVEL (ML)[1]

	Water[2]		Tissue[3]	
Analyte	**MDL**	**ML**	**MDL**	**ML**
Inorganic Arsenic (As^{+3} +As^{+5})	0.003 □g/L	0.01 □g/L	0.03 □g/g	0.10 □g/g
Arsenite (As^{+3})	0.003 □g/L	0.01 □g/L	0.02 □g/g	0.10 □g/g
Monomethylarsonic acid (MMA)	0.004 □g/L	0.01 □g/L	0.01 □g/g	0.05 □g/g
Dimethylarsinic acid (DMA)	0.02 □g/L	0.05 □g/L	0.04 □g/g	0.10 □g/g

[1] MDL determined by the procedure in 40 CFR Part 136, Appendix B.
[2] MDL for inorganic As in water was obtained from a validation study involving two laboratories (Ref. 16.15). MDL for As^{+3}, MMA and DMA in water was obtained from data provided by Frontier Geosciences (Ref. 16.16).
[3] MDL for tissue was determined from spiked corn oil samples by Battelle Marine Sciences Laboratory (Ref. 16.16).

TABLE 2. QUALITY CONTROL ACCEPTANCE CRITERIA FOR EPA METHOD 1632[1]

	IPR (Section 9.2)				MS/MSD (Section 9.3)	
Analyte[2]	**s**	**X**	**OPR (Section 9.7)**	**Calibration Verification (Section 9.5)**	**%R**	**RPD**
IA	< 25%	60-140%	50-150%	80-120%	50-150%	< 35%
As^{+3}	< 25%	40-160%	30-170%	70-130%	30-170%	< 35%
MMA	< 20%	70-130%	60-140%	80-120%	60-140%	< 25%
DMA	< 30%	50-150%	40-160%	70-130%	40-160%	< 40%

[1] Acceptance criteria based on quality control data generated during As speciation analysis for the Cook Inlet Study (1998). Details can be found in Reference 16.16.
2 IA - Inorganic arsenic (As^{+3} + As^{+5}); MMA - monomethylarsonic acid; DMA - dimethylarsinic acid.

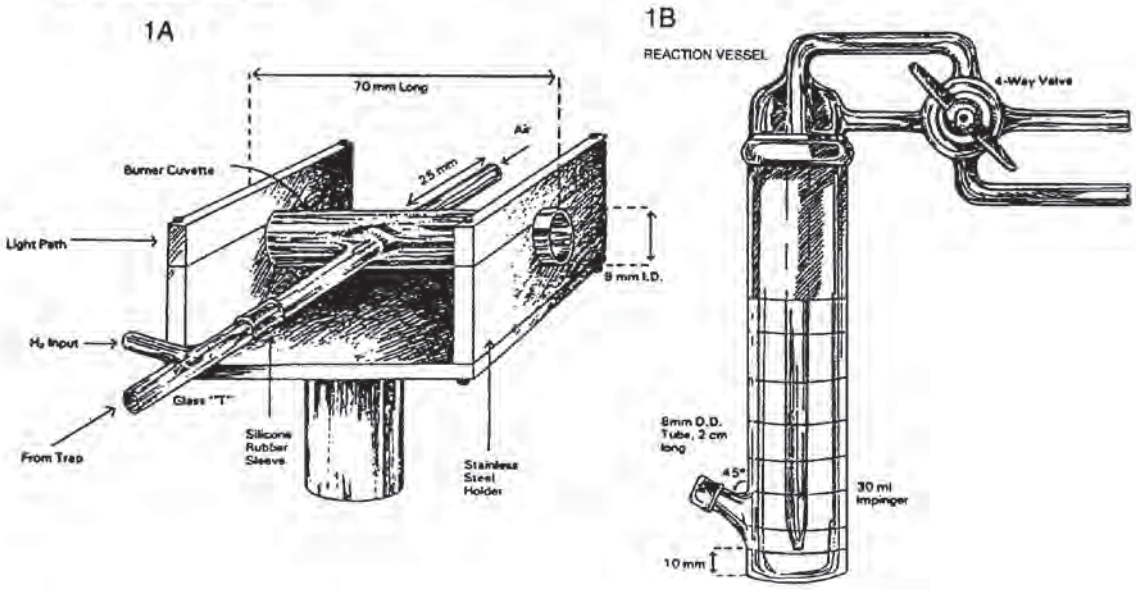
TABLE 3: TYPICAL SPECTROPHOTOMETER SETTINGS

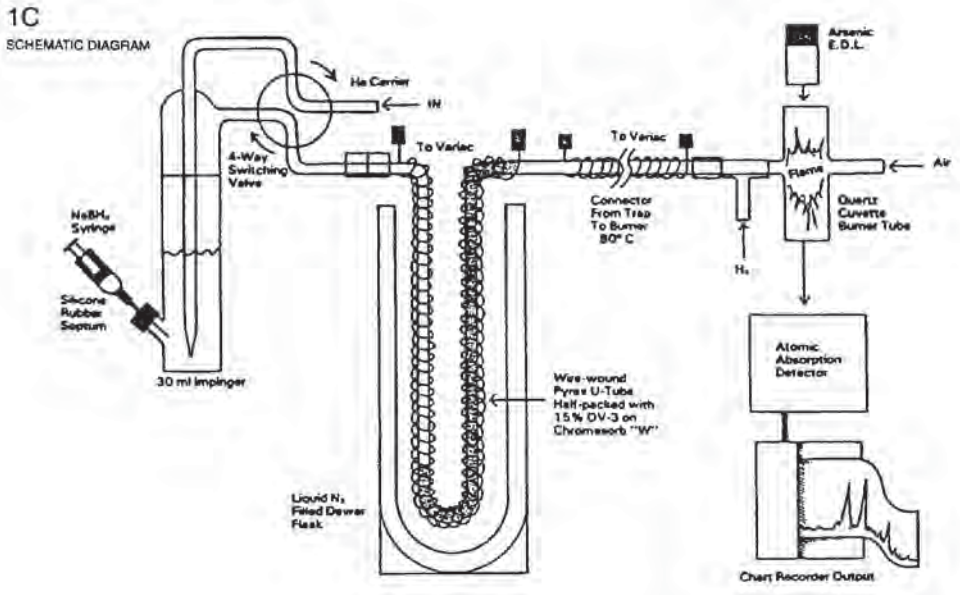
Parameter	Typical Setting
EDL energy	59
EDL power	8 W
Wavelength	193.7 nm
Slit width	0.7 nm

TABLE 4: TYPICAL FLOW RATES AND PRESSURES FOR GASES IN THE HYDRIDE GENERATION SYSTEM

Gas	Flow Rate (mL/min)	Pressure (lb/in ^{2})
He	150	10
H_2	350	20
Air	180	20

Figure 1. Arsenic Speciation Apparatus: (a) Quartz Cuvette Burner Tube, (b) Reaction Vessel, and (c) Schematic Diagram





TECHNICAL MEMORANDUM

ARSENIC BIOAVAILABILITY STUDY

SPRING VALLEY OPERABLE UNIT 4
WASHINGTON, DC

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Prepared by:

PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030

JANUARY 31, 2002

1.0 INTRODUCTION

1.0.1 The purpose of this Technical Memorandum is to discuss the results of the arsenic bioavailability study for the Spring Valley investigation. This sampling was performed in support of the OU-4 Remedial Investigation/Feasibility Study (RI/FS). The objective of this limited study was to provide a better understanding of the site-specific bioavailability (that fraction of arsenic absorbed into the bloodstream of the human body) of arsenic and to provide the basis for modification of inputs to the risk assessment calculations.

2.0 BACKGROUND

2.0.1 In August and September 1999, the United States Environmental Protection Agency (USEPA) collected background soil samples in support of Spring Valley Operable Unit 3 (OU-3) investigations (Background Trip Report, USEPA, January 2000). These samples covered four distinct soil types present in Spring Valley.

2.0.2 As an extension of the OU-3 investigations, a remedial investigation addressing a geographically larger area of Spring Valley was undertaken as Operable Unit 4 (OU-4). As part of the OU-4 investigation, grid soil sampling for arsenic (As) was performed by Parsons Engineering Science (Parsons ES) on a portion of the American University (AU) campus designated AU Lot 12. AU Lot 12 contains the Child Development Center (CDC). The sampling was performed to determine the extent and concentrations of arsenic in surface soils on AU Lot 12 and the CDC. All sampling at the CDC was performed in accordance with the Work Management Plan (WMP) for OU-4, (*Parsons ES, August 14, 2000*, and Amendment 3 to the WMP *(October 1, 2002).*

2.0.3 Based on the results of the arsenic grid sampling, the three highest arsenic concentrations inside the CDC and the three highest outside the CDC (but within AU Lot 12) were sampled for bioavailability. Additionally, six background samples representing the four soil types were collected from the same locations the USEPA sampled; these were also analyzed for bioavailability. These samples were collected to match the soil types of the CDC/AU Lot 12 soil and to ensure that each of the four soil types were represented for the purposes of comparing site data and background data. However, only three of the four soil types were present at the CDC/AU Lot 12 area.

3.0 SAMPLE COLLECTION

3.0.1 On March 15, 2001, the bioavailability samples were collected from the CDC and AU Lot 12. On March 19, 2001, the background locations were sampled for bioavailability analysis. Figure 1-1 indicates the overall grid sampling and the bioavailability sampling locations for the CDC/AU Lot 12. Figure 1-2 shows the background sampling locations. Twelve (12) total samples, not including Quality Control (QC) samples, were collected**.** In addition to these 12 samples, a field duplicate and a matrix spike/matrix spike duplicate (MS/MSD) were collected (see Table 1.1).

3.0.2 All samples were collected as discrete surface soil samples, from 0-6 inches in depth. The soil types are indicated on Table 1.1.

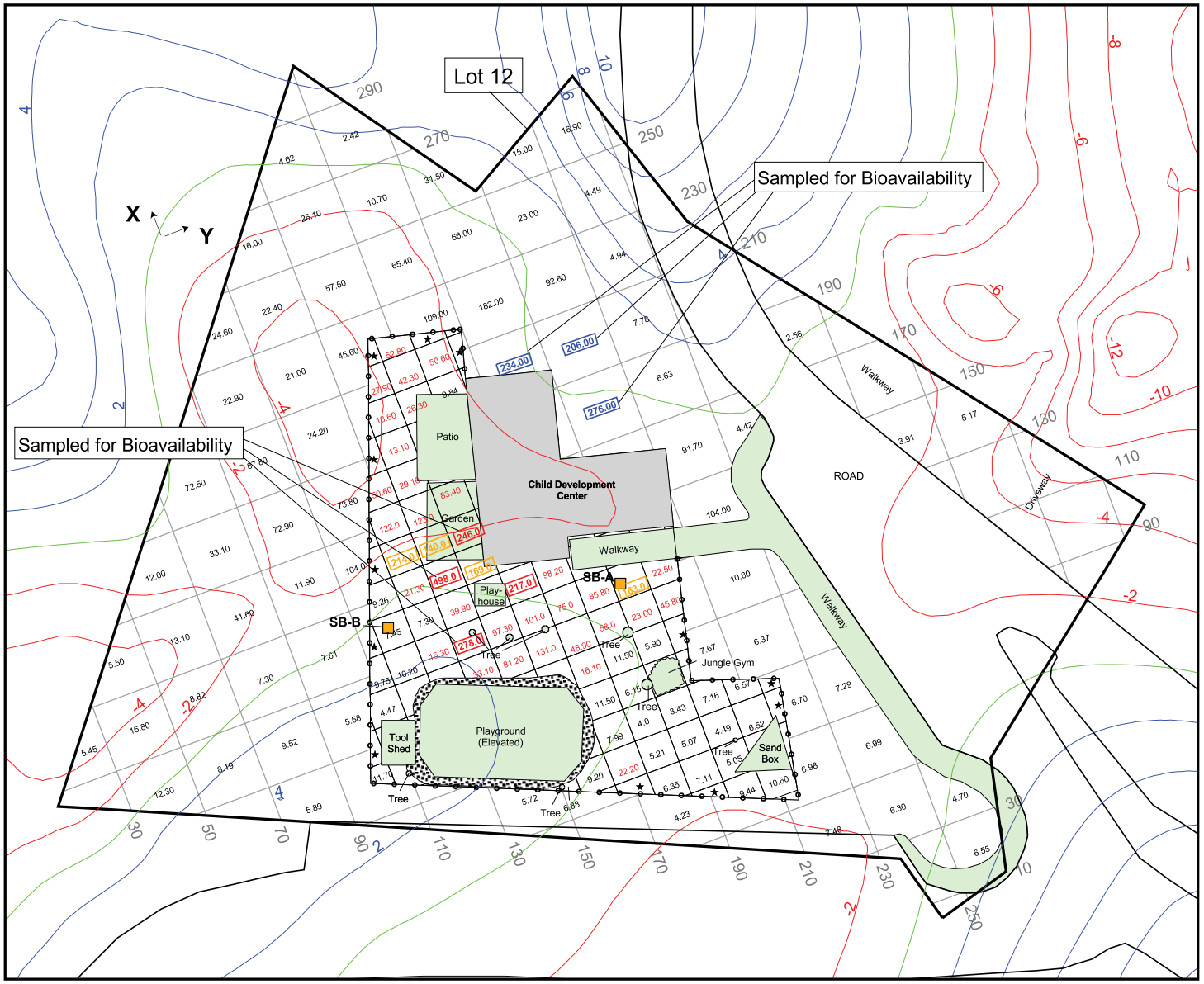


Figure 1-1
Bioavailability Sample Locations
Child Development Center / AU Lot 12

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring Locations
- Cut and Fill, 1917-2000 (2 foot contours)
  - Level
  - Fill
  - Cut
- Fence
- AU Lot 12
- 10' Grid
- 20' Grid
- Physical Obstruction (Grid could not be sampled)
- Gravel
- ★ Sample Collected Outside Fence in 20' AU Lot 12 Grid

Note:
Sample results are Arsenic in Parts per Million.
Results in red are over 13 ppm inside the CDC.

- 498.0 The highest 5% arsenic levels inside the CDC
- 276.0 The 3 highest arsenic values outside the CDC
- 163.0 The next 5% highest arsenic values

30 0 30 Feet

1 inch = 30 feet

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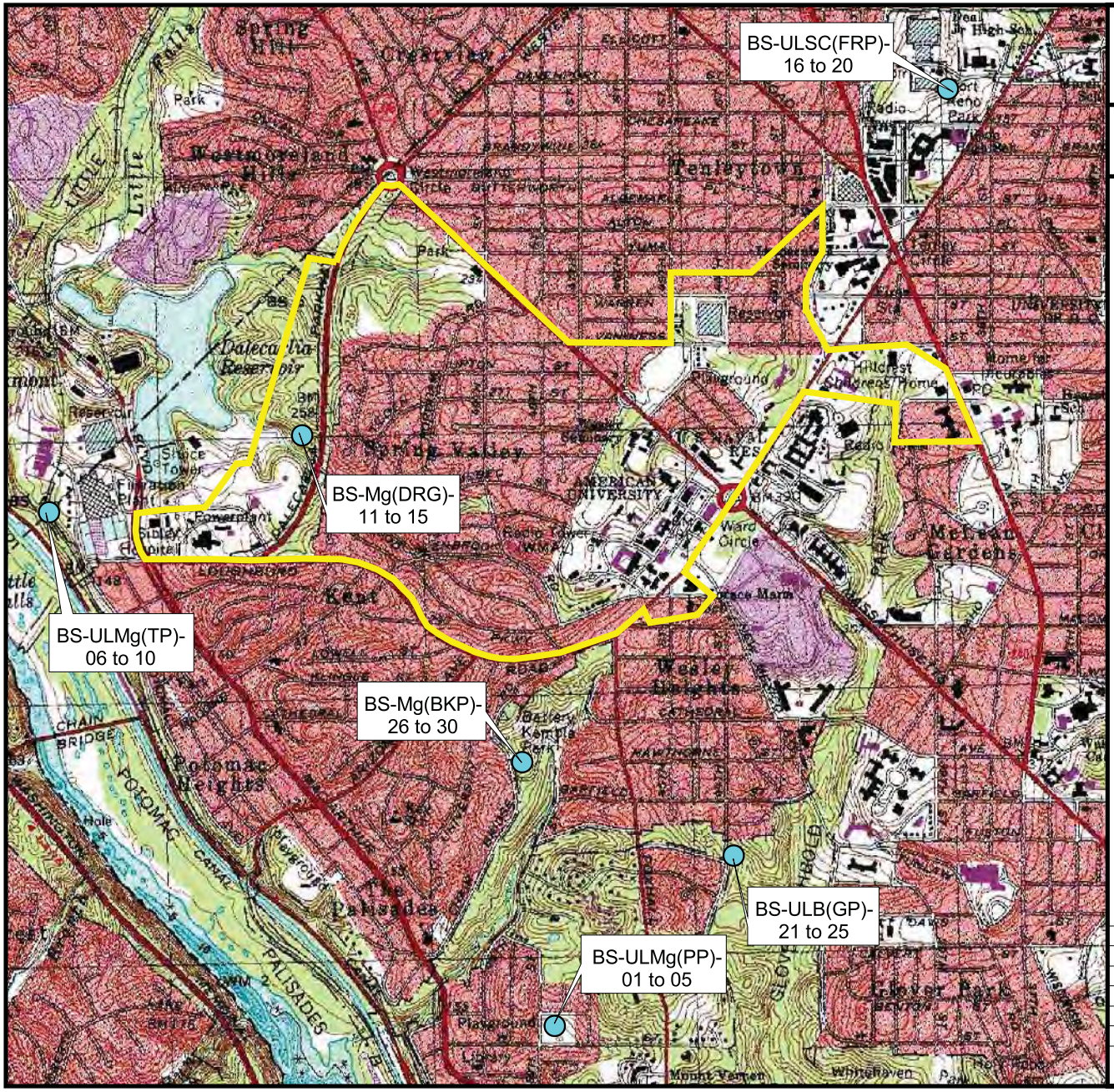


Figure 1-2
Background Sample Locations

Spring Valley Operable Units 4 and 5
Washington D.C.

Legend

SV FUDS Boundary

DRG - Dalecarlia Reservoir Grounds
FRP - Fort Reno Park
TP - West of Water Treatment Plant
BKP - Battery Kemble Park
GP - Glover Parkway
PP - Palisades Park

N
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PARSONS

TABLE 1.1
Soil Types of Bioavailability Samples
Spring Valley Operable Unit 4

Spring Valley Background Sampling		
Sample ID	**Sample Description**	**Sample Location[\1]**
OU4-BS-Mg (DRG)	Light brown silty sand with trace mica.	**Dalecarlia Reservoir Grounds (DRG)**
OU4-BS-ULSC(FRP)	Brown silty soil.	**Fort Reno Park (FRP)**
OU4-BS-ULMg (TP)	Light brown silty soil.	**West of the Water Treatment Plant (TP)**
OU4-BS-Mg (BKP)	Brown silty soil with trace mica.	**Battery Kemble Park (BKP)**
OU4-BS-ULB (GP)	Dark brown silty sand.	**Glover Parkway (GP)**
OU4-BS-ULMg (PP)	Brown to reddish brown silty clay.	**Palisades Park (PP)**
OU4-BS-ULB MS/MSD	[**MS/MSD sample of Sx -(OU4-BS-ULB(GP)**] Dark brown silty sand.	**Glover Parkway (GP)**

[\1] - Sample locations are the same locations used by the EPA to collect their background samples

AU 12/CDC Six Highest Arsenic Grids		Background Sample Type Match[\2]
Sample ID	**Sample Description**	
OU4-CDC-(160,150)	Brown silty sand with some quartz and rocks	**OU4-BS-ULB (GP)**
OU4-CDC-(150,140)	Brown to tan silty sand.	**OU4-BS-Mg (DRG)**
OU4-CDC-(130,140)	Reddish brown to rusty brown clay with sand grains and quartz.	**OU4-BS-ULMg (PP)**
OU4-CDC-DUP	[**Duplicate of Sx -(160,150)**]Brown silty sand with some quartz and rocks	**OU4-BS-ULB (GP)**
OU4-AU12-(180,200)	Light brown silty clay.	**OU4-BS-ULMg (TP)**
OU4-AU12-(200,200)	Light brown silty clay.	**OU4-BS-ULMg (TP)**
OU4-AU12-(200,180)	Light brown silty clay.	**OU4-BS-ULMg (TP)**

[\2] - Background Soil Types: Mg - Manor Glenelg
ULSC - Urban Land Sassafras Chillum
ULMg - Urban Land Manor Glenelg
ULB - Urban Land Brandywine

3.0.3 The samples were submitted to the Laboratory for Environmental and Geological Studies, University of Colorado, at Boulder, care of Dr. John W. Drexler. Specifically, samples were submitted for determinations of the bioavailability of arsenic from soil. In addition, a determination of the types of particles (inorganic vs. organic) that contain bound arsenic was conducted. The report of results, which is included as Attachment A, contains a description of analytical methodologies.

4.0 RESULTS AND UNCERTAINTY DISCUSSION

4.0.1 Of the fifteen samples (including QA/QC) analyzed for bioavailability, only eleven samples had detectable concentrations in the test solution that could be used to derive a percent bioavailability (Table 1.2 and Attachment A). For those samples with detectable concentrations, the percent bioavailability ranged from 3 to 50 percent. As noted in Attachment A, at the time these experiments took place, the method was reported to correlate with the best available *in vivo* model for determining bioavailability, the juvenile swine model. In numerous historical *in vivo* studies the swine model closely models the digestive tracts of humans. However, the *in vitro* model was used because there was sufficient correlation to the *in vivo* model at a substantially reduced cost.

4.0.2 The data presented in Attachment A can be interpreted to conclude that risk estimates derived using detected concentrations of arsenic will likely overestimate the potential risks and hazards associated with exposures to the soils. Based on a bioavailability factor of 3%, these risks and hazards will be overestimated by up to a factor of 33 and clean-up criteria developed without accounting for bioavailability will result in criteria that can be up to 33 times too stringent. Even using the most conservative of these bioavailability values (i.e., 50%) results in the reduction of risk and hazard estimates by one-half and an increase of the calculated clean-up criteria by a factor of two. Attachment A is the laboratory report of data and does not directly address the overestimation of potential risks and hazards associated with exposures to the soils based on the bioavailability results.

4.0.3 In addition to the bioavailability study, a determination of the types of arsenic-bearing particles was conducted using both electron microprobe and chemical analysis. As noted in Attachment A, for the electron microprobe analysis (EMPA), data were acquired on only five samples because of low bulk arsenic concentrations resulting in a limited data set. In general the data indicated the arsenic bearing phases to be either iron oxides, manganese oxides, iron arsenic sulfates or clays as determined by particle analysis (Attachment A, Table 2). An interpretation of the data, when compared to the bioavailability data discussed above, show that for the four samples where the arsenic bearing phase was predominantly iron oxides (97 – 100%) and where clays were not identified as an arsenic bearing phase, the bioavailability ranged from 7 – 22%. For the single sample that had clays identified as an arsenic bearing phase (OU4-CDC, 150,140), the bioavailability was determined to be 50%. Data from the single sample suggests that arsenic in clays may be more bioavailable and that risk estimates will likely be overestimated for soils where the arsenic bearing phase is exclusive of clays. Conclusions about correlations between arsenic-bearing clays and bioavailability were not provided in Attachment A.

TABLE 1.2
Bioavailability Results
Spring Valley OU-4

Run at 1.5pH for 1 hr @ 39*c	Date Sampled	Field Numbers	As in bulk soil (mg/kg)	As% bioavailability
OU4-AU12 (180,200)	15-Mar-01	Par-1	215	8
OU4-BS-UlMg (PP)	19-Mar-01	Par-2	3	3
OU4-BS-Mg (DRG)	19-Mar-01	Par-3	1	
OU4-BS-ULB-MS/MSD	19-Mar-01	Par-4	2	15
OU4-BS-ULB (GP)	19-Mar-01	Par-5	2	5
OU4-AU12 (200,200)	15-Mar-01	Par-6	235	7
OU4-CDC-(130,140)	15-Mar-01	Par-7	12	7
OU4-CDC (150,140)	15-Mar-01	Par-8	154	50
OU4-AU12 (200,180)	15-Mar-01	Par-9	113	8
OU4-BS-ULSC (FRP)	19-Mar-01	Par-10	5	14
OU4-CDC (160,150)	15-Mar-01	Par-11	178	22
OU4-BSMg (BKP)	19-Mar-01	Par-12	3	
OU4-BS-UlMg (TP)	19-Mar-01	Par-13	3	
QA/QC				
Blank	NA[\1]			
OU4-BS-UlMg (TP) Dup	NA[\1]	Par-14	3	
OU4-CDC-DUP (of CDC 160, 150)	15-Mar-01	Par-15	178	23

[\1] Internal Lab QA/QC

5.0. CONCLUSION

5.0.1 The oral toxicity values used in risk assessments are based on epidemiology studies of human populations exposed to arsenic in drinking water (EPA, 2001). However, arsenic rendered insoluble in the soil will have reduced absorption. Studies in laboratory animals indicate that arsenic absorption is reduced in soils (Battelle, 2000). These studies indicate that arsenic in soil is typically one-half to one-tenth as bioavailable as arsenic in water. Therefore, the literature supports relative bioavailability adjustments ranging from 0.5 to 0.1 (Battelle, 2000). Simple extraction tests have shown good correlation in predicting bioavailability of arsenic to humans (Battelle, 2000; Casteel et al., 2001). In these systems, soils containing arsenic are incubated in a solution in a system that represents the human gastrointestinal system. The fraction of arsenic that dissolves represents the fraction that is available for absorption.

5.0.2 Overall the bioavailability experiments indicate that risks and hazards may be overestimated if these factors are not incorporated quantitatively. Due to the limited amount of data available, a regression model was not developed to determine a bioavailability adjustment factor (BAF) for use at Spring Valley. However, conservative assumptions can be made. The most conservative assumption would be to use a BAF of 50%, based on the single highest bioavailability obtained from any sample. The range of bioavailability in the remaining samples was lower, 3%-22%, with a mean of 10%.

5.0.3 Because of the limitations of the study, the arsenic bioavailability findings were not relied upon to make Spring Valley project decisions. Neither the 12.6 ppm arsenic screening level nor the 20 ppm arsenic remediation endpoint was based on the results of this study.

6.0. REFERENCES

6.0.1 Battelle and Exponent, 2000. Guide for Incorporating Bioavailability Adjustments into Human Health and Ecological Risk Assessments at U.S. Navy and Marine Corps Facilities. Part 1: Overview of Metals Bioavailability. Prepared for Naval Facilities Engineering Service Center. July 2000.

6.0.2 Casteel, S; Evans, T; Turk , J; Basta, N; Weis, C; Henningsen, G; Hoffman, M (2001) Refining the Risk Assessment of Metal-contaminated Soils. Int J Hyg Environ Health 203(5-6): 473-474.

ATTACHMENT A

LABORATORY REPORT

For

PARSONS

July 24, 2001

By

Dr. John W. Drexler
Laboratory for Environmental and Geological Studies
University of Colorado
Boulder, CO. 80309
(303) 492-5251

INTRODUCTION

Fifteen samples, including QA/QC, were sent to the laboratory for bioavailability and arsenic-bearing particle content (by EMPA), by Parsons. A representative split of each sample was collected for both analyses. Bioavailability results are listed in Table 1. EMPA results were only acquired on five samples because of low bulk arsenic concentrations. The results are listed in Table 2 along with a 95% Confidence Interval (CI) and graphically in Figures 2 through 6. Particle-size data is compiled in Figure 1. Bulk total arsenic data are reported in Table 3.

EMPA analysis indicates that over 90% of the arsenic mass has been sorbed to iron oxides. These oxides have a mean particle-size of 35 microns and contain an average of 4,600 mg/kg arsenic. No primary forms of arsenic (e.g., arsenic trioxide, lead arsenate, sodium arsenate) were found.

TABLE 1.
Spring Valley Sampling - Bioavailability Results

Run at 1.5pH for 1 hr @ 39*c	Field Numbers	As in bulk soil (mg/kg)	mass soil (g)	calc As #1	ICP As (mg/l)	solution amt (l)	As% bio	Ph Stop
OU4-Au12 (180,200)	Par-1	215	1.00006	0.22	0.162	0.1	8	1.554
OU4-BS-Ulmg (PP)	Par-2	3	1.00573	0.00	0.001	0.1	3	1.545
OU4-BS-Mg (DRG)	Par-3	1	1.00264	0.00	DL	0.1		1.545
OU4-BS-ULB-MS/MSD	Par-4	2	1.00119	0.00	0.003	0.1	15	1.543
OU4-BS-ULB (GP)	Par-5	2	1.00409	0.00	0.001	0.1	5	1.54
OU4-Au12 (200,200)	Par-6	235	1.00508	0.24	0.164	0.1	7	1.538
OU4-CDC-(130,140)	Par-7	12	1.00206	0.01	0.008	0.1	7	1.558
OU4-CDC (150,140)	Par-8	154	1.00151	0.15	0.776	0.1	50	1.548
OU4-Au12 (200,180)	Par-9	113	1.00268	0.11	0.092	0.1	8	1.542
OU4-BS-ULSC (FRP)	Par-10	5	1.00094	0.01	0.007	0.1	14	1.6
OU4-CDC (160,150)	Par-11	178	1.0012	0.18	0.399	0.1	22	1.589
OU4-BSmg (BKP)	Par-12	3	1.00797	0.00	DL	0.1		1.568
OU4-BS-Ulmg (TP)	Par-13	3	0.99993	0.00	DL	0.1		1.562
QA/QC								
Blank					0.002			1.564
OU4-BS-Ulmg (TP) Dup	Par-14	3	1.00136	0.00	DL	0.1		1.561
OU4-CDC-DUP (of 160, 150)	Par-15	178	1.00458	0.18	0.404	0.1	23	1.543

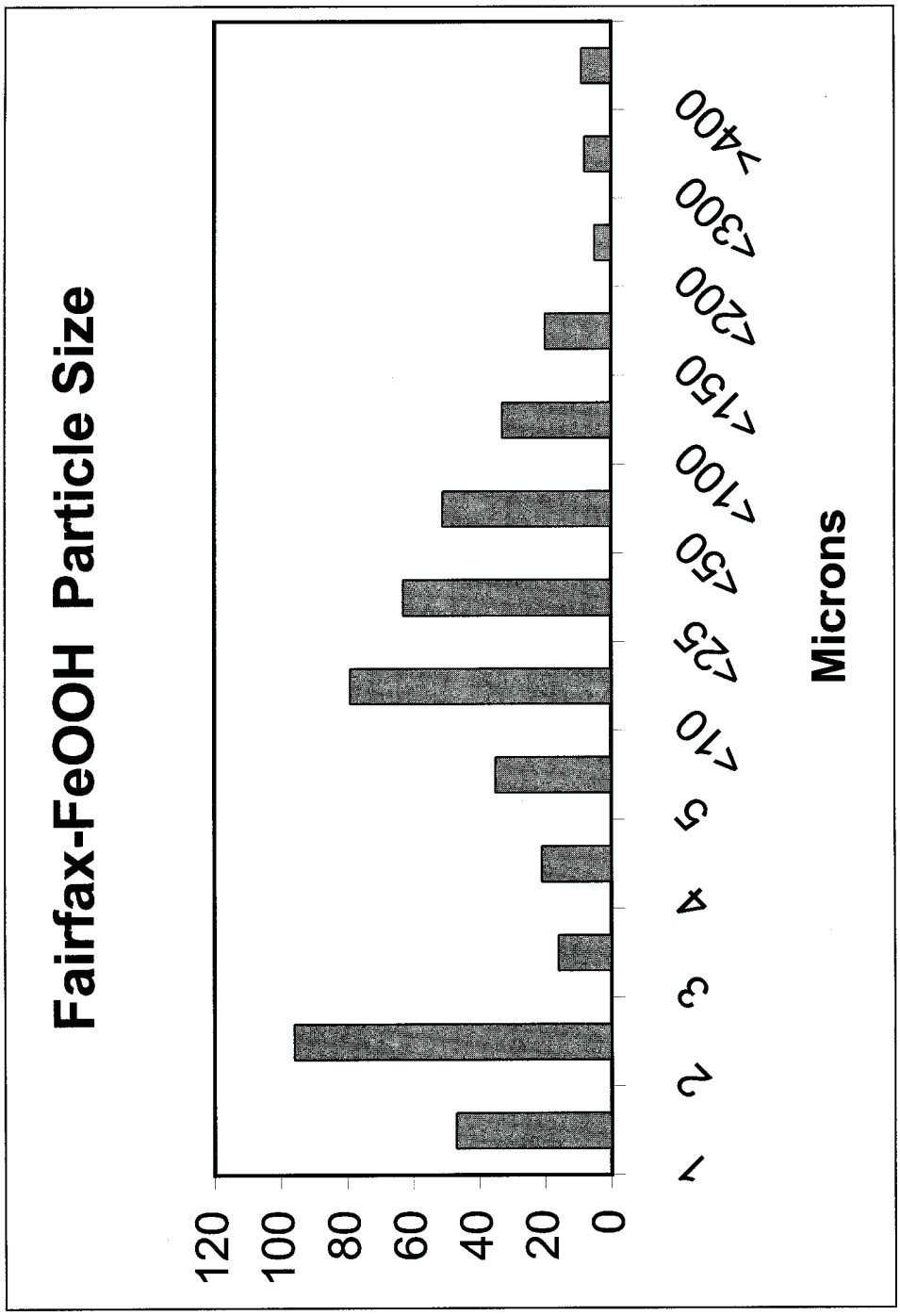
TABLE 2.
EMPA Results Frequency of Occurrence and Error Summary.

	OU4-AU12 200,200	+/- 95% CI	OU4 AU12 200,180	+/- 95% CI	OU4 CDC 160,150	+/- 95% CI
FeOOH	100%	95-100%	97%	87-99%	100%	
MnOOH			3%	1-13%		
Clays						
Fe-As Sulfate	Tr					
Particles Counted	107		44		152	

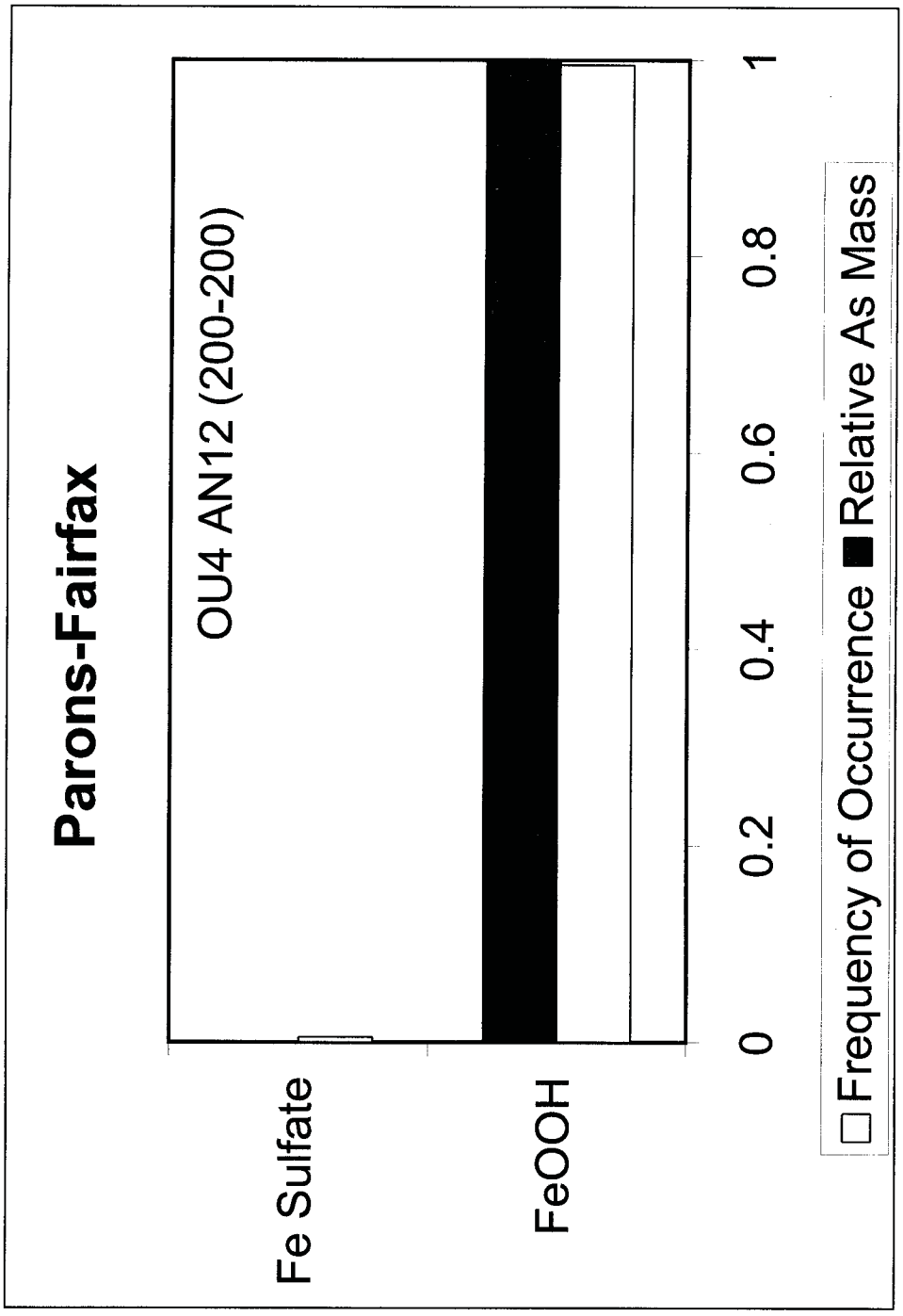
	OU4-AU12 180,200	+/- 95% CI	OU4 CDC 150,140	+/- 95% CI
FeOOH	100%		88%	78-93%
MnOOH				
Clays			12%	6-21%
Fe-As Sulfate				
Particles Counted	121		77	

TABLE 3.
Bulk Total Arsenic in Soils.

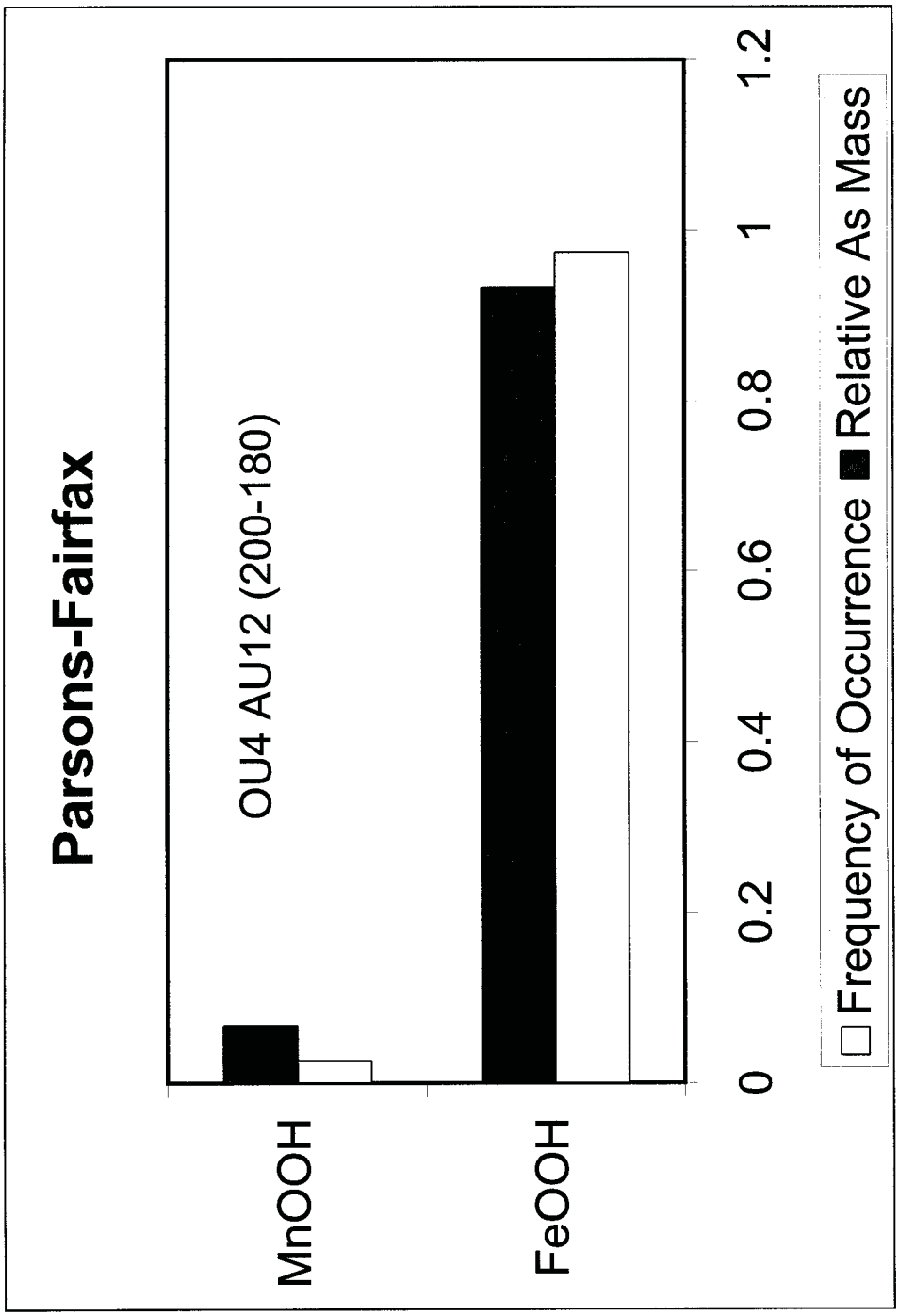
Sample ID.	As mg/kg	Dil. factor	Wt gr	Lab
<2 mm soil split				
OU4-Au 12 (180,200)	231.5	49.67759	1.00649	F-1
OU4-BS-Ulmg (PP)	3.7	49.89422	1.00212	F-2
OU4-BS-mg (DRG)	1.0	49.62631	1.00753	F-3
OU4-BS-ULB-MS/MSD	2.3	49.88526	1.0023	F-4
OU4-BS-ULB (GP)	1.9	49.83604	1.00329	F-5
OU4-CDC-Dup (160,150)	188.6	49.7458	1.00511	F-6
OU4-Au 12 (200,200)	275.2	49.73293	1.00537	F-7
OU4-CDC- (130,140)	11.3	49.62976	1.00746	F-8
OU4-CDC (150,140)	194.7	49.83306	1.00335	F-9
OU4-Au 12 (200,180)	119.5	49.74877	1.00505	F-10
OU4-BS-ULSC (FRP)	6.3	49.94406	1.00112	F-11
OU4-CDC (160,150)	297.0	49.9885	1.00023	F-12
OU4-BSmg (BKP)	3.1	50.02051	0.99959	F-13
OU4-BS-Ulmg (TP)	3.6	49.91714	1.00166	F-14
OU4-BS-Ulmg (TP)-dup	3.5	49.91714	1.00166	F-15
Blank-process-2mm	0.1	50	1	F-16
<250um soil split				
OU4-Au12 (180,200)	214.8	49.86139	1.00278	F-17
OU4-BS-Ulmg (PP)	3.1	49.60859	1.00789	F-18
OU4-BS-mg (DRG)	0.8	49.9925	1.00015	F-19
OU4-BS-ULB-MS/MSD	1.7	49.96902	1.00062	F-20
OU4-BS-ULB (GP)	1.9	49.82809	1.00345	F-21
OU4-CDC-Dup (160,150)	178.8	49.85095	1.00299	F-22
OU4-Au 12 (200,200)	235.1	49.75718	1.00488	F-23
OU4-CDC- (130,140)	12.0	49.75124	1.005	F-24
OU4-CDC (150,140)	153.7	49.95953	1.00081	F-25
OU4-Au 12 (200,180)	112.6	49.77948	1.00443	F-26
OU4-BS-ULSC (FRP)	4.8	49.66624	1.00672	F-27
OU4-CDC (160,150)	178.2	49.89074	1.00219	F-28
OU4-BSmg (BKP)	2.9	49.90917	1.00182	F-29
OU4-BS-Ulmg (TP)	3.3	49.96353	1.00073	F-30
OU4-BS-Ulmg (TP)-dup	2.8	49.96353	1.00073	F-31
Blank-process-250um	-0.1	50	1	F-32


Fairfax-FeOOH Particle Size
120
100
80
60
40
20
0
1
2
3
4
5
10
25
50
100
150
200
300
>400
Microns

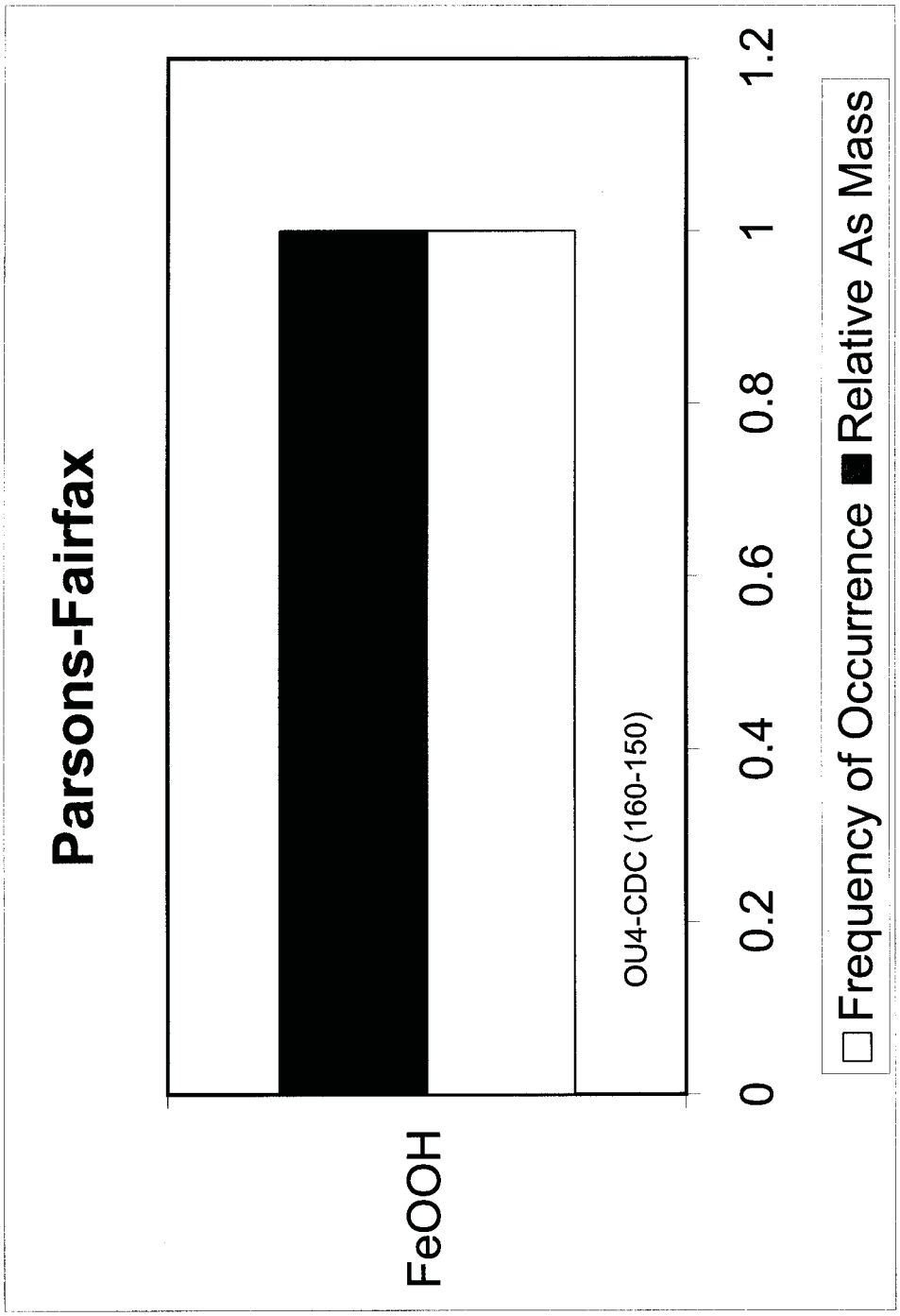
1


Parons-Fairfax
OU4 AN12 (200-200)
Fe Sulfate
FeOOH
0
0.2
0.4
0.6
0.8
1
Frequency of Occurrence
Relative As Mass

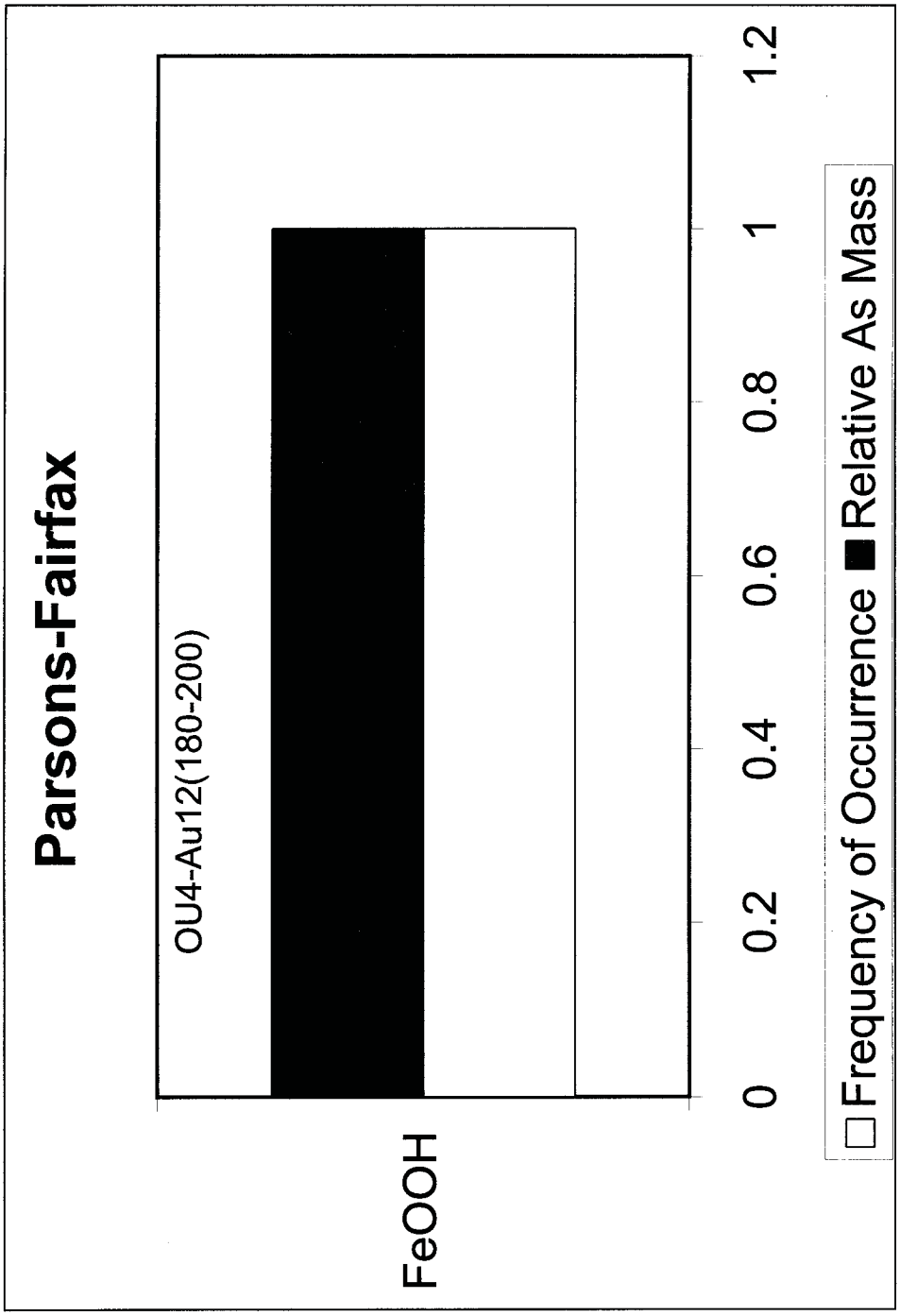
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Parsons-Fairfax
OU4 AU12 (200-180)
MnOOH
FeOOH
0
0.2
0.4
0.6
0.8
1
1.2
Frequency of Occurrence
Relative As Mass

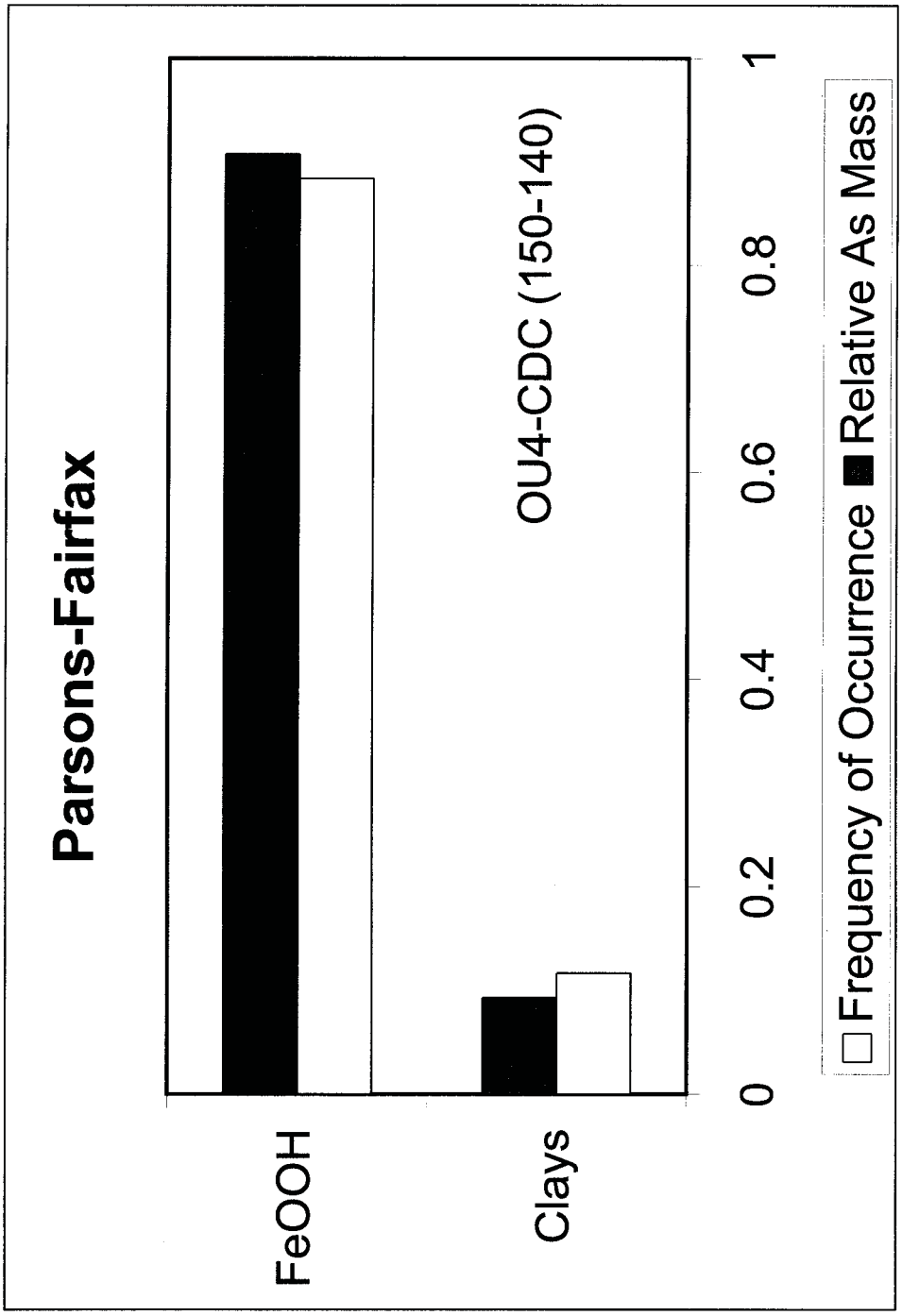
1


Parsons-Fairfax
FeOOH
OU4-CDC (160-150)
0
0.2
0.4
0.6
0.8
1
1.2
Frequency of Occurrence
Relative As Mass

1


Parsons-Fairfax
OU4-Au12(180-200)
FeOOH
0
0.2
0.4
0.6
0.8
1
1.2
Frequency of Occurrence
Relative As Mass

1


Parsons-Fairfax
OU4-CDC (150-140)
FeOOH
Clays
0
0.2
0.4
0.6
0.8
1
Frequency of Occurrence
Relative As Mass

1

METHODS

The arsenic-bearing particle analysis was conducted on a JOEL 8600 electron microprobe (EMPA) at the Laboratory for Geological Studies at the University of Colorado following the laboratory's SOP. The only exception to the SOP was that the complete sample was used for analysis. Representative backscatter photomicrographs (BSPM) illustrating sample characteristics were acquired.

Data from EMPA will be summarized using two methods. The first method is the determination of FREQUENCY OF OCCURRENCE. This is calculated by summing the longest dimension of all the arsenic-bearing phases observed and then dividing each phase by the total. Equation 1.0 will serve as an example to the calculation for an arsenic bearing compound.

F_{As} - Frequency of occurrence of arsenic in a single phase.

PLD - An individual particles longest dimension

$$F_{As} \text{ in phase-1} = \frac{\sum (PLD)_{\text{phase-1}}}{\sum (PLD)_{\text{phase-1}} + \sum (PLD)_{\text{phase-2}} + \sum (PLD)_{\text{phase-n}}}$$

$$\%F_{As} \text{ in phase-1} = F_{As} \text{ in phase-1} * 100$$

This data thus illustrates which arsenic-bearing phase(s) are the most commonly observed in the sample or relative volume percent.

The second calculation used in this report is the determination of RELATIVE MASS of a metal-bearing phase. These data are calculated (using arsenic as an example) by substituting the PLD term in the equation above with the value of MAS. This term is calculated as defined below.

MAS Mass of arsenic in a phase

SG Specific Gravity of a phase

PPM As - Concentration in ppm of arsenic in phase

$$M_{AS} = F_{AS} * SG * ppm_{AS}$$

The advantage in reviewing the RELATIVE ARSENIC MASS determinations is that it gives one information as to which metal-bearing phase(s) in a sample are likely to control the total bulk concentration for arsenic. As an example, PHASE- I may by relative volume comprise 98% of the sample, however it has a low specific gravity and contains only 1000 ppm arsenic, while PHASE-2 comprises 2% of the sample, has a high specific gravity and contains 850,000 ppm of arsenic. In this example it is PHASE-2 that is the dominant source of arsenic to the sample.

Sample Preparation

1) Logging the samples of which polished mounts will be prepared

2) Inspection of all plastic cups, making sure each is clean and dry

3) Labeling each "mold" with its corresponding sample number.

4) All samples will be split to produce a homogeneous 1-4 gram sample.

5) Mixing epoxy resin and hardener according to manufacturer's directions.

6) Pour 1 gram of sample into mold. Double checking to make sure sample numbers on mold and sample match. Pouring epoxy into mold to just cover sample grains.

7) Using a new wood stirring stick with each sample, carefully blend epoxy and grains so as to coat all grains with epoxy.

8) Setting molds to cure at **ROOM TEMPERATURE** in a clean restricted area. Adding labels with sample numbers and covering with more epoxy resin. Leaving to cure completely at room temperature.

9) One at a time, removing each sample from its mold and grinding flat the back side of the mount.

10) Using 600 grit wet abrasive paper stretched across a grinding wheel for removing the bottom layer and exposing as many mineral grains as possible. Follow with 1000 grit paper.

11) Start polishing with 15A oil based diamond paste on a polishing paper fixed to a lap. Using paper instead of cloth minimizes relief.

12) Next use 6 A diamond polish on a similar lap.

13) Finally polish the sample with 1A oil based diamond past on polishing paper. Followed by .05 μ alumina in water suspension. The quality should be checked after each step. Typical polishing times are 30 minutes for 15μ, 20 minutes for 6μ, 15 minutes for 1μ and 10 minutes for .05μ.

NOTE: Use low speed on the polishing laps to avoid "plucking" of sample grains.

14) Samples should be completely cleaned in an ultrasonic cleaner with isopropyl alcohol or similar solvent to remove oil and finger prints.

15) To ensure that no particles of arsenic are being cross contaminated with sample preparation procedures, a blank (epoxy only) mold will be made every 50th sample following all of the above procedures. This mold will then be speciated along with the other samples.

16) Each sample be carbon coated. Once coated the samples should be stored in a clean, dry environment with the carbon surface protected from scratches or handling.

POINT COUNTING

Counts are made by traversing each sample from left-to-right and top-to-bottom. The amount of vertical movement for each traverse would depend on magnification and CRT (cathode-ray

tube) size. This movement should be minimized so that NO portion of the sample is missed when the end of a traverse is reached. Two magnification settings should be used. One ranging from 40-1 OOX and a second from 300-60OX. The last setting will allow one to find the smallest identifiable (1-2 micron) phases.

The portion of the sample examined in the second pass, under the higher magnification, will depend on the time available, the number of arsenic-bearing particles, and the complexity of metal mineralogy. A maximum of 8 hours will be spent per sample.

INVITRO PROCEDURE

Bioavailabilty was conducted using the method developed at the University of Colorado, Boulder and calibrated to EPA's Region VIII Swine Model Medlin and Drexler, 1996, Medlin, 1997, Drexler, 1997. The method has a high level of correlation to the Swine Model for lead (r-0.96), however, at present the correlation for arsenic is not as good (r-0.82). Based on these data it is recommended that one interpret arsenic bioavailability results with greater caution.

The method follows a carefully designed laboratory SOP, which is available on request. The procedure uses 1.0 grams of the <250/.tm size fraction, this material is placed in 125ml wide-mouth HDPE bottles along with 100ml of 1.5 pH stomach solution. The mixture is rotated end-on-end at 37 degrees C in a water bath for one hour. After one hour 10 ml of sample is removed, filtered (0.454m), and analyzed for lead and/or arsenic following Methods 601 OB, 6020, or 706 IA. Results from this extraction procedure are then used to calculated bioavailable lead and/or arsenic from the bulk <250jzm concentrations.

PRECISION AND ACCURACY

The precision of the EMPA data will be determined based on sample duplicates run every 20 samples. The accuracy of the analysis will be estimated from a statistical evaluation of point counting data based on the method of Mosimann (1965).

Quantitative elemental analysis, primarily performed on slag or other phases that have variable metal contents, will have precision and accuracy evaluated on counting statistics and standard reproducibility.

Quality control for the in vitro bioavailability procedure will consist of:

Regent Blank 1: 10
Bottle Spike 1:20
Blank Spike 1:20
Duplicate Sample 1: 10
Matrix Spikes 1: 10
LCS 1:20

TECHNICAL MEMORANDUM

SYNTHETIC PRECIPITATION LEACHING PROCEDURE (SPLP) ARSENIC SAMPLING

SPRING VALLEY OPERABLE UNIT 3 AND 4
WASHINGTON, DC

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT



Prepared by:

PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030

JANUARY 25, 2002

1.0 INTRODUCTION

1.0.1 The purpose of this Technical Memorandum is to discuss the results of the Synthetic Precipitation Leaching Procedure (SPLP) arsenic study for the Spring Valley investigation. The SPLP sampling was performed in support of the Operable Unit (OU) 3 Engineering Evaluation/Cost Analysis (EE/CA) and the OU-4 Remedial Investigation/Feasibility Study (RI/FS). The objective is to help evaluate the potential leachability of arsenic from the soil to groundwater. Specifically, the objective is to determine the concentration of arsenic in soil that, upon leaching from soil to groundwater, will not result in an arsenic concentration that exceeds the groundwater Maximum Contaminant Level (MCL).

2.0 BACKGROUND

2.0.1 In November 1999, Parsons collected surficial soil samples from a grid system that overlaid the property at 4801 Glenbrook Road, adjacent to American University (AU). This grid covered the area between the former location of circa 1918 buildings associated with the Former American University Experiment Station (AUES) and the two disposal pits (Anomalies 1 and 2) of the OU-3 investigation. The grid also covered those areas where elevated levels of arsenic were detected in the surficial soils during United States Environmental Protection Agency (USEPA) soil sampling events. The objective of the November 1999 sampling event was to determine the presence of localized areas containing elevated levels of arsenic.

2.0.2 On February 22 through 24, 2000 and May 8 and 9, 2000, Parsons collected additional soil samples at 4801 Glenbrook Road in support of the OU-3 EE/CA. SPLP samples were collected from grids of 4801 Glenbrook during the May 2000 event. All sampling for the OU-3 EE/CA was performed in accordance with *Change 05, Revised Sampling and Analysis Plan, 4801 Glenbrook Road, May 2000*. Five different soil types were represented by all the SPLP samples collected.

2.0.3 The RI/FS investigation addresses Spring Valley Operable Unit 4 (OU-4). As part of this investigation, grid soil sampling was performed by Parsons ES on a portion of the AU campus designated AU Lot 12. AU Lot 12 contains the Child Development Center (CDC). The sampling was performed to determine the extent and concentrations of arsenic (As) in surface soils on AU Lot 12 and the CDC. All sampling at the CDC was performed in accordance with the Work Management Plan (WMP) for OU-4, (*Parsons ES, August 14, 2000,* and Amendment 1 to the WMP *(February 19, 2001).*

2.0.4 The 4801 Glenbrook Road property and the CDC are approximately 400 feet apart.

3.0 SPLP METHODS

3.0.1 According to USEPA guidance (USEPA, 1996), a leach test may be more useful than a soil/water partition equation, depending on the constituents of the soil. This guidance suggests using the USEPA SPLP method (USEPA, 1994) which is appropriate for a contaminated soil scenario. The procedure is more appropriate to help evaluate the potential leachability of arsenic from the soil to groundwater.

3.0.2 USEPA guidance (USEPA, 1995) states that the SPLP was originally designed as an alternative to the Toxicity Characteristic Leaching Procedure (TCLP). Like the TCLP, the SPLP is designed to determine the mobility of both organic and inorganic contaminants contained in wastes. The SPLP is intended to simulate the effect of acid rain on land-disposed wastes. The specific procedures for conducting the test are similar in many ways to the procedures employed for the TCLP (e.g., where solids are being tested, particle size must be reduced and a liquid extract obtained using a leaching medium). The primary difference between the two tests is the composition of the leaching medium. While the TCLP relies on extraction fluids that simulate the organic acids that would form from decomposing wastes in a landfill, the SPLP requires the use of extraction fluids that simulate acid rain.

4.0 SAMPLE COLLECTION

4.0.1 Parsons collected soil samples at 4801 Glenbrook Road on May 8 and 9, 2000. Of the samples collected, 38 were designated for SPLP analysis. SPLP samples from varying depths were collected from eleven grids at 4801 Glenbrook as shown on Figure 1-1. Table 1.1 indicates the sample designation, or identification number, and depth of each of these 38 samples along with the 4 duplicate samples, for a total of 42 samples. Sample depth was important for arsenic vertical extent determinations; SPLP results were not expected to be a function of depth.

4.0.2 On January 4 and 5, 2001, surface samples were collected from the grids located at AU Lot 12 and the grids at the CDC and submitted for arsenic (As) analysis. On February 21, 2001, composited 0-2 foot intervals from the grids with the highest 5% of As concentrations (4 total samples) within the CDC were analyzed for SPLP arsenic. These four samples were collected from the center of the grid where the original surface sample was taken. The locations of these samples are shown on Figure 1-2 (note that the structures in the playground shown in Figure 1-2 were removed following remediation of this area).

4.0.3 The soil types and sample descriptions are indicated on Table 1.2. The soil type/description is provided since the physical characteristics of the soils may affect leachability (e.g., clay soils are usually less susceptible to leaching than sandy soils). However, SPLP samples were collected based on arsenic content, not specific soil types; no correlation is drawn between samples from different soil types and the SPLP results. For the 4801 samples, only the samples that had detectable SPLP arsenic are shown.

5.0 RESULTS AND UNCERTAINTY DISCUSSION

5.0.1 SPLP results are shown in Table 1.1. The CDC arsenic results are from discrete samples collected from 0-6 inches while the SPLP result is a composite of 0-24 inches from that same location. Of the 46 samples (43 samples and 3 duplicates) analyzed for SPLP As, 39 samples did not contain detectable amounts of leachable arsenic. Of the seven samples that contained detectable leachable arsenic, two were from the CDC and five were from 4801 Glenbrook soil.

5.0.2 The objective of the study is to determine the concentration of arsenic in soil that, upon leaching from soil to groundwater, will not result in an arsenic concentration that exceeds the groundwater Maximum Contaminant Level (MCL). Six of the seven samples (total arsenic of 11.5, 25.9, 16, 66.2, 217, and 668 mg/kg) with detectable arsenic in leachate had a high correlation between soil concentration and leachability. The correlation coefficient for these six samples is 0.99. When the seventh detected sample (total arsenic of 498 mg/kg) is included in

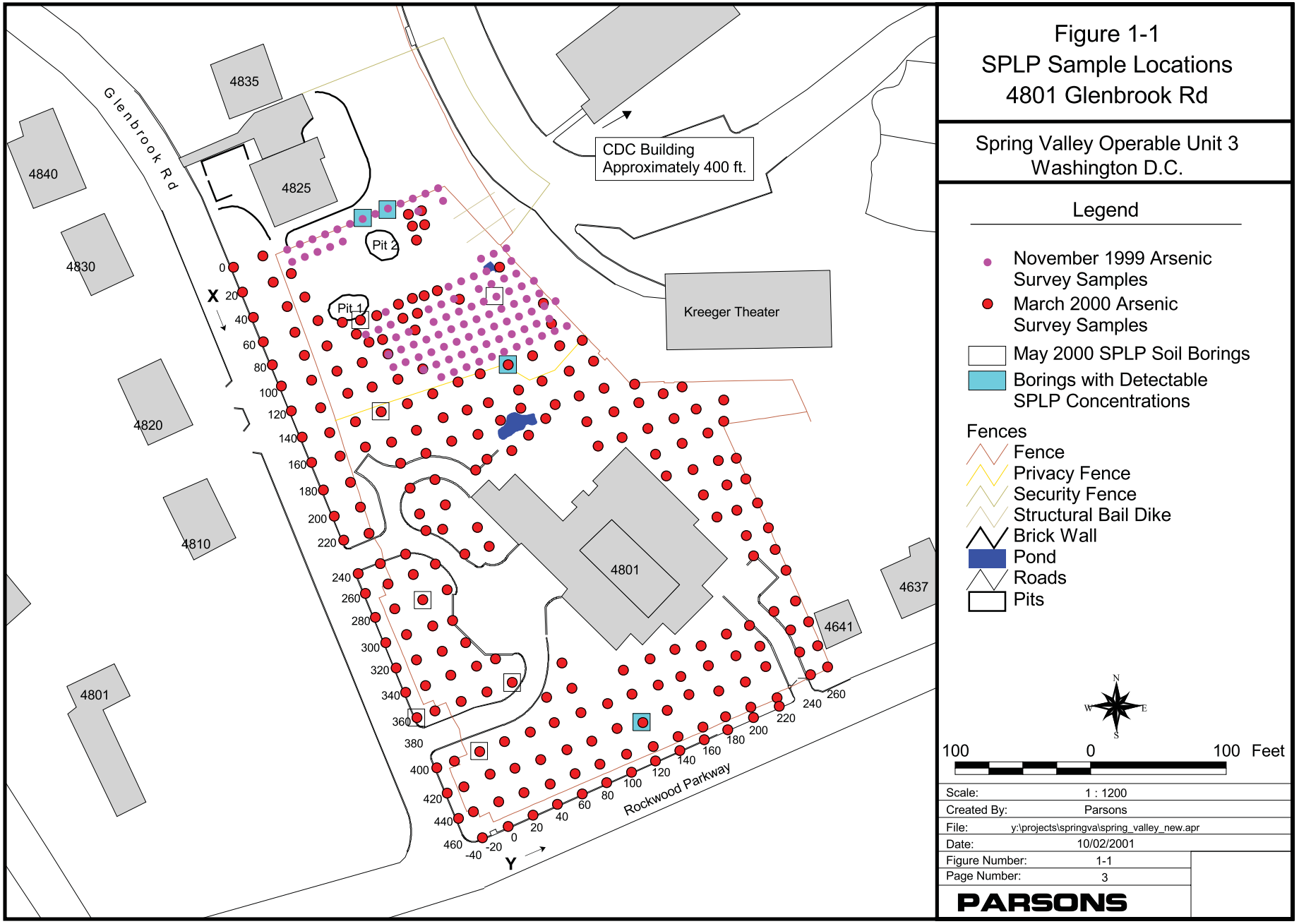


Figure 1-1
SPLP Sample Locations
4801 Glenbrook Rd

Spring Valley Operable Unit 3
Washington D.C.

Legend

- November 1999 Arsenic Survey Samples
- March 2000 Arsenic Survey Samples
- May 2000 SPLP Soil Borings
- Borings with Detectable SPLP Concentrations

Fences
- Fence
- Privacy Fence
- Security Fence
- Structural Bail Dike
- Brick Wall
- Pond
- Roads
- Pits

N
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S

100 0 100 Feet

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Page Number:	3

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Table 1.1
SPLP Results for 4801 Glenbrook Road and CDC Sampling
Spring Valley Operable Units 3 and 4

SAMPLE ID[1]	COLLECTION DATE	MATRIX	SAMPLE LOCATION	DEPTH (ft)	PARAMETER		SOIL TYPE
					Arsenic mg/kg	Arsenic (SPLP) µg/L	
OU3-MTLSB-70,40	5/8/2000	Soil	70,40	0 - 2	14.2 J[1]	50 U[1]	ULMg
OU3-MTLSB-70,40	5/8/2000	Soil	70,40	2 - 4	4.7 J	50 U	ULMg
OU3-MTLSB-90,140	5/8/2000	Soil	90,140	0 - 2	25.7 J	50 U	ULMg
OU3-MTLSB-90,140	5/8/2000	Soil	90,140	2 - 4	5.0 J	50 U	ULMg
OU3-MTLSB-0,90[2]	5/9/2000	Soil	90,140	2 - 4	2.9	50 U	ULMg
OU3-MTLSB-90,140	5/8/2000	Soil	90,140	4 - 6	2.9 J	50 U	Sapr
OU3-MTLSB-0,100	5/8/2000	Soil	0,100	0 - 2	66.2 J	9.7 J	ULSC
OU3-MTLSB-0,100	5/8/2000	Soil	0,100	2 - 4	14.5 J	50 U	ULSC
OU3-MTLSB-0,100	5/8/2000	Soil	0,100	4 - 6	11.5 J	4.7 J	Sapr
OU3-MTLSB-140,20	5/8/2000	Soil	140,20	0 - 2	4.8 J	50 U	ULMg
OU3-MTLSB-140,20	5/8/2000	Soil	140,20	2 - 4	6.5 J	50 U	ULMg
OU3-MTLSB-0,70[2]	5/8/2000	Soil	140,20	2 - 4	6.3	--	ULMg
OU3-MTLSB-140,20	5/8/2000	Soil	140,20	4 - 6	2.8 J	50 U	ULMg
OU3-MTLSB-140,120	5/8/2000	Soil	140,120	0 - 2	25.9 J	6.3 J	ULB
OU3-MTLSB-140,120	5/8/2000	Soil	140,120	2 - 4	7.9 J	50 U	ULB
OU3-MTLSB-140,120	5/8/2000	Soil	140,120	4 - 6	4.3 J	50 U	ULB
OU3-MTLSB-70,100[2]	5/8/2000	Soil	140,120	4 - 6	2.6	50 U	ULB
OU3-MTLSB-0,80	5/9/2000	Soil	0,80	0 - 2	668	143 J	ULSC
OU3-MTLSB-0,80	5/9/2000	Soil	0,80	2 - 4	12.1	50 U	ULSC
OU3-MTLSB-0,80	5/9/2000	Soil	0,80	4 - 6	6.5	50 U	Sapr
OU3-MTLSB-280,0	5/9/2000	Soil	280,0	0 - 2	2.6	50 U	ULMg
OU3-MTLSB-280,0	5/9/2000	Soil	280,0	2 - 4	2.9	50 U	ULMg
OU3-MTLSB-280,0	5/9/2000	Soil	280,0	4 - 6	2.3	50 U	Sapr
OU3-MTLSB-360,-40	5/9/2000	Soil	360,-40	0 - 2	1.7	50 U	ULMg
OU3-MTLSB-360,-40	5/9/2000	Soil	360,-40	2 - 4	4.0	50 U	ULMg
OU3-MTLSB-360,-40	5/9/2000	Soil	360,-40	4 - 6	1.1	50 U	ULMg
OU3-MTLSB-360,-40	5/9/2000	Soil	360,-40	6 - 8	1.8	50 U	Sapr
OU3-MTLSB-360,-40	5/9/2000	Soil	360,-40	8 - 10	2.3	50 U	Sapr
OU3-MTLSB-70,70[2]	5/9/2000	Soil	360,-40	8 - 10	1.7	50 U	Sapr
OU3-MTLSB-360,-40	5/9/2000	Soil	360,-40	10 - 12	1.5	50 U	Sapr
OU3-MTLSB-360,40	5/9/2000	Soil	360,40	0 - 2	4.4	50 U	ULMg
OU3-MTLSB-360,40	5/9/2000	Soil	360,40	2 - 4	1.3	50 U	ULMg
OU3-MTLSB-360,40	5/9/2000	Soil	360,40	4 - 6	1.3	50 U	Sapr
OU3-MTLSB-360,40	5/9/2000	Soil	360,40	6 - 8	1.5	50 U	Sapr
OU3-MTLSB-360,40	5/9/2000	Soil	360,40	8 - 10	2.6	50 U	Sapr
OU3-MTLSB-360,40	5/9/2000	Soil	360,40	10 - 12	1.5	50 U	Sapr
OU3-MTLSB-400,0	5/9/2000	Soil	400,0	0 - 2	2.4	50 U	ULMg
OU3-MTLSB-400,0	5/9/2000	Soil	400,0	2 - 4	1.6	50 U	ULMg
OU3-MTLSB-400,0	5/9/2000	Soil	400,0	4 - 6	1.5	50 U	Sapr
OU3-MTLSB-420,120	5/9/2000	Soil	420,120	0 - 2	6.2	50 U	ULMg
OU3-MTLSB-420,120	5/9/2000	Soil	420,120	2 - 4	16.0	6.4 J	ULMg
OU3-MTLSB-420,120	5/9/2000	Soil	420,120	4 - 6	4.8	50 U	ULMg
OU4-CDC-(130,140)[3]	2/21/2001	Soil	130,140	0 - 2	278	50 U	ULMg
OU4-CDC-(140, 160)[3]	2/21/2001	Soil	140, 160	0 - 2	217	32.7 J	ULMg
OU4-CDC-(150, 140)[3]	2/21/2001	Soil	150, 140	0 - 2	498	871	Mg
OU4-CDC-(160, 150)[3]	2/21/2001	Soil	160, 150	0 - 2	246	50 U	ULB
CDC-TCRA (140,120)-11	9/12/2001	Soil	140,120	10.5-11	4.6 U	50 U	Sapr

[1] U = nondetect; J = estimated value

[2] - Duplicate Sample.

[3] - Total arsenic samples at the CDC were collected on 01/05/2001, at a depth of 0-6".

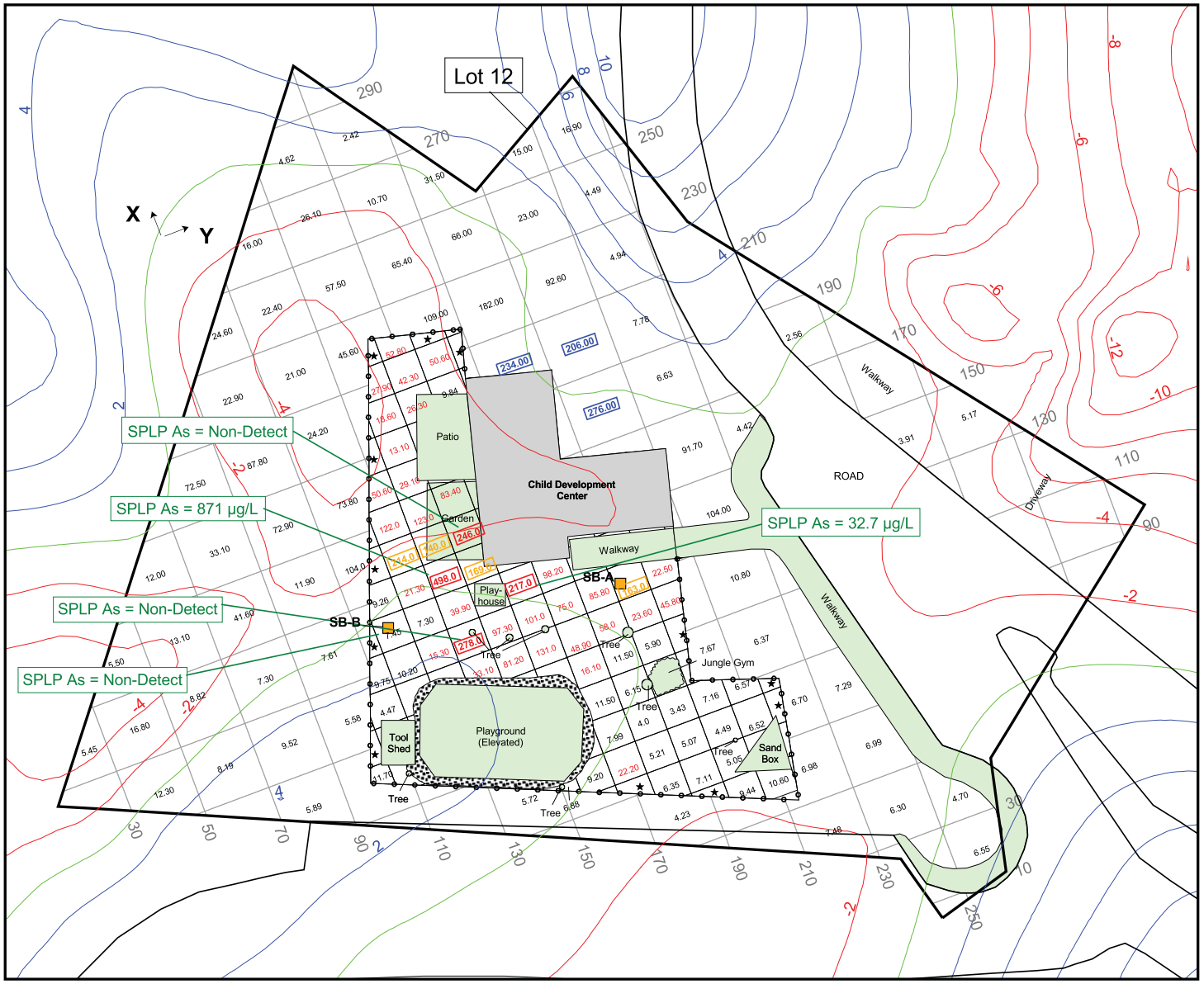


Figure 1-2
Grid Sample Results and SPLP Locations
Child Development Center / AU Lot 12

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring Locations
- Cut and Fill, 1917-2000 (2 foot contours)
  - Level
  - Fill
  - Cut
- Fence
- AU Lot 12
- 10' Grid
- 20' Grid
- Physical Obstruction (Grid could not be sampled)
- Gravel
- ★ Sample Collected Outside Fence in 20' AU Lot 12 Grid

Note:
Sample results are Arsenic in Parts per Million.
Results in red are over 13 ppm inside the CDC.

- 498.0 The highest 5% arsenic levels inside the CDC
- 276.0 The 3 highest arsenic values outside the CDC
- 163.0 The next 5% highest arsenic values

30 0 30 Feet

1 inch = 30 feet

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Table 1.2
Soil Types for CDC Samples and 4801 Detectable SPLP As Samples
Spring Valley Operable Units 3 and 4

OU4-CDC-(130,140)	Reddish brown to rusty brown clay with sand grains/quartz.	**Urban Land Manor Glenelg (ULMg)**
OU4-CDC-(140,160)	Brown to yellow brown clay	**Urban Land Manor Glenelg (ULMg)**
OU4-CDC-(150,140)	Brown to tan silty sand.	**Manor Glenelg (Mg)**
OU4-CDC-(160,150)	Brown silty sand with some quartz and rocks	**Urban Land Brandywine (ULB)**
OU3-MTLSB-0,100 (0-2')	Brown clay with pebbles.	**Urban Land Sassafras Chillum (ULSC)**
OU3-MTLSB-0,100 (4-6')	Brown sandy clay to weathered rock with mica and remnant structures.	**Saprolite**
OU3-MTLSB-140,120 (0-2')	Dark brown silty sand to brown clayey sand.	**Urban Land Brandywine (ULB)**
OU3-MTLSB-0,80 (0-2')	Brown silty soil with quartz to brown clay	**Urban Land Sassafras Chillum (ULSC)**
OU3-MTLSB-420,120 (2-4')	Black wet fine silt. Silt from stream.	**Urban Land Manor Glenelg (ULMg)**

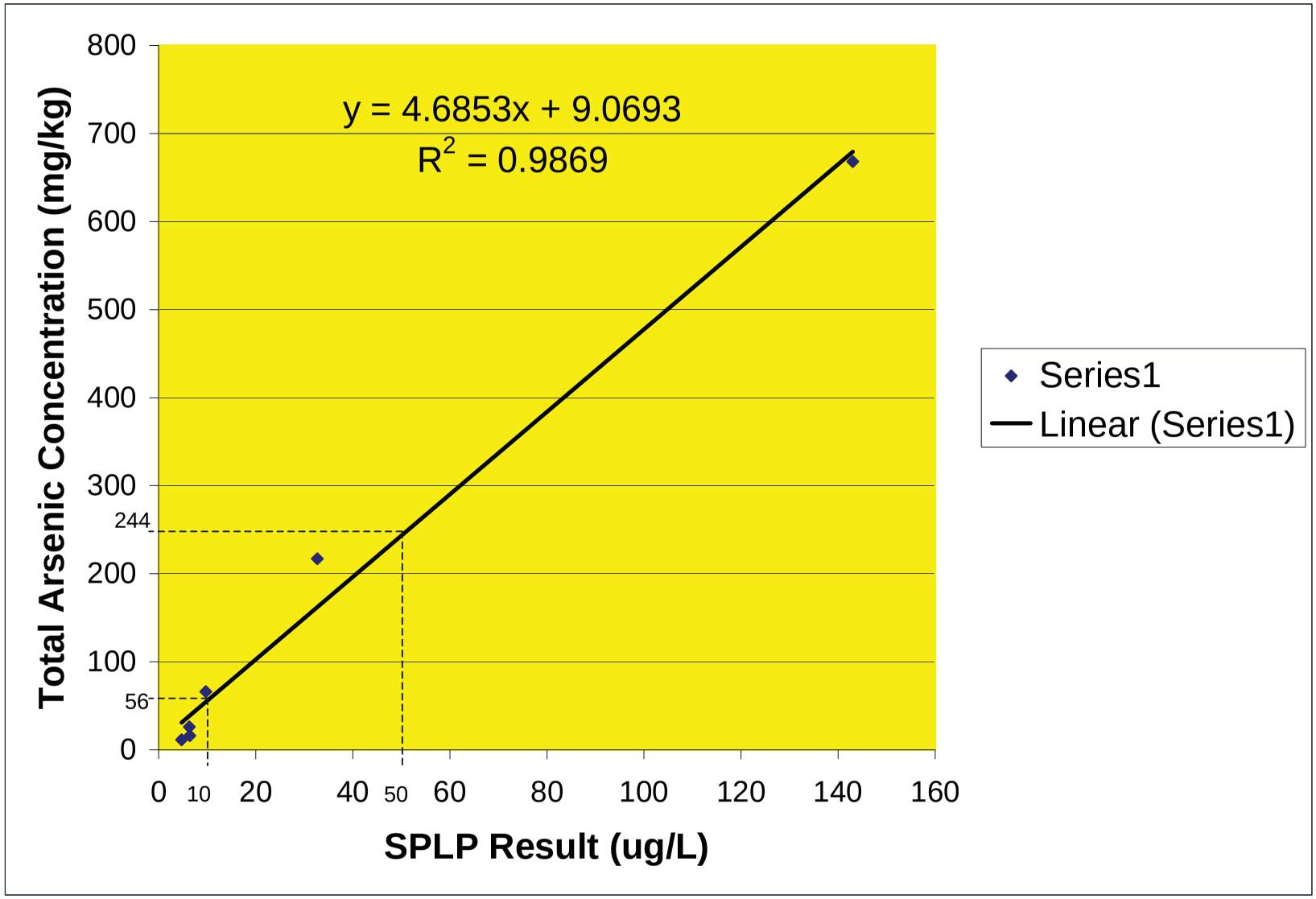
the data set the correlation coefficient drops to 0.36. It is not known why the results of this sample resulted in such an anomalously high leachate concentration (i.e., 871 ug/L). A possible explanation may be that this sample was Manor Glenelg soil, which in general has a higher sand content and thus may leach arsenic more readily. However, the field description did not indicate a particularly sandy specimen and there are not enough samples collected from this soil type to make this determination. As shown in Figure 1-3, the linear regression equation ($y = 4.69X + 9.07$, where y = soil concentration in mg/kg and x = predicted leachate concentration in ug/L) produced by the other six samples results in an estimated leachate concentration of only 104 ug/L from a soil concentration of 498 mg/kg.

5.0.3 Using the linear regression equation from the six samples with high correlation indicates that concentrations in soils up to 244 mg/kg would not result in an exceedance of the MCL of 50 ug/L. Using these data, the highest measured concentration that did not produce an SPLP result that exceeded the MCL was 217 mg/kg.

5.0.4 Figure 1-4 indicates that if the anomalously high SPLP result is used, the response is no longer linear. In this case, the data indicate that the highest arsenic concentration that did not exceed the MCL of 50 ug/L was 217 mg/kg.

5.0.5 One uncertainty to address is the reduction of the MCL in the near future (http://www.epa.gov/epahome/headline_110101.htm). A revised MCL of 10 ug/L was proposed in the Federal Register (66 FR 6975) on January 22, 2001, and subsequently delayed on March 23, 2001 (66 FR 16134). The USEPA announced on October 31, 2001 in a letter to a congressional committee that this change will be made; the effective date for this rule change will not be known until formal notice appears in the Federal Register. Based on this, the data were re-evaluated using the methods discussed above. Using the linear regression equation from the six samples with high correlation results in a calculated soil concentration of 56 mg/kg to reach the MCL of 10 ug/L (Figure 1-3). Using all the data points (non-linear response shown on Figure 1-4), the highest measured concentration that did not produce an SPLP result that exceeded the MCL of 10 ug/L was 66.2 mg/kg.

Figure 1-3
(High SPLP result discarded)



5.0.6 An additional uncertainty involves the qualification of some of the total arsenic data following the validation process. Some data were flagged as estimated (J) either because the reported value was less than the practical quantitation limit or some other minor QC problem was identified. However, 'J' flagged data are still considered usable for most decision-making purposes.

5.0.7 Finally, the recommendations are based on the assumption of removal actions for arsenic contaminated soil (greater than 20 mg/kg). Arsenic in soil greater than 217 mg/kg or 66.2 mg/kg that has been present for many years may require a groundwater investigation to determine whether leaching of arsenic in significant concentrations has occurred.

6.0 CONCLUSION

6.0.1 USEPA Method 1312, SPLP, was used to evaluate the potential for arsenic to leach from soils into ground and surface water. This method is intended to provide a realistic assessment of metal mobility under actual field conditions, (i.e., when it snows or rains). A total of 46 samples (42 original samples and 4 from the CDC) were collected and subjected to the procedure. Of these 46 samples, only seven resulted in detectable concentrations of arsenic in the leachate.

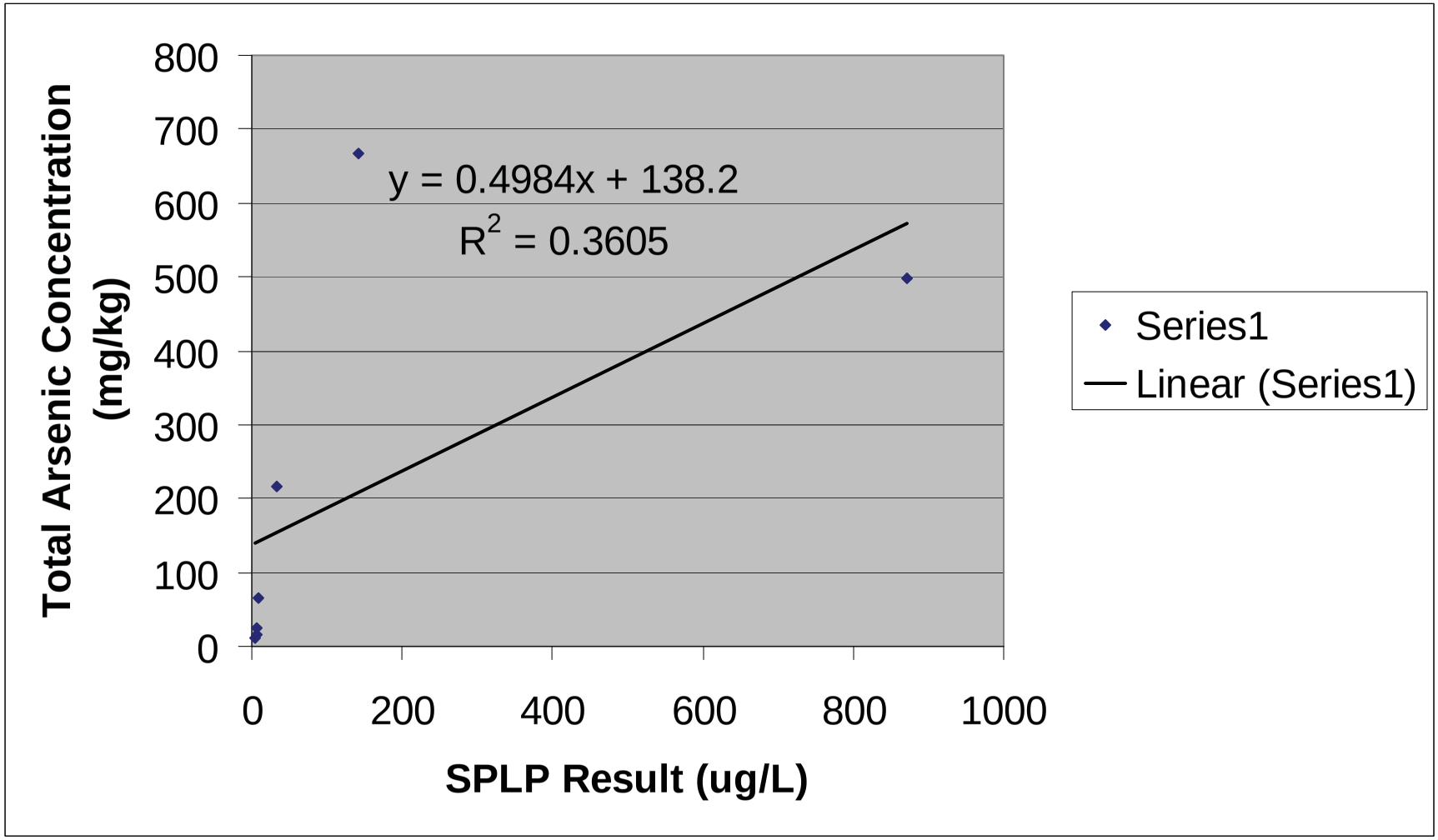
6.0.2 Using all the data points, a soil concentration of 217 mg/kg arsenic was the highest that did not exceed the 50 ug/L MCL. Using all the data points, a soil concentration of 66.2 mg/kg arsenic was the highest that did not exceed the proposed 10 ug/L MCL.

6.0.3 Using the linear regression equation from the six samples with high correlation indicates that concentrations in soils up to 244 mg/kg would not result in an exceedance of the MCL of 50 ug/L. Using the same linear regression equation from the six samples with high correlation, a soil concentration of up to 56 mg/kg would not exceed the proposed MCL of 10 ug/L.

6.0.4 In conclusion, it is recommended that a concentration of 217 mg/kg arsenic in soil be used to screen soil samples for protection of groundwater with an MCL of 50 ug/L. When the MCL is lowered to 10 ug/L, a concentration of 66.2 mg/kg is recommended for screening purposes. These screening concentrations suggest that arsenic leaching to groundwater does not appear to be a significant pathway since the screening concentrations for protection of groundwater are greater than the current screening concentrations proposed for direct contact with soil pathway (i.e., 23.5 mg/kg) or the remediation endpoint developed by the Spring Valley Partners (20 mg/kg). It is further recommended that the screening concentrations be applied to all soil types since the background data (as described in other Spring Valley investigations) indicate little difference between arsenic concentrations among the four soil types.

6.0.5 Please note that the arsenic SPLP findings were not relied upon to make Spring Valley project decisions. Neither the 12.6 ppm arsenic screening level nor the 20 ppm arsenic remediation endpoint was based on the results of this study. Also note that a groundwater investigation will be performed to obtain site-specific data to characterize whether arsenic has leached to the groundwater from site soils.

Figure 1-4
(Using all data points)



7.0 REFERENCES

USEPA, 1996. Soil Screening Guidance: User's Guide, Publication 9355.4-23, Washington, D.C.

USEPA, 1995. Technical Background Document Supporting the Supplemental Proposed Rule Applying Phase IV Land Disposal Restrictions to Newly Identified Mineral Processing Wastes, Washington, DC.

USEPA, 1994. Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846), Third Edition, Revision 2, Washington, DC.

USACE, 1999. Final Site Safety Submission, Volume I Work Plan, Spring Valley Operable Unit 3, Washington D.C., (SSS) (*Parsons ES, March 1999).*

USACE, 2000. Change 05 to the Site Safety Submission, Revised Sampling and Analysis Plan, 4801 Glenbrook Road, *May 2000*.

USACE, 2000. Work Management Plan (WMP) for OU-4, (*Parsons ES, August 14, 2000,* and Amendment 1 to the WMP *(February 19, 2001).*

REPORT OF ANALYTICAL RESULTS -

American University Experiment Station (AUES)
List Of Chemicals

3819 48th STREET, 4710 QUEBEC STREET, 4625 ROCKWOOD PARKWAY AND 4633 ROCKWOOD PARKWAY

SPRING VALLEY OPERABLE UNIT 4,
WASHINGTON, D.C.

TASK ORDER TO NATIONAL GUARD BUREAU
CONTRACT NO. DAHA90-94-D-0010, TASK ORDER DA01
DERP-FUDS HTRW PROJECT NUMBER C03DC091802

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Prepared By:

PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030

This document was originally published on MAY 8, 2002
but has since been updated with revised RBC data.

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Overview

In accordance with the *Revised Final Work Management Plan for Follow-on Sampling for OU-4 Residential Lots, Amendment 2 (Parsons, April 2001),* Parsons collected soil samples from four OU-4 residences to assess for the presence of the American University Experiment Station (AUES) list of chemicals. The effort included three AUES List samples each from 4710 Quebec Street, 4625 Rockwood Parkway, and 4633 Rockwood Parkway, and four AUES List samples from 3819 48th Street, for a total of 13 AUES List samples. All samples were analyzed by the Southwest Research Institute (SwRI), with the exception of mustard and adamsite, which were analyzed by the US Army's Edgewood Chemical and Biological Center (ECBC) Laboratory. This submittal is organized as follows:

Figure 1 shows the sample locations and the **Analytical Plan table** shows the number and depths of the samples. The results are compiled on five tables.

Table 1 is the comprehensive list of compounds analyzed. These include the routine Target Compound List and Target Analyte List constituents and the Chemical Warfare Materiel (CWM) compounds and CWM breakdown products that were analyzed to make determinations of whether the AUES List chemicals were present. Therefore, the table contains all compounds analyzed, whether they were actually on the AUES list or not.

Table 1A is the comprehensive list detections. It is a subset of Table 1. These are the compounds shown on Table 1 that were present in concentrations above the detection limit.

Table 2 is the AUES list of compounds. It is also a subset of Table 1, showing the results for those AUES chemicals that could be directly analyzed. Additionally, CWM breakdown products and the indicator compounds used in Table 3, although not actually AUES list compounds, are included. They are indicated on the table as either a 'breakdown product' or 'indicator' compound.

Table 2A is the AUES list detections. It is a subset of Table 2. These are the compounds shown on Table 2 that were present in concentrations above the detection limit. Additionally, CWM breakdown products and the indicator compounds, although not actually AUES list compounds, are included.

Table 3 is the AUES list scan results. These are the AUES chemicals that did not have routine analytical methodologies. The presence or absence of these chemicals was inferred by the presence or absence of indicator compounds for each AUES chemical.

RBC Key contains the rationale for the RBCs shown for those chemicals that did not have RBCs.

Attachment A contains the Quality Assurance or Data Validation Report of the sampling effort.

Attachment B contains the AUES Chemicals list and the organization of the analytical effort, i.e., which compounds could be analyzed and by what methods (presented at the end of the Sedgwick Trench section).

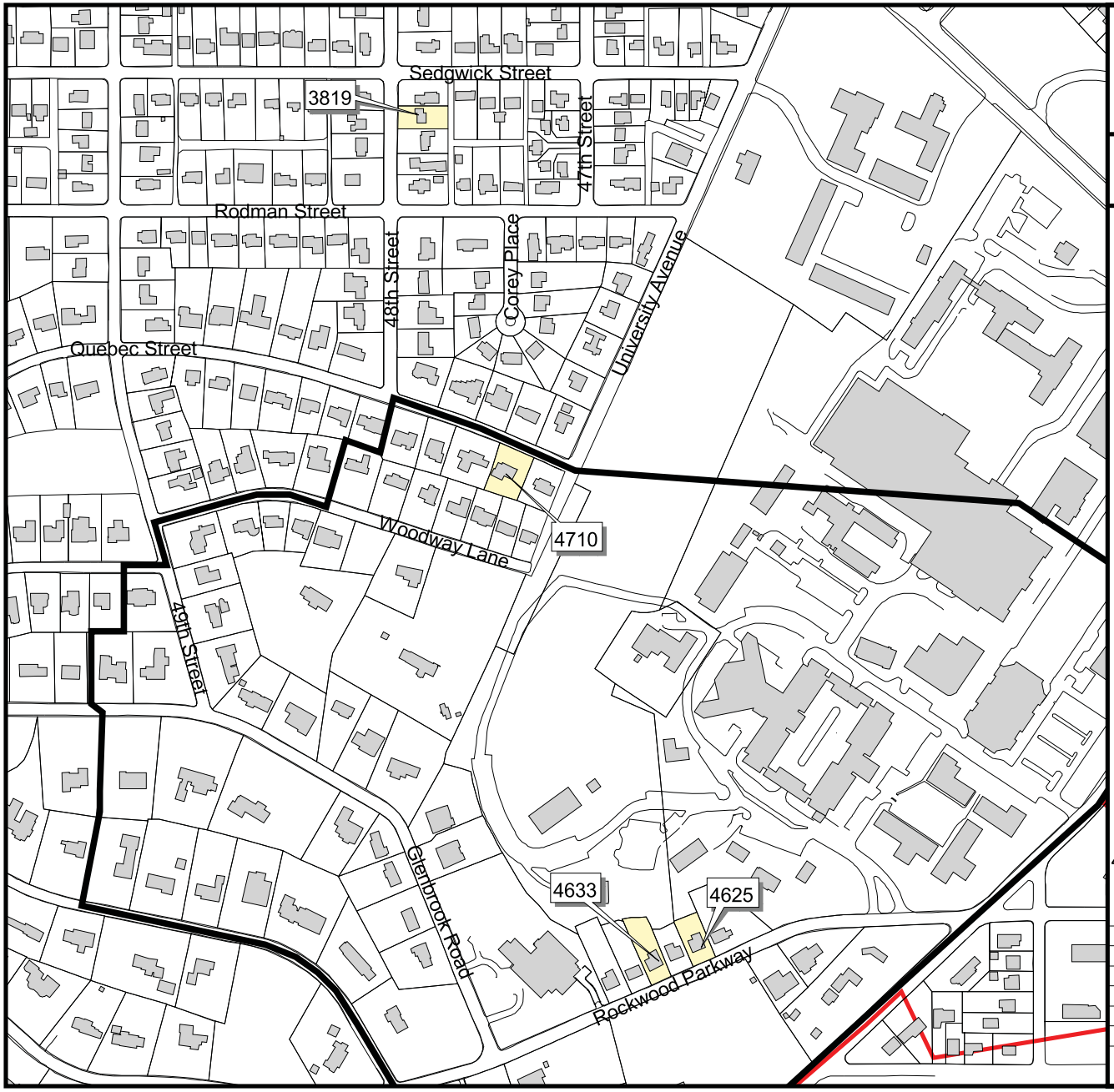


Figure 1
AUES List of Chemicals Sample Locations

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Operable Unit 4
- Roads
- Buildings
- Parcels
- AUES Sample Locations
- SV Boundary

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400 0 400 Feet

1 inch = 400 feet

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Spring Valley OU-4
Selected OU-4 Residences
AUES List Analytical Plan

	Location	Depth (inches)	No. of Sx Collected	TAL Metals	TCL VOCs	TCL SVOCs	CWM/ ABPs	AUES List
Property								
3819 48th Street	\a	9-15	4	X	X	X	X	X
4710 Quebec Street	\b	0-6	3	X	X	X	X	X
4625 Rockwood Parkway	\c	0-6	3	X	X	X	X	X
4633 Rockwood Parkway	\d	0-6*	3	X	X	X	X	X
Totals	13		13	13	13	13	13	13

\a one sample in each of four quadrants.
\b one sample each in quadrants 1, 3, and 4.
\c two samples in quadrant 3, one in quadrant 4.
\d one sample each in quadrant 1, 2, and at the original boring location.
* 4633RP-SB was 0-12"

Notes:

CWM/ABPs = Includes Adamsite, and Mustard and Lewisite Agent Breakdown Products (the two Rockwood Parkway properties did not get Mustard analysis).

Table 1

Comprehensive Sample Results for Selected OU-4 Residences

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)[1]																
Volatile Organic Compounds - SW8260B (UG/KG)																	
1,1,1-TRICHLOROETHANE	2,200,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,1,2,2,-TETRACHLOROETHANE	3,200	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	230,000,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,1,2-TRICHLOROETHANE	11,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,1-DICHLOROETHANE	780,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,1-DICHLOROETHENE	390,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,2,4-TRICHLOROBENZENE	78,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,2-DIBROMO-3-CHLOROPROPANE	460	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,2-DIBROMOETHANE	7.5	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,2-DICHLOROBENZENE	700,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,2-DICHLOROETHANE	7,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,2-DICHLOROPROPANE	9,400	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,3-DICHLOROBENZENE	230,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
1,4-DICHLOROBENZENE	27,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		4		4		4		3		8		6		6	
2-HEXANONE	310,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
ACETONE	780,000	N		27	J	27	J	28	J	27		56	J	39	J	57	J
ACETONITRILE	NA			5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
ACROLEIN	160,000	N		5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
BENZENE	12,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
BENZYL BROMIDE	NA			5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
BENZYL CHLORIDE	3,800	C		5	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
BROMODICHLOROMETHANE	10,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
BROMOFORM	81,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
BROMOMETHANE	11,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CARBON DISULFIDE	780,000	N		11		11		38	J	11		11		8		26	
CARBON TETRACHLORIDE	4,900	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CHLOROBENZENE	160,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CHLOROETHANE	220,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CHLOROFORM	78,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CHLOROMETHANE	NA			1	J	1	J	1	J	2		2		2		1	
CHLOROPICRIN	NA			27	U	27	U	28	U	25	U	25	U	24	U	26	U
CIS-1,2-DICHLOROETHENE	78,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CIS-1,3-DICHLOROPROPENE	6,400 ‡	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CYCLOHEXANE	470,000 ‡	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
DIBROMOCHLOROMETHANE	7,600	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
DICHLORODIFLUOROMETHANE	1,600,000	N		67	J	67	J	160	J	1	U	1	U	130	J	99	J
ETHYLBENZENE	780,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
ISOPROPYLBENZENE (CUMENE)	780,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
M&P-XYLENE	1,600,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
METHYL ACETATE	7,800,000	N		1.1	U	1.1	U	1.1	U	1	U	3		0.97	U	2	
METHYL TERT-BUTYL ETHER	160,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
METHYLCYCLOHEXANE	470,000 ‡	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
METHYLENE CHLORIDE	85,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
O-XYLENE	1,600,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
STYRENE	1,600,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[12]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)[11]																
TETRACHLOROETHENE	32,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
TOLUENE	1,600,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
TRANS-1,2-DICHLOROETHENE	160,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
TRANS-1,3-DICHLOROPROPENE	6,400 ‡	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
TRICHLOROETHENE	1,600	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
TRICHLOROFLUOROMETHANE	2,300,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
VINYL CHLORIDE	90	C		1.1	UJ	1.1	UJ	1.1	UJ	1	UJ	1	UJ	0.97	UJ	1	UJ
VOC Tentatively Identified Compounds (UG/KG)																	
1-HEXENE, 4-METHYL	NA				*		*		*		*		*		*		*
1-OCTANOL, 2,7-DIMETHYL-	NA				*		*		*		*		*		*		*
2,4-HEXANEDIONE (CAS# 3002-24-2)	NA				*		*		*		*		*		*	3	NJ
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)	NA				*		*	6	NJ	2	NJ	10	NJ	10	NJ	6	NJ
2-BUTENE, (Z)-	NA				*		*		*		*		*		*		*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)	NA				*		*		*		*		*		*		*
2-HEXENE, (Z)-	NA				*		*		*		*		*		*		*
2-OCTENE, (E)-	NA			50	NJ	30	NJ	60	NJ	20	NJ	20	NJ	10	NJ	10	NJ
ACETALDEHYDE (CAS# 75-07-0)	NA			10	NJ	5	NJ	6	NJ	4	NJ	20	NJ	10	NJ	7	NJ
ALCOHOL	NA				*		*		*		*		*		*		*
ALLYL ALCOHOL	NA				*		*		*		*		*		*		*
BENZALDEHYDE (CAS# 100-52-7)	780,000	N			*		*		*		*		*		*		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)	550,000	N			*		*		*		*		*		*		*
BENZENE, 1-METHYL-3-(1-METHYL	NA				*		*		*		*		*		*		*
BENZYL IODIDE	NA				*		*		*		*		*		*		*
BICYCLO 2.2.1 HEPTANE, 7,7-D	NA				*	6	NJ		*		*		*		*		*
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL	NA				*	10	NJ		*		*		*		*		*
BROMOACETONE	780,000 ‡	N			*		*		*		*		*		*		*
BROMOBENZENE	NA				*		*		*		*		*		*		*
BROMOMETHYL ETHER	NA				*		*		*		*		*		*		*
BUTANAL (CAS# 123-72-8)	NA				*		*		*		*		*		*		*
BUTANE	NA				*		*		*		*		*		*		*
BUTYL MERCAPTAN	NA				*		*		*		*		*		*		*
CARBON OXIDE SULFIDE (Carbonyl Sulfide, CAS# 463-58-1)	NA			8	NJ		*	6	NJ		*	10	NJ	8	NJ		*
CHLORINATED ACETONE	NA				*		*		*		*		*		*		*
CHLORINATED CARBON DISULFIDE	780,000 ‡	N			*		*		*		*		*		*		*
CHLOROACETONE	780,000 ‡	N			*		*		*		*		*		*		*
CHLOROACETONITRILE	NA				*		*		*		*		*		*		*
CHLOROMETHYL ETHER	NA				*		*		*		*		*		*		*
CHLOROMETHYL ETHYL ETHER	NA				*		*		*		*		*		*		*
CROTONALDEHYDE	340	C			*		*		*		*		*		*		*
CYCLOHEXENE, 1-METHYL-4-(1-METHYLTHENYL)-,®	NA				*		*		*		*		*		*		*
CYCLOPROPANE, 1,2-DIMETHYL-, TRANS	NA				*		*		*		*		*		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA				*	10	NJ		*	4	NJ	10	NJ	10	NJ	3	NJ
DODECANAL	NA				*		*		*		*		*		*		*
ETHANETHIOL	NA				*		*		*		*		*		*		*
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)	NA				*		*		*		*		*		*		*
ETHYL BROMOACETATE	7,000,000 ‡	N			*		*		*		*		*		*		*
ETHYL CHLOROFORMATE	NA				*		*		*		*		*		*		*
ETHYL DIBROMOACETATE	7,000,000 ‡	N			*		*		*		*		*		*		*
ETHYL MERCAPTAN	NA				*		*		*		*		*		*		*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)	NA			10	NJ	6	NJ	10	NJ	6	NJ		*		*		*
HEXANAL (CAS# 66-25-1)	NA			40	NJ	10	NJ	10	NJ	10	NJ	100	NJ	40	NJ	60	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)	NA				*		*	5	NJ		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[12]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)[11]																
HEXANAL, 5-METHYL- (CAS# 1860-39-5)	NA			7	NJ	*		*		3	NJ	10	NJ	6	NJ	3	NJ
HEXANE (CAS# 110543)	470,000	N		*		*		*		*		*		*		*	
METHYL BROMOACETATE	NA			*		*		*		*		*		*		*	
METHYL CHLOROACETATE	NA			*		*		*		*		*		*		*	
METHYL CHLOROFORMATE	NA			*		*		*		*		*		*		*	
METHYL CHLOROSULFONATE	NA			*		*		*		*		*		*		*	
NONANAL	NA			*		*		*		*		10	NJ			*	
OCTANAL (CAS# 124-13-0)	NA			8	NJ	*		*		4	NJ	20	NJ	6	NJ	4	NJ
OCTANE (CAS# 111-65-9)	NA			20	NJ	9	NJ	20	NJ	8	NJ	*		*		*	
PENTANAL ISOMER 1	NA			10	NJ	4	NJ	4	NJ	3	NJ	30	NJ	10	NJ	9	NJ
PENTANAL ISOMER 2	NA			*		*		*		*		*		6	NJ	*	
PENTANE (CAS# 109-66-0)	NA			*		*		*		*		*		*		*	
PERCHLOROMETHYLMERCAPTAN	NA			*		*		*		*		*		*		*	
PROPANAL, 2-METHYL-	NA			*		*		*		*		*		*		*	
PROPANE, 1,1-OXYBIS-'	NA			*		*		*		*		*		*		*	
THIOPHENE	NA			*		*		*		*		*		*		*	
TRICHLOROACETONITRILE	NA			*		*		*		*		*		*		*	
Semivolatile Organic Compounds - SW8270C (UG/KG)																	
1,2,4-TRICHLOROBENZENE	78,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
1,2-DICHLOROBENZENE	700,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
1,3-DICHLOROBENZENE	230,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
1,4-DICHLOROBENZENE	27,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2,4,5-TRICHLOROPHENOL	780,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2,4,6-TRICHLOROPHENOL	58,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2,4-DICHLOROPHENOL	23,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2,4-DIMETHYLPHENOL	160,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2,4-DINITROPHENOL	16,000	N		240	U	230	U	250	U	240	U	240	U	240	U	250	U
2,4-DINITROTOLUENE	16,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2,6-DINITROTOLUENE	7,800	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2-CHLORONAPHTHALENE (CAS# 91587)	630,000 ‡	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2-CHLOROPHENOL	39,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2-METHYLNAPHTHALENE (CAS# 91576)	160,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2-METHYLPHENOL	390,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
2-NITROANILINE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
2-NITROPHENOL	63,000 ‡	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
3,3-DICHLOROBENZIDINE'	1,400	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
3-NITROANILINE (CAS# 99092)	2,300	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
4,6-DINITRO-2-METHYLPHENOL	780	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
4-BROMOPHENYL-PHENYLETHER	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
4-CHLORO-3-METHYLPHENOL	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
4-CHLOROANILINE	31,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
4-CHLOROPHENYL-PHENYLETHER	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
4-METHYLPHENOL	39,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
4-NITROANILINE	32,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
4-NITROPHENOL	63,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
ACENAPHTHENE	470,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
ACENAPHTHYLENE	470,000 ‡	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
ANTHRACENE	2,300,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
BENZO[A]ANTHRACENE	870	C		82	U	78	U	83	U	81	U	81	U	62	J	12	J

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[12]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)[11]																
BENZO[A]PYRENE	87	C		82	U	78	U	83	U	81	U	81	U	28	J	84	U
BENZO[B]FLUORANTHENE	870	C		82	U	78	U	83	U	81	U	81	U	67	J	15	J
BENZO[G,H,I]PERYLENE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
BENZO[K]FLUORANTHENE	8,700	C		82	U	78	U	83	U	81	U	81	U	20	J	84	U
BENZOIC ACID	31,000,000	N		240	U	230	U	250	U	240	U	20	J	25	J	22	J
BENZYL ALCOHOL	2,300,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
BIS(2-CHLOROETHOXY)METHANE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
BIS(2-CHLOROISOPROPYL)ETHER	9,100	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		82	U	21	B	13	B	81	U	18	J	12	J	14	J
BUTYLBENZYLPHTHALATE	1,600,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
CARBAZOLE	32,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
CHRYSENE	87,000	C		82	U	78	U	83	U	81	U	81	U	30	J	84	U
DIBENZ[A,H]ANTHRACENE	87	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
DIBENZOFURAN	16,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
DIETHYLPHTHALATE	6,300,000	N		82	U	78	U	250	B	81	U	18	J	21	J	14	J
DIMETHYLPHTHALATE	78,000,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
DI-N-BUTYLPHTHALATE	780,000 ‡	N		25	B	23	B	26	B	29	B	33	B	24	B	32	B
DI-N-OCTYLPHTHALATE	160,000 ‡	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
FLUORANTHENE	310,000	N		82	U	78	U	83	U	81	U	12	J	67	J	17	J
FLUORENE	310,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
HEXACHLOROBENZENE	400	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
HEXACHLOROBUTADIENE	8,200	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
HEXACHLOROCYCLOPENTADIENE	47,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
HEXACHLOROETHANE	46,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
INDENO[1,2,3-CD]PYRENE	870	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
ISOPHORONE	670,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
NAPHTHALENE	160,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
NITROBENZENE	3,900	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
N-NITROSO-DI-N-PROPYLAMINE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
N-NITROSODIPHENYLAMINE	130,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
O-CHLORONITROBENZENE	26,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
PENTACHLOROPHENOL	5,300	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
PHENANTHRENE	NA			82	U	78	U	83	U	81	U	81	U	18	J	84	U
PHENOL	2,300,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
PHENYL HYDRAZINE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
PHENYL ISOCYANATE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
PHENYL ISOTHIOCYANATE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
PYRENE	230,000	N		82	U	78	U	83	U	81	U	11	J	56	J	14	J
SVOC Tentatively Identified Compounds (UG/KG)																	
.ALPHA.-LINDANE (CAS# 319846)	100 ‡	C			*		*		*		*		*	180	NJ		*
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA				*		*		*		*		*		*	130	NJ
13-OCTADECENAL	NA				*		*		*		*	1700	NJ		*		*
14-OCTADECENAL	NA				*	180	NJ		*		*		*		*		*
1-EICOSANOL	NA				*	190	NJ		*		*		*		*		*
1-OCTADECANOL	NA				*		*		*		*		*		*		*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N		130	NJ	280	NJ		*		*		*		*		*
5-EICOSENE, (E)-	NA				*		*		*		*		*		*		*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA				*		*		*		*		*		*	97	NJ

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[12]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)[11]																
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA				*		*		*		*	440	NJ		*	140	NJ
BENZENEETANOL, 4-HYDROXY-	NA				*		*		*		*		*		*		*
BENZOTRICHLORIDE	NA				*		*		*		*		*		*		*
BENZYL FLUORIDE	NA				*		*		*		*		*		*		*
CARBOXYLIC ACID ESTER	NA				*		*		*		*		*		*		*
DIPHENYLCHLOROARSINE	NA				*		*		*		*		*		*		*
DOCOSANE	NA				*		*		*		*		*		*		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)	16,000,000	N			*		*		*		*	240	NJ	240	NJ	220	NJ
HEPTADECANE	NA				*		*		*		*		*		*		*
HEPTADECANE, 9-OCTYL-	NA				*		*		*		*		*		*		*
HEXADECANOIC ACID (CAS# 57-10-3)	NA			110	NJ		*		*		*	670	NJ	140	NJ	160	NJ
NONACOSANE (CAS# 630-03-5)	NA				*		*		*		*		*	1000	NJ	1000	NJ
NONADECANE	NA				*		*		*		*		*		*		*
OCTACOSANE	NA				*		*		*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)	NA			260	NJ		*		*		*	4200	NJ	260	NJ	250	NJ
o-TOLYL ISOCYANIDE	NA				*		*		*		*		*		*		*
PENTADECANE, 8-HEXYL-	NA				*		*		*		*		*	590	NJ		*
PHENANTHRENE,9-METHYL-	NA				*		*		*		*		*		*		*
PHENYL ISOCYANIDE	NA				*		*		*		*		*		*		*
PHENYLDICHLOROARSINE	NA				*		*		*		*		*		*		*
TRICOSANE	NA				*		*		*		*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)																	
ALUMINUM	7,800	N	**25,798**	24800		27300		36300		26000		18400		21400		29700	
ANTIMONY	**3.1**	N	0.92	0.96	UL	1.1	UL	1.1	UL	1.1	UL	1.1	UL	1.1	UL	1.1	UL
ARSENIC	0.43	C	**12.64**	1.5		1.7		1.4		2.2		36.1		14		12	
BARIUM	**550**	N	298.28	121		156		168		124		69		98		168	
BERYLLIUM	**16**	N	2.35	1.8		1.9		2.4		2.1		1.2		1.6		1.9	
CADMIUM	**7.8**	N	0.32	0.48	U	0.56	U	0.57	U	0.55	U	0.56	U	0.56	U	0.54	U
CALCIUM	NA		**4,207**	707		705		1010		737		868		951		1320	
CHROMIUM	**12,000** ‡	N	97.20	45.6		53.7		192		80.4		46.5		53.3		62.5	
COBALT	**160**	N	22.26	19.5		22.1		27.9		27.6		14.2		21.1		25.7	
COPPER	**310**	N	47.76	28.3		48.7		36.9		48.7		35.4		61.9		116	
IRON	2,300	N	**31,951**	32300		36500		43900		38600		26400		28300		36600	
LEAD	**400** ‡		329.76	13.6		21.5		16.4		15.9		24.6		26.6		24.5	
MAGNESIUM	NA		**7,093**	11700	L	14000	L	22300	L	11700	L	8180	L	10100	L	13100	L
MANGANESE	160	N	**1,251**	401	J	366	J	840	J	516	J	344	J	726	J	512	J
MERCURY (by CVAA)	NA		**0.29**	0.11	U	0.11	U	0.11	U	0.1	U	0.35		0.26		0.29	
NICKEL	**160**	N	40.12	53.3		43.1		87.2		53.6		32.7		41.9		43.9	
PHOSPHORUS	NA		NA	221	J	239	J	296	J	280	J	333	J	357	J	420	J
POTASSIUM	NA		**4,945**	8530	L	12500	L	13900	L	9190	L	5400	L	6650	L	9580	L
SELENIUM	**39**	N	0.88	0.48	UJ	0.56	UJ	0.72	J	0.55	UJ	0.56	UJ	0.58	J	0.54	UJ
SILICON	NA		NA	1510	J	1380	J	1580	J	1300	J	2080	J	2590	J	2300	J
SILVER	**39**	N	0.74	0.48	U	0.56	U	0.57	U	0.55	U	0.56	U	0.56	U	0.54	U
SODIUM	NA		**55.80**	130		134		157		92.6		68		139		112	
STRONTIUM	**4,700**	N	NA	7.5		9.7		7.4		6		5.1		6.8		8.2	
SULFUR	NA		NA	75.8		76.7		103		101		106		81.7		99.4	
THALLIUM	0.55	N	**1.36**	0.96	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.6	
TIN	**4,700**	N	NA	1.9	U	2.4		2.3	U	2.2	U	2.3	U	2.2	U	3.1	
TITANIUM	**31,000**	N	NA	1420		1900		2320		1730		991		1010		1440	
VANADIUM	55	N	**66.76**	62.2		81		108		91.3		47.9		56.9		103	
ZINC	**2,300**	N	308.8	135		114		140		109		73.5		89.9		103	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[\2]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)[\1]																
IC Scan - EPA 300M (MG/KG)																	
BROMIDE	NA			1.22	U	1.17	U	1.25	U	1.22	U	1.2	U	1.18	U	1.26	U
CHLORIDE	NA			17.7		4.07		3.88		2.58		4.24		70.1		23.5	
FLUORIDE	NA			1.58		1.17	U	1.25	U	1.22	U	3.55	L	3.91	L	6.66	L
NITRATE-N	13,000	N		1.22	U	1.17	U	1.25	U	1.22	U	2.68		1.18	U	4.06	
NITRITE-N	780	N		1.22	U	1.17	U	1.25	U	1.22	U	1.2	U	1.18	U	1.26	U
PHOSPHATE-P	NA			1.22	U	1.17	U	1.25	U	1.22	U	1.2	UL	1.18	UL	1.26	UL
SULFATE	NA			83.6		46.7		62		58.9		14.7		27.2		19	
Mustard and Mustard Breakdown Products (UG/KG)																	
MUSTARD	10	\3,C		8	U	8	U	8	U	8	U	8	U	8	U	8	U
1,4-OXATHIANE	78,000	\3,N		81	U	82	U	80	U	83	U	78	U	80	U	81	U
1,4-DITHIANE	78,000	N		79	U	79	U	77	U	80	U	76	U	77	U	79	U
THIODIGLYCOL	39,100	\3,N		1056	U	1001	U	1069	U	1039	U	257	J	411	J	1088	U
Lewisite Breakdown Products (UG/KG)																	
TOTAL CVAA & CVAO	890	\3,C		10	U	9	U	10	U	10	U	10	U	10	U	10	U
Other Parameters (MG/KG unless otherwise indicated)																	
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	180	U	180	U	180	U	180	U	180	U	180	U
ADAMSITE**	NA				**		**		**		**	7.7	U		**		**
AMMONIA-N	NA			1.2	U	1.15	U	1.23	U	1.22	U	1.2	U	1.19	U	1.27	U
CYANIDE	160 [‡]	N		0.61	U	0.54	U	0.6	U	0.59	U	0.61	U	0.59	U	0.64	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. Except for mustard, these values were calculated for that investigation. For mustard, the source is the USACHPPM residential HBESL.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:	Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:	(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
Volatile Organic Compounds - SW8260B (UG/KG)															
1,1,1-TRICHLOROETHANE	2,200,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
1,1,2,2,-TETRACHLOROETHANE	3,200	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	230,000,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
1,1,2-TRICHLOROETHANE	11,000	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	UJ
1,1-DICHLOROETHANE	780,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
1,1-DICHLOROETHENE	390,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
1,2,4-TRICHLOROBENZENE	78,000	N		0.97	U	1.5	UJ	1.3	UJ	1	UJ	1.4	UJ	1.1	UJ
1,2-DIBROMO-3-CHLOROPROPANE	460	C		0.97	UJ	1.5	UJ	1.3	UJ	1	UJ	1.4	UJ	1.1	UJ
1,2-DIBROMOETHANE	7.5	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	UJ
1,2-DICHLOROBENZENE	700,000	N		0.97	UJ	1.5	UJ	1.3	UJ	1	UJ	1.4	UJ	1.1	UJ
1,2-DICHLOROETHANE	7,000	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
1,2-DICHLOROPROPANE	9,400	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
1,3-DICHLOROBENZENE	230,000	N		0.97	UJ	1.5	UJ	1.3	UJ	1	UJ	1.4	UJ	1.1	UJ
1,4-DICHLOROBENZENE	27,000	C		0.97	UJ	1.5	UJ	1.3	UJ	1	UJ	1.4	UJ	2	J
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		16		22		25		25		30		9	
2-HEXANONE	310,000	N		1		1.5	U	1.3	U	1		1.4	U	1.1	UJ
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
ACETONE	780,000	N		47	B	120	J	120	J	70	B	62	B	57	J
ACETONITRILE	NA			4.8	U	7.4	U	6.5	U	5	U	7	U	5.5	U
ACROLEIN	160,000	N		4.8	U	16		10		5	U	7	U	7	
BENZENE	12,000	C		4		1.5	U	1.3	U	1	U	1.4	U	1.1	U
BENZYL BROMIDE	NA			4.8	U	7.4	U	6.5	U	16		7	U	5.5	U
BENZYL CHLORIDE	3,800	C		4.8	UJ	7.4	UJ	6.5	UJ	5	UJ	7	UJ	5.5	UJ
BROMODICHLOROMETHANE	10,000	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
BROMOFORM	81,000	C		0.97	UJ	1.5	UJ	1.3	UJ	1	UJ	1.4	UJ	1.1	UJ
BROMOMETHANE	11,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
CARBON DISULFIDE	780,000	N		170	J	8		8		15		8		10	
CARBON TETRACHLORIDE	4,900	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
CHLOROBENZENE	160,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	UJ
CHLOROETHANE	220,000	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
CHLOROFORM	78,000	N		0.97	U	1.5	U	1	J	1	U	1.4	U	1.1	U
CHLOROMETHANE	NA			0.97	U	3		3		7		1.4	U	3	
CHLOROPICRIN	NA			24	U	37	U	32	U	25	U	25	U	27	U
CIS-1,2-DICHLOROETHENE	78,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
CIS-1,3-DICHLOROPROPENE	6,400 ‡	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
CYCLOHEXANE	470,000 ‡	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
DIBROMOCHLOROMETHANE	7,600	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
DICHLORODIFLUOROMETHANE	1,600,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
ETHYLBENZENE	780,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	UJ
ISOPROPYLBENZENE (CUMENE)	780,000	N		0.97	UJ	1.5	UJ	1.3	UJ	1	UJ	1.4	UJ	1.1	UJ
M&P-XYLENE	1,600,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	UJ
METHYL ACETATE	7,800,000	N		15		20		11		11		1.4	U	2	
METHYL TERT-BUTYL ETHER	160,000	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
METHYLCYCLOHEXANE	470,000 ‡	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
METHYLENE CHLORIDE	85,000	C		24		1.5	U	1.3	U	1	U	1.4	U	1.1	U
O-XYLENE	1,600,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
STYRENE	1,600,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	UJ

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:		Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:		(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
TETRACHLOROETHENE		32,000	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	UJ
TOLUENE		1,600,000	N		3		1.5	U	1	J	2		1.4	U	8	J
TRANS-1,2-DICHLOROETHENE		160,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
TRANS-1,3-DICHLOROPROPENE		6,400 ‡	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
TRICHLOROETHENE		1,600	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
TRICHLOROFLUOROMETHANE		2,300,000	N		9		1.5	U	1.3	U	1	U	1.4	U	1.1	U
VINYL CHLORIDE		90	C		0.97	UJ	1.5	UJ	1.3	UJ	1	UJ	1.4	UJ	1.1	UJ
VOC Tentatively Identified Compounds (UG/KG)																
1-HEXENE, 4-METHYL		NA			10	NJ		*		*		*		*		*
1-OCTANOL, 2,7-DIMETHYL-		NA				*	10	NJ		*		*		*		*
2,4-HEXANEDIONE (CAS# 3002-24-2)		NA				*		*		*		*		*		*
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)		NA				*	40	NJ	20	NJ	4	NJ		*		*
2-BUTENE, (Z)-		NA				*		*		*		*	3	NJ		*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)		NA				*		*	10	NJ		*		*		*
2-HEXENE, (Z)-		NA			10	NJ		*		*		*		*		*
2-OCTENE, (E)-		NA			50	NJ		*	7	NJ	10	NJ	60	NJ	10	NJ
ACETALDEHYDE (CAS# 75-07-0)		NA			10	NJ	30	NJ	40	NJ	20	NJ		*		*
ALCOHOL		NA				*		*		*		*		*		*
ALLYL ALCOHOL		NA				*		*		*		*		*		*
BENZALDEHYDE (CAS# 100-52-7)		780,000	N		10	NJ		*		*	10	NJ	5	NJ		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)		550,000	N			*		*		*	5	NJ		*		*
BENZENE, 1-METHYL-3-(1-METHYL		NA				*		*		*		*		*	30	NJ
BENZYL IODIDE		NA				*		*		*		*		*		*
BICYCLO 2.2.1 HEPTANE, 7,7-D		NA				*		*		*		*		*	50	NJ
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL		NA				*		*		*		*		*	80	NJ
BROMOACETONE		780,000 ‡	N			*		*		*		*		*		*
BROMOBENZENE		NA				*		*		*		*		*		*
BROMOMETHYL ETHER		NA				*		*		*		*		*		*
BUTANAL (CAS# 123-72-8)		NA				*	9	NJ		*	5	NJ		*		*
BUTANE		NA				*		*		*		*	1	NJ		*
BUTYL MERCAPTAN		NA				*		*		*		*		*		*
CARBON OXIDE SULFIDE (Carbonyl Sulfide, CAS# 463-58-1)		NA				*		*		*		*		*		*
CHLORINATED ACETONE		NA				*		*		*		*		*		*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N			*		*		*		*		*		*
CHLOROACETONE		780,000 ‡	N			*		*		*		*		*		*
CHLOROACETONITRILE		NA				*		*		*		*		*		*
CHLOROMETHYL ETHER		NA				*		*		*		*		*		*
CHLOROMETHYL ETHYL ETHER		NA				*		*		*		*		*		*
CROTONALDEHYDE		340	C			*		*		*		*		*		*
CYCLOHEXENE, 1-METHYL-4-(1-METHYLTHENYL)-,®-		NA				*		*		*		*		*	10	NJ
CYCLOPROPANE, 1,2-DIMETHYL-, TRANS		NA			10	NJ		*		*		*		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)		NA				*		*	3	NJ		*		*		*
DODECANAL		NA				*		*	7	NJ		*		*		*
ETHANETHIOL		NA				*		*		*		*	10	NJ		*
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)		NA			20	NJ		*		*		*		*		*
ETHYL BROMOACETATE		7,000,000 ‡	N			*		*		*		*		*		*
ETHYL CHLOROFORMATE		NA				*		*		*		*		*		*
ETHYL DIBROMOACETATE		7,000,000 ‡	N			*		*		*		*		*		*
ETHYL MERCAPTAN		NA				*		*		*		*		*		*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)		NA				*		*		*		*	10	NJ		*
HEXANAL (CAS# 66-25-1)		NA			30	NJ	100	NJ	40	NJ	60	NJ		*	100	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)		NA				*		*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:		Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:		(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
HEXANAL, 5-METHYL- (CAS# 1860-39-5)		NA				*	10	NJ		*		*		*		*
HEXANE (CAS# 110543)		470,000	N			*		*		*		*	4	NJ		*
METHYL BROMOACETATE		NA				*		*		*		*		*		*
METHYL CHLOROACETATE		NA				*		*		*		*		*		*
METHYL CHLOROFORMATE		NA				*		*		*		*		*		*
METHYL CHLOROSULFONATE		NA				*		*		*		*		*		*
NONANAL		NA				*	10	NJ		*		*		*		*
OCTANAL (CAS# 124-13-0)		NA				*	20	NJ	10	NJ		*		*	10	NJ
OCTANE (CAS# 111-65-9)		NA				*		*		*		*	10	NJ		*
PENTANAL ISOMER 1		NA				*	20	NJ		*	8	NJ		*	20	NJ
PENTANAL ISOMER 2		NA				*		*		*		*		*		*
PENTANE (CAS# 109-66-0)		NA				*	20	NJ	8	NJ	9	NJ	5	NJ	20	NJ
PERCHLOROMETHYLMERCAPTAN		NA				*		*		*		*		*		*
PROPANAL, 2-METHYL-		NA				*		*	8	NJ		*		*		*
PROPANE, 1,1-OXYBIS-'		NA			10	NJ		*		*		*		*		*
THIOPHENE		NA				*		*		*		*		*		*
TRICHLOROACETONITRILE		NA				*		*		*		*		*		*
Semivolatile Organic Compounds - SW8270C (UG/KG)																
1,2,4-TRICHLOROBENZENE		78,000	N		76	U	93	U	86	U	88	U	90	U	86	U
1,2-DICHLOROBENZENE		700,000	N		76	U	93	U	86	U	88	U	90	U	86	U
1,3-DICHLOROBENZENE		230,000	N		76	U	93	U	86	U	88	U	90	U	86	U
1,4-DICHLOROBENZENE		27,000	C		76	U	93	U	86	U	88	U	90	U	86	U
2,4,5-TRICHLOROPHENOL		780,000	N		76	U	93	U	86	U	88	U	90	U	86	U
2,4,6-TRICHLOROPHENOL		58,000	C		76	U	93	U	86	U	88	U	90	U	86	U
2,4-DICHLOROPHENOL		23,000	N		76	U	93	U	86	U	88	U	90	U	86	U
2,4-DIMETHYLPHENOL		160,000	N		76	U	93	U	86	U	88	U	90	U	86	U
2,4-DINITROPHENOL		16,000	N		230	U	280	U	260	U	260	U	270	U	260	U
2,4-DINITROTOLUENE		16,000	N		76	U	93	U	86	U	88	U	90	U	86	U
2,6-DINITROTOLUENE		7,800	N		76	U	93	U	86	U	88	U	90	U	86	U
2-CHLORONAPHTHALENE (CAS# 91587)		630,000 ‡	N		76	U	93	U	86	U	88	U	90	U	86	U
2-CHLOROPHENOL		39,000	N		76	U	93	U	86	U	88	U	90	U	86	U
2-METHYLNAPHTHALENE (CAS# 91576)		160,000	N		76	U	18	J	14	J	88	U	90	U	86	U
2-METHYLPHENOL		390,000	N		76	U	93	U	86	U	88	U	90	U	86	U
2-NITROANILINE		NA			76	U	93	U	86	U	88	U	90	U	86	U
2-NITROPHENOL		63,000 ‡	N		76	U	93	U	86	U	88	U	90	U	86	U
3,3-DICHLOROBENZIDINE'		1,400	C		76	U	93	U	86	U	88	U	90	U	86	U
3-NITROANILINE (CAS# 99092)		2,300	N		76	U	93	U	86	U	88	U	90	U	86	U
4,6-DINITRO-2-METHYLPHENOL		780	N		76	U	93	U	86	U	88	U	90	U	86	U
4-BROMOPHENYL-PHENYLETHER		NA			76	U	93	U	86	U	88	U	90	U	86	U
4-CHLORO-3-METHYLPHENOL		NA			76	U	93	U	86	U	88	U	90	U	86	U
4-CHLOROANILINE		31,000	N		76	U	93	U	86	U	88	U	90	U	86	U
4-CHLOROPHENYL-PHENYLETHER		NA			76	U	93	U	86	U	88	U	90	U	86	U
4-METHYLPHENOL		39,000	N		76	U	93	U	13	J	88	U	90	U	86	U
4-NITROANILINE		32,000	C		76	U	93	U	86	U	88	U	90	U	86	U
4-NITROPHENOL		63,000	N		76	U	93	U	86	U	88	U	90	U	86	U
ACENAPHTHENE		470,000	N		76	U	93	U	86	U	88	U	90	U	86	U
ACENAPHTHYLENE		470,000 ‡	N		18	J	91	J	230		12	J	13	J	86	U
ANTHRACENE		2,300,000	N		19	J	34	J	62	J	13	J	14	J	86	U
BENZO[A]ANTHRACENE		870	C		250		620		1100		88	J	110		48	J

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:	Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:	(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
BENZO[A]PYRENE	87	C		160		440		720	J	49	J	58	J	41	J
BENZO[B]FLUORANTHENE	870	C		350		900		1800	J	130	J	180	J	62	J
BENZO[G,H,I]PERYLENE	NA			87		230		350	J	88	UJ	23	J	86	UJ
BENZO[K]FLUORANTHENE	8,700	C		150		350		800	J	82	J	83	J	34	J
BENZOIC ACID	31,000,000	N		36	J	61	J	41	J	28	J	28	J	260	U
BENZYL ALCOHOL	2,300,000	N		76	U	93	U	86	U	88	U	27	J	86	U
BIS(2-CHLOROETHOXY)METHANE	NA			76	U	93	U	86	U	88	U	90	U	86	U
BIS(2-CHLOROISOPROPYL)ETHER	9,100	C		76	U	93	U	86	U	88	U	90	U	86	U
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		79	B	110	B	120	B	230	B	170	B	23	B
BUTYLBENZYLPHTHALATE	1,600,000	N		76	U	15	J	22	J	12	J	90	U	86	U
CARBAZOLE	32,000	C		15	J	23	J	33	J	88	U	90	U	86	U
CHRYSENE	87,000	C		160		360		620		66	J	78	J	49	J
DIBENZ[A,H]ANTHRACENE	87	C		37	J	76	J	140	J	88	UJ	90	UJ	86	UJ
DIBENZOFURAN	16,000	N		76	U	93	U	14	J	88	U	90	U	86	U
DIETHYLPHTHALATE	6,300,000	N		42	B	93	U	86	U	14	B	90	U	86	U
DIMETHYLPHTHALATE	78,000,000	N		76	U	93	U	86	UJ	88	UJ	90	UJ	86	UJ
DI-N-BUTYLPHTHALATE	780,000 ‡	N		28	B	29	B	28	B	27	B	22	B	22	B
DI-N-OCTYLPHTHALATE	160,000 ‡	N		76	U	93	U	86	UJ	88	UJ	90	UJ	86	UJ
FLUORANTHENE	310,000	N		440		700		1200		110		140		87	
FLUORENE	310,000	N		76	U	20	J	24	J	88	U	90	U	86	U
HEXACHLOROBENZENE	400	C		76	U	93	U	86	U	88	U	90	U	86	U
HEXACHLOROBUTADIENE	8,200	C		76	U	93	U	86	U	88	U	90	U	86	U
HEXACHLOROCYCLOPENTADIENE	47,000	N		76	U	93	U	86	U	88	U	90	U	86	U
HEXACHLOROETHANE	46,000	C		76	U	93	U	86	U	88	U	90	U	86	U
INDENO[1,2,3-CD]PYRENE	870	C		120		320		660	J	88	UJ	32	J	86	UJ
ISOPHORONE	670,000	C		76	U	93	U	86	U	88	U	90	U	86	U
NAPHTHALENE	160,000	N		12	J	24	J	27	J	88	U	90	U	86	U
NITROBENZENE	3,900	N		76	U	93	U	86	U	88	U	90	U	86	U
N-NITROSO-DI-N-PROPYLAMINE	NA			76	U	93	U	86	U	88	U	90	U	86	U
N-NITROSODIPHENYLAMINE	130,000	C		76	U	93	U	86	U	88	U	90	U	86	U
O-CHLORONITROBENZENE	26,000	C		76	U	93	U	86	U	88	U	90	U	86	U
PENTACHLOROPHENOL	5,300	C		76	U	93	U	86	U	88	U	90	U	86	U
PHENANTHRENE	NA			170		230		300		33	J	49	J	38	J
PHENOL	2,300,000	N		76	U	93	U	86	U	88	U	90	U	86	U
PHENYL HYDRAZINE	NA			76	U	93	U	86	U	88	U	90	U	86	U
PHENYL ISOCYANATE	NA			76	U	93	U	86	U	88	U	90	U	86	U
PHENYL ISOTHIOCYANATE	NA			76	U	93	U	86	U	88	U	90	U	86	U
PYRENE	230,000	N		440		1100		1800		170		210		130	
SVOC Tentatively Identified Compounds (UG/KG)															
.ALPHA.-LINDANE (CAS# 319846)	100 ‡	C			*		*		*		*		*		*
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA				*		*		*		*		*		*
13-OCTADECENAL	NA				*		*		*		*		*		*
14-OCTADECENAL	NA				*		*		*		*		*		*
1-EICOSANOL	NA			200	NJ		*		*		*		*		*
1-OCTADECANOL	NA				*		*		*	5000	NJ		*		*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N		100	NJ		*		*		*		*	160	NJ
5-EICOSENE, (E)-	NA				*		*		*	950	NJ		*		*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA				*		*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:		Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:		(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
9-HEXADECENOIC ACID (CAS# 002091-29-4)		NA				*		*		*		*		*		*
BENZENEETANOL, 4-HYDROXY-		NA				*		*		*		*	290	NJ		*
BENZOTRICHLORIDE		NA				*		*		*		*		*		*
BENZYL FLUORIDE		NA				*		*		*		*		*		*
CARBOXYLIC ACID ESTER		NA				*		*		*	360	NJ		*		*
DIPHENYLCHLOROARSINE		NA				*		*		*		*		*		*
DOCOSANE		NA				*		*		*		*	570	NJ		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)		16,000,000	N			*		*		*		*		*		*
HEPTADECANE		NA				*		*		*		*	790	NJ		*
HEPTADECANE, 9-OCTYL-		NA				*		*		*	450	NJ	2000	NJ		*
HEXADECANOIC ACID (CAS# 57-10-3)		NA			120	NJ	440	NJ	89	NJ		*		*		*
NONACOSANE (CAS# 630-03-5)		NA			870	NJ		*		*		*	1800	NJ	840	NJ
NONADECANE		NA				*		*	160	NJ	430	NJ		*		*
OCTACOSANE		NA			500	NJ		*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)		NA			140	NJ		*		*	130	NJ	190	NJ		*
o-TOLYL ISOCYANIDE		NA				*		*		*		*		*		*
PENTADECANE, 8-HEXYL-		NA				*		*		*		*		*		*
PHENANTHRENE,9-METHYL-		NA			230	NJ		*		*		*		*		*
PHENYL ISOCYANIDE		NA				*		*		*		*		*		*
PHENYLDICHLOROARSINE		NA				*		*		*		*		*		*
TRICOSANE		NA				*		*		*		*	570	NJ		*
ICP Inorganic Analyses - SW6010B (MG/KG)																
ALUMINUM		7,800	N	**25,798**	12400		15500		12500		8520		7020		13500	
ANTIMONY		**3.1**	N	0.92	1.1	UL	1.3	UL	1.2	UL	1.2	UL	1.2	UL	1.1	UL
ARSENIC		0.43	C	**12.64**	53.9		133		107		4.4		6.3		2	
BARIUM		**550**	N	298.28	73.3		109		108		53.4		44.9		54.6	
BERYLLIUM		**16**	N	2.35	0.68		0.87		0.78		0.6	U	0.59	U	0.67	
CADMIUM		**7.8**	N	0.32	0.57	U	0.65	U	0.62	U	0.6	U	0.59	U	0.56	U
CALCIUM		NA		**4,207**	1580		2520		3250		2860		9240		1810	
CHROMIUM		**12,000** ‡	N	97.20	56.9		54.8		40.9		87.6		50.4		68.2	
COBALT		**160**	N	22.26	13.1		18.5		15.1		7.1		5.4		14.9	
COPPER		**310**	N	47.76	32.9		47.6		34		54.3		27		26.6	
IRON		2,300	N	**31,951**	30500		34200		26900		18300		16700		25200	
LEAD		**400** ‡		329.76	64.3		71.9		72		65.6		62.5		20.6	
MAGNESIUM		NA		**7,093**	1360	L	3940	L	2520	L	1850	L	5350	L	4830	L
MANGANESE		160	N	**1,251**	571	J	800	J	695	J	216	J	231	J	342	J
MERCURY (by CVAA)		NA		**0.29**	0.41		0.54		0.15		0.16		0.13		0.1	U
NICKEL		**160**	N	40.12	13.7		19.9		13.5		14.4		10.7		31.4	
PHOSPHORUS		NA		NA	792	J	850	J	921	J	1530	J	1320	J	205	J
POTASSIUM		NA		**4,945**	514	L	888	L	890	L	704	L	625	L	859	L
SELENIUM		**39**	N	0.88	1.2	J	0.71	J	0.62	UJ	0.6	UJ	0.59	UJ	0.56	UJ
SILICON		NA		NA	1290	J	1850	J	1370	J	1300	J	1400	J	1350	J
SILVER		**39**	N	0.74	2		1.3		0.73		0.85		0.59	U	0.56	U
SODIUM		NA		**55.80**	57.2	U	65	U	61.6	U	59.9	U	58.7	U	55.5	U
STRONTIUM		**4,700**	N	NA	8.1		11.8		13		12.9		11		8.5	
SULFUR		NA		NA	212		293		313		387		422		73.9	
THALLIUM		0.55	N	**1.36**	1.1	U	1.3	U	1.2	U	1.2	U	1.2	U	1.1	U
TIN		**4,700**	N	NA	3.8		3.4		2.7		4.5		2.3	U	2.2	U
TITANIUM		**31,000**	N	NA	252		445		378		253		199		272	
VANADIUM		55	N	**66.76**	52		85.8		55.8		37.6		33.7		47.6	
ZINC		**2,300**	N	308.8	73.5		88.8		76.9		86.1		80.2		33.1	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:	Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:	(adjusted		ground[\2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute	downward)[\1]														
IC Scan - EPA 300M (MG/KG)															
BROMIDE	NA			1.23	U	1.39	U	1.3	U	1.32	U	1.4	U	1.2	U
CHLORIDE	NA			3		7.36		4.49		2.2		2.21		3.39	
FLUORIDE	NA			4.86	L	4.86	L	3.35		4.83		4.61		4.76	
NITRATE-N	13,000	N		3.28		5.47		6.68		10.3		11.6		1.2	U
NITRITE-N	780	N		1.23	U	1.39	U	1.3	U	1.32	U	1.4	U	1.2	U
PHOSPHATE-P	NA			3.84	L	4	L	5.07		37.5		34		2.36	
SULFATE	NA			9.6		9.3		8.62		8.38		10.6		11.2	
Mustard and Mustard Breakdown Products (UG/KG)															
MUSTARD	10	\3,C		NS		NS		NS		NS		NS		NS	
1,4-OXATHIANE	78,000	\3,N		78	U	78	U	83	U	83	U	81	U	84	U
1,4-DITHIANE	78,000	N		76	U	76	U	81	U	81	U	79	U	82	U
THIODIGLYCOL	39,100	\3,N		985	U	813	J	1117	U	1130	U	1156	U	1105	U
Lewisite Breakdown Products (UG/KG)															
TOTAL CVAA & CVAO	890	\3,C		9	U	11	U	11	U	11	U	11	U	10	U
Other Parameters (MG/KG unless otherwise indicated)															
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	180	U	180	U	180	U	180	U	180	U
ADAMSITE**	NA				**	7.7	U	7.7	U		**		**		**
AMMONIA-N	NA			1.25	U	1.38	U	1.29	U	1.3	U	1.41	U	1.18	U
CYANIDE	160 [‡]	N		0.58	U	0.68	U	0.62	U	1.19		0.68	U	0.54	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. Except for mustard, these values were calculated for that investigation. For mustard, the source is the USACHPPM residential HBESL.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

Table 1A

Comprehensive List Detections for Selected OU-4 Residences

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:		Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:		RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute		downward)[1]																
Volatile Organic Compounds - SW8260B (UG/KG)																		
1,4-DICHLOROBENZENE		27,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)		4,700,000	N		4		4		4		3		8		6		6	
2-HEXANONE		310,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
ACETONE		780,000	N		27	J	27	J	28	J	27		56	J	39	J	57	J
ACROLEIN		160,000	N		5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
BENZENE		12,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
BENZYL BROMIDE		NA			5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
CARBON DISULFIDE		780,000	N		11		11		38	J	11		11		8		26	
CHLOROFORM		78,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CHLOROMETHANE		NA			1	J	1	J	1	J	2		2		2		1	
DICHLORODIFLUOROMETHANE		1,600,000	N		67	J	67	J	160	J	1	U	1	U	130	J	99	J
METHYL ACETATE		7,800,000	N		1.1	U	1.1	U	1.1	U	1	U	3		0.97	U	2	
METHYLENE CHLORIDE		85,000	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
TOLUENE		1,600,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
TRICHLOROFLUOROMETHANE		2,300,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
VOC Tentatively Identified Compounds (UG/KG)																		
1-HEXENE, 4-METHYL		NA				*		*		*		*		*		*		*
1-OCTANOL, 2,7-DIMETHYL-		NA				*		*		*		*		*		*		*
2,4-HEXANEDIONE (CAS# 3002-24-2)		NA				*		*		*		*		*		*	3	NJ
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)		NA				*		*	6	NJ	2	NJ	10	NJ	10	NJ	6	NJ
2-BUTENE, (Z)-		NA				*		*		*		*		*		*		*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)		NA				*		*		*		*		*		*		*
2-HEXENE, (Z)-		NA				*		*		*		*		*		*		*
2-OCTENE, (E)-		NA			50	NJ	30	NJ	60	NJ	20	NJ	20	NJ	10	NJ	10	NJ
ACETALDEHYDE (CAS# 75-07-0)		NA			10	NJ	5	NJ	6	NJ	4	NJ	20	NJ	10	NJ	7	NJ
BENZALDEHYDE (CAS# 100-52-7)		780,000	N			*		*		*		*		*		*		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)		550,000	N			*		*		*		*		*		*		*
BENZENE, 1-METHYL-3-(1-METHYL		NA				*		*		*		*		*		*		*
BICYCLO 2.2.1 HEPTANE, 7,7-D		NA				*	6	NJ		*		*		*		*		*
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL		NA				*	10	NJ		*		*		*		*		*
BUTANAL (CAS# 123-72-8)		NA				*		*		*		*		*		*		*
BUTANE		NA				*		*		*		*		*		*		*
CARBON OXIDE SULFIDE (Carbonyl Sulfide, CAS# 463-58-1		NA			8	NJ		*	6	NJ		*	10	NJ	8	NJ		*
CYCLOHEXENE, 1-METHYL-4-(1-METHYLTHENYL)-,®		NA				*		*		*		*		*		*		*
CYCLOPROPANE, 1,2-DIMETHYL-, TRANS		NA				*		*		*		*		*		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)		NA				*	10	NJ		*	4	NJ	10	NJ	10	NJ	3	NJ
DODECANAL		NA				*		*		*		*		*		*		*
ETHANETHIOL		NA				*		*		*		*		*		*		*
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)		NA				*		*		*		*		*		*		*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)		NA			10	NJ	6	NJ	10	NJ	6	NJ		*		*		*
HEXANAL (CAS# 66-25-1)		NA			40	NJ	10	NJ	10	NJ	10	NJ	100	NJ	40	NJ	60	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)		NA				*		*	5	NJ		*		*		*		*
HEXANAL, 5-METHYL- (CAS# 1860-39-5)		NA			7	NJ		*		*	3	NJ	10	NJ	6	NJ	3	NJ
HEXANE (CAS# 110543)		470,000	N			*		*		*		*		*		*		*
NONANAL		NA				*		*		*		*	10	NJ		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:		Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:		RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute		downward)[1]																
OCTANAL (CAS# 124-13-0)		NA			8	NJ	*		*		4	NJ	20	NJ	6	NJ	4	NJ
OCTANE (CAS# 111-65-9)		NA			20	NJ	9	NJ	20	NJ	8	NJ	*		*		*	
PENTANAL ISOMER 1		NA			10	NJ	4	NJ	4	NJ	3	NJ	30	NJ	10	NJ	9	NJ
PENTANAL ISOMER 2		NA			*		*		*		*		*		6	NJ	*	
PENTANE (CAS# 109-66-0)		NA			*		*		*		*		*		*		*	
PROPANAL, 2-METHYL-		NA			*		*		*		*		*		*		*	
PROPANE, 1,1-OXYBIS-'		NA			*		*		*		*		*		*		*	
Semivolatile Organic Compounds - SW8270C (UG/KG)																		
2-METHYLNAPHTHALENE (CAS# 91576)		160,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
4-METHYLPHENOL		39,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
ACENAPHTHYLENE		470,000 ‡	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
ANTHRACENE		2,300,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
BENZO[A]ANTHRACENE		870	C		82	U	78	U	83	U	81	U	81	U	62	J	12	J
BENZO[A]PYRENE		87	C		82	U	78	U	83	U	81	U	81	U	28	J	84	U
BENZO[B]FLUORANTHENE		870	C		82	U	78	U	83	U	81	U	81	U	67	J	15	J
BENZO[G,H,I]PERYLENE		NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
BENZO[K]FLUORANTHENE		8,700	C		82	U	78	U	83	U	81	U	81	U	20	J	84	U
BENZOIC ACID		31,000,000	N		240	U	230	U	250	U	240	U	20	J	25	J	22	J
BENZYL ALCOHOL		2,300,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
BIS(2-ETHYLHEXYL)PHTHALATE		46,000	C		82	U	21	B	13	B	81	U	18	J	12	J	14	J
BUTYLBENZYLPHTHALATE		1,600,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
CARBAZOLE		32,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
CHRYSENE		87,000	C		82	U	78	U	83	U	81	U	81	U	30	J	84	U
DIBENZ[A,H]ANTHRACENE		87	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
DIBENZOFURAN		16,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
DIETHYLPHTHALATE		6,300,000	N		82	U	78	U	250	B	81	U	18	J	21	J	14	J
DI-N-BUTYLPHTHALATE		780,000 ‡	N		25	B	23	B	26	B	29	B	33	B	24	B	32	B
FLUORANTHENE		310,000	N		82	U	78	U	83	U	81	U	12	J	67	J	17	J
FLUORENE		310,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
INDENO[1,2,3-CD]PYRENE		870	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
NAPHTHALENE		160,000	N		82	U	78	U	83	U	81	U	81	U	80	U	84	U
PHENANTHRENE		NA			82	U	78	U	83	U	81	U	81	U	18	J	84	U
PYRENE		230,000	N		82	U	78	U	83	U	81	U	11	J	56	J	14	J
SVOC Tentatively Identified Compounds (UG/KG)																		
.ALPHA.-LINDANE (CAS# 319846)		100 ‡	C		*		*		*		*		*		180	NJ	*	
.GAMMA.-SITOSTEROL (CAS# 83-47-6)		NA			*		*		*		*		*		*		130	NJ
13-OCTADECENAL		NA			*		*		*		*		1700	NJ	*		*	
14-OCTADECENAL		NA			*		180	NJ	*		*		*		*		*	
1-EICOSANOL		NA			*		190	NJ	*		*		*		*		*	
1-OCTADECANOL		NA			*		*		*		*		*		*		*	
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)		39,000	N		130	NJ	280	NJ	*		*		*		*		*	
5-EICOSENE, (E)-		NA			*		*		*		*		*		*		*	
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)		NA			*		*		*		*		*		*		97	NJ
9-HEXADECENOIC ACID (CAS# 002091-29-4)		NA			*		*		*		*		440	NJ	*		140	NJ
BENZENEETANOL, 4-HYDROXY-		NA			*		*		*		*		*		*		*	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)[1]																
CARBOXYLIC ACID ESTER	NA				*		*		*		*		*		*		*
DOCOSANE	NA				*		*		*		*		*		*		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)	16,000,000	N			*		*		*		*	240	NJ	240	NJ	220	NJ
HEPTADECANE	NA				*		*		*		*		*		*		*
HEPTADECANE, 9-OCTYL-	NA				*		*		*		*		*		*		*
HEXADECANOIC ACID (CAS# 57-10-3)	NA			110	NJ		*		*		*	670	NJ	140	NJ	160	NJ
NONACOSANE (CAS# 630-03-5)	NA				*		*		*		*		*	1000	NJ	1000	NJ
NONADECANE	NA				*		*		*		*		*		*		*
OCTACOSANE	NA				*		*		*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)	NA			260	NJ		*		*		*	4200	NJ	260	NJ	250	NJ
PENTADECANE, 8-HEXYL-	NA				*		*		*		*		*	590	NJ		*
PHENANTHRENE,9-METHYL-	NA				*		*		*		*		*		*		*
TRICOSANE	NA				*		*		*		*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)																	
ALUMINUM	7,800	N	**25,798**	24800		27300		36300		26000		18400		21400		29700	
ARSENIC	0.43	C	**12.64**	1.5		1.7		1.4		2.2		36.1		14		12	
BARIUM	**550**	N	298.28	121		156		168		124		69		98		168	
BERYLLIUM	**16**	N	2.35	1.8		1.9		2.4		2.1		1.2		1.6		1.9	
CALCIUM	NA		**4,207**	707		705		1010		737		868		951		1320	
CHROMIUM	**12,000** [‡]	N	97.20	45.6		53.7		192		80.4		46.5		53.3		62.5	
COBALT	**160**	N	22.26	19.5		22.1		27.9		27.6		14.2		21.1		25.7	
COPPER	**310**	N	47.76	28.3		48.7		36.9		48.7		35.4		61.9		116	
IRON	2,300	N	**31,951**	32300		36500		43900		38600		26400		28300		36600	
LEAD	**400** [‡]		329.76	13.6		21.5		16.4		15.9		24.6		26.6		24.5	
MAGNESIUM	NA		**7,093**	11700	L	14000	L	22300	L	11700	L	8180	L	10100	L	13100	L
MANGANESE	160	N	**1,251**	401	J	366	J	840	J	516	J	344	J	726	J	512	J
MERCURY (by CVAA)	NA		**0.29**	0.11	U	0.11	U	0.11	U	0.1	U	0.35		0.26		0.29	
NICKEL	**160**	N	40.12	53.3		43.1		87.2		53.6		32.7		41.9		43.9	
PHOSPHORUS	NA		NA	221	J	239	J	296	J	280	J	333	J	357	J	420	J
POTASSIUM	NA		**4,945**	8530	L	12500	L	13900	L	9190	L	5400	L	6650	L	9580	L
SELENIUM	**39**	N	0.88	0.48	UJ	0.56	UJ	0.72	J	0.55	UJ	0.56	UJ	0.58	J	0.54	UJ
SILICON	NA		NA	1510	J	1380	J	1580	J	1300	J	2080	J	2590	J	2300	J
SILVER	**39**	N	0.74	0.48	U	0.56	U	0.57	U	0.55	U	0.56	U	0.56	U	0.54	U
SODIUM	NA		**55.80**	130		134		157		92.6		68		139		112	
STRONTIUM	**4,700**	N	NA	7.5		9.7		7.4		6		5.1		6.8		8.2	
SULFUR	NA		NA	75.8		76.7		103		101		106		81.7		99.4	
THALLIUM	0.55	N	**1.36**	0.96	U	1.1	U	1.1	U	1.1	U	1.1	U	1.1	U	1.6	
TIN	**4,700**	N	NA	1.9	U	2.4		2.3	U	2.2	U	2.3	U	2.2	U	3.1	
TITANIUM	**31,000**	N	NA	1420		1900		2320		1730		991		1010		1440	
VANADIUM	55	N	**66.76**	62.2		81		108		91.3		47.9		56.9		103	
ZINC	**2,300**	N	308.8	135		114		140		109		73.5		89.9		103	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground\2	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)\1																
IC Scan - EPA 300M (MG/KG)																	
CHLORIDE	NA			17.7		4.07		3.88		2.58		4.24		70.1		23.5	
FLUORIDE	NA			1.58		1.17	U	1.25	U	1.22	U	3.55	L	3.91	L	6.66	L
NITRATE-N	13,000	N		1.22	U	1.17	U	1.25	U	1.22	U	2.68		1.18	U	4.06	
PHOSPHATE-P	NA			1.22	U	1.17	U	1.25	U	1.22	U	1.2	UL	1.18	UL	1.26	UL
SULFATE	NA			83.6		46.7		62		58.9		14.7		27.2		19	
Mustard and Mustard Breakdown Products (UG/KG)																	
THIODIGLYCOL	39,100	\3,N		1056	U	1001	U	1069	U	1039	U	257	J	411	J	1088	U
Other Parameters (MG/KG unless otherwise indicated)																	
CYANIDE	160 ‡	N		0.61	U	0.54	U	0.6	U	0.59	U	0.61	U	0.59	U	0.64	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. Except for mustard, these values were calculated for that investigation For mustard, the source is the USACHPPM residential HBESL.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.

C = Carcinogen as listed on the USEPA RBC table.

NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:	Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:	(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
Volatile Organic Compounds - SW8260B (UG/KG)															
1,4-DICHLOROBENZENE	27,000	C		0.97	UJ	1.5	UJ	1.3	UJ	1	UJ	1.4	UJ	2	J
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		16		22		25		25		30		9	
2-HEXANONE	310,000	N		1		1.5	U	1.3	U	1		1.4	U	1.1	UJ
ACETONE	780,000	N		47	B	120	J	120	J	70	B	62	B	57	J
ACROLEIN	160,000	N		4.8	U	16		10		5	U	7	U	7	
BENZENE	12,000	C		4		1.5	U	1.3	U	1	U	1.4	U	1.1	U
BENZYL BROMIDE	NA			4.8	U	7.4	U	6.5	U	16		7	U	5.5	U
CARBON DISULFIDE	780,000	N		170	J	8		8		15		8		10	
CHLOROFORM	78,000	N		0.97	U	1.5	U	1	J	1	U	1.4	U	1.1	U
CHLOROMETHANE	NA			0.97	U	3		3		7		1.4	U	3	
DICHLORODIFLUOROMETHANE	1,600,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
METHYL ACETATE	7,800,000	N		15		20		11		11		1.4	U	2	
METHYLENE CHLORIDE	85,000	C		24		1.5	U	1.3	U	1	U	1.4	U	1.1	U
TOLUENE	1,600,000	N		3		1.5	U	1	J	2		1.4	U	8	J
TRICHLOROFLUOROMETHANE	2,300,000	N		9		1.5	U	1.3	U	1	U	1.4	U	1.1	U
VOC Tentatively Identified Compounds (UG/KG)															
1-HEXENE, 4-METHYL	NA			10	NJ	*		*		*		*		*	
1-OCTANOL, 2,7-DIMETHYL-	NA			*		10	NJ	*		*		*		*	
2,4-HEXANEDIONE (CAS# 3002-24-2)	NA			*		*		*		*		*		*	
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)	NA			*		40	NJ	20	NJ	4	NJ	*		*	
2-BUTENE, (Z)-	NA			*		*		*		*		3	NJ	*	
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)	NA			*		*		10	NJ	*		*		*	
2-HEXENE, (Z)-	NA			10	NJ	*		*		*		*		*	
2-OCTENE, (E)-	NA			50	NJ	*		7	NJ	10	NJ	60	NJ	10	NJ
ACETALDEHYDE (CAS# 75-07-0)	NA			10	NJ	30	NJ	40	NJ	20	NJ	*		*	
BENZALDEHYDE (CAS# 100-52-7)	780,000	N		10	NJ	*		*		10	NJ	5	NJ	*	
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)	550,000	N		*		*		*		5	NJ	*		*	
BENZENE, 1-METHYL-3-(1-METHYL	NA			*		*		*		*		*		30	NJ
BICYCLO 2.2.1 HEPTANE, 7,7-D	NA			*		*		*		*		*		50	NJ
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL	NA			*		*		*		*		*		80	NJ
BUTANAL (CAS# 123-72-8)	NA			*		9	NJ	*		5	NJ	*		*	
BUTANE	NA			*		*		*		*		1	NJ	*	
CARBON OXIDE SULFIDE (Carbonyl Sulfide, CAS# 463-58-1	NA			*		*		*		*		*		*	
CYCLOHEXENE, 1-METHYL-4-(1-METHYLTHENYL)-,®	NA			*		*		*		*		*		10	NJ
CYCLOPROPANE, 1,2-DIMETHYL-, TRANS	NA			10	NJ	*		*		*		*		*	
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA			*		*		3	NJ	*		*		*	
DODECANAL	NA			*		*		7	NJ	*		*		*	
ETHANETHIOL	NA			*		*		*		*		10	NJ	*	
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)	NA			20	NJ	*		*		*		*		*	
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)	NA			*		*		*		*		10	NJ	*	
HEXANAL (CAS# 66-25-1)	NA			30	NJ	100	NJ	40	NJ	60	NJ	*		100	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)	NA			*		*		*		*		*		*	
HEXANAL, 5-METHYL- (CAS# 1860-39-5)	NA			*		10	NJ	*		*		*		*	
HEXANE (CAS# 110543)	470,000	N		*		*		*		*		4	NJ	*	
NONANAL	NA			*		10	NJ	*		*		*		*	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:	Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:	(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
OCTANAL (CAS# 124-13-0)	NA				*	20	NJ	10	NJ		*		*	10	NJ
OCTANE (CAS# 111-65-9)	NA				*		*		*		*	10	NJ		*
PENTANAL ISOMER 1	NA				*	20	NJ		*	8	NJ		*	20	NJ
PENTANAL ISOMER 2	NA				*		*		*		*		*		*
PENTANE (CAS# 109-66-0)	NA				*	20	NJ	8	NJ	9	NJ	5	NJ	20	NJ
PROPANAL, 2-METHYL-	NA				*		*	8	NJ		*		*		*
PROPANE, 1,1-OXYBIS-'	NA			10	NJ		*		*		*		*		*
Semivolatile Organic Compounds - SW8270C (UG/KG)															
2-METHYLNAPHTHALENE (CAS# 91576)	160,000	N		76	U	18	J	14	J	88	U	90	U	86	U
4-METHYLPHENOL	39,000	N		76	U	93	U	13	J	88	U	90	U	86	U
ACENAPHTHYLENE	470,000 ‡	N		18	J	91	J	230		12	J	13	J	86	U
ANTHRACENE	2,300,000	N		19	J	34	J	62	J	13	J	14	J	86	U
BENZO[A]ANTHRACENE	870	C		250		620		1100		88	J	110		48	J
BENZO[A]PYRENE	87	C		160		440		720	J	49	J	58	J	41	J
BENZO[B]FLUORANTHENE	870	C		350		900		1800	J	130	J	180	J	62	J
BENZO[G,H,I]PERYLENE	NA			87		230		350	J	88	UJ	23	J	86	UJ
BENZO[K]FLUORANTHENE	8,700	C		150		350		800	J	82	J	83	J	34	J
BENZOIC ACID	31,000,000	N		36	J	61	J	41	J	28	J	28	J	260	U
BENZYL ALCOHOL	2,300,000	N		76	U	93	U	86	U	88	U	27	J	86	U
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		79	B	110	B	120	B	230	B	170	B	23	B
BUTYLBENZYLPHTHALATE	1,600,000	N		76	U	15	J	22	J	12	J	90	U	86	U
CARBAZOLE	32,000	C		15	J	23	J	33	J	88	U	90	U	86	U
CHRYSENE	87,000	C		160		360		620		66	J	78	J	49	J
DIBENZ[A,H]ANTHRACENE	87	C		37	J	76	J	140	J	88	UJ	90	UJ	86	UJ
DIBENZOFURAN	16,000	N		76	U	93	U	14	J	88	U	90	U	86	U
DIETHYLPHTHALATE	6,300,000	N		42	B	93	U	86	U	14	B	90	U	86	U
DI-N-BUTYLPHTHALATE	780,000 ‡	N		28	B	29	B	28	B	27	B	22	B	22	B
FLUORANTHENE	310,000	N		440		700		1200		110		140		87	
FLUORENE	310,000	N		76	U	20	J	24	J	88	U	90	U	86	U
INDENO[1,2,3-CD]PYRENE	870	C		120		320		660	J	88	UJ	32	J	86	UJ
NAPHTHALENE	160,000	N		12	J	24	J	27	J	88	U	90	U	86	U
PHENANTHRENE	NA			170		230		300		33	J	49	J	38	J
PYRENE	230,000	N		440		1100		1800		170		210		130	
SVOC Tentatively Identified Compounds (UG/KG)															
.ALPHA.-LINDANE (CAS# 319846)	100 ‡	C			*		*		*		*		*		*
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA				*		*		*		*		*		*
13-OCTADECENAL	NA				*		*		*		*		*		*
14-OCTADECENAL	NA				*		*		*		*		*		*
1-EICOSANOL	NA			200	NJ		*		*		*		*		*
1-OCTADECANOL	NA				*		*		*	5000	NJ		*		*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N		100	NJ		*		*		*		*	160	NJ
5-EICOSENE, (E)-	NA				*		*		*	950	NJ		*		*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA				*		*		*		*		*		*
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA				*		*		*		*		*		*
BENZENEETANOL, 4-HYDROXY-	NA				*		*		*		*	290	NJ		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:		Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:		(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
CARBOXYLIC ACID ESTER		NA				*		*		*	360	NJ		*		*
DOCOSANE		NA				*		*		*		*	570	NJ		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)		16,000,000	N			*		*		*		*		*		*
HEPTADECANE		NA				*		*		*		*	790	NJ		*
HEPTADECANE, 9-OCTYL-		NA				*		*		*	450	NJ	2000	NJ		*
HEXADECANOIC ACID (CAS# 57-10-3)		NA			120	NJ	440	NJ	89	NJ		*		*		*
NONACOSANE (CAS# 630-03-5)		NA			870	NJ		*		*		*	1800	NJ	840	NJ
NONADECANE		NA				*		*	160	NJ	430	NJ		*		*
OCTACOSANE		NA			500	NJ		*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)		NA			140	NJ		*		*	130	NJ	190	NJ		*
PENTADECANE, 8-HEXYL-		NA				*		*		*		*		*		*
PHENANTHRENE,9-METHYL-		NA			230	NJ		*		*		*		*		*
TRICOSANE		NA				*		*		*		*	570	NJ		*
ICP Inorganic Analyses - SW6010B (MG/KG)																
ALUMINUM		7,800	N	**25,798**	12400		15500		12500		8520		7020		13500	
ARSENIC		0.43	C	**12.64**	53.9		133		107		4.4		6.3		2	
BARIUM		**550**	N	298.28	73.3		109		108		53.4		44.9		54.6	
BERYLLIUM		**16**	N	2.35	0.68		0.87		0.78		0.6	U	0.59	U	0.67	
CALCIUM		NA		**4,207**	1580		2520		3250		2860		9240		1810	
CHROMIUM		**12,000** ‡	N	97.20	56.9		54.8		40.9		87.6		50.4		68.2	
COBALT		**160**	N	22.26	13.1		18.5		15.1		7.1		5.4		14.9	
COPPER		**310**	N	47.76	32.9		47.6		34		54.3		27		26.6	
IRON		2,300	N	**31,951**	30500		34200		26900		18300		16700		25200	
LEAD		**400** ‡		329.76	64.3		71.9		72		65.6		62.5		20.6	
MAGNESIUM		NA		**7,093**	1360	L	3940	L	2520	L	1850	L	5350	L	4830	L
MANGANESE		160	N	**1,251**	571	J	800	J	695	J	216	J	231	J	342	J
MERCURY (by CVAA)		NA		**0.29**	0.41		0.54		0.15		0.16		0.13		0.1	U
NICKEL		**160**	N	40.12	13.7		19.9		13.5		14.4		10.7		31.4	
PHOSPHORUS		NA		NA	792	J	850	J	921	J	1530	J	1320	J	205	J
POTASSIUM		NA		**4,945**	514	L	888	L	890	L	704	L	625	L	859	L
SELENIUM		**39**	N	0.88	1.2	J	0.71	J	0.62	UJ	0.6	UJ	0.59	UJ	0.56	UJ
SILICON		NA		NA	1290	J	1850	J	1370	J	1300	J	1400	J	1350	J
SILVER		**39**	N	0.74	2		1.3		0.73		0.85		0.59	U	0.56	U
SODIUM		NA		**55.80**	57.2	U	65	U	61.6	U	59.9	U	58.7	U	55.5	U
STRONTIUM		**4,700**	N	NA	8.1		11.8		13		12.9		11		8.5	
SULFUR		NA		NA	212		293		313		387		422		73.9	
THALLIUM		0.55	N	**1.36**	1.1	U	1.3	U	1.2	U	1.2	U	1.2	U	1.1	U
TIN		**4,700**	N	NA	3.8		3.4		2.7		4.5		2.3	U	2.2	U
TITANIUM		**31,000**	N	NA	252		445		378		253		199		272	
VANADIUM		55	N	**66.76**	52		85.8		55.8		37.6		33.7		47.6	
ZINC		**2,300**	N	308.8	73.5		88.8		76.9		86.1		80.2		33.1	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:	Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:	(adjusted		ground\2	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute	downward)\1														
IC Scan - EPA 300M (MG/KG)															
CHLORIDE	NA			3		7.36		4.49		2.2		2.21		3.39	
FLUORIDE	NA			4.86	L	4.86	L	3.35		4.83		4.61		4.76	
NITRATE-N	13,000	N		3.28		5.47		6.68		10.3		11.6		1.2	U
PHOSPHATE-P	NA			3.84	L	4	L	5.07		37.5		34		2.36	
SULFATE	NA			9.6		9.3		8.62		8.38		10.6		11.2	
Mustard and Mustard Breakdown Products (UG/KG)															
THIODIGLYCOL	39,100	\3,N		985	U	813	J	1117	U	1130	U	1156	U	1105	U
Other Parameters (MG/KG unless otherwise indicated)															
CYANIDE	160 ‡	N		0.58	U	0.68	U	0.62	U	1.19		0.68	U	0.54	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. Except for mustard, these values were calculated for that investigation For mustard, the source is the USACHPPM residential HBESL.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.

C = Carcinogen as listed on the USEPA RBC table.

NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

Table 2

AUES List of Compounds for Selected OU-4 Residence Samples (Includes Indicator and Agent Breakdown Compounds)

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:		Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:		RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute		downward)[1]																
Volatile Organic Compounds - SW8260B (UG/KG)																		
ACETONITRILE		NA			5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
ACROLEIN		160,000	N		5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
BENZYL BROMIDE		NA			5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
BENZYL CHLORIDE		3,800	C		5	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
CARBON DISULFIDE		780,000	N		11		11		38	J	11		11		8		26	
CARBON TETRACHLORIDE		4,900	C		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CHLOROBENZENE		160,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CHLOROFORM		78,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
CHLOROPICRIN		NA			27	U	27	U	28	U	25	U	25	U	24	U	26	U
VOC Tentatively Identified Compounds (UG/KG)																		
ALCOHOL		NA				*		*		*		*		*		*		*
ALLYL ALCOHOL		NA				*		*		*		*		*		*		*
BENZYL IODIDE		NA				*		*		*		*		*		*		*
BROMOACETONE		780,000 ‡	N			*		*		*		*		*		*		*
BROMOBENZENE		NA				*		*		*		*		*		*		*
BROMOMETHYL ETHER		NA				*		*		*		*		*		*		*
BUTYL MERCAPTAN		NA				*		*		*		*		*		*		*
CHLORINATED ACETONE		NA				*		*		*		*		*		*		*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N			*		*		*		*		*		*		*
CHLOROACETONE		780,000 ‡	N			*		*		*		*		*		*		*
CHLOROACETONITRILE		NA				*		*		*		*		*		*		*
CHLOROMETHYL ETHER		NA				*		*		*		*		*		*		*
CHLOROMETHYL ETHYL ETHER		NA				*		*		*		*		*		*		*
CROTONALDEHYDE		340	C			*		*		*		*		*		*		*
ETHYL BROMOACETATE		7,000,000 ‡	N			*		*		*		*		*		*		*
ETHYL CHLOROFORMATE		NA				*		*		*		*		*		*		*
ETHYL DIBROMOACETATE		7,000,000 ‡	N			*		*		*		*		*		*		*
ETHYL MERCAPTAN		NA				*		*		*		*		*		*		*
METHYL BROMOACETATE		NA				*		*		*		*		*		*		*
METHYL CHLOROACETATE		NA				*		*		*		*		*		*		*
METHYL CHLOROFORMATE		NA				*		*		*		*		*		*		*
METHYL CHLOROSULFONATE		NA				*		*		*		*		*		*		*
PERCHLOROMETHYLMERCAPTAN		NA				*		*		*		*		*		*		*
THIOPHENE		NA				*		*		*		*		*		*		*
TRICHLOROACETONITRILE		NA				*		*		*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)[1]																
Semivolatile Organic Compounds - SW8270C (UG/KG)																	
HEXACHLOROETHANE	46,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
O-CHLORONITROBENZENE	26,000	C		82	U	78	U	83	U	81	U	81	U	80	U	84	U
PHENYL HYDRAZINE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
PHENYL ISOCYANATE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
PHENYL ISOTHIOCYANATE	NA			82	U	78	U	83	U	81	U	81	U	80	U	84	U
SVOC Tentatively Identified Compounds (UG/KG)																	
BENZOTRICHLORIDE	NA				*		*		*		*		*		*		*
BENZYL FLUORIDE	NA				*		*		*		*		*		*		*
DIPHENYLCHLOROARSINE	NA				*		*		*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)	NA			260	NJ		*		*		*	4200	NJ	260	NJ	250	NJ
o-TOLYL ISOCYANIDE	NA				*		*		*		*		*		*		*
PHENYL ISOCYANIDE	NA				*		*		*		*		*		*		*
PHENYLDICHLOROARSINE	NA				*		*		*		*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)																	
ALUMINUM	7,800	N	**25,798**	24800		27300		36300		26000		18400		21400		29700	
ARSENIC *(Indicator only)*	0.43	C	**12.64**	1.5		1.7		1.4		2.2		36.1		14		12	
BARIUM *(Indicator only)*	**550**	N	298.28	121		156		168		124		69		98		168	
CADMIUM *(Indicator only)*	**7.8**	N	0.32	0.48	U	0.56	U	0.57	U	0.55	U	0.56	U	0.56	U	0.54	U
CALCIUM *(Indicator only)*	NA		**4,207**	707		705		1010		737		868		951		1320	
IRON	2,300	N	**31,951**	32300		36500		43900		38600		26400		28300		36600	
LEAD *(Indicator only)*	**400** [‡]		329.76	13.6		21.5		16.4		15.9		24.6		26.6		24.5	
MAGNESIUM	NA		**7,093**	11700	L	14000	L	22300	L	11700	L	8180	L	10100	L	13100	L
MANGANESE *(Indicator only)*	160	N	**1,251**	401	J	366	J	840	J	516	J	344	J	726	J	512	J
NICKEL *(Indicator only)*	**160**	N	40.12	53.3		43.1		87.2		53.6		32.7		41.9		43.9	
PHOSPHORUS	NA		NA	221	J	239	J	296	J	280	J	333	J	357	J	420	J
POTASSIUM *(Indicator only)*	NA		**4,945**	8530	L	12500	L	13900	L	9190	L	5400	L	6650	L	9580	L
SELENIUM *(Indicator only)*	**39**	N	0.88	0.48	UJ	0.56	UJ	0.72	J	0.55	UJ	0.56	UJ	0.58	J	0.54	UJ
SILICON	NA		NA	1510	J	1380	J	1580	J	1300	J	2080	J	2590	J	2300	J
SODIUM	NA		**55.80**	130		134		157		92.6		68		139		112	
SULFUR	NA		NA	75.8		76.7		103		101		106		81.7		99.4	
TIN *(Indicator only)*	**4,700**	N	NA	1.9	U	2.4		2.3	U	2.2	U	2.3	U	2.2	U	3.1	
TITANIUM *(Indicator only)*	**31,000**	N	NA	1420		1900		2320		1730		991		1010		1440	
ZINC	**2,300**	N	308.8	135		114		140		109		73.5		89.9		103	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[\2]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)[\1]																
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)																	
BROMIDE	NA			1.22	U	1.17	U	1.25	U	1.22	U	1.2	U	1.18	U	1.26	U
CHLORIDE	NA			17.7		4.07		3.88		2.58		4.24		70.1		23.5	
FLUORIDE	NA			1.58		1.17	U	1.25	U	1.22	U	3.55	L	3.91	L	6.66	L
NITRATE-N	13,000	N		1.22	U	1.17	U	1.25	U	1.22	U	2.68		1.18	U	4.06	
SULFATE	NA			83.6		46.7		62		58.9		14.7		27.2		19	
Mustard and Mustard Breakdown Products (UG/KG)																	
MUSTARD	10	\3,C		8	U	8	U	8	U	8	U	8	U	8	U	8	U
1,4-OXATHIANE *(Agent Breakdown Product only)*	78,000	\3,N		81	U	82	U	80	U	83	U	78	U	80	U	81	U
1,4-DITHIANE *(Agent Breakdown Product only)*	78,000	N		79	U	79	U	77	U	80	U	76	U	77	U	79	U
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		1056	U	1001	U	1069	U	1039	U	257	J	411	J	1088	U
Lewisite Breakdown Products (UG/KG)																	
CVAA & CVAO *(Agent Breakdown Product only)*	890	\3,C		10	U	9	U	10	U	10	U	10	U	10	U	10	U
Other Parameters (MG/KG unless otherwise indicated)																	
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	180	U	180	U	180	U	180	U	180	U	180	U
ADAMSITE **	NA				**		**		**		**	7.7	U		**		**
AMMONIA-N	NA			1.2	U	1.15	U	1.23	U	1.22	U	1.2	U	1.19	U	1.27	U
CYANIDE *(Indicator only)*	160 ‡	N		0.61	U	0.54	U	0.6	U	0.59	U	0.61	U	0.59	U	0.64	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. Except for mustard, these values were calculated for that investigation For mustard, the source is the USACHPPM residential HBESL.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:		Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:		(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
Volatile Organic Compounds - SW8260B (UG/KG)																
ACETONITRILE		NA			4.8	U	7.4	U	6.5	U	5	U	7	U	5.5	U
ACROLEIN		160,000	N		4.8	U	16		10		5	U	7	U	7	
BENZYL BROMIDE		NA			4.8	U	7.4	U	6.5	U	16		7	U	5.5	U
BENZYL CHLORIDE		3,800	C		4.8	UJ	7.4	UJ	6.5	UJ	5	UJ	7	UJ	5.5	UJ
CARBON DISULFIDE		780,000	N		170	J	8		8		15		8		10	
CARBON TETRACHLORIDE		4,900	C		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	U
CHLOROBENZENE		160,000	N		0.97	U	1.5	U	1.3	U	1	U	1.4	U	1.1	UJ
CHLOROFORM		78,000	N		0.97	U	1.5	U	1	J	1	U	1.4	U	1.1	U
CHLOROPICRIN		NA			24	U	37	U	32	U	25	U	25	U	27	U
VOC Tentatively Identified Compounds (UG/KG)																
ALCOHOL		NA				*		*		*		*		*		*
ALLYL ALCOHOL		NA				*		*		*		*		*		*
BENZYL IODIDE		NA				*		*		*		*		*		*
BROMOACETONE		780,000 ‡	N			*		*		*		*		*		*
BROMOBENZENE		NA				*		*		*		*		*		*
BROMOMETHYL ETHER		NA				*		*		*		*		*		*
BUTYL MERCAPTAN		NA				*		*		*		*		*		*
CHLORINATED ACETONE		NA				*		*		*		*		*		*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N			*		*		*		*		*		*
CHLOROACETONE		780,000 ‡	N			*		*		*		*		*		*
CHLOROACETONITRILE		NA				*		*		*		*		*		*
CHLOROMETHYL ETHER		NA				*		*		*		*		*		*
CHLOROMETHYL ETHYL ETHER		NA				*		*		*		*		*		*
CROTONALDEHYDE		340	C			*		*		*		*		*		*
ETHYL BROMOACETATE		7,000,000 ‡	N			*		*		*		*		*		*
ETHYL CHLOROFORMATE		NA				*		*		*		*		*		*
ETHYL DIBROMOACETATE		7,000,000 ‡	N			*		*		*		*		*		*
ETHYL MERCAPTAN		NA				*		*		*		*		*		*
METHYL BROMOACETATE		NA				*		*		*		*		*		*
METHYL CHLOROACETATE		NA				*		*		*		*		*		*
METHYL CHLOROFORMATE		NA				*		*		*		*		*		*
METHYL CHLOROSULFONATE		NA				*		*		*		*		*		*
PERCHLOROMETHYLMERCAPTAN		NA				*		*		*		*		*		*
THIOPHENE		NA				*		*		*		*		*		*
TRICHLOROACETONITRILE		NA				*		*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:	Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:	(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
Semivolatile Organic Compounds - SW8270C (UG/KG)															
HEXACHLOROETHANE	46,000	C		76	U	93	U	86	U	88	U	90	U	86	U
O-CHLORONITROBENZENE	26,000	C		76	U	93	U	86	U	88	U	90	U	86	U
PHENYL HYDRAZINE	NA			76	U	93	U	86	U	88	U	90	U	86	U
PHENYL ISOCYANATE	NA			76	U	93	U	86	U	88	U	90	U	86	U
PHENYL ISOTHIOCYANATE	NA			76	U	93	U	86	U	88	U	90	U	86	U
SVOC Tentatively Identified Compounds (UG/KG)															
BENZOTRICHLORIDE	NA				*		*		*		*		*		*
BENZYL FLUORIDE	NA				*		*		*		*		*		*
DIPHENYLCHLOROARSINE	NA				*		*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)	NA			140	NJ		*		*	130	NJ	190	NJ		*
o-TOLYL ISOCYANIDE	NA				*		*		*		*		*		*
PHENYL ISOCYANIDE	NA				*		*		*		*		*		*
PHENYLDICHLOROARSINE	NA				*		*		*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)															
ALUMINUM	7,800	N	**25,798**	12400		15500		12500		8520		7020		13500	
ARSENIC *(Indicator only)*	0.43	C	**12.64**	53.9		133		107		4.4		6.3		2	
BARIUM *(Indicator only)*	**550**	N	298.28	73.3		109		108		53.4		44.9		54.6	
CADMIUM *(Indicator only)*	**7.8**	N	0.32	0.57	U	0.65	U	0.62	U	0.6	U	0.59	U	0.56	U
CALCIUM *(Indicator only)*	NA		**4,207**	1580		2520		3250		2860		9240		1810	
IRON	2,300	N	**31,951**	30500		34200		26900		18300		16700		25200	
LEAD *(Indicator only)*	**400** [‡]		329.76	64.3		71.9		72		65.6		62.5		20.6	
MAGNESIUM	NA		**7,093**	1360	L	3940	L	2520	L	1850	L	5350	L	4830	L
MANGANESE *(Indicator only)*	160	N	**1,251**	571	J	800	J	695	J	216	J	231	J	342	J
NICKEL *(Indicator only)*	**160**	N	40.12	13.7		19.9		13.5		14.4		10.7		31.4	
PHOSPHORUS	NA		NA	792	J	850	J	921	J	1530	J	1320	J	205	J
POTASSIUM *(Indicator only)*	NA		**4,945**	514	L	888	L	890	L	704	L	625	L	859	L
SELENIUM *(Indicator only)*	**39**	N	0.88	1.2	J	0.71	J	0.62	UJ	0.6	UJ	0.59	UJ	0.56	UJ
SILICON	NA		NA	1290	J	1850	J	1370	J	1300	J	1400	J	1350	J
SODIUM	NA		**55.80**	57.2	U	65	U	61.6	U	59.9	U	58.7	U	55.5	U
SULFUR	NA		NA	212		293		313		387		422		73.9	
TIN *(Indicator only)*	**4,700**	N	NA	3.8		3.4		2.7		4.5		2.3	U	2.2	U
TITANIUM *(Indicator only)*	**31,000**	N	NA	252		445		378		253		199		272	
ZINC	**2,300**	N	308.8	73.5		88.8		76.9		86.1		80.2		33.1	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:	Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:	(adjusted		ground\2	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute	downward)\1														
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)															
BROMIDE	NA			1.23	U	1.39	U	1.3	U	1.32	U	1.4	U	1.2	U
CHLORIDE	NA			3		7.36		4.49		2.2		2.21		3.39	
FLUORIDE	NA			4.86	L	4.86	L	3.35		4.83		4.61		4.76	
NITRATE-N	13,000	N		3.28		5.47		6.68		10.3		11.6		1.2	U
SULFATE	NA			9.6		9.3		8.62		8.38		10.6		11.2	
Mustard and Mustard Breakdown Products (UG/KG)															
MUSTARD	10	\3,C		NS		NS		NS		NS		NS		NS	
1,4-OXATHIANE *(Agent Breakdown Product only)*	78,000	\3,N		78	U	78	U	83	U	83	U	81	U	84	U
1,4-DITHIANE *(Agent Breakdown Product only)*	78,000	N		76	U	76	U	81	U	81	U	79	U	82	U
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		985	U	813	J	1117	U	1130	U	1156	U	1105	U
Lewisite Breakdown Products (UG/KG)															
CVAA & CVAO *(Agent Breakdown Product only)*	890	\3,C		9	U	11	U	11	U	11	U	11	U	10	U
Other Parameters (MG/KG unless otherwise indicated)															
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	180	U	180	U	180	U	180	U	180	U
ADAMSITE **	NA				**	7.7	U	7.7	U		**		**		**
AMMONIA-N	NA			1.25	U	1.38	U	1.29	U	1.3	U	1.41	U	1.18	U
CYANIDE *(Indicator only)*	160 ‡	N		0.58	U	0.68	U	0.62	U	1.19		0.68	U	0.54	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. Except for mustard, these values were calculated for that investigation For mustard, the source is the USACHPPM residential HBESL.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

Table 2A

AUES List Detections for Selected OU-4 Residence Samples (Includes Indicator and Agent Breakdown Compounds)

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:		Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:		RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute		downward)[1]																
Volatile Organic Compounds - SW8260B (UG/KG)																		
ACROLEIN		160,000	N		5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
BENZYL BROMIDE		NA			5.3	U	5.4	U	5.6	U	5	U	5	U	4.8	U	5.2	U
CARBON DISULFIDE		780,000	N		11		11		38	J	11		11		8		26	
CHLOROFORM		78,000	N		1.1	U	1.1	U	1.1	U	1	U	1	U	0.97	U	1	U
SVOC Tentatively Identified Compounds (UG/KG)																		
OLEIC ACID (CAS# 112-80-1)		NA			260	NJ		*		*		*	4200	NJ	260	NJ	250	NJ
ICP Inorganic Analyses - SW6010B (MG/KG)																		
ALUMINUM		7,800	N	**25,798**	24800		27300		36300		26000		18400		21400		29700	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	1.5		1.7		1.4		2.2		36.1		14		12	
BARIUM *(Indicator only)*		**550**	N	298.28	121		156		168		124		69		98		168	
CALCIUM *(Indicator only)*		NA		**4,207**	707		705		1010		737		868		951		1320	
IRON		2,300	N	**31,951**	32300		36500		43900		38600		26400		28300		36600	
LEAD *(Indicator only)*		**400** [‡]		329.76	13.6		21.5		16.4		15.9		24.6		26.6		24.5	
MAGNESIUM		NA		**7,093**	11700	L	14000	L	22300	L	11700	L	8180	L	10100	L	13100	L
MANGANESE *(Indicator only)*		160	N	**1,251**	401	J	366	J	840	J	516	J	344	J	726	J	512	J
NICKEL *(Indicator only)*		**160**	N	40.12	53.3		43.1		87.2		53.6		32.7		41.9		43.9	
PHOSPHORUS		NA		NA	221	J	239	J	296	J	280	J	333	J	357	J	420	J
POTASSIUM *(Indicator only)*		NA		**4,945**	8530	L	12500	L	13900	L	9190	L	5400	L	6650	L	9580	L
SELENIUM *(Indicator only)*		**39**	N	0.88	0.48	UJ	0.56	UJ	0.72	J	0.55	UJ	0.56	UJ	0.58	J	0.54	UJ
SILICON		NA		NA	1510	J	1380	J	1580	J	1300	J	2080	J	2590	J	2300	J
SODIUM		NA		**55.80**	130		134		157		92.6		68		139		112	
SULFUR		NA		NA	75.8		76.7		103		101		106		81.7		99.4	
TIN *(Indicator only)*		**4,700**	N	NA	1.9	U	2.4		2.3	U	2.2	U	2.3	U	2.2	U	3.1	
TITANIUM *(Indicator only)*		**31,000**	N	NA	1420		1900		2320		1730		991		1010		1440	
ZINC		**2,300**	N	308.8	135		114		140		109		73.5		89.9		103	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-3819(48th)-1		OU4-3819(48th)-2		OU4-3819(48th)-3		OU4-3819(48th)-4		OU4-4710QS-1		OU4-4710QS-3		OU4-4710QS-4	
TYPE or LOCATION:	Residential		Metals	Quadrant 1		Quadrant 2		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 3		Quadrant 4	
SAMPLE DEPTH:	RBC		Back-	9-15"		9-15"		9-15"		9-15"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground\2	2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001		2/8/2001	
Analyses performed by Southwest Research Institute	downward)\1																
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)																	
CHLORIDE	NA			17.7		4.07		3.88		2.58		4.24		70.1		23.5	
FLUORIDE	NA			1.58		1.17	U	1.25	U	1.22	U	3.55	L	3.91	L	6.66	L
NITRATE-N	13,000	N		1.22	U	1.17	U	1.25	U	1.22	U	2.68		1.18	U	4.06	
SULFATE	NA			83.6		46.7		62		58.9		14.7		27.2		19	
Mustard and Mustard Breakdown Products (UG/KG)																	
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		1056	U	1001	U	1069	U	1039	U	257	J	411	J	1088	U
Other Parameters (MG/KG unless otherwise indicated)																	
CYANIDE *(Indicator only)*	160 ‡	N		0.61	U	0.54	U	0.6	U	0.59	U	0.61	U	0.59	U	0.64	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.
\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.
\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.
N = Non-carcinogen. This RBC was adjusted down by a factor of 10
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:		REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:		Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:		(adjusted		ground[2]	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
Volatile Organic Compounds - SW8260B (UG/KG)																
ACROLEIN		160,000	N		4.8	U	16		10		5	U	7	U	7	
BENZYL BROMIDE		NA			4.8	U	7.4	U	6.5	U	16		7	U	5.5	U
CARBON DISULFIDE		780,000	N		170	J	8		8		15		8		10	
CHLOROFORM		78,000	N		0.97	U	1.5	U	1	J	1	U	1.4	U	1.1	U
SVOC Tentatively Identified Compounds (UG/KG)																
OLEIC ACID (CAS# 112-80-1)		NA			140	NJ		*		*	130	NJ	190	NJ		*
ICP Inorganic Analyses - SW6010B (MG/KG)																
ALUMINUM		7,800	N	**25,798**	12400		15500		12500		8520		7020		13500	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	53.9		133		107		4.4		6.3		2	
BARIUM *(Indicator only)*		**550**	N	298.28	73.3		109		108		53.4		44.9		54.6	
CALCIUM *(Indicator only)*		NA		**4,207**	1580		2520		3250		2860		9240		1810	
IRON		2,300	N	**31,951**	30500		34200		26900		18300		16700		25200	
LEAD *(Indicator only)*		**400** ‡		329.76	64.3		71.9		72		65.6		62.5		20.6	
MAGNESIUM		NA		**7,093**	1360	L	3940	L	2520	L	1850	L	5350	L	4830	L
MANGANESE *(Indicator only)*		160	N	**1,251**	571	J	800	J	695	J	216	J	231	J	342	J
NICKEL *(Indicator only)*		**160**	N	40.12	13.7		19.9		13.5		14.4		10.7		31.4	
PHOSPHORUS		NA		NA	792	J	850	J	921	J	1530	J	1320	J	205	J
POTASSIUM *(Indicator only)*		NA		**4,945**	514	L	888	L	890	L	704	L	625	L	859	L
SELENIUM *(Indicator only)*		**39**	N	0.88	1.2	J	0.71	J	0.62	UJ	0.6	UJ	0.59	UJ	0.56	UJ
SILICON		NA		NA	1290	J	1850	J	1370	J	1300	J	1400	J	1350	J
SODIUM		NA		**55.80**	57.2	U	65	U	61.6	U	59.9	U	58.7	U	55.5	U
SULFUR		NA		NA	212		293		313		387		422		73.9	
TIN *(Indicator only)*		**4,700**	N	NA	3.8		3.4		2.7		4.5		2.3	U	2.2	U
TITANIUM *(Indicator only)*		**31,000**	N	NA	252		445		378		253		199		272	
ZINC		**2,300**	N	308.8	73.5		88.8		76.9		86.1		80.2		33.1	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

Selected OU-4 Residences

SAMPLE ID:	REGION III			OU4-4625RP-3A		OU4-4625RP-3B		OU4-4625RP-4		OU4-4633RP-1		OU4-4633RP-2		OU4-4633RP-SB	
TYPE or LOCATION:	Residential		Metals	Quadrant 3		Quadrant 3		Quadrant 4		Quadrant 1		Quadrant 2		Quad 2 at Boring	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"		0-12"	
SAMPLING DATE:	(adjusted		ground\2	2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001		2/13/2001	
Analyses performed by Southwest Research Institute	downward)\1														
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)															
CHLORIDE	NA			3		7.36		4.49		2.2		2.21		3.39	
FLUORIDE	NA			4.86	L	4.86	L	3.35		4.83		4.61		4.76	
NITRATE-N	13,000	N		3.28		5.47		6.68		10.3		11.6		1.2	U
SULFATE	NA			9.6		9.3		8.62		8.38		10.6		11.2	
Mustard and Mustard Breakdown Products (UG/KG)															
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		985	U	813	J	1117	U	1130	U	1156	U	1105	U
Other Parameters (MG/KG unless otherwise indicated)															
CYANIDE *(Indicator only)*	160 ‡	N		0.58	U	0.68	U	0.62	U	1.19		0.68	U	0.54	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table.

(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10

C = Carcinogen as listed on the USEPA RBC table.

NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

Table 3

AUES List Scan Results for Selected OU-4 Residence Samples

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

Selected OU-4 Residences

Analyses performed by Southwest Research Institute			**OU4-3819-1**	**OU4-3819-2**	**OU4-3819-3**	**OU4-3819-4**	**OU4-4710QS-1**	**OU4-4710QS-3**	**OU4-4710QS-4**
COMPOUND	Chemical Abstract Service (CAS) No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
Acetyl Fluoride	557-99-3	*fluoride*	YES	NO	NO	NO	YES	YES	YES
Allyl Isocyanide		*cyanide*	NO	NO	NO	NO	NO	NO	NO
Allyl Isothiocyanate	57-06-7	*cyanide*	NO	NO	NO	NO	NO	NO	NO
Aluminium Selenide	1302-82-5	*aluminum*, selenium*	NO	NO	YES	NO	NO	YES	NO
Ammonium Chloride	12125-02-09	*chloride, ammonia*	NO	NO	NO	NO	NO	NO	NO
Ammonium Cyanide		*ammonia, cyanide*	NO	NO	NO	NO	NO	NO	NO
Ammonium Nitrate	6484-52-2	*nitrate, ammonia*	NO	NO	NO	NO	NO	NO	NO
Ammonium Picrate	131-74-8	*ammonia*	NO	NO	NO	NO	NO	NO	NO
Arsenic Trichloride	7784-34-1	*chloride, arsenic**	YES	YES	YES	YES	YES	YES	YES
Arsenic Trifluoride	7784-35-2	*fluoride, arsenic**	YES	NO	NO	NO	YES	YES	YES
Arsenic Trioxide	1327-53-3	*arsenic**	YES	YES	YES	YES	YES	YES	YES
Arsine	7784-42-1	*arsenic**	YES	YES	YES	YES	YES	YES	YES
Barium Peroxide	1304-29-6	*barium*	YES	YES	YES	YES	YES	YES	YES
Bromine	7726-95-6	*bromide*	NO	NO	NO	NO	NO	NO	NO
Bromoketone	593-95-3	*bromide*	NO	NO	NO	NO	NO	NO	NO
Bromoacetyl Bromide	598-21-0	*bromide*	NO	NO	NO	NO	NO	NO	NO
Bromobenzyl Cyanide	5798-79-8	*bromide, cyanide*	NO	NO	NO	NO	NO	NO	NO
Bromoxylyl Cyanide		*bromide, cyanide*	NO	NO	NO	NO	NO	NO	NO
Cacodyl	144-21-8	*sodium*, arsenic**	YES	YES	YES	YES	YES	YES	YES
Cacodyl Bromide		*bromide*	NO	NO	NO	NO	NO	NO	NO
Cacodyl Chloride		*chloride*	YES	YES	YES	YES	YES	YES	YES
Cacodyl Cyanide		*cyanide*	NO	NO	NO	NO	NO	NO	NO
Cadmium Methyl		*cadmium*	NO	NO	NO	NO	NO	NO	NO
Calcium Carbonate	471-34-1	*calcium**	YES	YES	YES	YES	YES	YES	YES
Calcium Sulfate	7778-18-9	*sulfate, calcium**	YES	YES	YES	YES	YES	YES	YES
Chlorine	7782-50-5	*chloride*	YES	YES	YES	YES	YES	YES	YES
Cyanogen	460-19-5	*cyanide*	NO	NO	NO	NO	NO	NO	NO
Cyanogen Bromide	506-68-3	*bromide, cyanide*	NO	NO	NO	NO	NO	NO	NO
Cyanogen Chloride	506-77-4	*chloride, cyanide*	NO	NO	NO	NO	NO	NO	NO
Dichloromethyl Ether	542-88-1	*chloride*	YES	YES	YES	YES	YES	YES	YES
Dichloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES	YES	YES	YES
Dichloropropyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES	YES	YES	YES
Dimethylarsine	593-57-7	*arsenic**	YES	YES	YES	YES	YES	YES	YES
Ethyl Sulfide	352-93-2	*sulfur*	YES	YES	YES	YES	YES	YES	YES
Hydrochloric Acid	7647-01-0	*chloride*	YES	YES	YES	YES	YES	YES	YES
Hydrocyanic Acid	74-90-8	*cyanide*	NO	NO	NO	NO	NO	NO	NO
Hydrofluoric Acid	7664-39-3	*fluoride*	YES	NO	NO	NO	YES	YES	YES
Hydrogen Selenide	7/5/7783	*selenium*	NO	NO	YES	NO	NO	YES	NO
Lead Ferrocyanide		*lead, iron, cyanide*	NO	NO	NO	NO	NO	NO	NO
Lead Peroxide	1309-60-0	*lead*	YES	YES	YES	YES	YES	YES	YES
Lead Thiocyanate	592-87-0	*lead, cyanide*	NO	NO	NO	NO	NO	NO	NO

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

Selected OU-4 Residences

Analyses performed by Southwest Research Institute			**OU4-3819-1**	**OU4-3819-2**	**OU4-3819-3**	**OU4-3819-4**	**OU4-4710QS-1**	**OU4-4710QS-3**	**OU4-4710QS-4**
COMPOUND	Chemical Abstract Service (CAS) No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
Magnesium Arsenide		*magnesium*, arsenic**	YES	YES	YES	YES	YES	YES	YES
Magnesium Carbonate	546-93-0	*magnesium**	YES	YES	YES	YES	YES	YES	YES
Magnesium Oxide	1309-48-4	*magnesium**	YES	YES	YES	YES	YES	YES	YES
Methyl Chloroarsine		*chloride, arsenic**	YES	YES	YES	YES	YES	YES	YES
Methyl Isocyanide	593-75-9	*cyanide*	NO	NO	NO	NO	NO	NO	NO
Methyl Selenide	593-79-3	*selenium*	NO	NO	YES	NO	NO	YES	NO
Nickel Carbonyl	13463-39-3	*nickel*	YES	YES	YES	YES	YES	YES	YES
Oxalyl Chloride	79-37-8	*chloride*	YES	YES	YES	YES	YES	YES	YES
Phenylcarbylamine Chloride	622-44-6	*chloride*	YES	YES	YES	YES	YES	YES	YES
Phosgene	75-44-5	*chloride*	YES	YES	YES	YES	YES	YES	YES
Potassium Chlorate	3811-04-9	*chloride, potassium**	YES	YES	YES	YES	YES	YES	YES
Potassium Nitrate	7757-79-1	*nitrate, potassium**	NO	NO	NO	NO	YES	NO	YES
Potassium Perchlorate	7778-74-7	*potassium**	YES	YES	YES	YES	YES	YES	YES
Potassium Permanganate	7722-64-7	*manganese, potassium**	YES	YES	YES	YES	YES	YES	YES
Silicon	7440-21-3	*silicon*	YES	YES	YES	YES	YES	YES	YES
Silicon Tetrachloride	409-21-2	*chloride, silicon*	YES	YES	YES	YES	YES	YES	YES
Sodium Bicarbonate	144-55-8	*sodium**	YES	YES	YES	YES	YES	YES	YES
Sodium Chlorate	7775-09-9	*chloride, sodium**	YES	YES	YES	YES	YES	YES	YES
Sodium Cyanide	143-33-9	*sodium, cyanide*	NO	NO	NO	NO	NO	NO	NO
Sodium Hydroxide	1310-73-2	*sodium**	YES	YES	YES	YES	YES	YES	YES
Sodium Nitrate	7631-99-4	*nitrate, sodium**	NO	NO	NO	NO	YES	NO	YES
Sodium Oleate	143-19-1	*sodium**	YES	YES	YES	YES	YES	YES	YES
Sodium Silicate	6834-92-0	*sodium*, silicon*	YES	YES	YES	YES	YES	YES	YES
Sodium Stearate	822-16-2	*sodium**	YES	YES	YES	YES	YES	YES	YES
Stannic Chloride (Tin Tetrachloride)	7646-78-8	*chloride, tin*	NO	YES	NO	NO	NO	NO	YES
Sulfur Chloride	10025-67-9	*chloride, sulfur*	YES	YES	YES	YES	YES	YES	YES
Sulfur Trioxide	7446-11-9	*sulfur*	YES	YES	YES	YES	YES	YES	YES
Sulfuryl Chloride	7791-25-5	*chloride, sulfur*	YES	YES	YES	YES	YES	YES	YES
Tetrachloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES	YES	YES	YES
Thermite		*aluminum*, iron**	YES	YES	YES	YES	YES	YES	YES
Thiophosgene	463-71-8	*chloride, sulfur*	YES	YES	YES	YES	YES	YES	YES
Titanium Tetrachloride	7550-45-0	*chloride, titanium*	YES	YES	YES	YES	YES	YES	YES
Trichloroacetyl Chloride	76-02-8	*chloride*	YES	YES	YES	YES	YES	YES	YES
Trichloroacetyl Cyanide		*chloride, cyanide*	NO	NO	NO	NO	NO	NO	NO
Trichlorohydrin	96-18-4	*chloride*	YES	YES	YES	YES	YES	YES	YES
Xylyl Bromide	35884-77-6	*bromide*	NO	NO	NO	NO	NO	NO	NO
Zinc Chloride mixture	7646-85-7	*chloride, zinc*	YES	YES	YES	YES	YES	YES	YES
Zinc Oxide	1314-13-2	*zinc*	YES	YES	YES	YES	YES	YES	YES

YES — **Presence of this compound cannot be ruled out.**

NO — **Presence of this compound not indicated.**

Shading indicates an exceedance of the RBC or background of at least one of the indicator compounds if all were detected. The asterisk shows which indicator compound exceeded.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

Selected OU-4 Residences

Analyses performed by Southwest Research Institute			**OU4-4625-3A**	**OU4-4625-3B**	**OU4-4625-4**	**OU4-4633-1**	**OU4-4633-2**	**OU4-4633-SB**
COMPOUND	Chemical Abstract Service (CAS) No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
Acetyl Fluoride	557-99-3	*fluoride*	YES	YES	YES	YES	YES	YES
Allyl Isocyanide		*cyanide*	NO	NO	NO	YES	NO	NO
Allyl Isothiocyanate	57-06-7	*cyanide*	NO	NO	NO	YES	NO	NO
Aluminium Selenide	1302-82-5	*aluminum*, selenium*	YES	YES	NO	NO	NO	NO
Ammonium Chloride	12125-02-09	*chloride, ammonia*	NO	NO	NO	NO	NO	NO
Ammonium Cyanide		*ammonia, cyanide*	NO	NO	NO	NO	NO	NO
Ammonium Nitrate	6484-52-2	*nitrate, ammonia*	NO	NO	NO	NO	NO	NO
Ammonium Picrate	131-74-8	*ammonia*	NO	NO	NO	NO	NO	NO
Arsenic Trichloride	7784-34-1	*chloride, arsenic**	YES	YES	YES	YES	YES	YES
Arsenic Trifluoride	7784-35-2	*fluoride, arsenic**	YES	YES	YES	YES	YES	YES
Arsenic Trioxide	1327-53-3	*arsenic**	YES	YES	YES	YES	YES	YES
Arsine	7784-42-1	*arsenic**	YES	YES	YES	YES	YES	YES
Barium Peroxide	1304-29-6	*barium*	YES	YES	YES	YES	YES	YES
Bromine	7726-95-6	*bromide*	NO	NO	NO	NO	NO	NO
Bromoketone	593-95-3	*bromide*	NO	NO	NO	NO	NO	NO
Bromoacetyl Bromide	598-21-0	*bromide*	NO	NO	NO	NO	NO	NO
Bromobenzyl Cyanide	5798-79-8	*bromide, cyanide*	NO	NO	NO	NO	NO	NO
Bromoxylyl Cyanide		*bromide, cyanide*	NO	NO	NO	NO	NO	NO
Cacodyl	144-21-8	*sodium*, arsenic**	NO	NO	NO	NO	NO	NO
Cacodyl Bromide		*bromide*	NO	NO	NO	NO	NO	NO
Cacodyl Chloride		*chloride*	YES	YES	YES	YES	YES	YES
Cacodyl Cyanide		*cyanide*	NO	NO	NO	YES	NO	NO
Cadmium Methyl		*cadmium*	NO	NO	NO	NO	NO	NO
Calcium Carbonate	471-34-1	*calcium**	YES	YES	YES	YES	YES	YES
Calcium Sulfate	7778-18-9	*sulfate, calcium**	YES	YES	YES	YES	YES	YES
Chlorine	7782-50-5	*chloride*	YES	YES	YES	YES	YES	YES
Cyanogen	460-19-5	*cyanide*	NO	NO	NO	YES	NO	NO
Cyanogen Bromide	506-68-3	*bromide, cyanide*	NO	NO	NO	NO	NO	NO
Cyanogen Chloride	506-77-4	*chloride, cyanide*	NO	NO	NO	YES	NO	NO
Dichloromethyl Ether	542-88-1	*chloride*	YES	YES	YES	YES	YES	YES
Dichloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES	YES	YES
Dichloropropyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES	YES	YES
Dimethylarsine	593-57-7	*arsenic**	YES	YES	YES	YES	YES	YES
Ethyl Sulfide	352-93-2	*sulfur*	YES	YES	YES	YES	YES	YES
Hydrochloric Acid	7647-01-0	*chloride*	YES	YES	YES	YES	YES	YES
Hydrocyanic Acid	74-90-8	*cyanide*	NO	NO	NO	YES	NO	NO
Hydrofluoric Acid	7664-39-3	*fluoride*	YES	YES	YES	YES	YES	YES
Hydrogen Selenide	7/5/7783	*selenium*	YES	YES	NO	NO	NO	NO
Lead Ferrocyanide		*lead, iron, cyanide*	NO	NO	NO	YES	NO	NO
Lead Peroxide	1309-60-0	*lead*	YES	YES	YES	YES	YES	YES
Lead Thiocyanate	592-87-0	*lead, cyanide*	NO	NO	NO	YES	NO	NO

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

Selected OU-4 Residences

Analyses performed by Southwest Research Institute			**OU4-4625-3A**	**OU4-4625-3B**	**OU4-4625-4**	**OU4-4633-1**	**OU4-4633-2**	**OU4-4633-SB**
COMPOUND	Chemical Abstract Service (CAS) No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
Magnesium Arsenide		*magnesium*, arsenic**	YES	YES	YES	YES	YES	YES
Magnesium Carbonate	546-93-0	*magnesium**	YES	YES	YES	YES	YES	YES
Magnesium Oxide	1309-48-4	*magnesium**	YES	YES	YES	YES	YES	YES
Methyl Chloroarsine		*chloride, arsenic**	YES	YES	YES	YES	YES	YES
Methyl Isocyanide	593-75-9	*cyanide*	NO	NO	NO	YES	NO	NO
Methyl Selenide	593-79-3	*selenium*	YES	YES	NO	NO	NO	NO
Nickel Carbonyl	13463-39-3	*nickel*	YES	YES	YES	YES	YES	YES
Oxalyl Chloride	79-37-8	*chloride*	YES	YES	YES	YES	YES	YES
Phenylcarbylamine Chloride	622-44-6	*chloride*	YES	YES	YES	YES	YES	YES
Phosgene	75-44-5	*chloride*	YES	YES	YES	YES	YES	YES
Potassium Chlorate	3811-04-9	*chloride, potassium**	YES	YES	YES	YES	YES	YES
Potassium Nitrate	7757-79-1	*nitrate, potassium**	YES	YES	YES	YES	YES	NO
Potassium Perchlorate	7778-74-7	*potassium**	YES	YES	YES	YES	YES	YES
Potassium Permanganate	7722-64-7	*manganese, potassium**	YES	YES	YES	YES	YES	YES
Silicon	7440-21-3	*silicon*	YES	YES	YES	YES	YES	YES
Silicon Tetrachloride	409-21-2	*chloride, silicon*	YES	YES	YES	YES	YES	YES
Sodium Bicarbonate	144-55-8	*sodium**	NO	NO	NO	NO	NO	NO
Sodium Chlorate	7775-09-9	*chloride, sodium**	NO	NO	NO	NO	NO	NO
Sodium Cyanide	143-33-9	*sodium, cyanide*	NO	NO	NO	NO	NO	NO
Sodium Hydroxide	1310-73-2	*sodium**	NO	NO	NO	NO	NO	NO
Sodium Nitrate	7631-99-4	*nitrate, sodium**	NO	NO	NO	NO	NO	NO
Sodium Oleate	143-19-1	*sodium**	NO	NO	NO	NO	NO	NO
Sodium Silicate	6834-92-0	*sodium*, silicon*	NO	NO	NO	NO	NO	NO
Sodium Stearate	822-16-2	*sodium**	NO	NO	NO	NO	NO	NO
Stannic Chloride (Tin Tetrachloride)	7646-78-8	*chloride, tin*	YES	YES	YES	YES	NO	NO
Sulfur Chloride	10025-67-9	*chloride, sulfur*	YES	YES	YES	YES	YES	YES
Sulfur Trioxide	7446-11-9	*sulfur*	YES	YES	YES	YES	YES	YES
Sulfuryl Chloride	7791-25-5	*chloride, sulfur*	YES	YES	YES	YES	YES	YES
Tetrachloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES	YES	YES
Thermite		*aluminum*, iron**	YES	YES	YES	YES	YES	YES
Thiophosgene	463-71-8	*chloride, sulfur*	YES	YES	YES	YES	YES	YES
Titanium Tetrachloride	7550-45-0	*chloride, titanium*	YES	YES	YES	YES	YES	YES
Trichloroacetyl Chloride	76-02-8	*chloride*	YES	YES	YES	YES	YES	YES
Trichloroacetyl Cyanide		*chloride, cyanide*	NO	NO	NO	YES	NO	NO
Trichlorohydrin	96-18-4	*chloride*	YES	YES	YES	YES	YES	YES
Xylyl Bromide	35884-77-6	*bromide*	NO	NO	NO	NO	NO	NO
Zinc Chloride mixture	7646-85-7	*chloride, zinc*	YES	YES	YES	YES	YES	YES
Zinc Oxide	1314-13-2	*zinc*	YES	YES	YES	YES	YES	YES

YES	**Presence of this compound cannot be ruled out.**
NO	**Presence of this compound not indicated.**

Shading indicates an exceedance of the RBC or background of at least one of the indicator compounds if all were detected. The asterisk shows which indicator compound exceeded.

RBC KEY

Note: In accordance with standard Risk Assessment practice, Risk-Based Concentrations (RBCs) for structurally, chemically, or toxicologically similar chemicals were used for those chemicals that did not have RBCs. For this investigation, these included the following:

RBC for 1,3-Dichloropropene was used for CIS and TRANS-1,3-Dichloropropene
RBC for Hexane was used for Cyclohexane and Methylcyclohexane
RBC for Acetone was used for Bromoacetone and Chloroacetone
RBC for Carbon Disulfide was used for Chlorinated Carbon Disulfide
RBC for Ethyl Acetate was used for Ethyl Bromoacetate and Ethyl Dibromoacetate
RBC for Beta-Chloronaphthalene was used for 2-Chloronaphthalene (same chemical)
RBC for 4-Nitrophenol was used for 2-Nitrophenol
RBC for Acenapthene was used for Acenaphthylene
RBC for Dibutylphthalate was used for Di-N-Butylphthalate (same chemical)
RBC for Dioctylphthalate was used for Di-N-Octylphthalate (same chemical)
RBC for Alpha-HCH was used for Alpha-Lindane (same chemical)
RBC for Chromium III was used for Chromium
RBC for Cyanide (Free) was used for Cyanide
For Lead, the USEPA recommended residential land use screening level of 400 ppm was used.

Attachment A

Quality Assurance Report

QUALITY ASSURANCE SUMMARY REPORT FOR

SOIL SAMPLES ASSOCIATED WITH SPRING VALLEY OU-4 FOLLOW-ON RESIDENTIAL AUES LIST SAMPLING (WMP AMENDMENT 2)

INTRODUCTION

This data validation summary report covers environmental soil samples collected from selected Spring Valley OU-4 locations (4710 Quebec Street, 3819 48th Street, 4625 Rockwood Parkway and 4633 Rockwood Parkway) in Washington, DC. These samples were included in laboratory Sample Delivery Group 156670. The samples were analyzed for Full Scan Parameters including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), Adamsite, Mustard, Mustard degradation or breakdown products, lewisite degradation products, trinitrotoluene, metals, ions (bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate) and selected wet chemistry parameters (ammonia and total cyanide). VOC and SVOC analyses included tentatively identified compounds (TICs).

All work was performed in accordance with the Work Management Plan (WMP) prepared by Parsons ES and as amended (Revised Final Amendment 2, April 2001). The WMP included a Quality Assurance Project Plan (QAPJP) that was also prepared and approved for use to ensure generation of legally defensible data. Southwest Research Institute of San Antonio, Texas, following procedures outlined in the QAPjP and the WMP, performed all analyses with the exception of Mustard and Adamsite, which were analyzed by the Army's Edgewood Chemical and Biological Command (ECBC) laboratory.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including

sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPP.

No major QC problems leading to rejection of data were found during validation of the data for the samples in this SDG.

The data as submitted by the laboratory and qualified following data validation are usable for the purposes of this project. The overall completeness for the sampling event is 100 percent since no data have been rejected and reported in the data tables.

Minor QC problems leading to qualifying of data as estimated or not detected included: laboratory blank contamination; accuracy (% recovery) outliers, surrogate outliers, internal standard outliers and reported detections less than the project reporting limit (PRL). Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above no major problems were found during validation of the data for this SDG. No reported results have been qualified as rejected or unusable. All reported results should be considered usable as qualified in the data summary tables.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to QC problems.

As indicated above, QC problems leading to qualifying of data as estimated included: laboratory and field blank contamination; accuracy outliers, surrogate outliers, internal standard outliers and reported detections less than the PRL. Details concerning these problems are presented below by analytical parameter.

Volatile Organic Compounds (VOCs)

- The reported results for the following VOC target analytes were less than the PRL and should be considered estimated (flagged 'J'): chloromethane and chloroform.
- The laboratory reported internal standard area outliers for the following soil samples: OU4-4625-3A, OU4-4625-3B, OU4-4625-4, OU4-4633-1, OU4-4633-2 and OU4-4633-SB. All reported results for the samples have been qualified as estimated (flagged 'UJ/J').
- The laboratory reported that several samples contained target VOCs at concentrations above the calibration range for the method. The affected

samples were diluted and reanalyzed to obtain better results. Validation of the results for the reanalyses revealed serious problems including gross holding time violations and use of an unpreserved sample. The results for the reanalyses were rejected and have not been included in the data summary tables. The affected 'original' results have been qualified as estimated and flagged 'J'. The target VOCs affected are dichlorodifluoromethane, acetone and carbon disulfide**.**

- Target VOC acetone was detected in at least one blank associated with some of the samples. Some reported results for acetone in associated samples have been requalified as estimated and flagged 'B'.

Semivolatile Organic Compounds (SVOCs)

- Reported results less than the PRL has been qualified as estimated and flagged "J". Target analytes affected include 2-methylnaphthalene, acenaphthylene, benzyl alcohol, naphthalene, benzoic acid, diethylphthalate, phenanthrene, fluoranthene, pyrene, benzo (a) anthracene, chrysene, bis (2-ethylhexyl) phthalate, di-n-octylphthalate, benzo (b) fluoranthene, benzo (k) fluoranthene and benzo (a) pyrene.
- The laboratory reported internal standard outliers for the following samples OU4-4625-4, OU4-4633-1, OU4-4633-2 and OU4-4633-SB. The reported results for the affected sample have been qualified as estimated and flagged 'UJ/J' due to the internal standard outliers. Only the target SVOCs quantitated using the affected internal standard have been qualified.
- Several target SVOCs were detected in the laboratory blanks associated with some of the soil samples. The affected SVOCs are diethylphthalate, di-n-butylphthalate and bis (2-ethylhexyl) phthalate. Reported results for these analytes in the associated samples have been requalified as estimated and flagged 'B' due to the blank contamination.

Mustard Degradation Products

- Some reported results, for target analyte thiodiglycol, are less than the PRL and have been qualified as estimated and flagged "J".

Metals

- Accuracy (matrix spike percent recovery) outliers were reported for target metals antimony, magnesium and potassium. The reported results for these metals in the affected soil samples have been qualified as estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the actual result or PRL may be higher than the reported result. The reported data is usable for most purposes, including risk assessment.

- Precision (relative percent difference) outliers were reported for the following target metals: phosphorus, potassium, selenium, manganese and silicon. The reported results for these metals in the affected samples have been qualified as estimated and flagged 'J/UJ'.

Wet Chemistry Parameters

- Accuracy outliers were reported for fluoride and phosphate for the MS/MSDs associated with some of the samples. The reported results for these analytes in the associated samples have been qualified as estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the true result may be higher than the reported result. The reported data is usable for most purposes, including risk assessment.

DATA VALIDATION QUALIFIERS

U = The compound was analyzed for and is not present. The associated numerical value (Practical Quantitation Limit - PQL) indicates the approximate concentration necessary to quantify the compound in the sample.

UJ = A combination of the "U" and "J" flags. The compound was analyzed for and is not present. The associated numerical value (Practical Quantitation Limit - PQL) has been qualified as estimated due to a QC anomaly.

J = The compound was detected in the sample, but the reported result is “estimated” (could not be accurately quantified) either because the reported value is less than the PQL or at least one minor Quality Control (QC) problem was found during validation. Data with a "J" qualifier is considered usable for most decision-making purposes, including risk assessment.

K = The analyte was detected in the sample. The reported result is considered estimated and may be biased high due to a minor QA/QC problem. The true concentration present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L = The analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

NJ = This flag indicates presumptive evidence of a compound. It is only used for Tentatively Identified Compounds (TICs), where identification is based on a mass spectral library search. The 'N' is not applied to generic descriptions of a TIC, such as "unknown hydrocarbon". The "J" flag indicates the reported numerical result is estimated.

JNB = This is a combination of the 'NJ' and 'B' flags. The 'B' indicates the compound was detected in a laboratory or field blank associated with the sample. The reported result should be considered estimated and biased high due to blank contamination.

R = The reported result is considered unusable and unreliable due to a major problem associated with the analysis of the sample or analyte. This qualifier implies no confidence in the reported result due to the problem found during validation. Resampling is recommended if the compound affected is critical to the decision-making process.

B = The analyte was also detected in a laboratory or field blank associated with the sample. The reported result is considered estimated and biased high due to the blank contamination.

Attachment B

AUES Chemicals List
(Presented at the end of the Sedgwick Trench Section)

REPORT OF ANALYTICAL RESULTS -

American University Experiment Station (AUES)
List Of Chemicals

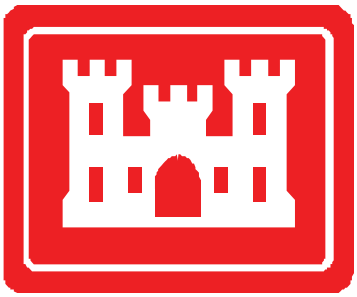
CHILD DEVELOPMENT CENTER AND AMERICAN UNIVERSITY LOT 12

SPRING VALLEY OPERABLE UNIT 4,
WASHINGTON, D.C.

TASK ORDER TO NATIONAL GUARD BUREAU
CONTRACT NO. DAHA90-94-D-0010, TASK ORDER DA01
DERP-FUDS HTRW PROJECT NUMBER C03DC091802

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT



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PARSONS
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This document was originally published on APRIL 18, 2002
but has since been updated with revised RBC data.

REPORT OF ANALYTICAL RESULTS

American University Experiment Station (AUES)
List Of Chemicals

CHILD DEVELOPMENT CENTER
&
AMERICAN UNIVERSITY LOT 12

SPRING VALLEY OPERABLE UNIT 4,
WASHINGTON, D.C.

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Prepared By:

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This document was originally published on APRIL 18, 2002
but has since been updated with revised RBC data.

Overview

In accordance with the *Revised Final Work Management Plan, Amendment 1, AU Lot 12/Child Development Center (Parsons, February 2001),* Parsons collected 32 soil samples from the American University (AU) Lot 12 and the Child Development Center to assess for the presence of the American University Experiment Station (AUES) list of chemicals. Of the 32 samples, 16 were analyzed directly for the AUES chemicals. All samples were analyzed by the Southwest Research Institute (SwRI), with the exception of adamsite, which was analyzed by the US Army's Edgewood Chemical and Biological Command (ECBC) Laboratory. This submittal is organized as follows:

Figure 1 shows the sample locations and the **Analytical Plan table** shows the number of samples submitted and parameters analyzed. The results are compiled on five tables.

Table 1 is the comprehensive list of compounds analyzed. These include the routine Target Compound List and Target Analyte List constituents and the Chemical Warfare Materiel (CWM) compounds and CWM breakdown products that were analyzed to make determinations of whether the AUES List chemicals were present. Therefore, the table contains all compounds analyzed, whether they were actually on the AUES list or not.

Table 1A is the comprehensive list detections. It is a subset of Table 1. These are the compounds shown on Table 1 that were present in concentrations above the detection limit.

Table 2 is the AUES list of compounds. It is also a subset of Table 1, showing the results for those AUES chemicals that could be directly analyzed. Additionally, CWM breakdown products and the indicator compounds used in Table 3, although not actually AUES list compounds, are included. They are indicated on the table as either a 'breakdown product' or 'indicator' compound.

Table 2A is the AUES list detections. It is a subset of Table 2. These are the compounds shown on Table 2 that were present in concentrations above the detection limit. Additionally, CWM breakdown products and the indicator compounds, although not actually AUES list compounds, are included.

Table 3 is the AUES list scan results. These are the AUES chemicals that did not have routine analytical methodologies. The presence or absence of these chemicals was inferred by the presence or absence of indicator compounds for each AUES chemical.

RBC Key contains the rationale for the RBCs shown for those chemicals that did not have RBCs.

Attachment A contains the Quality Assurance or Data Validation Report of the sampling effort.

Attachment B contains the full AUES Chemicals list and the organization of the analytical effort, i.e., which compounds could be analyzed and by what methods (presented at the end of the Sedgwick Trench section).



Figure 1
Child Development Center / AU Lot 12
Sample Locations

Spring Valley Operable Unit 4
Washington D.C.

Legend

- Boring Location
- Random Samples
  - CDC
    - Random Grids 1 - 4
    - Random Grids 5 - 8
  - AU 12
    - 3 Random Grids
- Cut and Fill, 1917-2000 (2 foot contours)
  - Cut
  - Level
  - Fill
  - Fence
- AU Lot 12
- 10' Grid
- 20' Grid
- Full AUES List Sample
- Physical Obstruction (Grid could not be sampled)
- Gravel
- ★ Sample Collected Outside Fence in 20' AU Lot 12 Grid

Note:
Sample results are in Parts per Million.
Results in red are over 13 ppm inside the CDC.

498.0 The highest 5% arsenic levels inside the CDC
163.0 The next 5% highest arsenic values inside the CDC
276.0 The 3 highest arsenic values outside the CDC

Random Grids were selected by creating random X and Y grid coordinates in ESRI's ArcView GIS (command MakeRandom in the Avenue programming language).

30 0 30 Feet

1 inch = 30 feet

Scale:	1 : 360
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PARSONS

Spring Valley OU-4
AU Lot 12/CDC
AUES List Analytical Plan

	No. of Sx Collected	TAL Metals	TCL VOCs	TCL SVOCs	ABPs	AUES List
CDC						
Mulch in 5% highest As grids	2	X				
0-1" in the 5% highest As grids	4	X				
0-6" in the 5% highest As grids	4	X	X	X	X	X
0-6" in the next 5% highest As grids	4	X	X	X		
0-6" in Random Grids (1 through 4)	4	X	X	X	X	X
0-6" in Random Grids (5 through 8)	4	X	X	X		
2 Borings:						
1 ft depth	2	X				
4 ft depth	2	X	X	X	X	X
AU Lot 12						
0-6" in the 3 highest As grids	3	X	X	X	X	X
0-6" in 3 Random Grids	3	X	X	X	X	X
Totals	32	32	24	24	16	16*

Notes:

* Of the 32 total samples, these 16 were run for the full AUES List.

ABPs = Agent Breakdown Products

Random grids were selected using the GIS "MakeRandom" command.

Table does not include the original quadrant and grid arsenic analyses.

Table 1

Comprehensive Sample Results for AU 12/CDC

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
Volatile Organic Compounds - SW8260B (UG/KG)															
1,1,1-TRICHLOROETHANE	2,200,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
1,1,2,2,-TETRACHLOROETHANE	3,200	C		NS		1.2	UJ	NS			R	1	U	1	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	230,000,000	N		NS		1.2	U	NS		1.1	U	1	U	1	U
1,1,2-TRICHLOROETHANE	11,000	C		NS		1.2	UJ	NS			R	1	U	1	U
1,1-DICHLOROETHANE	780,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
1,1-DICHLOROETHENE	390,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
1,2,4-TRICHLOROBENZENE	78,000	N		NS		1.2	UJ	NS			R	1	UJ	1	UJ
1,2-DIBROMO-3-CHLOROPROPANE	460	C		NS		1.2	UJ	NS			R	1	UJ	1	UJ
1,2-DIBROMOETHANE	7.5	C		NS		1.2	UJ	NS			R	1	U	1	U
1,2-DICHLOROBENZENE	700,000	N		NS		1.2	UJ	NS			R	1	UJ	1	UJ
1,2-DICHLOROETHANE	7,000	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
1,2-DICHLOROPROPANE	9,400	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
1,3-DICHLOROBENZENE	230,000	N		NS		1.2	UJ	NS			R	1	UJ	1	UJ
1,4-DICHLOROBENZENE	27,000	C		NS		1.2	UJ	NS			R	1	UJ	1	UJ
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		NS		1.2	U	NS		1.1	UJ	19		13	
2-HEXANONE	310,000	N		NS		1.2	UJ	NS			R	1	U	1	U
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
ACETONE	780,000	N		NS		6		NS		5	J	91	J	59	J
ACETONITRILE	NA			NS		5.8	U	NS		5.6	UJ	6	U	9	
ACROLEIN	160,000	N		NS		5.8	U	NS		5.6	UJ	7		6	U
BENZENE	12,000	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
BENZYL BROMIDE	NA			NS		5.8	UJ	NS			R	6	UJ	6	UJ
BENZYL CHLORIDE	3,800	C		NS		5.8	UJ	NS			R	6	UJ	6	UJ
BROMODICHLOROMETHANE	10,000	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
BROMOFORM	81,000	C		NS		1.2	UJ	NS			R	1	UJ	1	UJ
BROMOMETHANE	11,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CARBON DISULFIDE	780,000	N		NS		12		NS		11	J	9		9	
CARBON TETRACHLORIDE	4,900	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CHLOROBENZENE	160,000	N		NS		1.2	UJ	NS			R	1	U	1	U
CHLOROETHANE	220,000	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CHLOROFORM	78,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CHLOROMETHANE	NA			NS		2		NS		5	J	4		3	
CHLOROPICRIN	NA			NS		29	U	NS		28	UJ	30	U	29	U
CIS-1,2-DICHLOROETHENE	78,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CIS-1,3-DICHLOROPROPENE	6,400 ‡	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CYCLOHEXANE	470,000 ‡	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
DIBROMOCHLOROMETHANE	7,600	C		NS		1.2	UJ	NS			R	1	U	1	U
DICHLORODIFLUOROMETHANE	1,600,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
ETHYLBENZENE	780,000	N		NS		1.2	UJ	NS			R	1	U	1	U
ISOPROPYLBENZENE (CUMENE)	780,000	N		NS		1.2	UJ	NS			R	1	UJ	1	UJ
M&P-XYLENE	1,600,000	N		NS		1.2	UJ	NS			R	1	U	1	U
METHYL ACETATE	7,800,000	N		NS		1.2	U	NS		1.1	UJ	11		3	
METHYL TERT-BUTYL ETHER	160,000	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
METHYLCYCLOHEXANE	470,000 ‡	N		NS		1.2	U	NS		1.1	UJ	2		1	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
METHYLENE CHLORIDE	85,000	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
O-XYLENE	1,600,000	N		NS		1.2	UJ	NS			R	1	U	1	U
STYRENE	1,600,000	N		NS		1.2	UJ	NS			R	1	U	1	U
TETRACHLOROETHENE	32,000	C		NS		1.2	UJ	NS			R	1	U	1	U
TOLUENE	1,600,000	N		NS		1.2	UJ	NS			R	1	U	1	U
TRANS-1,2-DICHLOROETHENE	160,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
TRANS-1,3-DICHLOROPROPENE	6,400 ‡	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
TRICHLOROETHENE	1,600	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
TRICHLOROFLUOROMETHANE	2,300,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
VINYL CHLORIDE	90	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
VOC Tentatively Identified Compounds (UG/KG)															
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)	NA			NS			*	NS			*		*		*
2,4-HEXANEDIONE (CAS# 3002-24-2)	NA			NS		2	NJ	NS			*		*		*
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)	NA			NS			*	NS			*	20	NJ	6	NJ
2-DECENE, 4-METHYL-,(Z)-	NA			NS			*	NS			*		*		*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)	NA			NS			*	NS			*		*		*
2-OCTENE, (E)- ISOMER	NA			NS		10	NJ	NS		10	NJ		*	10	NJ
2-OCTENE, (E)- ISOMER	NA			NS			*	NS			*		*	10	NJ
2-OCTENE, (Z)- ISOMER	NA			NS			*	NS			*		*		*
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)	NA			NS			*	NS			*	60	NJ		*
2-PROPANOL (CAS# 67-63-0)	NA			NS			*	NS			*	40	NJ	100	NJ
3-OCTENE, (E)-	NA			NS			*	NS			*		*		*
ACETALDEHYDE (CAS# 75-07-0)	NA			NS			*	NS			*	40	NJ	10	NJ
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)	7,000,000	N		NS			*	NS			*	30	NJ		*
ALCOHOL	NA			NS			*	NS			*		*		*
ALLYL ALCOHOL	NA			NS			*	NS			*		*		*
BENZALDEHYDE (CAS# 100-52-7)	780,000	N		NS			*	NS			*		*		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)	550,000	N		NS			*	NS			*		*		*
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	NA			NS			*	NS			*		*		*
BENZYL IODIDE	NA			NS			*	NS			*		*		*
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL	NA			NS			*	NS			*		*		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-	NA			NS			*	NS			*		*		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-	NA			NS			*	NS			*		*		*
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL	NA			NS			*	NS			*		*		*
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-	NA			NS			*	NS			*		*		*
BICYCLO 3.1.1 HEPT-2-ENE,2,	NA			NS			*	NS			*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-D	NA			NS			*	NS			*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-	NA			NS			*	NS			*		*		*
BROMOACETONE	780,000 ‡	N		NS			*	NS			*		*		*
BROMOBENZENE	NA			NS			*	NS			*		*		*
BROMOMETHYL ETHER	NA			NS			*	NS			*		*		*
BUTANAL (CAS# 123-72-8)	NA			NS			*	NS			*		*		*
BUTANAL, 3-METHYL-	NA			NS			*	NS			*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
BUTYL MERCAPTAN	NA			NS				NS			*		*		*
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)	NA			NS			*	NS			*		*		*
CHLORINATED ACETONE	NA			NS			*	NS			*		*		*
CHLORINATED CARBON DISULFIDE	780,000 ‡	N		NS			*	NS			*		*		*
CHLOROACETONE	780,000 ‡	N		NS			*	NS			*		*		*
CHLOROACETONITRILE	NA			NS			*	NS			*		*		*
CHLOROMETHYL ETHER	NA			NS			*	NS			*		*		*
CHLOROMETHYL ETHYL ETHER	NA			NS			*	NS			*		*		*
CROTONALDEHYDE	340	C		NS			*	NS			*		*		*
CYCLOBUTANOL (CAS# 2919-23-5)	NA			NS			*	NS			*		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA			NS		9	NJ	NS		10	NJ		*		*
DECANAL (CAS# 112-31-2)	NA			NS			*	NS			*		*		*
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)	NA			NS			*	NS		4	NJ		*		*
ETHYL BROMOACETATE	7,000,000 ‡	N		NS			*	NS			*		*		*
ETHYL CHLOROFORMATE	NA			NS			*	NS			*		*		*
ETHYL DIBROMOACETATE	7,000,000 ‡	N		NS			*	NS			*		*		*
ETHYL MERCAPTAN	NA			NS			*	NS			*		*		*
HEPTANAL (CAS# 111-71-7)	NA			NS			*	NS			*		*		*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)	NA			NS		2	NJ	NS			*		*		*
HEXANAL (CAS# 66-25-1)	NA			NS		5	NJ	NS		20	NJ	200	NJ	100	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)	NA			NS		1	NJ	NS			*		*		*
HEXANAL, 5-METHYL- (CAS# 1860-39-5)	NA			NS		0.6	NJ	NS			*	10	NJ	6	NJ
METHYL BROMOACETATE	NA			NS			*	NS			*		*		*
METHYL CHLOROACETATE	NA			NS			*	NS			*		*		*
METHYL CHLOROFORMATE	NA			NS			*	NS			*		*		*
METHYL CHLOROSULFONATE	NA			NS			*	NS			*		*		*
OCTANAL (CAS# 124-13-0)	NA			NS			*	NS			*	20	NJ	6	NJ
OCTANE (CAS# 111-65-9)	NA			NS			*	NS			*		*		*
PENTANAL ISOMER	NA			NS		0.8	NJ	NS		2	NJ	60	NJ	20	NJ
PENTANAL ISOMER	NA			NS			*	NS			*		*	10	NJ
PENTANAL, 2-METHYL- (CAS# 123-15-9)	NA			NS			*	NS			*		*		*
PENTANE (CAS# 109-66-0)	NA			NS			*	NS		3	NJ	40	NJ		*
PERCHLOROMETHYLMERCAPTAN	NA			NS			*	NS			*		*		*
PROPANE, 2-METHYL- (CAS# 72-28-5)	NA			NS			*	NS			*		*		*
THIOPHENE	NA			NS			*	NS			*		*		*
TRICHLOROACETONITRILE	NA			NS			*	NS			*		*		*
UNDECANE (CAS# 1120-21-4)	NA			NS			*	NS			*		*		*
Semivolatile Organic Compounds - SW8270C (UG/KG															
1,2,4-TRICHLOROBENZENE	78,000	N		NS		89	U	NS		79	U	80	U	86	U
1,2-DICHLOROBENZENE	700,000	N		NS		89	U	NS		79	U	80	U	86	U
1,3-DICHLOROBENZENE	230,000	N		NS		89	U	NS		79	U	80	U	86	U
1,4-DICHLOROBENZENE	27,000	C		NS		89	U	NS		79	U	80	U	86	U
2,4,5-TRICHLOROPHENOL	780,000	N		NS		89	U	NS		79	U	80	U	86	U
2,4,6-TRICHLOROPHENOL	58,000	C		NS		89	U	NS		79	U	80	U	86	U

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SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
2,4-DICHLOROPHENOL	23,000	N		NS		89	U	NS		79	U	80	U	86	U
2,4-DIMETHYLPHENOL	160,000	N		NS		89	U	NS		79	U	80	U	86	U
2,4-DINITROPHENOL	16,000	N		NS		270	U	NS		240	U	240	U	260	U
2,4-DINITROTOLUENE	16,000	N		NS		89	U	NS		79	U	80	U	86	U
2,6-DINITROTOLUENE	7,800	N		NS		89	U	NS		79	U	80	U	86	U
2-CHLORONAPHTHALENE (CAS# 91587)	630,000 ‡	N		NS		89	U	NS		79	U	80	U	86	U
2-CHLOROPHENOL	39,000	N		NS		89	U	NS		79	U	80	U	86	U
2-METHYLNAPHTHALENE (CAS# 91576)	160,000	N		NS		89	U	NS		79	U	80	U	86	U
2-METHYLPHENOL	390,000	N		NS		89	U	NS		79	U	80	U	86	U
2-NITROANILINE	NA			NS		89	U	NS		79	U	80	U	86	U
2-NITROPHENOL	63,000 ‡	N		NS		89	U	NS		79	U	80	U	86	U
3,3-DICHLOROBENZIDINE'	1,400	C		NS		89	U	NS		79	U	80	U	86	U
3-NITROANILINE (CAS# 99092)	2,300	N		NS		89	U	NS		79	U	80	U	86	U
4,6-DINITRO-2-METHYLPHENOL	780	N		NS		89	U	NS		79	U	80	U	86	U
4-BROMOPHENYL-PHENYLETHER	NA			NS		89	U	NS		79	U	80	U	86	U
4-CHLORO-3-METHYLPHENOL	NA			NS		89	U	NS		79	U	80	U	86	U
4-CHLOROANILINE	31,000	N		NS		89	U	NS		79	U	80	U	86	U
4-CHLOROPHENYL-PHENYLETHER	NA			NS		89	U	NS		79	U	80	U	86	U
4-METHYLPHENOL	39,000	N		NS		89	U	NS		79	U	80	U	86	U
4-NITROANILINE	32,000	C		NS		89	U	NS		79	U	80	U	86	U
4-NITROPHENOL	63,000	N		NS		89	U	NS		79	U	80	U	86	U
ACENAPHTHENE	470,000	N		NS		89	U	NS		79	U	80	U	18	J
ACENAPHTHYLENE	470,000 ‡	N		NS		89	U	NS		79	U	80	U	86	U
ANTHRACENE	2,300,000	N		NS		89	U	NS		79	U	80	U	46	J
BENZO[A]ANTHRACENE	870	C		NS		89	U	NS		31	J	36	J	200	
BENZO[A]PYRENE	87	C		NS		89	U	NS		23	J	19	J	110	J
BENZO[B]FLUORANTHENE	870	C		NS		89	U	NS		54	J	64	J	280	J
BENZO[G,H,I]PERYLENE	NA			NS		89	U	NS		79	U	80	UJ	35	J
BENZO[K]FLUORANTHENE	8,700	C		NS		89	U	NS		21	J	11	J	76	J
BENZOIC ACID	31,000,000	N		NS		270	U	NS		18	J	36	J	25	J
BENZYL ALCOHOL	2,300,000	N		NS		89	U	NS		79	U	80	U	86	U
BIS(2-CHLOROETHOXY)METHANE	NA			NS		89	U	NS		79	U	80	U	86	U
BIS(2-CHLOROISOPROPYL)ETHER	9,100	C		NS		89	U	NS		79	U	80	U	86	U
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		NS		17	J	NS		15	J	37	J	590	
BUTYLBENZYLPHTHALATE	1,600,000	N		NS		89	U	NS		79	U	80	U	86	U
CARBAZOLE	32,000	C		NS		89	U	NS		79	U	80	U	20	J
CHRYSENE	87,000	C		NS		89	U	NS		30	J	18	J	110	
DIBENZ[A,H]ANTHRACENE	87	C		NS		89	U	NS		79	U	80	UJ	86	UJ
DIBENZOFURAN	16,000	N		NS		89	U	NS		79	U	80	U	86	U
DIETHYLPHTHALATE	6,300,000	N		NS		21	J	NS		14	J	12	J	14	J
DIMETHYLPHTHALATE	78,000,000	N		NS		89	U	NS		79	U	80	U	86	U
DI-N-BUTYLPHTHALATE	780,000 ‡	N		NS		33	JB	NS		22	JB	28	JB	26	JB
DI-N-OCTYLPHTHALATE	160,000 ‡	N		NS		89	U	NS		79	U	80	UJ	86	UJ
FLUORANTHENE	310,000	N		NS		89	U	NS		45	J	56	J	310	
FLUORENE	310,000	N		NS		89	U	NS		79	U	80	U	21	J
HEXACHLOROBENZENE	400	C		NS		89	U	NS		79	U	80	U	86	U
HEXACHLOROBUTADIENE	8,200	C		NS		89	U	NS		79	U	80	U	86	U
HEXACHLOROCYCLOPENTADIENE	47,000	N		NS		89	U	NS		79	U	80	U	86	U
HEXACHLOROETHANE	46,000	C		NS		89	U	NS		79	U	80	U	86	U
INDENO[1,2,3-CD]PYRENE	870	C		NS		89	U	NS		11	J	80	UJ	49	J
ISOPHORONE	670,000	C		NS		89	U	NS		79	U	80	U	86	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
NAPHTHALENE	160,000	N		NS		89	U	NS		79	U	80	U	86	U
NITROBENZENE	3,900	N		NS		89	U	NS		79	U	80	U	86	U
N-NITROSO-DI-N-PROPYLAMINE	NA			NS		89	U	NS		79	U	80	U	86	U
N-NITROSODIPHENYLAMINE	130,000	C		NS		89	U	NS		79	U	80	U	86	U
O-CHLORONITROBENZENE	26,000	C		NS		89	U	NS		79	U	80	U	86	U
PENTACHLOROPHENOL	5,300	C		NS		89	U	NS		79	U	80	U	86	U
PHENANTHRENE	NA			NS		89	U	NS		18	J	28	J	240	
PHENOL	2,300,000	N		NS		89	U	NS		79	U	80	U	86	U
PHENYL HYDRAZINE	NA			NS		89	U	NS		79	U	80	U	86	U
PHENYL ISOCYANATE	NA			NS		89	U	NS		79	U	80	U	86	U
PHENYL ISOTHIOCYANATE	NA			NS		89	U	NS		79	U	80	U	86	U
PYRENE	230,000	N		NS		89	U	NS		49	J	52	J	360	
SVOC Tentatively Identified Compounds (UG/KG)															
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)	NA			NS			*	NS			*		*		*
.ALPHA.-PINENE (CAS # 80-56-8)	NA			NS			*	NS			*		*		*
.BETA.-PINENE (CAS# 127-91-3)	NA			NS			*	NS			*		*		*
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA			NS			*	NS			*		*		*
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)	NA			NS			*	NS			*		*		*
11H-BENZO[B]FLUORENE (CAS# 243-17-4)	NA			NS			*	NS			*		*		*
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)	NA			NS			*	NS			*		*		*
1H-CYCLOPROP[E]AZULENE, 1A,2,3,4,4A,5,6,7B-OCTAHYDRO-1,1,4,7-TETRAMETHYL-, [1AR-(1A.ALPHA., 4.ALPHA., 4A.BETA., 7B.ALPHA.)]- (CAS# 489-40-7)	NA			NS			*	NS			*		*		*
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)	NA			NS			*	NS			*		*		*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N		NS			*	NS		450	NJ		*		*
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)	NA			NS			*	NS			*		*		*
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)	NA			NS			*	NS			*		*		*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA			NS			*	NS			*		*		*
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA			NS			*	NS			*		*		*
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)	NA			NS			*	NS			*		*		*
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)	NA			NS			*	NS			*		*		*
BENZYL FLUORIDE	NA			NS			*	NS			*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
BENZO(E)PYRENE (CAS# 192-97-2)	NA			NS			*	NS			*		*		*
BENZOTRICHLORIDE	NA			NS			*	NS			*		*		*
BORNYL ACETATE (CAS# 76-49-3)	NA			NS			*	NS			*		*		*
CARYOPHYLLENE (CAS# 87-44-5)	NA			NS			*	NS			*		*		*
CHOLESTEROL (CAS # 57-88-5)	NA			NS			*	NS			*	1600	NJ		*
COPAENE (CAS# 3856-25-5)	NA			NS			*	NS			*		*		*
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)	NA			NS			*	NS			*		*		*
DIPHENYLCHLOROARSINE	NA			NS			*	NS			*		*		*
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)	NA			NS			*	NS			*		*		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)	16,000,000	N		NS			*	NS			*		*		*
HEXADECANOIC ACID (CAS# 57-10-3)	NA			NS			*	NS			*	550	NJ	94	NJ
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)	NA			NS			*	NS			*		*		*
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)	NA			NS			*	NS			*		*		*
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1-(1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)	NA			NS			*	NS			*		*		*
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)	NA			NS			*	NS			*		*		*
NONACOSANE (CAS# 630-03-5)	NA			NS			*	NS			*		*		*
OLEIC ACID (CAS# 112-80-1)	NA			NS			*	NS			*		*		*
o-TOLYL ISOCYANIDE	NA			NS			*	NS			*		*		*
PENTADECANOIC ACID (CAS# 1002-84-2)	NA			NS			*	NS			*		*		*
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)	NA			NS			*	NS			*		*		*
PHENYLDICHLOROARSINE	NA			NS			*	NS			*		*		*
PHENYL ISOCYANIDE	NA			NS			*	NS			*		*		*
PYRENE, 2-METHYL- (CAS# 3442-78-2)	NA			NS			*	NS			*		*		*
SEPTUM BLEED	NA			NS		230	NJ	NS		220	NJ		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
ICP Inorganic Analyses - SW6010B (MG/KG)															
ALUMINUM	7,800	N	**25,798**	7440		9060		10400		8380		7040		9160	
ANTIMONY	**3.1**	N	0.92	1.2	L	1.2	UL	1	UL	1.2	UL	1.2	UL	1.2	UL
ARSENIC	0.43	C	**12.64**	262	J	11.4	J	5.7	J	3.1	J	198	J	27.1	J
BARIUM	**550**	N	298.28	47.4	J	6.6	J	31.1	J	13.3	J	36.1		78.4	
BERYLLIUM	**16**	N	2.35	0.52	J	0.59	UJ	0.52	UJ	0.58	UJ	0.83		0.72	
CADMIUM	**7.8**	N	0.32	0.52	U	0.59	U	0.52	U	0.58	U	0.61	U	0.59	U
CALCIUM	NA		**4,207**	1230		421		715		855		1060		1920	
CHROMIUM	**12,000** ‡	N	97.20	24.4		34.6		32.5		30.5		41.1	K	31.6	K
COBALT	**160**	N	22.26	27.8	L	0.91	L	2.1	L	1.4	L	12.5		8.1	
COPPER	**310**	N	47.76	12.1		9.3		10.3		8.4		20.1		23.8	
IRON	2,300	N	**31,951**	30300	J	26700	J	25800	J	27300	J	41700		20200	
LEAD	**400** ‡		329.76	28.4	J	6.6	J	19.5	J	10.4	J	29.4	K	25.6	K
MAGNESIUM	NA		**7,093**	687		389		412		253		922		3940	
MANGANESE	160	N	**1,251**	321	J	26.1	J	79	J	33.2	J	311	J	274	J
MERCURY (by CVAA)	NA		**0.29**	0.11		0.07	U	0.11		0.06		0.05		0.19	
NICKEL	**160**	N	40.12	5.6		1.3		4.3		3.8		8.6		16.6	
PHOSPHORUS	NA		NA	273		145		200		157		488		358	
POTASSIUM	NA		**4,945**	591		363		301		259		1180		2690	
SELENIUM	**39**	N	0.88	1.7		1.2		0.89		0.58	U	0.81		0.59	U
SILICON	NA		NA	2010		2670		2520		1940		2130		2560	
SILVER	**39**	N	0.74	0.52	U	0.59	U	0.52	U	0.58	U	0.61	U	0.59	U
SODIUM	NA		**55.80**	51.9	U	58.9	U	51.6	U	57.7	U	60.6	U	58.5	U
STRONTIUM	**4,700**	N	NA	7.9		3.8		4.2		5		5.1		9.5	
SULFUR	NA		NA	78.2	L	284	L	90.7	L	60.2	L	228		195	
THALLIUM	0.55	N	**1.36**	1	U	1.2	U	1	U	1.2	U	1.2	UJ	1.2	UJ
TIN	**4,700**	N	NA	2.5		2.4		3.3		2.7		5.5		2.3	U
TITANIUM	**31,000**	N	NA	135		72		170		119		150		483	
VANADIUM	55	N	**66.76**	29.7		50.8		54.3		50.2		47.4		33	
ZINC	**2,300**	N	308.8	31.7		7		17.7		10.7		57.4		61.9	
IC Scan - EPA 300M (MG/KG)															
BROMIDE	NA			NS		1.21	U	NS		1.15	U	1.2	U	1.33	U
CHLORIDE	NA			NS		24.8		NS		1.15	U	10.1		3.56	
FLUORIDE	NA			NS			R	NS			R	2.04	L	3.68	L
NITRATE-N	13,000	N		NS		1.21	U	NS		1.15	U	6.16		4.05	
NITRITE-N	780	N		NS		1.21	U	NS		1.15	U	1.2	U	1.33	U
PHOSPHATE-P	NA			NS			R	NS			R		R	2.92	JL
SULFATE	NA			NS		141	K	NS		15.3	K	19.3	K	7.39	K

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground\2	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)\1														
Mustard Breakdown Products (UG/KG)															
1,4-DITHIANE	78,000	N		NS		111	U	NS		99	U	97	U	106	U
1,4-OXATHIANE	78,000	\3,N		NS		113	U	NS		102	U	99	U	108	U
THIODIGLYCOL	39,100	\3,N		NS		1147	U	NS		1018	U	280	J	300	J
Lewisite Breakdown Products (UG/KG)															
TOTAL CVAA & CVAO	890	\3,C		NS		11	U	NS		10	U	10	U	10	U
Other Parameters (MG/KG, unless otherwise indicated)															
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		NS		180	U	NS		180	U	180	U	180	U
ADAMSITE **	NA			NS			**	NS			**	7.7	U		**
AMMONIA-N	NA			NS		1.18	U	NS		1.17	U	1.18	U	1.36	U
CYANIDE	160 ‡	N		NS		0.61	U	NS		0.57	U	0.61	U	0.66	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds
Source is the April 25, 2003 USEPA RBC Table
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation

N = Non-carcinogen. This RBC was adjusted down by a factor of 10
C = Carcinogen as listed on the USEPA RBC table
NA = NOT AVAILABLE
NS = NOT SAMPLED

* Sample was scanned using GC/MS unit and the analyte was not identifie using the mass spectral library search

Shading indicates result exceeds higher (bolded) of RBC or background.

** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
Volatile Organic Compounds - SW8260B (UG/KG)													
1,1,1-TRICHLOROETHANE	2,200,000	N		1	U	1	U	1	U	NS		1	U
1,1,2,2,-TETRACHLOROETHANE	3,200	C		1	U	1	U	1	UJ	NS		1	U
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	230,000,000	N		1	U	1	U	1	U	NS		1	U
1,1,2-TRICHLOROETHANE	11,000	C		1	U	1	U	1	UJ	NS		1	U
1,1-DICHLOROETHANE	780,000	N		1	U	1	U	1	U	NS		1	U
1,1-DICHLOROETHENE	390,000	N		1	U	1	U	1	U	NS		1	U
1,2,4-TRICHLOROBENZENE	78,000	N		1	UJ	1	UJ		R	NS		1	UJ
1,2-DIBROMO-3-CHLOROPROPANE	460	C		1	UJ	1	UJ		R	NS		1	UJ
1,2-DIBROMOETHANE	7.5	C		1	U	1	U	1	UJ	NS		1	U
1,2-DICHLOROBENZENE	700,000	N		1	UJ	1	UJ		R	NS		1	UJ
1,2-DICHLOROETHANE	7,000	C		1	U	1	U	1	U	NS		1	U
1,2-DICHLOROPROPANE	9,400	C		1	U	1	U	1	U	NS		1	U
1,3-DICHLOROBENZENE	230,000	N		1	UJ	1	UJ		R	NS		1	UJ
1,4-DICHLOROBENZENE	27,000	C		1	UJ	1	UJ		R	NS		1	UJ
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		10		16		10		NS		4	
2-HEXANONE	310,000	N		1	U	1	U	1	UJ	NS		1	U
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		1	U	1	U	1	U	NS		1	U
ACETONE	780,000	N		51	J	75	J	43	J	NS		27	B
ACETONITRILE	NA			5	U	6	U	6	U	NS		6	U
ACROLEIN	160,000	N		5	U	6	U	6	U	NS		6	U
BENZENE	12,000	C		1	U	1	U	1	U	NS		1	U
BENZYL BROMIDE	NA			5	UJ	6	UJ		R	NS		6	UJ
BENZYL CHLORIDE	3,800	C		5	UJ	6	UJ		R	NS		6	UJ
BROMODICHLOROMETHANE	10,000	C		1	U	1	U	1	U	NS		1	U
BROMOFORM	81,000	C		1	UJ	1	UJ		R	NS		1	UJ
BROMOMETHANE	11,000	N		1	U	1	U	1	U	NS		1	U
CARBON DISULFIDE	780,000	N		7		8		11		NS		6	
CARBON TETRACHLORIDE	4,900	C		1	U	1	U	1	U	NS		1	U
CHLOROBENZENE	160,000	N		1	U	1	U	1	UJ	NS		1	U
CHLOROETHANE	220,000	C		1	U	1	U	1	U	NS		1	U
CHLOROFORM	78,000	N		1	U	1	U	1	UJ	NS		1	UJ
CHLOROMETHANE	NA			2		4		7		NS		4	
CHLOROPICRIN	NA			27	U	27	U	32	U	NS		29	U
CIS-1,2-DICHLOROETHENE	78,000	N		1	U	1	U	1	U	NS		1	U
CIS-1,3-DICHLOROPROPENE	6,400 ‡	C		1	U	1	U	1	U	NS		1	U
CYCLOHEXANE	470,000 ‡	N		1	U	1	U	1	U	NS		1	U
DIBROMOCHLOROMETHANE	7,600	C		1	U	1	U	1	UJ	NS		1	U
DICHLORODIFLUOROMETHANE	1,600,000	N		1	U	1	U	1	U	NS		1	U
ETHYLBENZENE	780,000	N		1	U	1	U	1	UJ	NS		1	U
ISOPROPYLBENZENE (CUMENE)	780,000	N		1	UJ	1	UJ		R	NS		1	UJ
M&P-XYLENE	1,600,000	N		1	U	1	U	1	UJ	NS		1	U
METHYL ACETATE	7,800,000	N		1	J	6		6		NS		1	J
METHYL TERT-BUTYL ETHER	160,000	C		1	U	1	U	1	U	NS		1	U
METHYLCYCLOHEXANE	470,000 ‡	N		1	U	1	U	1	U	NS		1	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
METHYLENE CHLORIDE		85,000	C		1	U	1	U	1	U	NS		1	U
O-XYLENE		1,600,000	N		1	U	1	U	1	UJ	NS		1	U
STYRENE		1,600,000	N		1	U	1	U	1	UJ	NS		1	U
TETRACHLOROETHENE		32,000	C		1	U	1	U	1	UJ	NS		1	U
TOLUENE		1,600,000	N		1	U	1	U	1	UJ	NS		4	J
TRANS-1,2-DICHLOROETHENE		160,000	N		1	U	1	U	1	U	NS		1	U
TRANS-1,3-DICHLOROPROPENE		6,400 ‡	C		1	U	1	U	1	U	NS		1	U
TRICHLOROETHENE		1,600	C		1	U	1	U	1	U	NS		1	U
TRICHLOROFLUOROMETHANE		2,300,000	N		1	U	1	U	1	U	NS		1	U
VINYL CHLORIDE		90	C		1	U	1	U	1	U	NS		1	U
VOC Tentatively Identified Compounds (UG/KG)														
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)		NA				*		*		*	NS		100	NJ
2,4-HEXANEDIONE (CAS# 3002-24-2)		NA				*		*		*	NS			*
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)		NA			5	NJ	10	NJ		*	NS			*
2-DECENE, 4-METHYL-,(Z)-		NA				*		*		*	NS			*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)		NA				*		*		*	NS			*
2-OCTENE, (E)- ISOMER		NA			10	NJ	10	NJ	20	NJ	NS			*
2-OCTENE, (E)- ISOMER		NA				*		*		*	NS			*
2-OCTENE, (Z)- ISOMER		NA				*		*		*	NS			*
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)		NA				*		*	30	NJ	NS			*
2-PROPANOL (CAS# 67-63-0)		NA			10	NJ		*		*	NS			*
3-OCTENE, (E)-		NA				*		*		*	NS			*
ACETALDEHYDE (CAS# 75-07-0)		NA			7	NJ	20	NJ	20	NJ	NS			*
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)		7,000,000	N			*		*		*	NS			*
ALCOHOL		NA				*		*		*	NS			*
ALLYL ALCOHOL		NA				*		*		*	NS			*
BENZALDEHYDE (CAS# 100-52-7)		780,000	N			*		*		*	NS			*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)		550,000	N			*	10	NJ		*	NS			*
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-		NA				*		*		*	NS		60	NJ
BENZYL IODIDE		NA				*		*		*	NS			*
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL		NA				*		*		*	NS		200	NJ
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-		NA				*		*		*	NS		200	NJ
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-		NA				*		*		*	NS			*
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL		NA				*		*		*	NS			*
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-		NA				*		*		*	NS			*
BICYCLO 3.1.1 HEPT-2-ENE,2,		NA				*		*		*	NS		100	NJ
BICYCLO 3.1.1 HEPTANE, 6,6-D		NA				*		*		*	NS		20	NJ
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-		NA				*		*		*	NS			*
BROMOACETONE		780,000 ‡	N			*		*		*	NS			*
BROMOBENZENE		NA				*		*		*	NS			*
BROMOMETHYL ETHER		NA				*		*		*	NS			*
BUTANAL (CAS# 123-72-8)		NA			6	NJ	6	NJ		*	NS			*
BUTANAL, 3-METHYL-		NA				*		*	9	NJ	NS			*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
BUTYL MERCAPTAN		NA				*		*		*	NS			*
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)		NA				*		*		*	NS			*
CHLORINATED ACETONE		NA				*		*		*	NS			*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N			*		*		*	NS			*
CHLOROACETONE		780,000 ‡	N			*		*		*	NS			*
CHLOROACETONITRILE		NA				*		*		*	NS			*
CHLOROMETHYL ETHER		NA				*		*		*	NS			*
CHLOROMETHYL ETHYL ETHER		NA				*		*		*	NS			*
CROTONALDEHYDE		340	C			*		*		*	NS			*
CYCLOBUTANOL (CAS# 2919-23-5)		NA				*		*		*	NS			*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)		NA				*		*	20	NJ	NS			*
DECANAL (CAS# 112-31-2)		NA				*		*		*	NS			*
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)		NA				*		*		*	NS			*
ETHYL BROMOACETATE		7,000,000 ‡	N			*		*		*	NS			*
ETHYL CHLOROFORMATE		NA				*		*		*	NS			*
ETHYL DIBROMOACETATE		7,000,000 ‡	N			*		*		*	NS			*
ETHYL MERCAPTAN		NA				*		*		*	NS			*
HEPTANAL (CAS# 111-71-7)		NA				*		*		*	NS			*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)		NA				*		*		*	NS			*
HEXANAL (CAS# 66-25-1)		NA			100	NJ	90	NJ	300	NJ	NS		90	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)		NA				*		*		*	NS			*
HEXANAL, 5-METHYL- (CAS# 1860-39-5)		NA			7	NJ	7	NJ	10	NJ	NS			*
METHYL BROMOACETATE		NA				*		*		*	NS			*
METHYL CHLOROACETATE		NA				*		*		*	NS			*
METHYL CHLOROFORMATE		NA				*		*		*	NS			*
METHYL CHLOROSULFONATE		NA				*		*		*	NS			*
OCTANAL (CAS# 124-13-0)		NA			7	NJ	10	NJ	20	NJ	NS			*
OCTANE (CAS# 111-65-9)		NA				*		*		*	NS			*
PENTANAL ISOMER		NA			20	NJ	20	NJ	30	NJ	NS			*
PENTANAL ISOMER		NA				*	8	NJ		*	NS			*
PENTANAL, 2-METHYL- (CAS# 123-15-9)		NA				*		*		*	NS			*
PENTANE (CAS# 109-66-0)		NA			7	NJ		*	30	NJ	NS			*
PERCHLOROMETHYLMERCAPTAN		NA				*		*		*	NS			*
PROPANE, 2-METHYL- (CAS# 72-28-5)		NA				*		*		*	NS			*
THIOPHENE		NA				*		*		*	NS			*
TRICHLOROACETONITRILE		NA				*		*		*	NS			*
UNDECANE (CAS# 1120-21-4)		NA				*		*		*	NS			*
Semivolatile Organic Compounds - SW8270C (UG/KG)														
1,2,4-TRICHLOROBENZENE		78,000	N		81	U	86	U	92	U	NS		86	U
1,2-DICHLOROBENZENE		700,000	N		81	U	86	U	92	U	NS		86	U
1,3-DICHLOROBENZENE		230,000	N		81	U	86	U	92	U	NS		86	U
1,4-DICHLOROBENZENE		27,000	C		81	U	86	U	92	U	NS		86	U
2,4,5-TRICHLOROPHENOL		780,000	N		81	U	86	U	92	U	NS		86	U
2,4,6-TRICHLOROPHENOL		58,000	C		81	U	86	U	92	U	NS		86	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
2,4-DICHLOROPHENOL		23,000	N		81	U	86	U	92	U	NS		86	U
2,4-DIMETHYLPHENOL		160,000	N		81	U	86	U	92	U	NS		86	U
2,4-DINITROPHENOL		16,000	N		240	U	260	U	280	U	NS		260	U
2,4-DINITROTOLUENE		16,000	N		81	U	86	U	92	U	NS		86	U
2,6-DINITROTOLUENE		7,800	N		81	U	86	U	92	U	NS		86	U
2-CHLORONAPHTHALENE (CAS# 91587)		630,000 ‡	N		81	U	86	U	92	U	NS		86	U
2-CHLOROPHENOL		39,000	N		81	U	86	U	92	U	NS		86	U
2-METHYLNAPHTHALENE (CAS# 91576)		160,000	N		81	U	86	U	92	U	NS		46	J
2-METHYLPHENOL		390,000	N		81	U	86	U	92	U	NS		86	U
2-NITROANILINE		NA			81	U	86	U	92	U	NS		86	U
2-NITROPHENOL		63,000 ‡	N		81	U	86	U	92	U	NS		86	U
3,3-DICHLOROBENZIDINE'		1,400	C		81	U	86	U	92	U	NS		86	U
3-NITROANILINE (CAS# 99092)		2,300	N		81	U	86	U	92	U	NS		86	U
4,6-DINITRO-2-METHYLPHENOL		780	N		81	U	86	U	92	U	NS		86	U
4-BROMOPHENYL-PHENYLETHER		NA			81	U	86	U	92	U	NS		86	U
4-CHLORO-3-METHYLPHENOL		NA			81	U	86	U	92	U	NS		86	U
4-CHLOROANILINE		31,000	N		81	U	86	U	92	U	NS		86	U
4-CHLOROPHENYL-PHENYLETHER		NA			81	U	86	U	92	U	NS		86	U
4-METHYLPHENOL		39,000	N		81	U	86	U	92	U	NS		86	U
4-NITROANILINE		32,000	C		81	U	86	U	92	U	NS		86	U
4-NITROPHENOL		63,000	N		81	U	86	U	92	U	NS		86	U
ACENAPHTHENE		470,000	N		81	U	22	J	92	U	NS		120	
ACENAPHTHYLENE		470,000 ‡	N		81	U	86	U	92	U	NS		100	
ANTHRACENE		2,300,000	N		81	U	27	J	92	U	NS		270	
BENZO[A]ANTHRACENE		870	C		18	J	120		60	J	NS		2000	
BENZO[A]PYRENE		87	C		13	J	40	J	32	J	NS		1100	J
BENZO[B]FLUORANTHENE		870	C		39	J	110		81	J	NS		2300	J
BENZO[G,H,I]PERYLENE		NA			81	U	34	J	18	J	NS		680	J
BENZO[K]FLUORANTHENE		8,700	C		11	J	42	J	26	J	NS		1300	J
BENZOIC ACID		31,000,000	N		18	J	25	J	40	J	NS		210	J
BENZYL ALCOHOL		2,300,000	N		81	U	86	U	92	U	NS		86	U
BIS(2-CHLOROETHOXY)METHANE		NA			81	U	86	U	92	U	NS		86	U
BIS(2-CHLOROISOPROPYL)ETHER		9,100	C		81	U	86	U	92	U	NS		86	U
BIS(2-ETHYLHEXYL)PHTHALATE		46,000	C		12	J	28	J	40	J	NS		29	J
BUTYLBENZYLPHTHALATE		1,600,000	N		81	U	86	U	92	U	NS		86	U
CARBAZOLE		32,000	C		81	U	11	J	92	U	NS		67	J
CHRYSENE		87,000	C		12	J	42	J	31	J	NS		1100	
DIBENZ[A,H]ANTHRACENE		87	C		81	U	86	U	92	U	NS		330	J
DIBENZOFURAN		16,000	N		81	U	16	J	92	U	NS		68	J
DIETHYLPHTHALATE		6,300,000	N		10	J	14	J	13	J	NS		18	J
DIMETHYLPHTHALATE		78,000,000	N		81	U	86	U	92	U	NS		86	U
DI-N-BUTYLPHTHALATE		780,000 ‡	N		20	JB	27	JB	26	JB	NS		26	JB
DI-N-OCTYLPHTHALATE		160,000 ‡	N		81	U	86	U	92	U	NS		86	UJ
FLUORANTHENE		310,000	N		31	J	220		93		NS		3500	D
FLUORENE		310,000	N		81	U	18	J	92	U	NS		110	
HEXACHLOROBENZENE		400	C		81	U	86	U	92	U	NS		86	U
HEXACHLOROBUTADIENE		8,200	C		81	U	86	U	92	U	NS		86	U
HEXACHLOROCYCLOPENTADIENE		47,000	N		81	U	86	U	92	U	NS		86	U
HEXACHLOROETHANE		46,000	C		81	U	86	U	92	U	NS		86	U
INDENO[1,2,3-CD]PYRENE		870	C		81	U	39	J	21	J	NS		1100	J
ISOPHORONE		670,000	C		81	U	86	U	92	U	NS		86	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
NAPHTHALENE	160,000	N		81	U	11	J	92	U	NS		82	J
NITROBENZENE	3,900	N		81	U	86	U	92	U	NS		86	U
N-NITROSO-DI-N-PROPYLAMINE	NA			81	U	86	U	92	U	NS		86	U
N-NITROSODIPHENYLAMINE	130,000	C		81	U	86	U	92	U	NS		86	U
O-CHLORONITROBENZENE	26,000	C		81	U	86	U	92	U	NS		86	U
PENTACHLOROPHENOL	5,300	C		81	U	86	U	92	U	NS		86	U
PHENANTHRENE	NA			15	J	200		46	J	NS		1600	
PHENOL	2,300,000	N		81	U	86	U	92	U	NS		86	U
PHENYL HYDRAZINE	NA			81	U	86	U	92	U	NS		86	U
PHENYL ISOCYANATE	NA			81	U	86	U	92	U	NS		86	U
PHENYL ISOTHIOCYANATE	NA			81	U	86	U	92	U	NS		86	U
PYRENE	230,000	N		27	J	160		72	J	NS		3200	D
SVOC Tentatively Identified Compounds (UG/KG)													
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)	NA				*		*		*	NS		880	NJ
.ALPHA.-PINENE (CAS # 80-56-8)	NA				*		*		*	NS		1000	NJ
.BETA.-PINENE (CAS# 127-91-3)	NA				*		*		*	NS		2100	NJ
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA			120	NJ		*	290	NJ	NS			*
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)	NA				*		*		*	NS		120	NJ
11H-BENZO[B]FLUORENE (CAS# 243-17-4)	NA				*		*		*	NS		160	NJ
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)	NA				*		*		*	NS			*
1H-CYCLOPROP[E]AZULENE, 1A,2,3,4,4A,5,6,7B-OCTAHYDRO-1,1,4,7-TETRAMETHYL-, [1AR-(1A.ALPHA., 4.ALPHA., 4A.BETA., 7B.ALPHA.)]- (CAS# 489-40-7)	NA				*		*		*	NS			*
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)	NA			140	NJ		*		*	NS			*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N			*		*	320	NJ	NS			*
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)	NA				*	1100	NJ		*	NS			*
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)	NA				*		*		*	NS			*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA				*	1200	NJ	460	NJ	NS		96	NJ
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA				*	490	NJ	650	NJ	NS			*
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7-(1-METHYLETHENYL)- [1S-(1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)	NA				*		*		*	NS			*
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)	NA				*		*		*	NS			*
BENZYL FLUORIDE	NA				*		*		*	NS			*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
BENZO(E)PYRENE (CAS# 192-97-2)		NA				*		*		*	NS		330	DNJ
BENZOTRICHLORIDE		NA				*		*		*	NS			*
BORNYL ACETATE (CAS# 76-49-3)		NA				*		*		*	NS			*
CARYOPHYLLENE (CAS# 87-44-5)		NA				*		*		*	NS		540	NJ
CHOLESTEROL (CAS # 57-88-5)		NA				*	2200	NJ		*	NS			*
COPAENE (CAS# 3856-25-5)		NA				*		*		*	NS			*
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)		NA				*		*		*	NS			*
DIPHENYLCHLOROARSINE		NA				*		*		*	NS			*
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)		NA				*		*		*	NS			*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)		16,000,000	N		100	NJ		*		*	NS			*
HEXADECANOIC ACID (CAS# 57-10-3)		NA				*	88	NJ	310	NJ	NS			*
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)		NA				*		*		*	NS			*
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)		NA				*		*		*	NS			*
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1 (1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)		NA				*		*		*	NS			*
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)		NA				*		*		*	NS			*
NONACOSANE (CAS# 630-03-5)		NA				*		*		*	NS		220	DNJ
OLEIC ACID (CAS# 112-80-1)		NA				*	1800	NJ		*	NS			*
o-TOLYL ISOCYANIDE		NA				*		*		*	NS			*
PENTADECANOIC ACID (CAS# 1002-84-2)		NA				*		*	390	NJ	NS			*
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)		NA				*		*		*	NS		240	NJ
PHENYLDICHLOROARSINE		NA				*		*		*	NS			*
PHENYL ISOCYANIDE		NA				*		*		*	NS			*
PYRENE, 2-METHYL- (CAS# 3442-78-2)		NA				*		*		*	NS		210	DNJ
SEPTUM BLEED		NA				*		*		*	NS			*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	9480		7140		13000		9040		7430	
ANTIMONY		**3.1**	N	0.92	1	UL	1.1	UL	1	UL	1.3	UL	1.1	UL
ARSENIC		0.43	C	**12.64**	81.8	J	210	J	31.3	J	12.9	J	8.9	J
BARIUM		**550**	N	298.28	67.6		37.7		76.3		47.5		38.5	
BERYLLIUM		**16**	N	2.35	0.8		0.62		0.78		0.63	U	0.55	U
CADMIUM		**7.8**	N	0.32	0.5	U	0.57	U	0.52	U	0.63	U	0.55	U
CALCIUM		NA		**4,207**	1230		667		4620		2190		4790	
CHROMIUM		**12,000** [‡]	N	97.20	41.3	K	23.2	K	44.1	K	42.4	K	32	K
COBALT		**160**	N	22.26	7.1		11.2		11.8		4.8		3.4	
COPPER		**310**	N	47.76	29.5		19.1		56.9		19.1		14.3	
IRON		2,300	N	**31,951**	29500		33300		32700		27800		23600	
LEAD		**400** [‡]		329.76	14.7	K	17.6	K	26.5	K	44	K	34	K
MAGNESIUM		NA		**7,093**	2770		908		5700		1320		2770	
MANGANESE		160	N	**1,251**	288	J	303	J	392	J	158	J	104	J
MERCURY (by CVAA)		NA		**0.29**	0.06	U	0.1		0.24		0.75		0.37	
NICKEL		**160**	N	40.12	12.3		7.6		24.8		15.4		15.5	
PHOSPHORUS		NA		NA	417		353		514		294		218	
POTASSIUM		NA		**4,945**	2520		743		2560		629		514	
SELENIUM		**39**	N	0.88	0.5	U	0.7		0.72		0.63	U	0.55	U
SILICON		NA		NA	2400		1610		2360		1820		1890	
SILVER		**39**	N	0.74	0.5	U	0.57	U	0.52	U	0.63	U	0.55	U
SODIUM		NA		**55.80**	49.8	U	57.1	U	52	U	63	U	55.3	U
STRONTIUM		**4,700**	N	NA	6.7		3.5		8.9		10.7		10.3	
SULFUR		NA		NA	154		150		236		162		113	
THALLIUM		0.55	N	**1.36**	1	UJ	1.1	UJ	1.4	J	1.3	UJ	1.4	J
TIN		**4,700**	N	NA	2	U	2.3	U	2.3		5.5		5.7	
TITANIUM		**31,000**	N	NA	296		176		423		235		187	
VANADIUM		55	N	**66.76**	66.9		40.4		78.6		56.8		45.6	
ZINC		**2,300**	N	308.8	43.2		31.3		69.4		53.9		36.3	
IC Scan - EPA 300M (MG/KG)														
BROMIDE		NA			1.21	U	1.18	U	1.34	U	NS		1.26	U
CHLORIDE		NA			6.13		7.74		6.93		NS		4.64	
FLUORIDE		NA			2.46	L	2.4	L	4.43	L	NS		6.7	L
NITRATE-N		13,000	N		3.12		1.18	U	9.73		NS		1.26	U
NITRITE-N		780	N		1.21	U	1.18	U	1.34	U	NS		1.26	U
PHOSPHATE-P		NA				R		R		R	NS			R
SULFATE		NA			14	K	30	K	8.22	L	NS		4.94	K

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:	(adjusted		ground[\2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[\1]												
Mustard Breakdown Products (UG/KG)													
1,4-DITHIANE	78,000	N		101	U	103	U	113	U	NS		102	U
1,4-OXATHIANE	78,000	\3,N		104	U	106	U	116	U	NS		105	U
THIODIGLYCOL	39,100	\3,N		1039	U	1095	U	1187	U	NS		257	J
Lewisite Breakdown Products (UG/KG)													
TOTAL CVAA & CVAO	890	\3,C		10	U	10	U	11	U	NS		10	U
Other Parameters (MG/KG, unless otherwise indicated)													
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	180	U	180	U	NS		180	U
ADAMSITE **	NA			7.7	U	7.7	U		**	NS			**
AMMONIA-N	NA			1.19	U	2.47		1.36	U	NS		1.21	U
CYANIDE	160 ‡	N		0.58	U	0.51	U	0.62	U	NS		0.58	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds
Source is the April 25, 2003 USEPA RBC Table
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation

N = Non-carcinogen. This RBC was adjusted down by a factor of 10
C = Carcinogen as listed on the USEPA RBC table
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identifie using the mass spectral library search**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
Volatile Organic Compounds - SW8260B (UG/KG)												
1,1,1-TRICHLOROETHANE	2,200,000	N		1	U	NS		NS		1	U	NS
1,1,2,2,-TETRACHLOROETHANE	3,200	C		1	U	NS		NS		1	U	NS
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	230,000,000	N		1	U	NS		NS		1	U	NS
1,1,2-TRICHLOROETHANE	11,000	C		1	U	NS		NS		1	U	NS
1,1-DICHLOROETHANE	780,000	N		1	U	NS		NS		1	U	NS
1,1-DICHLOROETHENE	390,000	N		1	U	NS		NS		1	U	NS
1,2,4-TRICHLOROBENZENE	78,000	N			R	NS		NS			R	NS
1,2-DIBROMO-3-CHLOROPROPANE	460	C			R	NS		NS			R	NS
1,2-DIBROMOETHANE	7.5	C		1	U	NS		NS		1	U	NS
1,2-DICHLOROBENZENE	700,000	N			R	NS		NS			R	NS
1,2-DICHLOROETHANE	7,000	C		1	U	NS		NS		1	U	NS
1,2-DICHLOROPROPANE	9,400	C		1	U	NS		NS		1	U	NS
1,3-DICHLOROBENZENE	230,000	N			R	NS		NS			R	NS
1,4-DICHLOROBENZENE	27,000	C		2	J	NS		NS			R	NS
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		7		NS		NS		22		NS
2-HEXANONE	310,000	N		1	U	NS		NS		2		NS
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		1	U	NS		NS		1	U	NS
ACETONE	780,000	N		21	B	NS		NS		150	J	NS
ACETONITRILE	NA			5	U	NS		NS		8		NS
ACROLEIN	160,000	N		5	U	NS		NS		7		NS
BENZENE	12,000	C		1	U	NS		NS		1	U	NS
BENZYL BROMIDE	NA				R	NS		NS			R	NS
BENZYL CHLORIDE	3,800	C			R	NS		NS			R	NS
BROMODICHLOROMETHANE	10,000	C		1	U	NS		NS		1	U	NS
BROMOFORM	81,000	C			R	NS		NS			R	NS
BROMOMETHANE	11,000	N		1	U	NS		NS		1	U	NS
CARBON DISULFIDE	780,000	N		6		NS		NS		11		NS
CARBON TETRACHLORIDE	4,900	C		1	U	NS		NS		1	U	NS
CHLOROBENZENE	160,000	N		1	U	NS		NS		1	U	NS
CHLOROETHANE	220,000	C		1	U	NS		NS		1	U	NS
CHLOROFORM	78,000	N		1	U	NS		NS		3		NS
CHLOROMETHANE	NA			4		NS		NS		12		NS
CHLOROPICRIN	NA			26	UJ	NS		NS		31	U	NS
CIS-1,2-DICHLOROETHENE	78,000	N		1	U	NS		NS		1	U	NS
CIS-1,3-DICHLOROPROPENE	6,400 ‡	C		1	U	NS		NS		1	U	NS
CYCLOHEXANE	470,000 ‡	N		1	U	NS		NS		1	U	NS
DIBROMOCHLOROMETHANE	7,600	C		1	U	NS		NS		1	U	NS
DICHLORODIFLUOROMETHANE	1,600,000	N		1	U	NS		NS		1	U	NS
ETHYLBENZENE	780,000	N		1	U	NS		NS		1	U	NS
ISOPROPYLBENZENE (CUMENE)	780,000	N			R	NS		NS			R	NS
M&P-XYLENE	1,600,000	N		1	U	NS		NS		1	U	NS
METHYL ACETATE	7,800,000	N		9		NS		NS		47	J	NS
METHYL TERT-BUTYL ETHER	160,000	C		1	U	NS		NS		1	U	NS
METHYLCYCLOHEXANE	470,000 ‡	N		1	U	NS		NS		3		NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(130,190)(0-6")		CDC-(140,160)	CDC-(140,160)(0-1")	CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch	High As Grid	High As Grid		High As Grid
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"	0-1"	0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001	2/21/2001	2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]									
METHYLENE CHLORIDE	85,000	C		1	U	NS	NS	1	U	NS
O-XYLENE	1,600,000	N		1	U	NS	NS	1	U	NS
STYRENE	1,600,000	N		1	U	NS	NS	1	U	NS
TETRACHLOROETHENE	32,000	C		1	U	NS	NS	1	U	NS
TOLUENE	1,600,000	N		2	J	NS	NS	4		NS
TRANS-1,2-DICHLOROETHENE	160,000	N		1	U	NS	NS	1	U	NS
TRANS-1,3-DICHLOROPROPENE	6,400 ‡	C		1	U	NS	NS	1	U	NS
TRICHLOROETHENE	1,600	C		1	U	NS	NS	1	U	NS
TRICHLOROFLUOROMETHANE	2,300,000	N		1	U	NS	NS	1	U	NS
VINYL CHLORIDE	90	C		1	U	NS	NS	1	U	NS
VOC Tentatively Identified Compounds (UG/KG)										
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)	NA				*	NS	NS		*	NS
2,4-HEXANEDIONE (CAS# 3002-24-2)	NA			2	NJ	NS	NS		*	NS
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)	NA			6	NJ	NS	NS	40	NJ	NS
2-DECENE, 4-METHYL-,(Z)-	NA				*	NS	NS		*	NS
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)	NA				*	NS	NS		*	NS
2-OCTENE, (E)- ISOMER	NA			8	NJ	NS	NS	10	NJ	NS
2-OCTENE, (E)- ISOMER	NA				*	NS	NS		*	NS
2-OCTENE, (Z)- ISOMER	NA				*	NS	NS		*	NS
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)	NA				*	NS	NS		*	NS
2-PROPANOL (CAS# 67-63-0)	NA				*	NS	NS		*	NS
3-OCTENE, (E)-	NA				*	NS	NS		*	NS
ACETALDEHYDE (CAS# 75-07-0)	NA				*	NS	NS	10	NJ	NS
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)	7,000,000	N			*	NS	NS		*	NS
ALCOHOL	NA				*	NS	NS		*	NS
ALLYL ALCOHOL	NA				*	NS	NS		*	NS
BENZALDEHYDE (CAS# 100-52-7)	780,000	N			*	NS	NS		*	NS
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)	550,000	N			*	NS	NS		*	NS
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	NA				*	NS	NS		*	NS
BENZYL IODIDE	NA				*	NS	NS		*	NS
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL	NA			2	NJ	NS	NS		*	NS
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-	NA			3	NJ	NS	NS		*	NS
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-	NA				*	NS	NS		*	NS
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL	NA				*	NS	NS		*	NS
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-	NA				*	NS	NS		*	NS
BICYCLO 3.1.1 HEPT-2-ENE,2,	NA				*	NS	NS		*	NS
BICYCLO 3.1.1 HEPTANE, 6,6-D	NA				*	NS	NS		*	NS
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-	NA				*	NS	NS		*	NS
BROMOACETONE	780,000 ‡	N			*	NS	NS		*	NS
BROMOBENZENE	NA				*	NS	NS		*	NS
BROMOMETHYL ETHER	NA				*	NS	NS		*	NS
BUTANAL (CAS# 123-72-8)	NA			6	NJ	NS	NS	10	NJ	NS
BUTANAL, 3-METHYL-	NA				*	NS	NS		*	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
BUTYL MERCAPTAN	NA				*	NS		NS			*	NS
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)	NA				*	NS		NS			*	NS
CHLORINATED ACETONE	NA				*	NS		NS			*	NS
CHLORINATED CARBON DISULFIDE	780,000 ‡	N			*	NS		NS			*	NS
CHLOROACETONE	780,000 ‡	N			*	NS		NS			*	NS
CHLOROACETONITRILE	NA				*	NS		NS			*	NS
CHLOROMETHYL ETHER	NA				*	NS		NS			*	NS
CHLOROMETHYL ETHYL ETHER	NA				*	NS		NS			*	NS
CROTONALDEHYDE	340	C			*	NS		NS			*	NS
CYCLOBUTANOL (CAS# 2919-23-5)	NA				*	NS		NS			*	NS
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA				*	NS		NS			*	NS
DECANAL (CAS# 112-31-2)	NA				*	NS		NS			*	NS
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)	NA				*	NS		NS			*	NS
ETHYL BROMOACETATE	7,000,000 ‡	N			*	NS		NS			*	NS
ETHYL CHLOROFORMATE	NA				*	NS		NS			*	NS
ETHYL DIBROMOACETATE	7,000,000 ‡	N			*	NS		NS			*	NS
ETHYL MERCAPTAN	NA				*	NS		NS			*	NS
HEPTANAL (CAS# 111-71-7)	NA				*	NS		NS			*	NS
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)	NA				*	NS		NS			*	NS
HEXANAL (CAS# 66-25-1)	NA			200	NJ	NS		NS		300	NJ	NS
HEXANAL, 2-ETHYL- (CAS# 123-05-7)	NA				*	NS		NS			*	NS
HEXANAL, 5-METHYL- (CAS# 1860-39-5)	NA				*	NS		NS		10	NJ	NS
METHYL BROMOACETATE	NA				*	NS		NS			*	NS
METHYL CHLOROACETATE	NA				*	NS		NS			*	NS
METHYL CHLOROFORMATE	NA				*	NS		NS			*	NS
METHYL CHLOROSULFONATE	NA				*	NS		NS			*	NS
OCTANAL (CAS# 124-13-0)	NA				*	NS		NS		20	NJ	NS
OCTANE (CAS# 111-65-9)	NA				*	NS		NS			*	NS
PENTANAL ISOMER	NA			20	NJ	NS		NS		70	NJ	NS
PENTANAL ISOMER	NA			3	NJ	NS		NS			*	NS
PENTANAL, 2-METHYL- (CAS# 123-15-9)	NA				*	NS		NS			*	NS
PENTANE (CAS# 109-66-0)	NA			10	NJ	NS		NS		100	NJ	NS
PERCHLOROMETHYLMERCAPTAN	NA				*	NS		NS			*	NS
PROPANE, 2-METHYL- (CAS# 72-28-5)	NA				*	NS		NS			*	NS
THIOPHENE	NA				*	NS		NS			*	NS
TRICHLOROACETONITRILE	NA				*	NS		NS			*	NS
UNDECANE (CAS# 1120-21-4)	NA				*	NS		NS			*	NS
Semivolatile Organic Compounds - SW8270C (UG/KG)												
1,2,4-TRICHLOROBENZENE	78,000	N		78	U	NS		NS		83	U	NS
1,2-DICHLOROBENZENE	700,000	N		78	U	NS		NS		83	U	NS
1,3-DICHLOROBENZENE	230,000	N		78	U	NS		NS		83	U	NS
1,4-DICHLOROBENZENE	27,000	C		78	U	NS		NS		83	U	NS
2,4,5-TRICHLOROPHENOL	780,000	N		78	U	NS		NS		83	U	NS
2,4,6-TRICHLOROPHENOL	58,000	C		78	U	NS		NS		83	U	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
2,4-DICHLOROPHENOL	23,000	N		78	U	NS		NS		83	U	NS
2,4-DIMETHYLPHENOL	160,000	N		78	U	NS		NS		83	U	NS
2,4-DINITROPHENOL	16,000	N		230	U	NS		NS		250	U	NS
2,4-DINITROTOLUENE	16,000	N		78	U	NS		NS		83	U	NS
2,6-DINITROTOLUENE	7,800	N		78	U	NS		NS		83	U	NS
2-CHLORONAPHTHALENE (CAS# 91587)	630,000 ‡	N		78	U	NS		NS		83	U	NS
2-CHLOROPHENOL	39,000	N		78	U	NS		NS		83	U	NS
2-METHYLNAPHTHALENE (CAS# 91576)	160,000	N		78	U	NS		NS		83	U	NS
2-METHYLPHENOL	390,000	N		78	U	NS		NS		83	U	NS
2-NITROANILINE	NA			78	U	NS		NS		83	U	NS
2-NITROPHENOL	63,000 ‡	N		78	U	NS		NS		83	U	NS
3,3-DICHLOROBENZIDINE'	1,400	C		78	UJ	NS		NS		83	U	NS
3-NITROANILINE (CAS# 99092)	2,300	N		78	U	NS		NS		83	U	NS
4,6-DINITRO-2-METHYLPHENOL	780	N		78	U	NS		NS		83	U	NS
4-BROMOPHENYL-PHENYLETHER	NA			78	U	NS		NS		83	U	NS
4-CHLORO-3-METHYLPHENOL	NA			78	U	NS		NS		83	U	NS
4-CHLOROANILINE	31,000	N		78	U	NS		NS		83	U	NS
4-CHLOROPHENYL-PHENYLETHER	NA			78	U	NS		NS		83	U	NS
4-METHYLPHENOL	39,000	N		78	U	NS		NS		83	U	NS
4-NITROANILINE	32,000	C		78	U	NS		NS		83	U	NS
4-NITROPHENOL	63,000	N		78	U	NS		NS		83	U	NS
ACENAPHTHENE	470,000	N		78	U	NS		NS		83	U	NS
ACENAPHTHYLENE	470,000 ‡	N		78	U	NS		NS		83	U	NS
ANTHRACENE	2,300,000	N		78	U	NS		NS		83	U	NS
BENZO[A]ANTHRACENE	870	C		53	J	NS		NS		73	J	NS
BENZO[A]PYRENE	87	C		78	UJ	NS		NS		46	J	NS
BENZO[B]FLUORANTHENE	870	C		64	J	NS		NS		110	J	NS
BENZO[G,H,I]PERYLENE	NA			78	UJ	NS		NS		24	J	NS
BENZO[K]FLUORANTHENE	8,700	C		43	J	NS		NS		32	J	NS
BENZOIC ACID	31,000,000	N		21	J	NS		NS		18	J	NS
BENZYL ALCOHOL	2,300,000	N		78	U	NS		NS		83	U	NS
BIS(2-CHLOROETHOXY)METHANE	NA			78	U	NS		NS		83	U	NS
BIS(2-CHLOROISOPROPYL)ETHER	9,100	C		78	U	NS		NS		83	U	NS
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		190	J	NS		NS		71	J	NS
BUTYLBENZYLPHTHALATE	1,600,000	N		62	J	NS		NS		22	J	NS
CARBAZOLE	32,000	C		78	U	NS		NS		83	U	NS
CHRYSENE	87,000	C		38	J	NS		NS		39	J	NS
DIBENZ[A,H]ANTHRACENE	87	C		78	UJ	NS		NS		83	UJ	NS
DIBENZOFURAN	16,000	N		78	U	NS		NS		83	U	NS
DIETHYLPHTHALATE	6,300,000	N		10	J	NS		NS		14	J	NS
DIMETHYLPHTHALATE	78,000,000	N		78	U	NS		NS		83	U	NS
DI-N-BUTYLPHTHALATE	780,000 ‡	N		38	JB	NS		NS		28	JB	NS
DI-N-OCTYLPHTHALATE	160,000 ‡	N		78	UJ	NS		NS		83	UJ	NS
FLUORANTHENE	310,000	N		78	J	NS		NS		110		NS
FLUORENE	310,000	N		78	U	NS		NS		83	U	NS
HEXACHLOROBENZENE	400	C		78	U	NS		NS		83	U	NS
HEXACHLOROBUTADIENE	8,200	C		78	U	NS		NS		83	U	NS
HEXACHLOROCYCLOPENTADIENE	47,000	N		78	U	NS		NS		83	U	NS
HEXACHLOROETHANE	46,000	C		78	U	NS		NS		83	U	NS
INDENO[1,2,3-CD]PYRENE	870	C		78	UJ	NS		NS		30	J	NS
ISOPHORONE	670,000	C		78	U	NS		NS		83	U	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

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TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
NAPHTHALENE	160,000	N		78	U	NS		NS		83	U	NS
NITROBENZENE	3,900	N		78	U	NS		NS		83	U	NS
N-NITROSO-DI-N-PROPYLAMINE	NA			78	U	NS		NS		83	U	NS
N-NITROSODIPHENYLAMINE	130,000	C		78	U	NS		NS		83	U	NS
O-CHLORONITROBENZENE	26,000	C		78	U	NS		NS		83	U	NS
PENTACHLOROPHENOL	5,300	C		78	U	NS		NS		83	U	NS
PHENANTHRENE	NA			44	J	NS		NS		48	J	NS
PHENOL	2,300,000	N		78	U	NS		NS		83	U	NS
PHENYL HYDRAZINE	NA			78	UJ	NS		NS		83	U	NS
PHENYL ISOCYANATE	NA			78	U	NS		NS		83	U	NS
PHENYL ISOTHIOCYANATE	NA			78	U	NS		NS		83	U	NS
PYRENE	230,000	N		140	J	NS		NS		110		NS
SVOC Tentatively Identified Compounds (UG/KG)												
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)	NA				*	NS		NS		390	NJ	NS
.ALPHA.-PINENE (CAS # 80-56-8)	NA				*	NS		NS			*	NS
.BETA.-PINENE (CAS# 127-91-3)	NA				*	NS		NS			*	NS
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA				*	NS		NS			*	NS
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)	NA				*	NS		NS			*	NS
11H-BENZO[B]FLUORENE (CAS# 243-17-4)	NA				*	NS		NS			*	NS
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)	NA				*	NS		NS			*	NS
1H-CYCLOPROP[E]AZULENE, 1A,2,3,4,4A,5,6,7B-OCTAHYDRO-1,1,4,7-TETRAMETHYL-, [1AR-(1A.ALPHA., 4.ALPHA., 4A.BETA., 7B.ALPHA.)]- (CAS# 489-40-7)	NA				*	NS		NS			*	NS
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)	NA				*	NS		NS			*	NS
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N			*	NS		NS		270	NJ	NS
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)	NA				*	NS		NS			*	NS
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)	NA				*	NS		NS			*	NS
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA			400	NJ	NS		NS		460	NJ	NS
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA			120	NJ	NS		NS		320	NJ	NS
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7-(1-METHYLETHENYL)- [1S-(1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)	NA				*	NS		NS			*	NS
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)	NA				*	NS		NS		140	NJ	NS
BENZYL FLUORIDE	NA				*	NS		NS			*	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

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SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
BENZO(E)PYRENE (CAS# 192-97-2)	NA				*	NS		NS			*	NS
BENZOTRICHLORIDE	NA				*	NS		NS			*	NS
BORNYL ACETATE (CAS# 76-49-3)	NA				*	NS		NS			*	NS
CARYOPHYLLENE (CAS# 87-44-5)	NA				*	NS		NS		130	NJ	NS
CHOLESTEROL (CAS # 57-88-5)	NA				*	NS		NS			*	NS
COPAENE (CAS# 3856-25-5)	NA				*	NS		NS			*	NS
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)	NA				*	NS		NS			*	NS
DIPHENYLCHLOROARSINE	NA				*	NS		NS			*	NS
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)	NA				*	NS		NS			*	NS
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)	16,000,000	N			*	NS		NS			*	NS
HEXADECANOIC ACID (CAS# 57-10-3)	NA			240	NJ	NS		NS		320	NJ	NS
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)	NA				*	NS		NS			*	NS
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)	NA				*	NS		NS			*	NS
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1 (1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)	NA				*	NS		NS			*	NS
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)	NA				*	NS		NS			*	NS
NONACOSANE (CAS# 630-03-5)	NA				*	NS		NS			*	NS
OLEIC ACID (CAS# 112-80-1)	NA				*	NS		NS		350	NJ	NS
o-TOLYL ISOCYANIDE	NA				*	NS		NS			*	NS
PENTADECANOIC ACID (CAS# 1002-84-2)	NA			120	NJ	NS		NS			*	NS
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)	NA				*	NS		NS			*	NS
PHENYLDICHLOROARSINE	NA				*	NS		NS			*	NS
PHENYL ISOCYANIDE	NA				*	NS		NS			*	NS
PYRENE, 2-METHYL- (CAS# 3442-78-2)	NA				*	NS		NS			*	NS
SEPTUM BLEED	NA				*	NS		NS			*	NS

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SAMPLE DEPTH:		RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	5970		1890		7670		7450		1850	
ANTIMONY		**3.1**	N	0.92	1.2	L	2.6	UL	1.1	UL	1	UL	1.1	UL
ARSENIC		0.43	C	**12.64**	122	J	1.3	UJ	161	J	109	J	50.3	J
BARIUM		**550**	N	298.28	61.5		88.2		45.6		60.5		19.1	
BERYLLIUM		**16**	N	2.35	0.57	U	1.3	U	0.53	U	0.61		0.53	U
CADMIUM		**7.8**	N	0.32	0.57	U	1.3	U	0.53	U	0.5	U	0.53	U
CALCIUM		NA		**4,207**	1830		8660		1470		6050		3070	
CHROMIUM		**12,000** ‡	N	97.20	25.5	K	5.2	K	26.6	K	20.5	K	17.7	K
COBALT		**160**	N	22.26	6.4		2.7		8.5		7.5		5.2	
COPPER		**310**	N	47.76	16.3		6.8		16.9		15.5		6.5	
IRON		2,300	N	**31,951**	23500		4180		33600		23300		7380	
LEAD		**400** ‡		329.76	35.2	K	4.6	K	21.2	K	24	K	7.8	K
MAGNESIUM		NA		**7,093**	1350		998		1020		1850		3590	
MANGANESE		160	N	**1,251**	263	J	312	J	180	J	456	J	161	J
MERCURY (by CVAA)		NA		**0.29**	0.12		0.12	U	0.1		0.16		0.05	U
NICKEL		**160**	N	40.12	16.7		4.5		9		9.9		66	
PHOSPHORUS		NA		NA	311		214		319		240		112	
POTASSIUM		NA		**4,945**	631		687		709		766		224	
SELENIUM		**39**	N	0.88	0.57	U	1.3	U	0.87		0.5	U	0.53	U
SILICON		NA		NA	1700		1040		1130		2440		665	
SILVER		**39**	N	0.74	0.57	U	1.3	U	0.53	U	0.5	U	0.53	U
SODIUM		NA		**55.80**	56.5	U	138		52.7	U	68.7		146	
STRONTIUM		**4,700**	N	NA	11.7		34.8		8.5		17.7		4.6	
SULFUR		NA		NA	139		286		114		157		84	
THALLIUM		0.55	N	**1.36**	1.1	UJ	2.6	UJ	1.1	UJ	1	UJ	1.1	UJ
TIN		**4,700**	N	NA	2.5		5.2	U	2.4		2		2.1	U
TITANIUM		**31,000**	N	NA	144		74.9		149		200		43.5	
VANADIUM		55	N	**66.76**	28.3		6.3		35.8		28.8		7.9	
ZINC		**2,300**	N	308.8	50.2		18.2		80.2		60.1		40.9	
IC Scan - EPA 300M (MG/KG)														
BROMIDE		NA			NS		NS		NS		1.16	U	NS	
CHLORIDE		NA			NS		NS		NS		7.37		NS	
FLUORIDE		NA			NS		NS		NS		6.47	L	NS	
NITRATE-N		13,000	N		NS		NS		NS		1.16	U	NS	
NITRITE-N		780	N		NS		NS		NS		1.16	U	NS	
PHOSPHATE-P		NA			NS		NS		NS			R	NS	
SULFATE		NA			NS		NS		NS		16	K	NS	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[\2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[\1]											
Mustard Breakdown Products (UG/KG)												
1,4-DITHIANE	78,000	N		NS		NS		NS		99	U	NS
1,4-OXATHIANE	78,000	\3,N		NS		NS		NS		102	U	NS
THIODIGLYCOL	39,100	\3,N		NS		NS		NS		1069	U	NS
Lewisite Breakdown Products (UG/KG)												
TOTAL CVAA & CVAO	890	\3,C		NS		NS		NS		10	U	NS
Other Parameters (MG/KG, unless otherwise indicated)												
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		NS		NS		NS		180	U	NS
ADAMSITE **	NA			NS		NS		NS		7.7	U	NS
AMMONIA-N	NA			NS		NS		NS		1.19	U	NS
CYANIDE	160 ‡	N		NS		NS		NS		0.57	U	NS

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds
Source is the April 25, 2003 USEPA RBC Table
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation

N = Non-carcinogen. This RBC was adjusted down by a factor of 10
C = Carcinogen as listed on the USEPA RBC table
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identifie using the mass spectral library search**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
Volatile Organic Compounds - SW8260B (UG/KG)												
1,1,1-TRICHLOROETHANE	2,200,000	N		2	U	1	U	2	U	1	UJ	NS
1,1,2,2,-TETRACHLOROETHANE	3,200	C		2	UJ	1	U	2	UJ		R	NS
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	230,000,000	N		2	U	1	U	2	U	1	UJ	NS
1,1,2-TRICHLOROETHANE	11,000	C		2	UJ	1	U	2	UJ	1	UJ	NS
1,1-DICHLOROETHANE	780,000	N		2	U	1	U	2	U	1	UJ	NS
1,1-DICHLOROETHENE	390,000	N		2	U	1	U	2	U	1	UJ	NS
1,2,4-TRICHLOROBENZENE	78,000	N			R	1	UJ		R		R	NS
1,2-DIBROMO-3-CHLOROPROPANE	460	C			R	1	UJ		R		R	NS
1,2-DIBROMOETHANE	7.5	C		2	UJ	1	U	2	UJ		R	NS
1,2-DICHLOROBENZENE	700,000	N			R	1	UJ		R		R	NS
1,2-DICHLOROETHANE	7,000	C		2	U	1	U	2	U	1	UJ	NS
1,2-DICHLOROPROPANE	9,400	C		2	U	1	U	2	U	1	UJ	NS
1,3-DICHLOROBENZENE	230,000	N			R	1	UJ		R		R	NS
1,4-DICHLOROBENZENE	27,000	C			R	1	UJ		R		R	NS
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		58	J	12		43	J	21	J	NS
2-HEXANONE	310,000	N		4	J	1	U	2	J	2	J	NS
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		2		1	U	2	U	1	UJ	NS
ACETONE	780,000	N		360	J	78	J	200	J	100	J	NS
ACETONITRILE	NA			9		6	U	8	U	7	J	NS
ACROLEIN	160,000	N		13		6	U	12		7	UJ	NS
BENZENE	12,000	C		2	U	1	U	2	U	2	J	NS
BENZYL BROMIDE	NA				R	6	UJ		R		R	NS
BENZYL CHLORIDE	3,800	C			R	6	UJ		R		R	NS
BROMODICHLOROMETHANE	10,000	C		2	U	1	U	2	U	1	UJ	NS
BROMOFORM	81,000	C			R	1	UJ		R		R	NS
BROMOMETHANE	11,000	N		2	U	1	U	2	U	1	UJ	NS
CARBON DISULFIDE	780,000	N		14		7		31		15	J	NS
CARBON TETRACHLORIDE	4,900	C		2	U	1	U	2	U	1	UJ	NS
CHLOROBENZENE	160,000	N		2	UJ	1	U	2	UJ		R	NS
CHLOROETHANE	220,000	C		2	U	1	U	2	U	1	UJ	NS
CHLOROFORM	78,000	N		2	U	1	U	2	U	1	UJ	NS
CHLOROMETHANE	NA			23		7		11		18	J	NS
CHLOROPICRIN	NA			45	UJ	30	U	38	U	33	UJ	NS
CIS-1,2-DICHLOROETHENE	78,000	N		2	U	1	U	2	U	1	UJ	NS
CIS-1,3-DICHLOROPROPENE	6,400 ‡	C		2	U	1	U	2	U	1	UJ	NS
CYCLOHEXANE	470,000 ‡	N		2	U	1	U	2	U	1	UJ	NS
DIBROMOCHLOROMETHANE	7,600	C		2	U	1	U	2	U	1	UJ	NS
DICHLORODIFLUOROMETHANE	1,600,000	N		2	U	1	U	2	U	1	UJ	NS
ETHYLBENZENE	780,000	N		2	UJ	1	U	2	UJ		R	NS
ISOPROPYLBENZENE (CUMENE)	780,000	N			R	1	UJ	2	J		R	NS
M&P-XYLENE	1,600,000	N		2	UJ	1	U	2	UJ		R	NS
METHYL ACETATE	7,800,000	N		190	J	29	J	70	J	32	J	NS
METHYL TERT-BUTYL ETHER	160,000	C		2	U	1	U	2	U	1	UJ	NS
METHYLCYCLOHEXANE	470,000 ‡	N		3	J	1	U	3	J	1	UJ	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
METHYLENE CHLORIDE	85,000	C		2	U	1	U	2		1	UJ	NS	
O-XYLENE	1,600,000	N		2	UJ	1	U	2	UJ		R	NS	
STYRENE	1,600,000	N		2	UJ	1	U	2	UJ		R	NS	
TETRACHLOROETHENE	32,000	C		2	UJ	1	U	2	J		R	NS	
TOLUENE	1,600,000	N		12	J	1	J	5	J	9	J	NS	
TRANS-1,2-DICHLOROETHENE	160,000	N		2	U	1	U	2	U	1	UJ	NS	
TRANS-1,3-DICHLOROPROPENE	6,400 ‡	C		2	U	1	U	2	U	1	UJ	NS	
TRICHLOROETHENE	1,600	C		2	U	1	U	2	U	1	UJ	NS	
TRICHLOROFLUOROMETHANE	2,300,000	N		2	U	1	U	2	U	1	UJ	NS	
VINYL CHLORIDE	90	C		2	U	1	U	2	U	1	UJ	NS	
VOC Tentatively Identified Compounds (UG/KG)													
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)	NA				*		*		*		*	NS	
2,4-HEXANEDIONE (CAS# 3002-24-2)	NA				*		*		*		*	NS	
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)	NA			50	NJ	9	NJ	40	NJ	30	NJ	NS	
2-DECENE, 4-METHYL-,(Z)-	NA				*	7	NJ		*		*	NS	
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)	NA				*		*		*		*	NS	
2-OCTENE, (E)- ISOMER	NA			20	NJ		*		*	40	NJ	NS	
2-OCTENE, (E)- ISOMER	NA				*		*		*		*	NS	
2-OCTENE, (Z)- ISOMER	NA				*	6	NJ	20	NJ		*	NS	
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)	NA				*		*		*		*	NS	
2-PROPANOL (CAS# 67-63-0)	NA				*		*		*		*	NS	
3-OCTENE, (E)-	NA				*		*		*		*	NS	
ACETALDEHYDE (CAS# 75-07-0)	NA			50	NJ	10	NJ	40	NJ	20	NJ	NS	
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)	7,000,000	N			*		*		*		*	NS	
ALCOHOL	NA				*		*		*		*	NS	
ALLYL ALCOHOL	NA				*		*		*		*	NS	
BENZALDEHYDE (CAS# 100-52-7)	780,000	N		20	NJ		*		*		*	NS	
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)	550,000	N			*		*		*		*	NS	
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	NA				*		*		*		*	NS	
BENZYL IODIDE	NA				*		*		*		*	NS	
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL	NA				*		*		*		*	NS	
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-	NA				*		*		*		*	NS	
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-	NA				*		*		*		*	NS	
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL	NA				*		*		*		*	NS	
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-	NA				*		*		*		*	NS	
BICYCLO 3.1.1 HEPT-2-ENE,2,	NA				*		*		*		*	NS	
BICYCLO 3.1.1 HEPTANE, 6,6-D	NA				*		*		*		*	NS	
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-	NA				*		*		*		*	NS	
BROMOACETONE	780,000 ‡	N			*		*		*		*	NS	
BROMOBENZENE	NA				*		*		*		*	NS	
BROMOMETHYL ETHER	NA				*		*		*		*	NS	
BUTANAL (CAS# 123-72-8)	NA				*	8	NJ	20	NJ		*	NS	
BUTANAL, 3-METHYL-	NA				*		*		*		*	NS	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
BUTYL MERCAPTAN	NA				*		*		*		*	NS
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)	NA				*		*		*	40	NJ	NS
CHLORINATED ACETONE	NA				*		*		*		*	NS
CHLORINATED CARBON DISULFIDE	780,000 ‡	N			*		*		*		*	NS
CHLOROACETONE	780,000 ‡	N			*		*		*		*	NS
CHLOROACETONITRILE	NA				*		*		*		*	NS
CHLOROMETHYL ETHER	NA				*		*		*		*	NS
CHLOROMETHYL ETHYL ETHER	NA				*		*		*		*	NS
CROTONALDEHYDE	340	C			*		*		*		*	NS
CYCLOBUTANOL (CAS# 2919-23-5)	NA				*		*		*		*	NS
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA			30	NJ		*		*		*	NS
DECANAL (CAS# 112-31-2)	NA				*		*		*		*	NS
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)	NA				*		*		*		*	NS
ETHYL BROMOACETATE	7,000,000 ‡	N			*		*		*		*	NS
ETHYL CHLOROFORMATE	NA				*		*		*		*	NS
ETHYL DIBROMOACETATE	7,000,000 ‡	N			*		*		*		*	NS
ETHYL MERCAPTAN	NA				*		*		*		*	NS
HEPTANAL (CAS# 111-71-7)	NA				*		*		*		*	NS
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)	NA				*		*		*		*	NS
HEXANAL (CAS# 66-25-1)	NA			300	NJ	100	NJ	400	NJ	400	NJ	NS
HEXANAL, 2-ETHYL- (CAS# 123-05-7)	NA				*		*		*		*	NS
HEXANAL, 5-METHYL- (CAS# 1860-39-5)	NA				*		*	20	NJ	10	NJ	NS
METHYL BROMOACETATE	NA				*		*		*		*	NS
METHYL CHLOROACETATE	NA				*		*		*		*	NS
METHYL CHLOROFORMATE	NA				*		*		*		*	NS
METHYL CHLOROSULFONATE	NA				*		*		*		*	NS
OCTANAL (CAS# 124-13-0)	NA			30	NJ	7	NJ	20	NJ		*	NS
OCTANE (CAS# 111-65-9)	NA				*		*		*		*	NS
PENTANAL ISOMER	NA			20	NJ	40	NJ	100	NJ	80	NJ	NS
PENTANAL ISOMER	NA			60	NJ	7	NJ	20	NJ	20	NJ	NS
PENTANAL, 2-METHYL- (CAS# 123-15-9)	NA				*		*		*	10	NJ	NS
PENTANE (CAS# 109-66-0)	NA			100	NJ	30	NJ	60	NJ	100	NJ	NS
PERCHLOROMETHYLMERCAPTAN	NA				*		*		*		*	NS
PROPANE, 2-METHYL- (CAS# 72-28-5)	NA				*		*		*		*	NS
THIOPHENE	NA				*		*		*		*	NS
TRICHLOROACETONITRILE	NA				*		*		*		*	NS
UNDECANE (CAS# 1120-21-4)	NA				*		*		*		*	NS
Semivolatile Organic Compounds - SW8270C (UG/KG												
1,2,4-TRICHLOROBENZENE	78,000	N		120	U	86	U	93	U	95	U	NS
1,2-DICHLOROBENZENE	700,000	N		120	U	86	U	93	U	95	U	NS
1,3-DICHLOROBENZENE	230,000	N		120	U	86	U	93	U	95	U	NS
1,4-DICHLOROBENZENE	27,000	C		120	U	86	U	93	U	95	U	NS
2,4,5-TRICHLOROPHENOL	780,000	N		120	U	86	U	93	U	95	U	NS
2,4,6-TRICHLOROPHENOL	58,000	C		120	U	86	U	93	U	95	U	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
2,4-DICHLOROPHENOL	23,000	N		120	U	86	U	93	U	95	U	NS
2,4-DIMETHYLPHENOL	160,000	N		120	U	86	U	93	U	95	U	NS
2,4-DINITROPHENOL	16,000	N		350	U	260	U	280	U	280	U	NS
2,4-DINITROTOLUENE	16,000	N		120	U	86	U	93	U	95	U	NS
2,6-DINITROTOLUENE	7,800	N		120	U	86	U	93	U	95	U	NS
2-CHLORONAPHTHALENE (CAS# 91587)	630,000 ‡	N		120	U	86	U	93	U	95	U	NS
2-CHLOROPHENOL	39,000	N		120	U	86	U	93	U	95	U	NS
2-METHYLNAPHTHALENE (CAS# 91576)	160,000	N		120	U	86	U	93	U	95	U	NS
2-METHYLPHENOL	390,000	N		120	U	86	U	93	U	95	U	NS
2-NITROANILINE	NA			120	U	86	U	93	U	95	U	NS
2-NITROPHENOL	63,000 ‡	N		120	U	86	U	93	U	95	U	NS
3,3-DICHLOROBENZIDINE'	1,400	C		120	UJ	86	UJ	93	UJ	95	UJ	NS
3-NITROANILINE (CAS# 99092)	2,300	N		120	U	86	U	93	U	95	U	NS
4,6-DINITRO-2-METHYLPHENOL	780	N		120	U	86	U	93	U	95	U	NS
4-BROMOPHENYL-PHENYLETHER	NA			120	U	86	U	93	U	95	U	NS
4-CHLORO-3-METHYLPHENOL	NA			120	U	86	U	93	U	95	U	NS
4-CHLOROANILINE	31,000	N		120	U	86	U	93	U	95	U	NS
4-CHLOROPHENYL-PHENYLETHER	NA			120	U	86	U	93	U	95	U	NS
4-METHYLPHENOL	39,000	N		120	U	86	U	93	U	95	U	NS
4-NITROANILINE	32,000	C		120	U	86	U	93	U	95	U	NS
4-NITROPHENOL	63,000	N		120	U	86	U	93	U	95	U	NS
ACENAPHTHENE	470,000	N		120	U	20	J	93	U	20	J	NS
ACENAPHTHYLENE	470,000 ‡	N		120	U	86	U	93	U	95	U	NS
ANTHRACENE	2,300,000	N		18	J	59	J	22	J	33	J	NS
BENZO[A]ANTHRACENE	870	C		77	J	320	J	140	J	140	J	NS
BENZO[A]PYRENE	87	C		120	UJ	240	J	110	J	82	J	NS
BENZO[B]FLUORANTHENE	870	C		92	J	400	J	170	J	200	J	NS
BENZO[G,H,I]PERYLENE	NA			120	UJ	67	J		R		R	NS
BENZO[K]FLUORANTHENE	8,700	C		33	J	220	J	100	J		R	NS
BENZOIC ACID	31,000,000	N		41	J	35	J	25	J	38	J	NS
BENZYL ALCOHOL	2,300,000	N		120	U	86	U	93	U	95	U	NS
BIS(2-CHLOROETHOXY)METHANE	NA			120	U	86	U	93	U	95	U	NS
BIS(2-CHLOROISOPROPYL)ETHER	9,100	C		120	U	86	U	93	U	95	U	NS
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		360	J	190	J	300	J	130	J	NS
BUTYLBENZYLPHTHALATE	1,600,000	N		44	J	86	UJ	51	J	46	J	NS
CARBAZOLE	32,000	C		120	U	22	J	93	U	95	U	NS
CHRYSENE	87,000	C		52	J	210	J	110	J	100	J	NS
DIBENZ[A,H]ANTHRACENE	87	C		120	UJ	86	UJ		R		R	NS
DIBENZOFURAN	16,000	N		120	U	86	U	93	U	95	U	NS
DIETHYLPHTHALATE	6,300,000	N		24	J	21	J	13	J	16	J	NS
DIMETHYLPHTHALATE	78,000,000	N		120	U	86	U	93	U	95	U	NS
DI-N-BUTYLPHTHALATE	780,000 ‡	N		48	JB	32	JB	93	U	40	JB	NS
DI-N-OCTYLPHTHALATE	160,000 ‡	N		120	UJ	86	UJ		R		R	NS
FLUORANTHENE	310,000	N		120	J	470		190		180		NS
FLUORENE	310,000	N		120	U	15	J	93	U	95	U	NS
HEXACHLOROBENZENE	400	C		120	U	86	U	93	U	95	U	NS
HEXACHLOROBUTADIENE	8,200	C		120	U	86	U	93	U	95	U	NS
HEXACHLOROCYCLOPENTADIENE	47,000	N		120	U	86	U	93	U	95	U	NS
HEXACHLOROETHANE	46,000	C		120	U	86	U	93	U	95	U	NS
INDENO[1,2,3-CD]PYRENE	870	C		120	UJ	91	J		R		R	NS
ISOPHORONE	670,000	C		120	U	86	U	93	U	95	U	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
NAPHTHALENE	160,000	N		120	U	12	J	93	U	95	U	NS
NITROBENZENE	3,900	N		120	U	86	U	93	U	95	U	NS
N-NITROSO-DI-N-PROPYLAMINE	NA			120	U	86	U	93	U	95	U	NS
N-NITROSODIPHENYLAMINE	130,000	C		120	U	86	U	93	U	95	U	NS
O-CHLORONITROBENZENE	26,000	C		120	U	86	U	93	U	95	U	NS
PENTACHLOROPHENOL	5,300	C		120	U	86	U	93	U	95	U	NS
PHENANTHRENE	NA			82	J	260		100		160		NS
PHENOL	2,300,000	N		120	U	86	U	93	U	95	U	NS
PHENYL HYDRAZINE	NA			120	UJ	86	UJ	93	UJ	95	UJ	NS
PHENYL ISOCYANATE	NA			120	U	86	U	93	U	95	U	NS
PHENYL ISOTHIOCYANATE	NA			120	U	86	U	93	U	95	U	NS
PYRENE	230,000	N		230	J	910	J	390	J	430	J	NS
SVOC Tentatively Identified Compounds (UG/KG)												
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)	NA			560	NJ		*	160	NJ	760	NJ	NS
.ALPHA.-PINENE (CAS # 80-56-8)	NA				*		*		*		*	NS
.BETA.-PINENE (CAS# 127-91-3)	NA				*		*	140	NJ		*	NS
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA				*		*		*		*	NS
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)	NA				*		*		*		*	NS
11H-BENZO[B]FLUORENE (CAS# 243-17-4)	NA				*		*		*		*	NS
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)	NA				*		*		*		*	NS
1H-CYCLOPROP[E]AZULENE, 1A,2,3,4,4A,5,6,7B-OCTAHYDRO-1,1,4,7-TETRAMETHYL-, [1AR-(1A.ALPHA., 4.ALPHA., 4A.BETA., 7B.ALPHA.)]- (CAS# 489-40-7)	NA				*		*		*		*	NS
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)	NA				*		*		*		*	NS
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N		410	NJ		*		*		*	NS
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)	NA				*		*		*		*	NS
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)	NA				*		*		*		*	NS
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA			1500	NJ				*		*	NS
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA			1100	NJ	480	NJ		*		*	NS
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)	NA				*		*		*		*	NS
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)	NA				*		*		*		*	NS
BENZYL FLUORIDE	NA				*		*		*		*	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
BENZO(E)PYRENE (CAS# 192-97-2)	NA				*		*		*		*	NS	
BENZOTRICHLORIDE	NA				*		*		*		*	NS	
BORNYL ACETATE (CAS# 76-49-3)	NA				*		*		*	190	NJ	NS	
CARYOPHYLLENE (CAS# 87-44-5)	NA			200	NJ		*		*	260	NJ	NS	
CHOLESTEROL (CAS # 57-88-5)	NA				*		*		*		*	NS	
COPAENE (CAS# 3856-25-5)	NA				*		*		*		*	NS	
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)	NA				*		*		*		*	NS	
DIPHENYLCHLOROARSINE	NA				*		*		*		*	NS	
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)	NA				*		*		*		*	NS	
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)	16,000,000	N			*		*		*		*	NS	
HEXADECANOIC ACID (CAS# 57-10-3)	NA			250	NJ	380	NJ	270	NJ	190	NJ	NS	
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)	NA				*		*		*		*	NS	
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)	NA				*		*		*		*	NS	
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1-(1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)	NA				*		*		*		*	NS	
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)	NA				*		*		*		*	NS	
NONACOSANE (CAS# 630-03-5)	NA				*		*		*		*	NS	
OLEIC ACID (CAS# 112-80-1)	NA			1500	NJ		*	110	NJ		*	NS	
o-TOLYL ISOCYANIDE	NA				*		*		*		*	NS	
PENTADECANOIC ACID (CAS# 1002-84-2)	NA				*		*		*		*	NS	
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)	NA				*		*		*		*	NS	
PHENYLDICHLOROARSINE	NA				*		*		*		*	NS	
PHENYL ISOCYANIDE	NA				*				*		*	NS	
PYRENE, 2-METHYL- (CAS# 3442-78-2)	NA				*		*		*		*	NS	
SEPTUM BLEED	NA				*		*		*		*	NS	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	2970		7420		7740		5560		2220	
ANTIMONY		**3.1**	N	0.92	1.5	UL	0.98	UL	1.3	UL	2.1	L	2.1	UL
ARSENIC		0.43	C	**12.64**	91.1	J	173	J	145	J	399	J	5.6	J
BARIUM		**550**	N	298.28	49.6		58.9		76.9		64.9		97	
BERYLLIUM		**16**	N	2.35	0.73	U	0.59		0.65	U	0.62	U	1	U
CADMIUM		**7.8**	N	0.32	0.73	U	0.49	U	0.65	U	0.62	U	1	U
CALCIUM		NA		**4,207**	2930		2450		3170		3390		8440	
CHROMIUM		**12,000** [‡]	N	97.20	20.4	K	32.8	K	25.3	K	19.2	K	7.7	K
COBALT		**160**	N	22.26	4.9		8		8		6.6		3.1	
COPPER		**310**	N	47.76	11.1		20.2		17.7		22.5		7.9	
IRON		2,300	N	**31,951**	11300		27400		22200		20200		4920	
LEAD		**400** [‡]		329.76	16.4	K	28.2	K	43.4	K	37.4	K	6.1	K
MAGNESIUM		NA		**7,093**	2750		1630		1520		1600		1050	
MANGANESE		160	N	**1,251**	205	J	271	J	435	J	270	J	338	J
MERCURY (by CVAA)		NA		**0.29**	0.15		0.23		0.17		0.2		0.1	U
NICKEL		**160**	N	40.12	61.2		14.8		14.9		12.1		9.6	
PHOSPHORUS		NA		NA	273		391		466		384		252	
POTASSIUM		NA		**4,945**	418		1180		647		942		944	
SELENIUM		**39**	N	0.88	0.73	U	0.58		0.65	U	0.62	U	1	U
SILICON		NA		NA	967		1930		1820		1600		1060	
SILVER		**39**	N	0.74	0.73	U	0.49	U	0.65	U	0.62	U	1	U
SODIUM		NA		**55.80**	73.5	U	49.1	U	64.7	U	61.8	U	190	
STRONTIUM		**4,700**	N	NA	13		11.2		15.6		15.6		35.6	
SULFUR		NA		NA	235		163		332		257		310	
THALLIUM		0.55	N	**1.36**	1.5	UJ	0.98	UJ	1.3	UJ	1.2	UJ	2.1	UJ
TIN		**4,700**	N	NA	2.9	U	2.6		4.1		2.9		4.2	U
TITANIUM		**31,000**	N	NA	95.9		169		185		204		84.1	
VANADIUM		55	N	**66.76**	13.6		34.9		35.8		27.8		7.6	
ZINC		**2,300**	N	308.8	49.6		85.7		70.5		73.3		23	
IC Scan - EPA 300M (MG/KG)														
BROMIDE		NA			1.59	U	NS		NS		NS		NS	
CHLORIDE		NA			4.48		NS		NS		NS		NS	
FLUORIDE		NA			2.81	L	NS		NS		NS		NS	
NITRATE-N		13,000	N		1.59	U	NS		NS		NS		NS	
NITRITE-N		780	N		1.59	U	NS		NS		NS		NS	
PHOSPHATE-P		NA				R	NS		NS		NS		NS	
SULFATE		NA			6.9	K	NS		NS		NS		NS	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")	CDC-(160,130)(0-6")	CDC-(160,140)(0-6")	CDC-(160,150)
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid	High As Grid	High As Grid	Mulch
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"	0-6"	0-6"	0-1"
SAMPLING DATE:	(adjusted		ground[\2]	2/21/2001		2/21/2001	2/21/2001	2/21/2001	2/21/2001
Analyses performed by Southwest Research Institute	downward)[\1]								
Mustard Breakdown Products (UG/KG)									
1,4-DITHIANE	78,000	N		137	U	NS	NS	NS	NS
1,4-OXATHIANE	78,000	\3,N		140	U	NS	NS	NS	NS
THIODIGLYCOL	39,100	\3,N		732	J	NS	NS	NS	NS
Lewisite Breakdown Products (UG/KG)									
TOTAL CVAA & CVAO	890	\3,C		14	U	NS	NS	NS	NS
Other Parameters (MG/KG, unless otherwise indicated)									
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	NS	NS	NS	NS
ADAMSITE **	NA			7.7	U	NS	NS	NS	NS
AMMONIA-N	NA			1.54	U	NS	NS	NS	NS
CYANIDE	160 ‡	N		0.5	U	NS	NS	NS	NS

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds
Source is the April 25, 2003 USEPA RBC Table
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation

N = Non-carcinogen. This RBC was adjusted down by a factor of 10
C = Carcinogen as listed on the USEPA RBC table
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
Volatile Organic Compounds - SW8260B (UG/KG)																
1,1,1-TRICHLOROETHANE		2,200,000	N		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
1,1,2,2,-TETRACHLOROETHANE		3,200	C		NS			R		R		R		R		R
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE		230,000,000	N		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	UJ
1,1,2-TRICHLOROETHANE		11,000	C		NS			R		R		R		R		R
1,1-DICHLOROETHANE		780,000	N		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
1,1-DICHLOROETHENE		390,000	N		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
1,2,4-TRICHLOROBENZENE		78,000	N		NS			R		R		R		R		R
1,2-DIBROMO-3-CHLOROPROPANE		460	C		NS			R		R		R		R		R
1,2-DIBROMOETHANE		7.5	C		NS			R		R		R		R		R
1,2-DICHLOROBENZENE		700,000	N		NS			R		R		R		R		R
1,2-DICHLOROETHANE		7,000	C		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
1,2-DICHLOROPROPANE		9,400	C		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
1,3-DICHLOROBENZENE		230,000	N		NS			R		R		R		R		R
1,4-DICHLOROBENZENE		27,000	C		NS			R		R		R		R		R
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)		4,700,000	N		NS		20	J	14		8		42	J	17	
2-HEXANONE		310,000	N		NS			R		R		R	4	J		R
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)		630,000	N		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
ACETONE		780,000	N		NS		120	J	69	J	55	J	330	J	80	J
ACETONITRILE		NA			NS		10	J	7	U	5.4	U	33	J	6.1	U
ACROLEIN		160,000	N		NS		12		7	U	5.4	U	8.7	UJ	6.1	UJ
BENZENE		12,000	C		NS		2	J	3		1.1	UJ	1.7	UJ	1.2	UJ
BENZYL BROMIDE		NA			NS			R		R		R		R		R
BENZYL CHLORIDE		3,800	C		NS			R		R		R		R		R
BROMODICHLOROMETHANE		10,000	C		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
BROMOFORM		81,000	C		NS			R		R		R		R		R
BROMOMETHANE		11,000	N		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
CARBON DISULFIDE		780,000	N		NS		12	J	10		9		32	J	10	
CARBON TETRACHLORIDE		4,900	C		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
CHLOROBENZENE		160,000	N		NS			R		R		R		R		R
CHLOROETHANE		220,000	C		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
CHLOROFORM		78,000	N		NS		1	UJ	1	UJ	1.1	U	2	J	1.2	U
CHLOROMETHANE		NA			NS		14	J	10		11		16	J	9	
CHLOROPICRIN		NA			NS		35	UJ	33	U	27	U	44	UJ	30	U
CIS-1,2-DICHLOROETHENE		78,000	N		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
CIS-1,3-DICHLOROPROPENE		6,400 ‡	C		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
CYCLOHEXANE		470,000 ‡	N		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
DIBROMOCHLOROMETHANE		7,600	C		NS			R		R		R		R		R
DICHLORODIFLUOROMETHANE		1,600,000	N		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
ETHYLBENZENE		780,000	N		NS			R		R		R		R		R
ISOPROPYLBENZENE (CUMENE)		780,000	N		NS		2	J		R		R	2	J		R
M&P-XYLENE		1,600,000	N		NS			R		R		R		R		R
METHYL ACETATE		7,800,000	N		NS		24	J	25		26		83	J	35	J
METHYL TERT-BUTYL ETHER		160,000	C		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
METHYLCYCLOHEXANE		470,000 ‡	N		NS			R		R		R	1.7	UJ	1.2	UJ

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
METHYLENE CHLORIDE	85,000	C		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
O-XYLENE	1,600,000	N		NS			R		R		R		R		R
STYRENE	1,600,000	N		NS			R		R		R		R		R
TETRACHLOROETHENE	32,000	C		NS			R		R		R		R		R
TOLUENE	1,600,000	N		NS		12	J	8	J	1.1	U	36	J	2	J
TRANS-1,2-DICHLOROETHENE	160,000	N		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
TRANS-1,3-DICHLOROPROPENE	6,400 ‡	C		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
TRICHLOROETHENE	1,600	C		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
TRICHLOROFLUOROMETHANE	2,300,000	N		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
VINYL CHLORIDE	90	C		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
VOC Tentatively Identified Compounds (UG/KG)															
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)	NA			NS			*		*		*		*		*
2,4-HEXANEDIONE (CAS# 3002-24-2)	NA			NS			*		*		*		*		*
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)	NA			NS		20	NJ	10	NJ	10	NJ		*	20	NJ
2-DECENE, 4-METHYL-,(Z)-	NA			NS			*		*		*		*		*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)	NA			NS			*		*		*		*		*
2-OCTENE, (E)- ISOMER	NA			NS		30	NJ	20	NJ	40	NJ		*	20	NJ
2-OCTENE, (E)- ISOMER	NA			NS		30	NJ		*		*		*		*
2-OCTENE, (Z)- ISOMER	NA			NS			*		*		*		*		*
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)	NA			NS			*		*		*		*		*
2-PROPANOL (CAS# 67-63-0)	NA			NS			*		*		*		*		*
3-OCTENE, (E)-	NA			NS			*		*		*		*		*
ACETALDEHYDE (CAS# 75-07-0)	NA			NS			*		*		*		*		*
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)	7,000,000	N		NS			*		*		*		*		*
ALCOHOL	NA			NS			*		*		*		*		*
ALLYL ALCOHOL	NA			NS			*		*		*		*		*
BENZALDEHYDE (CAS# 100-52-7)	780,000	N		NS			*		*		*		*		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)	550,000	N		NS			*		*		*		*		*
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	NA			NS			*		*		*	400	NJ		*
BENZYL IODIDE	NA			NS			*		*		*		*		*
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL	NA			NS			*		*		*	3000	NJ		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-	NA			NS			*		*		*	3000	NJ		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-	NA			NS			*		*		*	600	NJ		*
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL	NA			NS			*		*		*		*		*
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-	NA			NS		30	NJ		*		*	5000	NJ		*
BICYCLO 3.1.1 HEPT-2-ENE,2,	NA			NS			*		*		*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-D	NA			NS			*		*		*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-	NA			NS			*		*		*	400	NJ		*
BROMOACETONE	780,000 ‡	N		NS			*		*		*		*		*
BROMOBENZENE	NA			NS			*		*		*		*		*
BROMOMETHYL ETHER	NA			NS			*		*		*		*		*
BUTANAL (CAS# 123-72-8)	NA			NS			*		*		*		*	10	NJ
BUTANAL, 3-METHYL-	NA			NS			*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
BUTYL MERCAPTAN	NA			NS		*		*		*		*		*	
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)	NA			NS		40	NJ	50	NJ	*		*		*	
CHLORINATED ACETONE	NA			NS		*		*		*		*		*	
CHLORINATED CARBON DISULFIDE	780,000 ‡	N		NS		*		*		*		*		*	
CHLOROACETONE	780,000 ‡	N		NS		*		*		*		*		*	
CHLOROACETONITRILE	NA			NS		*		*		*		*		*	
CHLOROMETHYL ETHER	NA			NS		*		*		*		*		*	
CHLOROMETHYL ETHYL ETHER	NA			NS		*		*		*		*		*	
CROTONALDEHYDE	340	C		NS		*		*		*		*		*	
CYCLOBUTANOL (CAS# 2919-23-5)	NA			NS		*		9	NJ	*		*		*	
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA			NS		*		30	NJ	10	NJ	*		*	
DECANAL (CAS# 112-31-2)	NA			NS		*		*		*		*		*	
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)	NA			NS		*		*		*		*		*	
ETHYL BROMOACETATE	7,000,000 ‡	N		NS		*		*		*		*		*	
ETHYL CHLOROFORMATE	NA			NS		*		*		*		*		*	
ETHYL DIBROMOACETATE	7,000,000 ‡	N		NS		*		*		*		*		*	
ETHYL MERCAPTAN	NA			NS		*		*		*		*		*	
HEPTANAL (CAS# 111-71-7)	NA			NS		*		*		*		*		*	
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)	NA			NS		*		*		7	NJ	*		*	
HEXANAL (CAS# 66-25-1)	NA			NS		500	NJ	300	NJ	300	NJ	1000	NJ	500	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)	NA			NS		*		*		*		*		*	
HEXANAL, 5-METHYL- (CAS# 1860-39-5)	NA			NS		20	NJ	10	NJ	10	NJ	*		20	NJ
METHYL BROMOACETATE	NA			NS		*		*		*		*		*	
METHYL CHLOROACETATE	NA			NS		*		*		*		*		*	
METHYL CHLOROFORMATE	NA			NS		*		*		*		*		*	
METHYL CHLOROSULFONATE	NA			NS		*		*		*		*		*	
OCTANAL (CAS# 124-13-0)	NA			NS		*		*		*		*		10	NJ
OCTANE (CAS# 111-65-9)	NA			NS		*		*		9	NJ	*		*	
PENTANAL ISOMER	NA			NS		100	NJ	40	NJ	*		*		*	
PENTANAL ISOMER	NA			NS		20	NJ	8	NJ	30	NJ	400	NJ	60	NJ
PENTANAL, 2-METHYL- (CAS# 123-15-9)	NA			NS		*				*		*		*	
PENTANE (CAS# 109-66-0)	NA			NS		100	NJ	80	NJ	10	NJ	600	NJ	30	NJ
PERCHLOROMETHYLMERCAPTAN	NA			NS		*		*		*		*		*	
PROPANE, 2-METHYL- (CAS# 72-28-5)	NA			NS		*		*		*		*		*	
THIOPHENE	NA			NS		*		*		*		*		*	
TRICHLOROACETONITRILE	NA			NS		*		*		*		*		*	
UNDECANE (CAS# 1120-21-4)	NA			NS		*		*		*		500	NJ	*	
Semivolatile Organic Compounds - SW8270C (UG/KG)															
1,2,4-TRICHLOROBENZENE	78,000	N		NS		91	U	93	U	80	U	160	U	85	U
1,2-DICHLOROBENZENE	700,000	N		NS		91	U	93	U	80	U	160	U	85	U
1,3-DICHLOROBENZENE	230,000	N		NS		91	U	93	U	80	U	160	U	85	U
1,4-DICHLOROBENZENE	27,000	C		NS		91	U	93	U	80	U	160	U	85	U
2,4,5-TRICHLOROPHENOL	780,000	N		NS		91	U	93	U	80	U	160	U	85	U
2,4,6-TRICHLOROPHENOL	58,000	C		NS		91	U	93	U	80	U	160	U	85	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
2,4-DICHLOROPHENOL	23,000	N		NS		91	U	93	U	80	U	160	U	85	U
2,4-DIMETHYLPHENOL	160,000	N		NS		91	U	93	U	80	U	160	U	85	U
2,4-DINITROPHENOL	16,000	N		NS		270	U	280	U	240	U	480	U	250	U
2,4-DINITROTOLUENE	16,000	N		NS		91	U	93	U	80	U	160	U	85	U
2,6-DINITROTOLUENE	7,800	N		NS		91	U	93	U	80	U	160	U	85	U
2-CHLORONAPHTHALENE (CAS# 91587)	630,000 ‡	N		NS		91	U	93	U	80	U	160	U	85	U
2-CHLOROPHENOL	39,000	N		NS		91	U	93	U	80	U	160	U	85	U
2-METHYLNAPHTHALENE (CAS# 91576)	160,000	N		NS		91	U	93	U	32	J	160	U	17	J
2-METHYLPHENOL	390,000	N		NS		91	U	93	U	80	U	160	U	85	U
2-NITROANILINE	NA			NS		91	U	93	U	80	U	160	U	85	U
2-NITROPHENOL	63,000 ‡	N		NS		91	U	93	U	80	U	160	U	85	U
3,3-DICHLOROBENZIDINE'	1,400	C		NS		91	U	93	UJ	80	U	160	U	85	U
3-NITROANILINE (CAS# 99092)	2,300	N		NS		91	U	93	U	80	U	160	U	85	U
4,6-DINITRO-2-METHYLPHENOL	780	N		NS		91	U	93	U	80	U	160	U	85	U
4-BROMOPHENYL-PHENYLETHER	NA			NS		91	U	93	U	80	U	160	U	85	U
4-CHLORO-3-METHYLPHENOL	NA			NS		91	U	93	U	80	U	160	U	85	U
4-CHLOROANILINE	31,000	N		NS		91	U	93	U	80	U	160	U	85	U
4-CHLOROPHENYL-PHENYLETHER	NA			NS		91	U	93	U	80	U	160	U	85	U
4-METHYLPHENOL	39,000	N		NS		91	U	93	U	80	U	160	U	85	U
4-NITROANILINE	32,000	C		NS		91	U	93	U	80	U	160	U	85	U
4-NITROPHENOL	63,000	N		NS		91	U	93	U	80	U	160	U	85	U
ACENAPHTHENE	470,000	N		NS		91	U	93	U	80	U	160	U	23	J
ACENAPHTHYLENE	470,000 ‡	N		NS		91	U	93	U	25	J	160	U	13	J
ANTHRACENE	2,300,000	N		NS		91	U	59	J	17	J	160	U	39	J
BENZO[A]ANTHRACENE	870	C		NS		80	J	450	J	190		100	J	200	
BENZO[A]PYRENE	87	C		NS		34	J	370	J	120		65	J	180	J
BENZO[B]FLUORANTHENE	870	C		NS		92	J	620	J	250		74	J	240	J
BENZO[G,H,I]PERYLENE	NA			NS		91	UJ	63	J	62	J	160	U	37	J
BENZO[K]FLUORANTHENE	8,700	C		NS		28	J	290	J	110		79	J	220	J
BENZOIC ACID	31,000,000	N		NS		28	J	15	J	240	U	130	J	180	J
BENZYL ALCOHOL	2,300,000	N		NS		91	U	93	U	80	U	160	U	85	U
BIS(2-CHLOROETHOXY)METHANE	NA			NS		91	U	93	U	80	U	160	U	85	U
BIS(2-CHLOROISOPROPYL)ETHER	9,100	C		NS		91	U	93	U	80	U	160	U	85	U
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		NS		120		120	J	83		280	B	68	JB
BUTYLBENZYLPHTHALATE	1,600,000	N		NS		27	J	93	UJ	80	U	190		11	J
CARBAZOLE	32,000	C		NS		91	U	93	U	15	J	160	U	19	J
CHRYSENE	87,000	C		NS		38	J	300	J	120		64	J	140	
DIBENZ[A,H]ANTHRACENE	87	C		NS		91	UJ		R	80	U	160	U		R
DIBENZOFURAN	16,000	N		NS		91	U	93	U	80	U	160	U	14	J
DIETHYLPHTHALATE	6,300,000	N		NS		19	J	16	J	13	J	160	U	85	U
DIMETHYLPHTHALATE	78,000,000	N		NS		91	U	93	U	80	U	160	U	85	U
DI-N-BUTYLPHTHALATE	780,000 ‡	N		NS		32	JB	37	JB	16	JB	39	JB	22	JB
DI-N-OCTYLPHTHALATE	160,000 ‡	N		NS		91	UJ		R	80	U	160	U		R
FLUORANTHENE	310,000	N		NS		120		550		280		120	J	260	
FLUORENE	310,000	N		NS		91	U	93	U	80	U	160	U	85	U
HEXACHLOROBENZENE	400	C		NS		91	U	93	U	80	U	160	U	85	U
HEXACHLOROBUTADIENE	8,200	C		NS		91	U	93	U	80	U	160	U	85	U
HEXACHLOROCYCLOPENTADIENE	47,000	N		NS		91	U	93	U	80	U	160	U	85	U
HEXACHLOROETHANE	46,000	C		NS		91	U	93	U	80	U	160	U	85	U
INDENO[1,2,3-CD]PYRENE	870	C		NS		91	UJ	96	J	80		160	U	57	J
ISOPHORONE	670,000	C		NS		91	U	93	U	80	U	160	U	85	U

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SAMPLE ID:	REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
NAPHTHALENE	160,000	N		NS		91	U	93	U	22	J	160	U	22	J
NITROBENZENE	3,900	N		NS		91	U	93	U	80	U	160	U	85	U
N-NITROSO-DI-N-PROPYLAMINE	NA			NS		91	U	93	U	80	U	160	U	85	U
N-NITROSODIPHENYLAMINE	130,000	C		NS		91	U	93	U	80	U	160	U	85	U
O-CHLORONITROBENZENE	26,000	C		NS		91	U	93	U	80	U	160	U	85	U
PENTACHLOROPHENOL	5,300	C		NS		91	U	93	U	80	U	160	U	85	U
PHENANTHRENE	NA			NS		67	J	280		160		93	J	210	
PHENOL	2,300,000	N		NS		91	U	93	U	80	U	160	U	85	U
PHENYL HYDRAZINE	NA			NS		91	U	93	UJ	80	U	160	U	85	U
PHENYL ISOCYANATE	NA			NS		91	U	93	U	80	U	160	U	85	U
PHENYL ISOTHIOCYANATE	NA			NS		91	U	93	U	80	U	160	U	85	U
PYRENE	230,000	N		NS		160		1200	J	380		270		610	
SVOC Tentatively Identified Compounds (UG/KG)															
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)	NA			NS		360	NJ		*		*	700	NJ	230	NJ
.ALPHA.-PINENE (CAS # 80-56-8)	NA			NS			*		*		*	2500	NJ	840	NJ
.BETA.-PINENE (CAS# 127-91-3)	NA			NS			*		*		*	5100	NJ	2100	NJ
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA			NS			*		*		*		*		*
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)	NA			NS			*		*		*		*	280	NJ
11H-BENZO[B]FLUORENE (CAS# 243-17-4)	NA			NS			*		*		*		*		*
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)	NA			NS		130	NJ		*		*		*		*
1H-CYCLOPROP[E]AZULENE, 1A,2,3,4,4A,5,6,7B-OCTAHYDRO-1,1,4,7-TETRAMETHYL-, [1AR-(1A.ALPHA., 4.ALPHA., 4A.BETA., 7B.ALPHA.)]- (CAS# 489-40-7)	NA			NS			*		*		*		*		*
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)	NA			NS			*		*		*		*		*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N		NS			*		*		*		*		*
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)	NA			NS			*		*		*		*		*
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)	NA			NS			*		*		*		*		*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA			NS			*		*		*		*		*
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA			NS			*		*		*	320	NJ		*
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)	NA			NS			*		*		*		*		*
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)	NA			NS			*		*		*		*		*
BENZYL FLUORIDE	NA			NS			*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
BENZO(E)PYRENE (CAS# 192-97-2)		NA			NS			*		*		*		*		*
BENZOTRICHLORIDE		NA			NS			*		*		*		*		*
BORNYL ACETATE (CAS# 76-49-3)		NA			NS			*		*		*		*		*
CARYOPHYLLENE (CAS# 87-44-5)		NA			NS		280	NJ		*		*	1800	NJ	520	NJ
CHOLESTEROL (CAS # 57-88-5)		NA			NS			*		*		*		*		*
COPAENE (CAS# 3856-25-5)		NA			NS		200	NJ		*		*		*		*
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)		NA			NS			*		*		*		*		*
DIPHENYLCHLOROARSINE		NA			NS			*		*		*		*		*
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)		NA			NS		3100	NJ		*		*		*		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)		16,000,000	N		NS			*		*		*		*		*
HEXADECANOIC ACID (CAS# 57-10-3)		NA			NS		1100	NJ		*		*		*		*
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)		NA			NS		500	NJ		*		*		*		*
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)		NA			NS		270	NJ		*		*		*		*
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1 (1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)		NA			NS		190	NJ		*		*		*		*
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)		NA			NS		450	NJ		*		*		*		*
NONACOSANE (CAS# 630-03-5)		NA			NS			*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)		NA			NS		18000	NJ		*		*		*		*
o-TOLYL ISOCYANIDE		NA			NS			*		*		*		*		*
PENTADECANOIC ACID (CAS# 1002-84-2)		NA			NS			*		*		*		*		*
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)		NA			NS			*		*		*		*		*
PHENYLDICHLOROARSINE		NA			NS			*		*		*		*		*
PHENYL ISOCYANIDE		NA			NS			*		*		*		*		*
PYRENE, 2-METHYL- (CAS# 3442-78-2)		NA			NS			*		*		*		*		*
SEPTUM BLEED		NA			NS			*		*	710	NJ		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
ICP Inorganic Analyses - SW6010B (MG/KG)															
ALUMINUM	7,800	N	**25,798**	5640		6730		5710		6580		5370		9360	
ANTIMONY	**3.1**	N	0.92	1.3	UL	1.2	L	1.3	UL	1	UL	1.1	UL	1.2	UL
ARSENIC	0.43	C	**12.64**	147	J	240	J	159	J	5	J	55.2	J	7.3	J
BARIUM	**550**	N	298.28	54		62.5		50.9		38.8	J	112	J	44.8	J
BERYLLIUM	**16**	N	2.35	0.63	U	0.55	U	0.64	U	0.5	UJ	0.57	UJ	0.6	UJ
CADMIUM	**7.8**	N	0.32	0.63	U	0.55	U	0.64	U	0.5	U	0.57	U	0.6	U
CALCIUM	NA		**4,207**	2610		3650		2140		805		6980		1510	
CHROMIUM	**12,000** ‡	N	97.20	18.9	K	28.5	K	19.1	K	19.3		29.8		31.6	
COBALT	**160**	N	22.26	6		7		5.9		4.1	K	7.4	L	5.2	L
COPPER	**310**	N	47.76	17.5		24.7		18.7		28.5		17.1		15.1	
IRON	2,300	N	**31,951**	19100		27300		18600		28600	J	14500	J	23400	J
LEAD	**400** ‡		329.76	30.7	K	31.2	K	36.7	K	41.6	K	46.7	J	47.2	J
MAGNESIUM	NA		**7,093**	1390		1540		1480		665		3290		1120	
MANGANESE	160	N	**1,251**	266	J	246	J	202	J	136	J	482	J	204	J
MERCURY (by CVAA)	NA		**0.29**	0.21		0.17		0.22		0.12		0.14		0.19	
NICKEL	**160**	N	40.12	9.7		11.4		10.2		8.1		47.9		10.5	
PHOSPHORUS	NA		NA	320		380		323		260		414		434	
POTASSIUM	NA		**4,945**	814		886		897		371		809		785	
SELENIUM	**39**	N	0.88	0.63	U	0.55	U	0.64	U	0.98		1.4		1.2	
SILICON	NA		NA	1650		1790		1700		1700		1630		2290	
SILVER	**39**	N	0.74	0.63	U	0.55	U	0.64	U	0.5	U	0.57	U	0.6	U
SODIUM	NA		**55.80**	63	U	55.3	U	63.6	U	49.9	U	57.2	U	59.7	U
STRONTIUM	**4,700**	N	NA	12.4		15.5		10.1		5.9		31.9		7.6	
SULFUR	NA		NA	197		217		179		214	L	420	L	345	L
THALLIUM	0.55	N	**1.36**	1.3	UJ	1.1	UJ	1.3	UJ	1	U	1.1	U	1.2	U
TIN	**4,700**	N	NA	2.8		2.9		3.6		4.2		3.2		4.1	
TITANIUM	**31,000**	N	NA	190		193		203		173		136		244	
VANADIUM	55	N	**66.76**	25.8		30.3		28.5		34.5		28.8		52.9	
ZINC	**2,300**	N	308.8	59.8		60.6		71.1		41		76.6		48	
IC Scan - EPA 300M (MG/KG)															
BROMIDE	NA			NS		1.37	U	1.44	U	1.23	U	1.22	U	NS	
CHLORIDE	NA			NS		8.64		5.48		2.59		30.6		NS	
FLUORIDE	NA			NS		6.95	L	7.13	L	1.94	L	7.74	L	NS	
NITRATE-N	13,000	N		NS		1.37	U	1.44	U	18.9		4.82		NS	
NITRITE-N	780	N		NS		1.37	U	1.44	U	1.23	U	1.17	U	NS	
PHOSPHATE-P	NA			NS			R		R		R	5.34	L	NS	
SULFATE	NA			NS		6.96	K	7.68	K	14.4	K	36.8	K	NS	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid
SAMPLE DEPTH:	RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"
SAMPLING DATE:	(adjusted		ground\2	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001
Analyses performed by Southwest Research Institute	downward)\1													
Mustard Breakdown Products (UG/KG)														
1,4-DITHIANE	78,000	N		NS		110	U	111	U	98	U	94	U	NS
1,4-OXATHIANE	78,000	\3,N		NS		113	U	114	U	100	U	96	U	NS
THIODIGLYCOL	39,100	\3,N		NS		313	J	445	J	235	J	463	J	NS
Lewisite Breakdown Products (UG/KG)														
TOTAL CVAA & CVAO	890	\3,C		NS		11	U	11	U	10	U	10	U	NS
Other Parameters (MG/KG, unless otherwise indicated)														
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		NS		180	U	180	U	180	U	180	U	NS
ADAMSITE **	NA			NS		7.7	U	7.7	U		**	7.7	U	NS
AMMONIA-N	NA			NS		1.33	U	1.37	U	1.23	U	1.17	U	NS
CYANIDE	160 ‡	N		NS		0.66	U	0.72	U	0.58	U	0.58	U	NS

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds
Source is the April 25, 2003 USEPA RBC Table
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation

N = Non-carcinogen. This RBC was adjusted down by a factor of 10
C = Carcinogen as listed on the USEPA RBC table
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:	Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
Volatile Organic Compounds - SW8260B (UG/KG)													
1,1,1-TRICHLOROETHANE	2,200,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
1,1,2,2,-TETRACHLOROETHANE	3,200	C			R		R		R		R	1.2	UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	230,000,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
1,1,2-TRICHLOROETHANE	11,000	C			R		R		R		R	1.2	UJ
1,1-DICHLOROETHANE	780,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
1,1-DICHLOROETHENE	390,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
1,2,4-TRICHLOROBENZENE	78,000	N			R		R		R		R		R
1,2-DIBROMO-3-CHLOROPROPANE	460	C			R		R		R		R		R
1,2-DIBROMOETHANE	7.5	C			R		R		R		R	1.2	UJ
1,2-DICHLOROBENZENE	700,000	N			R		R		R		R		R
1,2-DICHLOROETHANE	7,000	C		1.2	U	1.2	U	0.82	U	1	U	1.2	U
1,2-DICHLOROPROPANE	9,400	C		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
1,3-DICHLOROBENZENE	230,000	N			R		R		R		R		R
1,4-DICHLOROBENZENE	27,000	C			R		R		R		R		R
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		21		15		9		12		6	
2-HEXANONE	310,000	N			R		R		R		R	1.2	UJ
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
ACETONE	780,000	N		110	J	64	J	56	J	62	J	38	J
ACETONITRILE	NA			8		5.9	U	4.1	U	5.1	U	6	U
ACROLEIN	160,000	N		6	U	7		4.1	U	5.1	U	6	U
BENZENE	12,000	C		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
BENZYL BROMIDE	NA				R		R		R		R		R
BENZYL CHLORIDE	3,800	C			R		R		R		R		R
BROMODICHLOROMETHANE	10,000	C		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
BROMOFORM	81,000	C			R		R		R		R		R
BROMOMETHANE	11,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
CARBON DISULFIDE	780,000	N		22		11		11		17		9	
CARBON TETRACHLORIDE	4,900	C		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
CHLOROBENZENE	160,000	N			R		R		R		R	1.2	UJ
CHLOROETHANE	220,000	C		1.2	U	1.2	U	0.82	U	1	U	1.2	U
CHLOROFORM	78,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
CHLOROMETHANE	NA			9		7		6		6		4	
CHLOROPICRIN	NA			30	U	30	U	21	U	25	U	30	U
CIS-1,2-DICHLOROETHENE	78,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
CIS-1,3-DICHLOROPROPENE	6,400 ‡	C		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
CYCLOHEXANE	470,000 ‡	N		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
DIBROMOCHLOROMETHANE	7,600	C			R		R		R		R	1.2	UJ
DICHLORODIFLUOROMETHANE	1,600,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
ETHYLBENZENE	780,000	N		1.2	U		R		R		R	1.2	UJ
ISOPROPYLBENZENE (CUMENE)	780,000	N			R		R		R		R		R
M&P-XYLENE	1,600,000	N		1.2	U		R		R		R	1.2	UJ
METHYL ACETATE	7,800,000	N		30		27		16		7		7	
METHYL TERT-BUTYL ETHER	160,000	C		1.2	U	1.2	U	0.82	U	1	U	1.2	U
METHYLCYCLOHEXANE	470,000 ‡	N		1.2	U	1.2	UJ	0.82	UJ	1	U	1.2	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:		Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
METHYLENE CHLORIDE		85,000	C		1.2	U	1.2	U	0.82	U	1	U	1.2	U
O-XYLENE		1,600,000	N		1.2	U		R		R		R	1.2	UJ
STYRENE		1,600,000	N		1.2	U		R		R		R	1.2	UJ
TETRACHLOROETHENE		32,000	C		1.2	U		R		R		R	1.2	UJ
TOLUENE		1,600,000	N		11		2	J	9	J	3	J	10	J
TRANS-1,2-DICHLOROETHENE		160,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
TRANS-1,3-DICHLOROPROPENE		6,400 ‡	C		1.2	U	1.2	UJ	0.82	UJ	1	U	1.2	U
TRICHLOROETHENE		1,600	C		1.2	U	1.2	UJ	0.82	UJ	1	U	1.2	U
TRICHLOROFLUOROMETHANE		2,300,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
VINYL CHLORIDE		90	C		1.2	U	1.2	U	0.82	U	1	U	1.2	U
VOC Tentatively Identified Compounds (UG/KG)														
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)		NA				*		*		*		*		*
2,4-HEXANEDIONE (CAS# 3002-24-2)		NA				*		*		*		*		*
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)		NA			30	NJ	10	NJ	9	NJ	7	NJ		*
2-DECENE, 4-METHYL-,(Z)-		NA				*		*		*		*		*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)		NA				*		*		*		*	10	NJ
2-OCTENE, (E)- ISOMER		NA			20	NJ		*	10	NJ		*		*
2-OCTENE, (E)- ISOMER		NA				*		*	20	NJ		*		*
2-OCTENE, (Z)- ISOMER		NA				*		*		*		*		*
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)		NA				*		*		*		*		*
2-PROPANOL (CAS# 67-63-0)		NA				*		*		*		*		*
3-OCTENE, (E)-		NA				*		*		*	7	NJ		*
ACETALDEHYDE (CAS# 75-07-0)		NA			10	NJ	9	NJ	6	NJ		*		*
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)		7,000,000	N			*		*		*		*		*
ALCOHOL		NA				*		*		*		*		*
ALLYL ALCOHOL		NA				*		*		*		*		*
BENZALDEHYDE (CAS# 100-52-7)		780,000	N			*		*		*		*		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)		550,000	N			*		*		*		*		*
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-		NA				*		*		*		*		*
BENZYL IODIDE		NA				*		*		*		*		*
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL		NA				*		*		*		*		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-		NA				*		*		*		*	100	NJ
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-		NA				*		*		*		*		*
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL		NA				*		*		*		*	20	NJ
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-		NA				*		*		*		*		*
BICYCLO 3.1.1 HEPT-2-ENE,2,		NA				*		*		*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-D		NA				*		*		*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-		NA				*		*		*		*		*
BROMOACETONE		780,000 ‡	N			*		*		*		*		*
BROMOBENZENE		NA				*		*		*		*		*
BROMOMETHYL ETHER		NA				*		*		*		*		*
BUTANAL (CAS# 123-72-8)		NA				*	10	NJ		*		*		*
BUTANAL, 3-METHYL-		NA				*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:		Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
BUTYL MERCAPTAN		NA				*		*		*		*		*
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)		NA				*		*		*		*		*
CHLORINATED ACETONE		NA				*		*		*		*		*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N			*		*		*		*		*
CHLOROACETONE		780,000 ‡	N			*		*		*		*		*
CHLOROACETONITRILE		NA				*		*		*		*		*
CHLOROMETHYL ETHER		NA				*		*		*		*		*
CHLOROMETHYL ETHYL ETHER		NA				*		*		*		*		*
CROTONALDEHYDE		340	C			*		*		*		*		*
CYCLOBUTANOL (CAS# 2919-23-5)		NA				*		*		*		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)		NA			20	NJ	10	NJ		*		*	60	NJ
DECANAL (CAS# 112-31-2)		NA				*		*		*		*	10	NJ
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)		NA				*		*		*		*		*
ETHYL BROMOACETATE		7,000,000 ‡	N			*		*		*		*		*
ETHYL CHLOROFORMATE		NA				*		*		*		*		*
ETHYL DIBROMOACETATE		7,000,000 ‡	N			*		*		*		*		*
ETHYL MERCAPTAN		NA				*		*		*		*		*
HEPTANAL (CAS# 111-71-7)		NA				*		*	7	NJ		*		*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)		NA				*		*		*		*		*
HEXANAL (CAS# 66-25-1)		NA			400	NJ	500	NJ	200	NJ	200	NJ	100	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)		NA				*		*		*		*		*
HEXANAL, 5-METHYL- (CAS# 1860-39-5)		NA			20	NJ	20	NJ		*	9	NJ		*
METHYL BROMOACETATE		NA				*		*		*		*		*
METHYL CHLOROACETATE		NA				*		*		*		*		*
METHYL CHLOROFORMATE		NA				*		*		*		*		*
METHYL CHLOROSULFONATE		NA				*		*		*		*		*
OCTANAL (CAS# 124-13-0)		NA				*	10	NJ		*		*		*
OCTANE (CAS# 111-65-9)		NA				*		*		*		*		*
PENTANAL ISOMER		NA			60	NJ	70	NJ	6	NJ	8	NJ		*
PENTANAL ISOMER		NA			10	NJ	10	NJ	20	NJ	20	NJ	20	NJ
PENTANAL, 2-METHYL- (CAS# 123-15-9)		NA			10	NJ		*		*		*		*
PENTANE (CAS# 109-66-0)		NA			60	NJ	40	NJ	20	NJ	60	NJ	10	NJ
PERCHLOROMETHYLMERCAPTAN		NA				*		*		*		*		*
PROPANE, 2-METHYL- (CAS# 72-28-5)		NA				*		*		*	30	NJ		*
THIOPHENE		NA				*		*		*		*		*
TRICHLOROACETONITRILE		NA				*		*		*		*		*
UNDECANE (CAS# 1120-21-4)		NA				*		*		*		*		*
Semivolatile Organic Compounds - SW8270C (UG/KG)														
1,2,4-TRICHLOROBENZENE		78,000	N		84	U	86	U	68	U	80	U	79	U
1,2-DICHLOROBENZENE		700,000	N		84	U	86	U	68	U	80	U	79	U
1,3-DICHLOROBENZENE		230,000	N		84	U	86	U	68	U	80	U	79	U
1,4-DICHLOROBENZENE		27,000	C		84	U	86	U	68	U	80	U	79	U
2,4,5-TRICHLOROPHENOL		780,000	N		84	U	86	U	68	U	80	U	79	U
2,4,6-TRICHLOROPHENOL		58,000	C		84	U	86	U	68	U	80	U	79	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:		Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
2,4-DICHLOROPHENOL		23,000	N		84	U	86	U	68	U	80	U	79	U
2,4-DIMETHYLPHENOL		160,000	N		84	U	86	U	68	U	80	U	79	U
2,4-DINITROPHENOL		16,000	N		250	U	260	U	200	U	240	U	240	U
2,4-DINITROTOLUENE		16,000	N		84	U	86	U	68	U	80	U	79	U
2,6-DINITROTOLUENE		7,800	N		84	U	86	U	68	U	80	U	79	U
2-CHLORONAPHTHALENE (CAS# 91587)		630,000 ‡	N		17	J	86	U	68	U	80	U	79	U
2-CHLOROPHENOL		39,000	N		84	U	86	U	68	U	80	U	79	U
2-METHYLNAPHTHALENE (CAS# 91576)		160,000	N		84	U	86	U	68	U	80	U	79	U
2-METHYLPHENOL		390,000	N		84	U	86	U	68	U	80	U	79	U
2-NITROANILINE		NA			84	U	86	U	68	U	80	U	79	U
2-NITROPHENOL		63,000 ‡	N		84	U	86	U	68	U	80	U	79	U
3,3-DICHLOROBENZIDINE'		1,400	C		84	U	86	U	68	U	80	U	79	U
3-NITROANILINE (CAS# 99092)		2,300	N		84	U	86	U	68	U	80	U	79	U
4,6-DINITRO-2-METHYLPHENOL		780	N		84	U	86	U	68	U	80	U	79	U
4-BROMOPHENYL-PHENYLETHER		NA			84	U	86	U	68	U	80	U	79	U
4-CHLORO-3-METHYLPHENOL		NA			84	U	86	U	68	U	80	U	79	U
4-CHLOROANILINE		31,000	N		84	U	86	U	68	U	80	U	79	U
4-CHLOROPHENYL-PHENYLETHER		NA			84	U	86	U	68	U	80	U	79	U
4-METHYLPHENOL		39,000	N		84	U	86	U	190		80	U	79	U
4-NITROANILINE		32,000	C		84	U	86	U	68	U	80	U	79	U
4-NITROPHENOL		63,000	N		15	J	86	U	68	U	80	U	79	U
ACENAPHTHENE		470,000	N		21	J	86	U	68	U	80	U	79	U
ACENAPHTHYLENE		470,000 ‡	N		84	U	86	U	68	U	80	U	79	U
ANTHRACENE		2,300,000	N		39	J	86	U	14	J	80	U	79	U
BENZO[A]ANTHRACENE		870	C		220		15	J	74		80	U	41	J
BENZO[A]PYRENE		87	C		140	J		R	39	J		R	31	J
BENZO[B]FLUORANTHENE		870	C		250	J	12	J	82	J		R	32	J
BENZO[G,H,I]PERYLENE		NA				R		R		R		R		R
BENZO[K]FLUORANTHENE		8,700	C		140	J	14	J	65	J		R	47	J
BENZOIC ACID		31,000,000	N		64	J	32	J	39	J	25	J	38	J
BENZYL ALCOHOL		2,300,000	N		84	U	86	U	68	U	80	U	79	U
BIS(2-CHLOROETHOXY)METHANE		NA			84	U	86	U	68	U	80	U	79	U
BIS(2-CHLOROISOPROPYL)ETHER		9,100	C		84	U	86	U	68	U	80	U	79	U
BIS(2-ETHYLHEXYL)PHTHALATE		46,000	C		210	B	60	JB	100	B	190	B	130	B
BUTYLBENZYLPHTHALATE		1,600,000	N		30	J	86	U	20	J	80	U	22	J
CARBAZOLE		32,000	C		84	U	86	U	12	J	80	U	79	U
CHRYSENE		87,000	C		130		16	J	48	J	80	U	46	J
DIBENZ[A,H]ANTHRACENE		87	C			R		R		R		R		R
DIBENZOFURAN		16,000	N		12	J	86	U	68	U	80	U	79	U
DIETHYLPHTHALATE		6,300,000	N		84	U	86	U	11	J	80	U	14	J
DIMETHYLPHTHALATE		78,000,000	N		84	U	86	U	68	U	80	U	79	U
DI-N-BUTYLPHTHALATE		780,000 ‡	N		26	JB	57	JB	35	JB	22	JB	25	JB
DI-N-OCTYLPHTHALATE		160,000 ‡	N		23	J		R		R	80	U		R
FLUORANTHENE		310,000	N		270		29	J	110		80	U	55	J
FLUORENE		310,000	N		12	J	86	U	68	U	80	U	79	U
HEXACHLOROBENZENE		400	C		84	U	86	U	68	U	80	U	79	U
HEXACHLOROBUTADIENE		8,200	C		84	U	86	U	68	U	80	U	79	U
HEXACHLOROCYCLOPENTADIENE		47,000	N		84	U	86	U	68	U	80	U	79	U
HEXACHLOROETHANE		46,000	C		84	U	86	U	68	U	80	U	79	U
INDENO[1,2,3-CD]PYRENE		870	C			R		R		R		R		R
ISOPHORONE		670,000	C		84	U	86	U	68	U	80	U	79	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:		Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
NAPHTHALENE		160,000	N		11	J	86	U	68	U	80	U	79	U
NITROBENZENE		3,900	N		84	U	86	U	68	U	80	U	79	U
N-NITROSO-DI-N-PROPYLAMINE		NA			84	U	86	U	68	U	80	U	79	U
N-NITROSODIPHENYLAMINE		130,000	C		84	U	86	U	68	U	80	U	79	U
O-CHLORONITROBENZENE		26,000	C		84	U	86	U	68	U	80	U	79	U
PENTACHLOROPHENOL		5,300	C		84	U	86	U	68	U	80	U	79	U
PHENANTHRENE		NA			220		18	J	110		80	U	34	J
PHENOL		2,300,000	N		84	U	86	U	68	U	80	U	79	U
PHENYL HYDRAZINE		NA			84	U	86	U	68	U	80	U	79	U
PHENYL ISOCYANATE		NA			84	U	86	U	68	U	80	U	79	U
PHENYL ISOTHIOCYANATE		NA			84	U	86	U	68	U	80	U	79	U
PYRENE		230,000	N		630		59	J	220		20	J	120	
SVOC Tentatively Identified Compounds (UG/KG)														
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)		NA			360	NJ		*		*	810	NJ		*
.ALPHA.-PINENE (CAS # 80-56-8)		NA				*		*		*		*		*
.BETA.-PINENE (CAS# 127-91-3)		NA				*		*		*		*		*
.GAMMA.-SITOSTEROL (CAS# 83-47-6)		NA				*		*		*		*		*
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)		NA				*		*		*		*		*
11H-BENZO[B]FLUORENE (CAS# 243-17-4)		NA				*		*		*		*		*
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)		NA			430	NJ		*		*		*		*
1H-CYCLOPROP[E]AZULENE, 1A,2,3,4,4A,5,6,7B-OCTAHYDRO-1,1,4,7-TETRAMETHYL-, [1AR-(1A.ALPHA., 4.ALPHA., 4A.BETA., 7B.ALPHA.)]- (CAS# 489-40-7)		NA				*		*		*		*	260	NJ
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)		NA				*		*		*		*		*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)		39,000	N			*		*		*		*		*
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)		NA				*		*		*		*		*
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)		NA				*		*	300	NJ		*		*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)		NA				*		*		*		*		*
9-HEXADECENOIC ACID (CAS# 002091-29-4)		NA			250	NJ	140	NJ		*	190	NJ		*
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)		NA			230	NJ		*		*		*		*
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)		NA				*		*		*		*		*
BENZYL FLUORIDE		NA				*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:		Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
BENZO(E)PYRENE (CAS# 192-97-2)		NA				*		*		*		*		*
BENZOTRICHLORIDE		NA				*		*		*		*		*
BORNYL ACETATE (CAS# 76-49-3)		NA				*		*		*		*		*
CARYOPHYLLENE (CAS# 87-44-5)		NA			270	NJ		*		*	310	NJ		*
CHOLESTEROL (CAS # 57-88-5)		NA				*		*		*		*		*
COPAENE (CAS# 3856-25-5)		NA				*		*		*		*		*
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)		NA				*		*	830	NJ		*		*
DIPHENYLCHLOROARSINE		NA				*		*		*		*		*
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)		NA				*		*		*		*		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)		16,000,000	N			*		*		*		*		*
HEXADECANOIC ACID (CAS# 57-10-3)		NA				*	420	NJ		*		*		*
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)		NA				*		*		*		*		*
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)		NA				*		*		*		*		*
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1 (1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)		NA				*		*		*		*		*
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)		NA			890	NJ		*		*		*		*
NONACOSANE (CAS# 630-03-5)		NA				*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)		NA				*		*		*		*		*
o-TOLYL ISOCYANIDE		NA				*		*		*		*		*
PENTADECANOIC ACID (CAS# 1002-84-2)		NA			160	NJ		*		*		*		*
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)		NA				*		*		*		*		*
PHENYLDICHLOROARSINE		NA				*		*		*		*		*
PHENYL ISOCYANIDE		NA				*		*		*		*		*
PYRENE, 2-METHYL- (CAS# 3442-78-2)		NA				*		*		*		*		*
SEPTUM BLEED		NA				*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:		Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	4870		12600		6070		2980		6110	
ANTIMONY		**3.1**	N	0.92	1.1	UL	1	UL	1	UL	1.1	UL	0.86	UL
ARSENIC		0.43	C	**12.64**	104	J	35.6	J	4.8	J	3.3	J	6.1	J
BARIUM		**550**	N	298.28	65.9	J	77.8	J	47.8	J	20.5	J	19.5	J
BERYLLIUM		**16**	N	2.35	0.56	UJ	0.68	J	0.5	UJ	0.57	UJ	0.9	J
CADMIUM		**7.8**	N	0.32	0.56	U	0.52	U	0.5	U	0.57	U	0.43	U
CALCIUM		NA		**4,207**	4230		1700		715		8060		1030	
CHROMIUM		**12,000** ‡	N	97.20	37.6		32.4		27		91.4		52.8	
COBALT		**160**	N	22.26	8.5	L	7.6	L	4.3	L	18.5	L	2.5	L
COPPER		**310**	N	47.76	15		34.8		14.2		14		7.1	
IRON		2,300	N	**31,951**	15000	J	34000	J	26100	J	7530	J	23800	J
LEAD		**400** ‡		329.76	25.8	J	31.7	J	64.3	J	5.1	J	13.3	J
MAGNESIUM		NA		**7,093**	5910		2590		868		20500		1520	
MANGANESE		160	N	**1,251**	323	J	247	J	287	J	298	J	98.4	J
MERCURY (by CVAA)		NA		**0.29**	0.2		0.06		0.15		0.06	U	0.08	
NICKEL		**160**	N	40.12	75.4		11.7		6.7		345		7.3	
PHOSPHORUS		NA		NA	392		527		374		194		678	
POTASSIUM		NA		**4,945**	585		1990		450		172		3260	
SELENIUM		**39**	N	0.88	0.62		1.3		1.2		0.69		0.92	
SILICON		NA		NA	1880		2970		1430		1370		1660	
SILVER		**39**	N	0.74	0.56	U	0.52	U	0.5	U	0.57	U	0.43	U
SODIUM		NA		**55.80**	55.7	U	52.1	U	50.1	U	56.6	U	43	U
STRONTIUM		**4,700**	N	NA	16.7		8.1		3.7		8.4		6.6	
SULFUR		NA		NA	327	L	410	L	273	L	256	L	149	L
THALLIUM		0.55	N	**1.36**	1.1	U	1	U	1	U	1.1	U	0.86	U
TIN		**4,700**	N	NA	3.2		2.9		3.6		2.3	U	1.9	
TITANIUM		**31,000**	N	NA	116		340		139		50.4		110	
VANADIUM		55	N	**66.76**	18.8		69.1		30.1		8		46.1	
ZINC		**2,300**	N	308.8	72.8		65		38.7		18.3		46.6	
IC Scan - EPA 300M (MG/KG)														
BROMIDE		NA			NS		NS		1.15	U	NS		1.17	U
CHLORIDE		NA			NS		NS		4.18		NS		5.78	
FLUORIDE		NA			NS		NS		2.07	L	NS		2.7	L
NITRATE-N		13,000	N		NS		NS		18.3		NS		13.5	
NITRITE-N		780	N		NS		NS		1.15	U	NS		1.17	U
PHOSPHATE-P		NA			NS		NS			R	NS		3.78	L
SULFATE		NA			NS		NS		48	K	NS		73.4	K

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:	Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
Mustard Breakdown Products (UG/KG)													
1,4-DITHIANE	78,000	N		NS		NS		81	U	NS		99	U
1,4-OXATHIANE	78,000	\3,N		NS		NS		83	U	NS		102	U
THIODIGLYCOL	39,100	\3,N		NS		NS		352	J	NS		300	J
Lewisite Breakdown Products (UG/KG)													
TOTAL CVAA & CVAO	890	\3,C		NS		NS		8.3	U	NS		10	U
Other Parameters (MG/KG, unless otherwise indicated)													
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		NS		NS		180	U	NS		180	U
ADAMSITE **	NA			NS		NS			**	NS			**
AMMONIA-N	NA			NS		NS		1.22	U	NS		1.16	U
CYANIDE	160 ‡	N		NS		NS		0.6		NS		0.57	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds
Source is the April 25, 2003 USEPA RBC Table
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation

N = Non-carcinogen. This RBC was adjusted down by a factor of 10
C = Carcinogen as listed on the USEPA RBC table
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identifie using the mass spectral library search**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

Table 1A

Comprehensive List Detections for AU 12/CDC

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[11]														
Volatile Organic Compounds - SW8260B (UG/KG)															
1,4-DICHLOROBENZENE	27,000	C		NS		1.2	UJ	NS			R	1	UJ	1	UJ
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		NS		1.2	U	NS		1.1	UJ	19		13	
2-HEXANONE	310,000	N		NS		1.2	UJ	NS			R	1	U	1	U
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
ACETONE	780,000	N		NS		6		NS		5	J	91	J	59	J
ACETONITRILE	NA			NS		5.8	U	NS		5.6	UJ	6	U	9	
ACROLEIN	160,000	N		NS		5.8	U	NS		5.6	UJ	7		6	U
BENZENE	12,000	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CARBON DISULFIDE	780,000	N		NS		12		NS		11	J	9		9	
CHLOROFORM	78,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CHLOROMETHANE	NA			NS		2		NS		5	J	4		3	
ISOPROPYLBENZENE (CUMENE)	780,000	N		NS		1.2	UJ	NS			R	1	UJ	1	UJ
METHYL ACETATE	7,800,000	N		NS		1.2	U	NS		1.1	UJ	11		3	
METHYLCYCLOHEXANE	470,000 ‡	N		NS		1.2	U	NS		1.1	UJ	2		1	U
METHYLENE CHLORIDE	85,000	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
TETRACHLOROETHENE	32,000	C		NS		1.2	UJ	NS			R	1	U	1	U
TOLUENE	1,600,000	N		NS		1.2	UJ	NS			R	1	U	1	U
VOC Tentatively Identified Compounds (UG/KG)															
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)	NA			NS			*	NS			*		*		*
2,4-HEXANEDIONE (CAS# 3002-24-2)	NA			NS		2	NJ	NS			*		*		*
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)	NA			NS			*	NS			*	20	NJ	6	NJ
2-DECENE, 4-METHYL-,(Z)-	NA			NS			*	NS			*		*		*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)	NA			NS			*	NS			*		*		*
2-OCTENE, (E)- ISOMER	NA			NS		10	NJ	NS		10	NJ		*	10	NJ
2-OCTENE, (E)- ISOMER	NA			NS			*	NS			*		*	10	NJ
2-OCTENE, (Z)- ISOMER	NA			NS			*	NS			*		*		*
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)	NA			NS			*	NS			*	60	NJ		*
2-PROPANOL (CAS# 67-63-0)	NA			NS			*	NS			*	40	NJ	100	NJ
3-OCTENE, (E)-	NA			NS			*	NS			*		*		*
ACETALDEHYDE (CAS# 75-07-0)	NA			NS			*	NS			*	40	NJ	10	NJ
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)	7,000,000	N		NS			*	NS			*	30	NJ		*
BENZALDEHYDE (CAS# 100-52-7)	780,000	N		NS			*	NS			*		*		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)	550,000	N		NS			*	NS			*		*		*
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	NA			NS			*	NS			*		*		*
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL	NA			NS			*	NS			*		*		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-	NA			NS			*	NS			*		*		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-	NA			NS			*	NS			*		*		*
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL	NA			NS			*	NS			*		*		*
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-	NA			NS			*	NS			*		*		*
BICYCLO 3.1.1 HEPT-2-ENE,2,	NA			NS			*	NS			*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-D	NA			NS			*	NS			*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-	NA			NS			*	NS			*		*		*
BUTANAL (CAS# 123-72-8)	NA			NS			*	NS			*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[11]														
BUTANAL, 3-METHYL-	NA			NS			*	NS			*		*		*
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)	NA			NS			*	NS			*		*		*
CYCLOBUTANOL (CAS# 2919-23-5)	NA			NS			*	NS			*		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA			NS		9	NJ	NS		10	NJ		*		*
DECANAL (CAS# 112-31-2)	NA			NS			*	NS			*		*		*
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)	NA			NS			*	NS		4	NJ		*		*
HEPTANAL (CAS# 111-71-7)	NA			NS			*	NS			*		*		*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)	NA			NS		2	NJ	NS			*		*		*
HEXANAL (CAS# 66-25-1)	NA			NS		5	NJ	NS		20	NJ	200	NJ	100	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)	NA			NS		1	NJ	NS			*		*		*
HEXANAL, 5-METHYL- (CAS# 1860-39-5)	NA			NS		0.6	NJ	NS			*	10	NJ	6	NJ
OCTANAL (CAS# 124-13-0)	NA			NS			*	NS			*	20	NJ	6	NJ
OCTANE (CAS# 111-65-9)	NA			NS			*	NS			*		*		*
PENTANAL ISOMER	NA			NS		0.8	NJ	NS		2	NJ	60	NJ	20	NJ
PENTANAL ISOMER	NA			NS			*	NS			*		*	10	NJ
PENTANAL, 2-METHYL- (CAS# 123-15-9)	NA			NS			*	NS			*		*		*
PENTANE (CAS# 109-66-0)	NA			NS			*	NS		3	NJ	40	NJ		*
PROPANE, 2-METHYL- (CAS# 72-28-5)	NA			NS			*	NS			*		*		*
UNDECANE (CAS# 1120-21-4)	NA			NS			*	NS			*		*		*
Semivolatile Organic Compounds - SW8270C (UG/KG)															
2-CHLORONAPHTHALENE (CAS# 91587)	630,000 ‡	N		NS		89	U	NS		79	U	80	U	86	U
2-METHYLNAPHTHALENE (CAS# 91576)	160,000	N		NS		89	U	NS		79	U	80	U	86	U
4-METHYLPHENOL	39,000	N		NS		89	U	NS		79	U	80	U	86	U
4-NITROPHENOL	63,000	N		NS		89	U	NS		79	U	80	U	86	U
ACENAPHTHENE	470,000	N		NS		89	U	NS		79	U	80	U	18	J
ACENAPHTHYLENE	470,000 ‡	N		NS		89	U	NS		79	U	80	U	86	U
ANTHRACENE	2,300,000	N		NS		89	U	NS		79	U	80	U	46	J
BENZO[A]ANTHRACENE	870	C		NS		89	U	NS		31	J	36	J	200	
BENZO[A]PYRENE	87	C		NS		89	U	NS		23	J	19	J	110	J
BENZO[B]FLUORANTHENE	870	C		NS		89	U	NS		54	J	64	J	280	J
BENZO[G,H,I]PERYLENE	NA			NS		89	U	NS		79	U	80	UJ	35	J
BENZO[K]FLUORANTHENE	8,700	C		NS		89	U	NS		21	J	11	J	76	J
BENZOIC ACID	31,000,000	N		NS		270	U	NS		18	J	36	J	25	J
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		NS		17	J	NS		15	J	37	J	590	
BUTYLBENZYLPHTHALATE	1,600,000	N		NS		89	U	NS		79	U	80	U	86	U
CARBAZOLE	32,000	C		NS		89	U	NS		79	U	80	U	20	J
CHRYSENE	87,000	C		NS		89	U	NS		30	J	18	J	110	
DIBENZ[A,H]ANTHRACENE	87	C		NS		89	U	NS		79	U	80	UJ	86	UJ
DIBENZOFURAN	16,000	N		NS		89	U	NS		79	U	80	U	86	U
DIETHYLPHTHALATE	6,300,000	N		NS		21	J	NS		14	J	12	J	14	J
DI-N-BUTYLPHTHALATE	780,000 ‡	N		NS		33	JB	NS		22	JB	28	JB	26	JB
DI-N-OCTYLPHTHALATE	160,000 ‡	N		NS		89	U	NS		79	U	80	UJ	86	UJ
FLUORANTHENE	310,000	N		NS		89	U	NS		45	J	56	J	310	
FLUORENE	310,000	N		NS		89	U	NS		79	U	80	U	21	J
INDENO[1,2,3-CD]PYRENE	870	C		NS		89	U	NS		11	J	80	UJ	49	J
NAPHTHALENE	160,000	N		NS		89	U	NS		79	U	80	U	86	U
PHENANTHRENE	NA			NS		89	U	NS		18	J	28	J	240	
PYRENE	230,000	N		NS		89	U	NS		49	J	52	J	360	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:		Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[11]														
SVOC Tentatively Identified Compounds (UG/KG)																
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)		NA			NS			*	NS			*		*		*
.ALPHA.-PINENE (CAS # 80-56-8)		NA			NS			*	NS			*		*		*
.BETA.-PINENE (CAS# 127-91-3)		NA			NS			*	NS			*		*		*
.GAMMA.-SITOSTEROL (CAS# 83-47-6)		NA			NS			*	NS			*		*		*
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)		NA			NS			*	NS			*		*		*
11H-BENZO[B]FLUORENE (CAS# 243-17-4)		NA			NS			*	NS			*		*		*
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)		NA			NS			*	NS			*		*		*
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)		NA			NS			*	NS			*		*		*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)		39,000	N		NS			*	NS		450	NJ		*		*
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)		NA			NS			*	NS			*		*		*
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)		NA			NS			*	NS			*		*		*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)		NA			NS			*	NS			*		*		*
9-HEXADECENOIC ACID (CAS# 002091-29-4)		NA			NS			*	NS			*		*		*
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)		NA			NS			*	NS			*		*		*
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)		NA			NS			*	NS			*		*		*
BENZO(E)PYRENE (CAS# 192-97-2)		NA			NS			*	NS			*		*		*
BORNYL ACETATE (CAS# 76-49-3)		NA			NS			*	NS			*		*		*
CARYOPHYLLENE (CAS# 87-44-5)		NA			NS			*	NS			*		*		*
CHOLESTEROL (CAS # 57-88-5)		NA			NS			*	NS			*	1600	NJ		*
COPAENE (CAS# 3856-25-5)		NA			NS			*	NS			*		*		*
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)		NA			NS			*	NS			*		*		*
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)		NA			NS			*	NS			*		*		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)		16,000,000	N		NS			*	NS			*		*		*
HEXADECANOIC ACID (CAS# 57-10-3)		NA			NS			*	NS			*	550	NJ	94	NJ

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:		Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[11]														
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)		NA			NS			*	NS			*		*		*
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)		NA			NS			*	NS			*		*		*
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1-(1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)		NA			NS			*	NS			*		*		*
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1-(1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)		NA			NS			*	NS			*		*		*
NONACOSANE (CAS# 630-03-5)		NA			NS			*	NS			*		*		*
OLEIC ACID (CAS# 112-80-1)		NA			NS			*	NS			*		*		*
PENTADECANOIC ACID (CAS# 1002-84-2)		NA			NS			*	NS			*		*		*
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)		NA			NS			*	NS			*		*		*
PYRENE, 2-METHYL- (CAS# 3442-78-2)		NA			NS			*	NS			*		*		*
SEPTUM BLEED		NA			NS		230	NJ	NS		220	NJ		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)																
ALUMINUM		7,800	N	**25,798**	7440		9060		10400		8380		7040		9160	
ANTIMONY		**3.1**	N	0.92	1.2	L	1.2	UL	1	UL	1.2	UL	1.2	UL	1.2	UL
ARSENIC		0.43	C	**12.64**	262	J	11.4	J	5.7	J	3.1	J	198	J	27.1	J
BARIUM		**550**	N	298.28	47.4	J	6.6	J	31.1	J	13.3	J	36.1		78.4	
BERYLLIUM		**16**	N	2.35	0.52	J	0.59	UJ	0.52	UJ	0.58	UJ	0.83		0.72	
CALCIUM		NA		**4,207**	1230		421		715		855		1060		1920	
CHROMIUM		**12,000** ‡	N	97.20	24.4		34.6		32.5		30.5		41.1	K	31.6	K
COBALT		**160**	N	22.26	27.8	L	0.91	L	2.1	L	1.4	L	12.5		8.1	
COPPER		**310**	N	47.76	12.1		9.3		10.3		8.4		20.1		23.8	
IRON		2,300	N	**31,951**	30300	J	26700	J	25800	J	27300	J	41700		20200	
LEAD		**400** ‡		329.76	28.4	J	6.6	J	19.5	J	10.4	J	29.4	K	25.6	K
MAGNESIUM		NA		**7,093**	687		389		412		253		922		3940	
MANGANESE		160	N	**1,251**	321	J	26.1	J	79	J	33.2	J	311	J	274	J
MERCURY (by CVAA)		NA		**0.29**	0.11		0.07	U	0.11		0.06		0.05		0.19	
NICKEL		**160**	N	40.12	5.6		1.3		4.3		3.8		8.6		16.6	
PHOSPHORUS		NA		NA	273		145		200		157		488		358	
POTASSIUM		NA		**4,945**	591		363		301		259		1180		2690	
SELENIUM		**39**	N	0.88	1.7		1.2		0.89		0.58	U	0.81		0.59	U
SILICON		NA		NA	2010		2670		2520		1940		2130		2560	
SODIUM		NA		**55.80**	51.9	U	58.9	U	51.6	U	57.7	U	60.6	U	58.5	U
STRONTIUM		**4,700**	N	NA	7.9		3.8		4.2		5		5.1		9.5	
SULFUR		NA		NA	78.2	L	284	L	90.7	L	60.2	L	228		195	
THALLIUM		0.55	N	**1.36**	1	U	1.2	U	1	U	1.2	U	1.2	UJ	1.2	UJ
TIN		**4,700**	N	NA	2.5		2.4		3.3		2.7		5.5		2.3	U
TITANIUM		**31,000**	N	NA	135		72		170		119		150		483	
VANADIUM		55	N	**66.76**	29.7		50.8		54.3		50.2		47.4		33	
ZINC		**2,300**	N	308.8	31.7		7		17.7		10.7		57.4		61.9	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:		Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[\2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[\1]														
IC Scan - EPA 300M (MG/KG)																
CHLORIDE		NA			NS		24.8		NS		1.15	U	10.1		3.56	
FLUORIDE		NA			NS			R	NS			R	2.04	L	3.68	L
NITRATE-N		13,000	N		NS		1.21	U	NS		1.15	U	6.16		4.05	
PHOSPHATE-P		NA			NS			R	NS			R		R	2.92	JL
SULFATE		NA			NS		141	K	NS		15.3	K	19.3	K	7.39	K
Mustard Breakdown Products (UG/KG)																
THIODIGLYCOL		39,100	\3,N		NS		1147	U	NS		1018	U	280	J	300	J
Other Parameters (MG/KG)																
AMMONIA-N		NA			NS		1.18	U	NS		1.17	U	1.18	U	1.36	U
CYANIDE		160 ‡	N		NS		0.61	U	NS		0.57	U	0.61	U	0.66	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. This value was calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[11]												
Volatile Organic Compounds - SW8260B (UG/KG)														
1,4-DICHLOROBENZENE		27,000	C		1	UJ	1	UJ		R	NS		1	UJ
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)		4,700,000	N		10		16		10		NS		4	
2-HEXANONE		310,000	N		1	U	1	U	1	UJ	NS		1	U
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)		630,000	N		1	U	1	U	1	U	NS		1	U
ACETONE		780,000	N		51	J	75	J	43	J	NS		27	B
ACETONITRILE		NA			5	U	6	U	6	U	NS		6	U
ACROLEIN		160,000	N		5	U	6	U	6	U	NS		6	U
BENZENE		12,000	C		1	U	1	U	1	U	NS		1	U
CARBON DISULFIDE		780,000	N		7		8		11		NS		6	
CHLOROFORM		78,000	N		1	U	1	U	1	UJ	NS		1	UJ
CHLOROMETHANE		NA			2		4		7		NS		4	
ISOPROPYLBENZENE (CUMENE)		780,000	N		1	UJ	1	UJ		R	NS		1	UJ
METHYL ACETATE		7,800,000	N		1	J	6		6		NS		1	J
METHYLCYCLOHEXANE		470,000 ‡	N		1	U	1	U	1	U	NS		1	U
METHYLENE CHLORIDE		85,000	C		1	U	1	U	1	U	NS		1	U
TETRACHLOROETHENE		32,000	C		1	U	1	U	1	UJ	NS		1	U
TOLUENE		1,600,000	N		1	U	1	U	1	UJ	NS		4	J
VOC Tentatively Identified Compounds (UG/KG)														
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)		NA				*		*		*	NS		100	NJ
2,4-HEXANEDIONE (CAS# 3002-24-2)		NA				*		*		*	NS			*
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)		NA			5	NJ	10	NJ		*	NS			*
2-DECENE, 4-METHYL-,(Z)-		NA				*		*		*	NS			*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)		NA				*		*		*	NS			*
2-OCTENE, (E)- ISOMER		NA			10	NJ	10	NJ	20	NJ	NS			*
2-OCTENE, (E)- ISOMER		NA				*		*		*	NS			*
2-OCTENE, (Z)- ISOMER		NA				*		*		*	NS			*
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)		NA				*		*	30	NJ	NS			*
2-PROPANOL (CAS# 67-63-0)		NA			10	NJ		*		*	NS			*
3-OCTENE, (E)-		NA				*		*		*	NS			*
ACETALDEHYDE (CAS# 75-07-0)		NA			7	NJ	20	NJ	20	NJ	NS			*
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)		7,000,000	N			*		*		*	NS			*
BENZALDEHYDE (CAS# 100-52-7)		780,000	N			*		*		*	NS			*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)		550,000	N			*	10	NJ		*	NS			*
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-		NA				*		*		*	NS		60	NJ
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL		NA				*		*		*	NS		200	NJ
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-		NA				*		*		*	NS		200	NJ
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-		NA				*		*		*	NS			*
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL		NA				*		*		*	NS			*
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-		NA				*		*		*	NS			*
BICYCLO 3.1.1 HEPT-2-ENE,2,		NA				*		*		*	NS		100	NJ
BICYCLO 3.1.1 HEPTANE, 6,6-D		NA				*		*		*	NS		20	NJ
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-		NA				*		*		*	NS			*
BUTANAL (CAS# 123-72-8)		NA			6	NJ	6	NJ		*	NS			*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
BUTANAL, 3-METHYL-		NA				*		*	9	NJ	NS			*
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)		NA				*		*		*	NS			*
CYCLOBUTANOL (CAS# 2919-23-5)		NA				*		*		*	NS			*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)		NA				*		*	20	NJ	NS			*
DECANAL (CAS# 112-31-2)		NA				*		*		*	NS			*
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)		NA				*		*		*	NS			*
HEPTANAL (CAS# 111-71-7)		NA				*		*		*	NS			*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)		NA				*		*		*	NS			*
HEXANAL (CAS# 66-25-1)		NA			100	NJ	90	NJ	300	NJ	NS		90	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)		NA				*		*		*	NS			*
HEXANAL, 5-METHYL- (CAS# 1860-39-5)		NA			7	NJ	7	NJ	10	NJ	NS			*
OCTANAL (CAS# 124-13-0)		NA			7	NJ	10	NJ	20	NJ	NS			*
OCTANE (CAS# 111-65-9)		NA				*		*		*	NS			*
PENTANAL ISOMER		NA			20	NJ	20	NJ	30	NJ	NS			*
PENTANAL ISOMER		NA				*	8	NJ		*	NS			*
PENTANAL, 2-METHYL- (CAS# 123-15-9)		NA				*		*		*	NS			*
PENTANE (CAS# 109-66-0)		NA			7	NJ		*	30	NJ	NS			*
PROPANE, 2-METHYL- (CAS# 72-28-5)		NA				*		*		*	NS			*
UNDECANE (CAS# 1120-21-4)		NA				*		*		*	NS			*
Semivolatile Organic Compounds - SW8270C (UG/KG)														
2-CHLORONAPHTHALENE (CAS# 91587)		630,000 ‡	N		81	U	86	U	92	U	NS		86	U
2-METHYLNAPHTHALENE (CAS# 91576)		160,000	N		81	U	86	U	92	U	NS		46	J
4-METHYLPHENOL		39,000	N		81	U	86	U	92	U	NS		86	U
4-NITROPHENOL		63,000	N		81	U	86	U	92	U	NS		86	U
ACENAPHTHENE		470,000	N		81	U	22	J	92	U	NS		120	
ACENAPHTHYLENE		470,000 ‡	N		81	U	86	U	92	U	NS		100	
ANTHRACENE		2,300,000	N		81	U	27	J	92	U	NS		270	
BENZO[A]ANTHRACENE		870	C		18	J	120		60	J	NS		2000	
BENZO[A]PYRENE		87	C		13	J	40	J	32	J	NS		1100	J
BENZO[B]FLUORANTHENE		870	C		39	J	110		81	J	NS		2300	J
BENZO[G,H,I]PERYLENE		NA			81	U	34	J	18	J	NS		680	J
BENZO[K]FLUORANTHENE		8,700	C		11	J	42	J	26	J	NS		1300	J
BENZOIC ACID		31,000,000	N		18	J	25	J	40	J	NS		210	J
BIS(2-ETHYLHEXYL)PHTHALATE		46,000	C		12	J	28	J	40	J	NS		29	J
BUTYLBENZYLPHTHALATE		1,600,000	N		81	U	86	U	92	U	NS		86	U
CARBAZOLE		32,000	C		81	U	11	J	92	U	NS		67	J
CHRYSENE		87,000	C		12	J	42	J	31	J	NS		1100	
DIBENZ[A,H]ANTHRACENE		87	C		81	U	86	U	92	U	NS		330	J
DIBENZOFURAN		16,000	N		81	U	16	J	92	U	NS		68	J
DIETHYLPHTHALATE		6,300,000	N		10	J	14	J	13	J	NS		18	J
DI-N-BUTYLPHTHALATE		780,000 ‡	N		20	JB	27	JB	26	JB	NS		26	JB
DI-N-OCTYLPHTHALATE		160,000 ‡	N		81	U	86	U	92	U	NS		86	UJ
FLUORANTHENE		310,000	N		31	J	220		93		NS		3500	D
FLUORENE		310,000	N		81	U	18	J	92	U	NS		110	
INDENO[1,2,3-CD]PYRENE		870	C		81	U	39	J	21	J	NS		1100	J
NAPHTHALENE		160,000	N		81	U	11	J	92	U	NS		82	J
PHENANTHRENE		NA			15	J	200		46	J	NS		1600	
PYRENE		230,000	N		27	J	160		72	J	NS		3200	D

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[l2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[l1]												
SVOC Tentatively Identified Compounds (UG/KG)														
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)		NA				*		*		*	NS		880	NJ
.ALPHA.-PINENE (CAS # 80-56-8)		NA				*		*		*	NS		1000	NJ
.BETA.-PINENE (CAS# 127-91-3)		NA				*		*		*	NS		2100	NJ
.GAMMA.-SITOSTEROL (CAS# 83-47-6)		NA			120	NJ		*	290	NJ	NS			*
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)		NA				*		*		*	NS		120	NJ
11H-BENZO[B]FLUORENE (CAS# 243-17-4)		NA				*		*		*	NS		160	NJ
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)		NA				*		*		*	NS			*
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)		NA			140	NJ		*		*	NS			*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)		39,000	N			*		*	320	NJ	NS			*
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)		NA				*	1100	NJ		*	NS			*
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)		NA				*		*		*	NS			*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)		NA				*	1200	NJ	460	NJ	NS		96	NJ
9-HEXADECENOIC ACID (CAS# 002091-29-4)		NA				*	490	NJ	650	NJ	NS			*
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)		NA				*		*		*	NS			*
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)		NA				*		*		*	NS			*
BENZO(E)PYRENE (CAS# 192-97-2)		NA				*		*		*	NS		330	DNJ
BORNYL ACETATE (CAS# 76-49-3)		NA				*		*		*	NS			*
CARYOPHYLLENE (CAS# 87-44-5)		NA				*		*		*	NS		540	NJ
CHOLESTEROL (CAS # 57-88-5)		NA				*	2200	NJ		*	NS			*
COPAENE (CAS# 3856-25-5)		NA				*		*		*	NS			*
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)		NA				*		*		*	NS			*
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)		NA				*		*		*	NS			*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)		16,000,000	N		100	NJ		*		*	NS			*
HEXADECANOIC ACID (CAS# 57-10-3)		NA				*	88	NJ	310	NJ	NS			*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[11]												
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4 METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)		NA				*		*		*	NS			*
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)		NA				*		*		*	NS			*
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)		NA				*		*		*	NS			*
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)		NA				*		*		*	NS			*
NONACOSANE (CAS# 630-03-5)		NA				*		*		*	NS		220	DNJ
OLEIC ACID (CAS# 112-80-1)		NA				*	1800	NJ		*	NS			*
PENTADECANOIC ACID (CAS# 1002-84-2)		NA				*		*	390	NJ	NS			*
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)		NA				*		*		*	NS		240	NJ
PYRENE, 2-METHYL- (CAS# 3442-78-2)		NA				*		*		*	NS		210	DNJ
SEPTUM BLEED		NA				*		*		*	NS			*
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	9480		7140		13000		9040		7430	
ANTIMONY		**3.1**	N	0.92	1	UL	1.1	UL	1	UL	1.3	UL	1.1	UL
ARSENIC		0.43	C	**12.64**	81.8	J	210	J	31.3	J	12.9	J	8.9	J
BARIUM		**550**	N	298.28	67.6		37.7		76.3		47.5		38.5	
BERYLLIUM		**16**	N	2.35	0.8		0.62		0.78		0.63	U	0.55	U
CALCIUM		NA		**4,207**	1230		667		4620		2190		4790	
CHROMIUM		**12,000** ‡	N	97.20	41.3	K	23.2	K	44.1	K	42.4	K	32	K
COBALT		**160**	N	22.26	7.1		11.2		11.8		4.8		3.4	
COPPER		**310**	N	47.76	29.5		19.1		56.9		19.1		14.3	
IRON		2,300	N	**31,951**	29500		33300		32700		27800		23600	
LEAD		**400** ‡		329.76	14.7	K	17.6	K	26.5	K	44	K	34	K
MAGNESIUM		NA		**7,093**	2770		908		5700		1320		2770	
MANGANESE		160	N	**1,251**	288	J	303	J	392	J	158	J	104	J
MERCURY (by CVAA)		NA		**0.29**	0.06	U	0.1		0.24		0.75		0.37	
NICKEL		**160**	N	40.12	12.3		7.6		24.8		15.4		15.5	
PHOSPHORUS		NA		NA	417		353		514		294		218	
POTASSIUM		NA		**4,945**	2520		743		2560		629		514	
SELENIUM		**39**	N	0.88	0.5	U	0.7		0.72		0.63	U	0.55	U
SILICON		NA		NA	2400		1610		2360		1820		1890	
SODIUM		NA		**55.80**	49.8	U	57.1	U	52	U	63	U	55.3	U
STRONTIUM		**4,700**	N	NA	6.7		3.5		8.9		10.7		10.3	
SULFUR		NA		NA	154		150		236		162		113	
THALLIUM		0.55	N	**1.36**	1	UJ	1.1	UJ	1.4	J	1.3	UJ	1.4	J
TIN		**4,700**	N	NA	2	U	2.3	U	2.3		5.5		5.7	
TITANIUM		**31,000**	N	NA	296		176		423		235		187	
VANADIUM		55	N	**66.76**	66.9		40.4		78.6		56.8		45.6	
ZINC		**2,300**	N	308.8	43.2		31.3		69.4		53.9		36.3	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[\2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[\1]												
IC Scan - EPA 300M (MG/KG)														
CHLORIDE		NA			6.13		7.74		6.93		NS		4.64	
FLUORIDE		NA			2.46	L	2.4	L	4.43	L	NS		6.7	L
NITRATE-N		13,000	N		3.12		1.18	U	9.73		NS		1.26	U
PHOSPHATE-P		NA				R		R		R	NS			R
SULFATE		NA			14	K	30	K	8.22	L	NS		4.94	K
Mustard Breakdown Products (UG/KG)														
THIODIGLYCOL		39,100	\3,N		1039	U	1095	U	1187	U	NS		257	J
Other Parameters (MG/KG)														
AMMONIA-N		NA			1.19	U	2.47		1.36	U	NS		1.21	U
CYANIDE		160 [‡]	N		0.58	U	0.51	U	0.62	U	NS		0.58	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. This value was calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:		Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:		RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:		(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute		downward)[11]											
Volatile Organic Compounds - SW8260B (UG/KG)													
1,4-DICHLOROBENZENE		27,000	C		2	J	NS		NS			R	NS
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)		4,700,000	N		7		NS		NS		22		NS
2-HEXANONE		310,000	N		1	U	NS		NS		2		NS
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)		630,000	N		1	U	NS		NS		1	U	NS
ACETONE		780,000	N		21	B	NS		NS		150	J	NS
ACETONITRILE		NA			5	U	NS		NS		8		NS
ACROLEIN		160,000	N		5	U	NS		NS		7		NS
BENZENE		12,000	C		1	U	NS		NS		1	U	NS
CARBON DISULFIDE		780,000	N		6		NS		NS		11		NS
CHLOROFORM		78,000	N		1	U	NS		NS		3		NS
CHLOROMETHANE		NA			4		NS		NS		12		NS
ISOPROPYLBENZENE (CUMENE)		780,000	N			R	NS		NS			R	NS
METHYL ACETATE		7,800,000	N		9		NS		NS		47	J	NS
METHYLCYCLOHEXANE		470,000 ‡	N		1	U	NS		NS		3		NS
METHYLENE CHLORIDE		85,000	C		1	U	NS		NS		1	U	NS
TETRACHLOROETHENE		32,000	C		1	U	NS		NS		1	U	NS
TOLUENE		1,600,000	N		2	J	NS		NS		4		NS
VOC Tentatively Identified Compounds (UG/KG)													
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)		NA				*	NS		NS			*	NS
2,4-HEXANEDIONE (CAS# 3002-24-2)		NA			2	NJ	NS		NS			*	NS
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)		NA			6	NJ	NS		NS		40	NJ	NS
2-DECENE, 4-METHYL-,(Z)-		NA				*	NS		NS			*	NS
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)		NA				*	NS		NS			*	NS
2-OCTENE, (E)- ISOMER		NA			8	NJ	NS		NS		10	NJ	NS
2-OCTENE, (E)- ISOMER		NA				*	NS		NS			*	NS
2-OCTENE, (Z)- ISOMER		NA				*	NS		NS			*	NS
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)		NA				*	NS		NS			*	NS
2-PROPANOL (CAS# 67-63-0)		NA				*	NS		NS			*	NS
3-OCTENE, (E)-		NA				*	NS		NS			*	NS
ACETALDEHYDE (CAS# 75-07-0)		NA				*	NS		NS		10	NJ	NS
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)		7,000,000	N			*	NS		NS			*	NS
BENZALDEHYDE (CAS# 100-52-7)		780,000	N			*	NS		NS			*	NS
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)		550,000	N			*	NS		NS			*	NS
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-		NA				*	NS		NS			*	NS
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL		NA			2	NJ	NS		NS			*	NS
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-		NA			3	NJ	NS		NS			*	NS
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-		NA				*	NS		NS			*	NS
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL		NA				*	NS		NS			*	NS
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-		NA				*	NS		NS			*	NS
BICYCLO 3.1.1 HEPT-2-ENE,2,		NA				*	NS		NS			*	NS
BICYCLO 3.1.1 HEPTANE, 6,6-D		NA				*	NS		NS			*	NS
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-		NA				*	NS		NS			*	NS
BUTANAL (CAS# 123-72-8)		NA			6	NJ	NS		NS		10	NJ	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:		Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:		RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:		(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute		downward)[11]											
BUTANAL, 3-METHYL-		NA				*	NS		NS			*	NS
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)		NA				*	NS		NS			*	NS
CYCLOBUTANOL (CAS# 2919-23-5)		NA				*	NS		NS			*	NS
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)		NA				*	NS		NS			*	NS
DECANAL (CAS# 112-31-2)		NA				*	NS		NS			*	NS
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)		NA				*	NS		NS			*	NS
HEPTANAL (CAS# 111-71-7)		NA				*	NS		NS			*	NS
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)		NA				*	NS		NS			*	NS
HEXANAL (CAS# 66-25-1)		NA			200	NJ	NS		NS		300	NJ	NS
HEXANAL, 2-ETHYL- (CAS# 123-05-7)		NA				*	NS		NS			*	NS
HEXANAL, 5-METHYL- (CAS# 1860-39-5)		NA				*	NS		NS		10	NJ	NS
OCTANAL (CAS# 124-13-0)		NA				*	NS		NS		20	NJ	NS
OCTANE (CAS# 111-65-9)		NA				*	NS		NS			*	NS
PENTANAL ISOMER		NA			20	NJ	NS		NS		70	NJ	NS
PENTANAL ISOMER		NA			3	NJ	NS		NS			*	NS
PENTANAL, 2-METHYL- (CAS# 123-15-9)		NA				*	NS		NS			*	NS
PENTANE (CAS# 109-66-0)		NA			10	NJ	NS		NS		100	NJ	NS
PROPANE, 2-METHYL- (CAS# 72-28-5)		NA				*	NS		NS			*	NS
UNDECANE (CAS# 1120-21-4)		NA				*	NS		NS			*	NS
Semivolatile Organic Compounds - SW8270C (UG/KG)													
2-CHLORONAPHTHALENE (CAS# 91587)		630,000 ‡	N		78	U	NS		NS		83	U	NS
2-METHYLNAPHTHALENE (CAS# 91576)		160,000	N		78	U	NS		NS		83	U	NS
4-METHYLPHENOL		39,000	N		78	U	NS		NS		83	U	NS
4-NITROPHENOL		63,000	N		78	U	NS		NS		83	U	NS
ACENAPHTHENE		470,000	N		78	U	NS		NS		83	U	NS
ACENAPHTHYLENE		470,000 ‡	N		78	U	NS		NS		83	U	NS
ANTHRACENE		2,300,000	N		78	U	NS		NS		83	U	NS
BENZO[A]ANTHRACENE		870	C		53	J	NS		NS		73	J	NS
BENZO[A]PYRENE		87	C		78	UJ	NS		NS		46	J	NS
BENZO[B]FLUORANTHENE		870	C		64	J	NS		NS		110	J	NS
BENZO[G,H,I]PERYLENE		NA			78	UJ	NS		NS		24	J	NS
BENZO[K]FLUORANTHENE		8,700	C		43	J	NS		NS		32	J	NS
BENZOIC ACID		31,000,000	N		21	J	NS		NS		18	J	NS
BIS(2-ETHYLHEXYL)PHTHALATE		46,000	C		190	J	NS		NS		71	J	NS
BUTYLBENZYLPHTHALATE		1,600,000	N		62	J	NS		NS		22	J	NS
CARBAZOLE		32,000	C		78	U	NS		NS		83	U	NS
CHRYSENE		87,000	C		38	J	NS		NS		39	J	NS
DIBENZ[A,H]ANTHRACENE		87	C		78	UJ	NS		NS		83	UJ	NS
DIBENZOFURAN		16,000	N		78	U	NS		NS		83	U	NS
DIETHYLPHTHALATE		6,300,000	N		10	J	NS		NS		14	J	NS
DI-N-BUTYLPHTHALATE		780,000 ‡	N		38	JB	NS		NS		28	JB	NS
DI-N-OCTYLPHTHALATE		160,000 ‡	N		78	UJ	NS		NS		83	UJ	NS
FLUORANTHENE		310,000	N		78	J	NS		NS		110		NS
FLUORENE		310,000	N		78	U	NS		NS		83	U	NS
INDENO[1,2,3-CD]PYRENE		870	C		78	UJ	NS		NS		30	J	NS
NAPHTHALENE		160,000	N		78	U	NS		NS		83	U	NS
PHENANTHRENE		NA			44	J	NS		NS		48	J	NS
PYRENE		230,000	N		140	J	NS		NS		110		NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[11]											
SVOC Tentatively Identified Compounds (UG/KG)												
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)	NA				*	NS		NS		390	NJ	NS
.ALPHA.-PINENE (CAS # 80-56-8)	NA				*	NS		NS			*	NS
.BETA.-PINENE (CAS# 127-91-3)	NA				*	NS		NS			*	NS
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA				*	NS		NS			*	NS
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)	NA				*	NS		NS			*	NS
11H-BENZO[B]FLUORENE (CAS# 243-17-4)	NA				*	NS		NS			*	NS
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)	NA				*	NS		NS			*	NS
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)	NA				*	NS		NS			*	NS
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N			*	NS		NS		270	NJ	NS
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)	NA				*	NS		NS			*	NS
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)	NA				*	NS		NS			*	NS
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA			400	NJ	NS		NS		460	NJ	NS
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA			120	NJ	NS		NS		320	NJ	NS
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)	NA				*	NS		NS			*	NS
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)	NA				*	NS		NS		140	NJ	NS
BENZO(E)PYRENE (CAS# 192-97-2)	NA				*	NS		NS			*	NS
BORNYL ACETATE (CAS# 76-49-3)	NA				*	NS		NS			*	NS
CARYOPHYLLENE (CAS# 87-44-5)	NA				*	NS		NS		130	NJ	NS
CHOLESTEROL (CAS # 57-88-5)	NA				*	NS		NS			*	NS
COPAENE (CAS# 3856-25-5)	NA				*	NS		NS			*	NS
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)	NA				*	NS		NS			*	NS
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)	NA				*	NS		NS			*	NS
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)	16,000,000	N			*	NS		NS			*	NS
HEXADECANOIC ACID (CAS# 57-10-3)	NA			240	NJ	NS		NS		320	NJ	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")	
TYPE or LOCATION:		Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"	
SAMPLING DATE:		(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[11]												
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4 METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)		NA				*	NS		NS			*	NS	
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)		NA				*	NS		NS			*	NS	
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)		NA				*	NS		NS			*	NS	
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)		NA				*	NS		NS			*	NS	
NONACOSANE (CAS# 630-03-5)		NA				*	NS		NS			*	NS	
OLEIC ACID (CAS# 112-80-1)		NA				*	NS		NS		350	NJ	NS	
PENTADECANOIC ACID (CAS# 1002-84-2)		NA			120	NJ	NS		NS			*	NS	
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)		NA				*	NS		NS			*	NS	
PYRENE, 2-METHYL- (CAS# 3442-78-2)		NA				*	NS		NS			*	NS	
SEPTUM BLEED		NA				*	NS		NS			*	NS	
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	5970		1890		7670		7450		1850	
ANTIMONY		**3.1**	N	0.92	1.2	L	2.6	UL	1.1	UL	1	UL	1.1	UL
ARSENIC		0.43	C	**12.64**	122	J	1.3	UJ	161	J	109	J	50.3	J
BARIUM		**550**	N	298.28	61.5		88.2		45.6		60.5		19.1	
BERYLLIUM		**16**	N	2.35	0.57	U	1.3	U	0.53	U	0.61		0.53	U
CALCIUM		NA		**4,207**	1830		8660		1470		6050		3070	
CHROMIUM		**12,000** [‡]	N	97.20	25.5	K	5.2	K	26.6	K	20.5	K	17.7	K
COBALT		**160**	N	22.26	6.4		2.7		8.5		7.5		5.2	
COPPER		**310**	N	47.76	16.3		6.8		16.9		15.5		6.5	
IRON		2,300	N	**31,951**	23500		4180		33600		23300		7380	
LEAD		**400** [‡]		329.76	35.2	K	4.6	K	21.2	K	24	K	7.8	K
MAGNESIUM		NA		**7,093**	1350		998		1020		1850		3590	
MANGANESE		160	N	**1,251**	263	J	312	J	180	J	456	J	161	J
MERCURY (by CVAA)		NA		**0.29**	0.12		0.12	U	0.1		0.16		0.05	U
NICKEL		**160**	N	40.12	16.7		4.5		9		9.9		66	
PHOSPHORUS		NA		NA	311		214		319		240		112	
POTASSIUM		NA		**4,945**	631		687		709		766		224	
SELENIUM		**39**	N	0.88	0.57	U	1.3	U	0.87		0.5	U	0.53	U
SILICON		NA		NA	1700		1040		1130		2440		665	
SODIUM		NA		**55.80**	56.5	U	138		52.7	U	68.7		146	
STRONTIUM		**4,700**	N	NA	11.7		34.8		8.5		17.7		4.6	
SULFUR		NA		NA	139		286		114		157		84	
THALLIUM		0.55	N	**1.36**	1.1	UJ	2.6	UJ	1.1	UJ	1	UJ	1.1	UJ
TIN		**4,700**	N	NA	2.5		5.2	U	2.4		2		2.1	U
TITANIUM		**31,000**	N	NA	144		74.9		149		200		43.5	
VANADIUM		55	N	**66.76**	28.3		6.3		35.8		28.8		7.9	
ZINC		**2,300**	N	308.8	50.2		18.2		80.2		60.1		40.9	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[\2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[\1]											
IC Scan - EPA 300M (MG/KG)												
CHLORIDE	NA			NS		NS		NS		7.37		NS
FLUORIDE	NA			NS		NS		NS		6.47	L	NS
NITRATE-N	13,000	N		NS		NS		NS		1.16	U	NS
PHOSPHATE-P	NA			NS		NS		NS			R	NS
SULFATE	NA			NS		NS		NS		16	K	NS
Mustard Breakdown Products (UG/KG)												
THIODIGLYCOL	39,100	\3,N		NS		NS		NS		1069	U	NS
Other Parameters (MG/KG)												
AMMONIA-N	NA			NS		NS		NS		1.19	U	NS
CYANIDE	160 ‡	N		NS		NS		NS		0.57	U	NS

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. This value was calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[11]											
Volatile Organic Compounds - SW8260B (UG/KG)												
1,4-DICHLOROBENZENE	27,000	C			R	1	UJ		R		R	NS
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		58	J	12		43	J	21	J	NS
2-HEXANONE	310,000	N		4	J	1	U	2	J	2	J	NS
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		2		1	U	2	U	1	UJ	NS
ACETONE	780,000	N		360	J	78	J	200	J	100	J	NS
ACETONITRILE	NA			9		6	U	8	U	7	J	NS
ACROLEIN	160,000	N		13		6	U	12		7	UJ	NS
BENZENE	12,000	C		2	U	1	U	2	U	2	J	NS
CARBON DISULFIDE	780,000	N		14		7		31		15	J	NS
CHLOROFORM	78,000	N		2	U	1	U	2	U	1	UJ	NS
CHLOROMETHANE	NA			23		7		11		18	J	NS
ISOPROPYLBENZENE (CUMENE)	780,000	N			R	1	UJ	2	J		R	NS
METHYL ACETATE	7,800,000	N		190	J	29	J	70	J	32	J	NS
METHYLCYCLOHEXANE	470,000 ‡	N		3	J	1	U	3	J	1	UJ	NS
METHYLENE CHLORIDE	85,000	C		2	U	1	U	2		1	UJ	NS
TETRACHLOROETHENE	32,000	C		2	UJ	1	U	2	J		R	NS
TOLUENE	1,600,000	N		12	J	1	J	5	J	9	J	NS
VOC Tentatively Identified Compounds (UG/KG)												
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)	NA				*		*		*		*	NS
2,4-HEXANEDIONE (CAS# 3002-24-2)	NA				*		*		*		*	NS
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)	NA			50	NJ	9	NJ	40	NJ	30	NJ	NS
2-DECENE, 4-METHYL-,(Z)-	NA				*	7	NJ		*		*	NS
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)	NA				*		*		*		*	NS
2-OCTENE, (E)- ISOMER	NA			20	NJ		*		*	40	NJ	NS
2-OCTENE, (E)- ISOMER	NA				*		*		*		*	NS
2-OCTENE, (Z)- ISOMER	NA				*	6	NJ	20	NJ		*	NS
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)	NA				*		*		*		*	NS
2-PROPANOL (CAS# 67-63-0)	NA				*		*		*		*	NS
3-OCTENE, (E)-	NA				*		*		*		*	NS
ACETALDEHYDE (CAS# 75-07-0)	NA			50	NJ	10	NJ	40	NJ	20	NJ	NS
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)	7,000,000	N			*		*		*		*	NS
BENZALDEHYDE (CAS# 100-52-7)	780,000	N		20	NJ		*		*		*	NS
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)	550,000	N			*		*		*		*	NS
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-	NA				*		*		*		*	NS
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL	NA				*		*		*		*	NS
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-	NA				*		*		*		*	NS
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-	NA				*		*		*		*	NS
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL	NA				*		*		*		*	NS
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-	NA				*		*		*		*	NS
BICYCLO 3.1.1 HEPT-2-ENE,2,	NA				*		*		*		*	NS
BICYCLO 3.1.1 HEPTANE, 6,6-D	NA				*		*		*		*	NS
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-	NA				*		*		*		*	NS
BUTANAL (CAS# 123-72-8)	NA				*	8	NJ	20	NJ		*	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"	
SAMPLING DATE:	(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[11]												
BUTANAL, 3-METHYL-	NA				*		*		*		*	NS	
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)	NA				*		*		*	40	NJ	NS	
CYCLOBUTANOL (CAS# 2919-23-5)	NA				*		*		*		*	NS	
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA			30	NJ		*		*		*	NS	
DECANAL (CAS# 112-31-2)	NA				*		*		*		*	NS	
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)	NA				*		*		*		*	NS	
HEPTANAL (CAS# 111-71-7)	NA				*		*		*		*	NS	
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)	NA				*		*		*		*	NS	
HEXANAL (CAS# 66-25-1)	NA			300	NJ	100	NJ	400	NJ	400	NJ	NS	
HEXANAL, 2-ETHYL- (CAS# 123-05-7)	NA				*		*		*		*	NS	
HEXANAL, 5-METHYL- (CAS# 1860-39-5)	NA				*		*	20	NJ	10	NJ	NS	
OCTANAL (CAS# 124-13-0)	NA			30	NJ	7	NJ	20	NJ		*	NS	
OCTANE (CAS# 111-65-9)	NA				*		*		*		*	NS	
PENTANAL ISOMER	NA			20	NJ	40	NJ	100	NJ	80	NJ	NS	
PENTANAL ISOMER	NA			60	NJ	7	NJ	20	NJ	20	NJ	NS	
PENTANAL, 2-METHYL- (CAS# 123-15-9)	NA				*		*		*	10	NJ	NS	
PENTANE (CAS# 109-66-0)	NA			100	NJ	30	NJ	60	NJ	100	NJ	NS	
PROPANE, 2-METHYL- (CAS# 72-28-5)	NA				*		*		*		*	NS	
UNDECANE (CAS# 1120-21-4)	NA				*		*		*		*	NS	
Semivolatile Organic Compounds - SW8270C (UG/KG)													
2-CHLORONAPHTHALENE (CAS# 91587)	630,000 ‡	N		120	U	86	U	93	U	95	U	NS	
2-METHYLNAPHTHALENE (CAS# 91576)	160,000	N		120	U	86	U	93	U	95	U	NS	
4-METHYLPHENOL	39,000	N		120	U	86	U	93	U	95	U	NS	
4-NITROPHENOL	63,000	N		120	U	86	U	93	U	95	U	NS	
ACENAPHTHENE	470,000	N		120	U	20	J	93	U	20	J	NS	
ACENAPHTHYLENE	470,000 ‡	N		120	U	86	U	93	U	95	U	NS	
ANTHRACENE	2,300,000	N		18	J	59	J	22	J	33	J	NS	
BENZO[A]ANTHRACENE	870	C		77	J	320	J	140	J	140	J	NS	
BENZO[A]PYRENE	87	C		120	UJ	240	J	110	J	82	J	NS	
BENZO[B]FLUORANTHENE	870	C		92	J	400	J	170	J	200	J	NS	
BENZO[G,H,I]PERYLENE	NA			120	UJ	67	J		R		R	NS	
BENZO[K]FLUORANTHENE	8,700	C		33	J	220	J	100	J		R	NS	
BENZOIC ACID	31,000,000	N		41	J	35	J	25	J	38	J	NS	
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		360	J	190	J	300	J	130	J	NS	
BUTYLBENZYLPHTHALATE	1,600,000	N		44	J	86	UJ	51	J	46	J	NS	
CARBAZOLE	32,000	C		120	U	22	J	93	U	95	U	NS	
CHRYSENE	87,000	C		52	J	210	J	110	J	100	J	NS	
DIBENZ[A,H]ANTHRACENE	87	C		120	UJ	86	UJ		R		R	NS	
DIBENZOFURAN	16,000	N		120	U	86	U	93	U	95	U	NS	
DIETHYLPHTHALATE	6,300,000	N		24	J	21	J	13	J	16	J	NS	
DI-N-BUTYLPHTHALATE	780,000 ‡	N		48	JB	32	JB	93	U	40	JB	NS	
DI-N-OCTYLPHTHALATE	160,000 ‡	N		120	UJ	86	UJ		R		R	NS	
FLUORANTHENE	310,000	N		120	J	470		190		180		NS	
FLUORENE	310,000	N		120	U	15	J	93	U	95	U	NS	
INDENO[1,2,3-CD]PYRENE	870	C		120	UJ	91	J		R		R	NS	
NAPHTHALENE	160,000	N		120	U	12	J	93	U	95	U	NS	
PHENANTHRENE	NA			82	J	260		100		160		NS	
PYRENE	230,000	N		230	J	910	J	390	J	430	J	NS	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
SVOC Tentatively Identified Compounds (UG/KG)													
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)	NA			560	NJ		*	160	NJ	760	NJ	NS	
.ALPHA.-PINENE (CAS # 80-56-8)	NA				*		*		*		*	NS	
.BETA.-PINENE (CAS# 127-91-3)	NA				*		*	140	NJ		*	NS	
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA				*		*		*		*	NS	
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)	NA				*		*		*		*	NS	
11H-BENZO[B]FLUORENE (CAS# 243-17-4)	NA				*		*		*		*	NS	
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)	NA				*		*		*		*	NS	
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)	NA				*		*		*		*	NS	
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N		410	JNB		*		*		*	NS	
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)	NA				*		*		*		*	NS	
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)	NA				*		*		*		*	NS	
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA			1500	NJ				*		*	NS	
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA			1100	NJ	480	NJ		*		*	NS	
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)	NA				*		*		*		*	NS	
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)	NA				*		*		*		*	NS	
BENZO(E)PYRENE (CAS# 192-97-2)	NA				*		*		*		*	NS	
BORNYL ACETATE (CAS# 76-49-3)	NA				*		*		*	190	NJ	NS	
CARYOPHYLLENE (CAS# 87-44-5)	NA			200	NJ		*		*	260	NJ	NS	
CHOLESTEROL (CAS # 57-88-5)	NA				*		*		*		*	NS	
COPAENE (CAS# 3856-25-5)	NA				*		*		*		*	NS	
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)	NA				*		*		*		*	NS	
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)	NA				*		*		*		*	NS	
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)	16,000,000	N			*		*		*		*	NS	
HEXADECANOIC ACID (CAS# 57-10-3)	NA			250	NJ	380	NJ	270	NJ	190	NJ	NS	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)	
TYPE or LOCATION:	**Residential**		**Metals**	**High As Grid**		**High As Grid**		**High As Grid**		**High As Grid**		**Mulch**	
SAMPLE DEPTH:	**RBC**		**Back-**	**0-6"**		**0-6"**		**0-6"**		**0-6"**		**0-1"**	
SAMPLING DATE:	**(adjusted**		**ground**[12]	**2/21/2001**		**2/21/2001**		**2/21/2001**		**2/21/2001**		**2/21/2001**	
Analyses performed by Southwest Research Institute	**downward)**[11]												
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)	NA				*		*		*		*	NS	
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)	NA				*		*		*		*	NS	
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)	NA				*		*		*		*	NS	
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)	NA				*		*		*		*	NS	
NONACOSANE (CAS# 630-03-5)	NA				*		*		*		*	NS	
OLEIC ACID (CAS# 112-80-1)	NA			1500	NJ		*	110	NJ		*	NS	
PENTADECANOIC ACID (CAS# 1002-84-2)	NA				*		*		*		*	NS	
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)	NA				*		*		*		*	NS	
PYRENE, 2-METHYL- (CAS# 3442-78-2)	NA				*		*		*		*	NS	
SEPTUM BLEED	NA				*		*		*		*	NS	
ICP Inorganic Analyses - SW6010B (MG/KG)													
ALUMINUM	7,800	N	**25,798**	2970		7420		7740		5560		2220	
ANTIMONY	**3.1**	N	0.92	1.5	UL	0.98	UL	1.3	UL	2.1	L	2.1	UL
ARSENIC	0.43	C	**12.64**	91.1	J	173	J	145	J	399	J	5.6	J
BARIUM	**550**	N	298.28	49.6		58.9		76.9		64.9		97	
BERYLLIUM	**16**	N	2.35	0.73	U	0.59		0.65	U	0.62	U	1	U
CALCIUM	NA		**4,207**	2930		2450		3170		3390		8440	
CHROMIUM	**12,000** ‡	N	97.20	20.4	K	32.8	K	25.3	K	19.2	K	7.7	K
COBALT	**160**	N	22.26	4.9		8		8		6.6		3.1	
COPPER	**310**	N	47.76	11.1		20.2		17.7		22.5		7.9	
IRON	2,300	N	**31,951**	11300		27400		22200		20200		4920	
LEAD	**400** ‡		329.76	16.4	K	28.2	K	43.4	K	37.4	K	6.1	K
MAGNESIUM	NA		**7,093**	2750		1630		1520		1600		1050	
MANGANESE	160	N	**1,251**	205	J	271	J	435	J	270	J	338	J
MERCURY (by CVAA)	NA		**0.29**	0.15		0.23		0.17		0.2		0.1	U
NICKEL	**160**	N	40.12	61.2		14.8		14.9		12.1		9.6	
PHOSPHORUS	NA		NA	273		391		466		384		252	
POTASSIUM	NA		**4,945**	418		1180		647		942		944	
SELENIUM	**39**	N	0.88	0.73	U	0.58		0.65	U	0.62	U	1	U
SILICON	NA		NA	967		1930		1820		1600		1060	
SODIUM	NA		**55.80**	73.5	U	49.1	U	64.7	U	61.8	U	190	
STRONTIUM	**4,700**	N	NA	13		11.2		15.6		15.6		35.6	
SULFUR	NA		NA	235		163		332		257		310	
THALLIUM	0.55	N	**1.36**	1.5	UJ	0.98	UJ	1.3	UJ	1.2	UJ	2.1	UJ
TIN	**4,700**	N	NA	2.9	U	2.6		4.1		2.9		4.2	U
TITANIUM	**31,000**	N	NA	95.9		169		185		204		84.1	
VANADIUM	55	N	**66.76**	13.6		34.9		35.8		27.8		7.6	
ZINC	**2,300**	N	308.8	49.6		85.7		70.5		73.3		23	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")	CDC-(160,140)(0-6")	CDC-(160,150)
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid	High As Grid	Mulch
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"	0-6"	0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001	2/21/2001	2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]									
IC Scan - EPA 300M (MG/KG)										
CHLORIDE	NA			4.48		NS		NS	NS	NS
FLUORIDE	NA			2.81	L	NS		NS	NS	NS
NITRATE-N	13,000	N		1.59	U	NS		NS	NS	NS
PHOSPHATE-P	NA				R	NS		NS	NS	NS
SULFATE	NA			6.9	K	NS		NS	NS	NS
Mustard Breakdown Products (UG/KG)										
THIODIGLYCOL	39,100	\3,N		732	J	NS		NS	NS	NS
Other Parameters (MG/KG)										
AMMONIA-N	NA			1.54	U	NS		NS	NS	NS
CYANIDE	160 ‡	N		0.5	U	NS		NS	NS	NS

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. This value was calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
Volatile Organic Compounds - SW8260B (UG/KG)																
1,4-DICHLOROBENZENE		27,000	C		NS			R		R		R		R		R
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)		4,700,000	N		NS		20	J	14		8		42	J	17	
2-HEXANONE		310,000	N		NS			R		R		R	4	J		R
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)		630,000	N		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
ACETONE		780,000	N		NS		120	J	69	J	55	J	330	J	80	J
ACETONITRILE		NA			NS		10	J	7	U	5.4	U	33	J	6.1	U
ACROLEIN		160,000	N		NS		12		7	U	5.4	U	8.7	UJ	6.1	UJ
BENZENE		12,000	C		NS		2	J	3		1.1	UJ	1.7	UJ	1.2	UJ
CARBON DISULFIDE		780,000	N		NS		12	J	10		9		32	J	10	
CHLOROFORM		78,000	N		NS		1	UJ	1	UJ	1.1	U	2	J	1.2	U
CHLOROMETHANE		NA			NS		14	J	10		11		16	J	9	
ISOPROPYLBENZENE (CUMENE)		780,000	N		NS		2	J		R		R	2	J		R
METHYL ACETATE		7,800,000	N		NS		24	J	25		26		83	J	35	J
METHYLCYCLOHEXANE		470,000 ‡	N		NS			R		R		R	1.7	UJ	1.2	UJ
METHYLENE CHLORIDE		85,000	C		NS		1	UJ	1	U	1.1	U	1.7	UJ	1.2	U
TETRACHLOROETHENE		32,000	C		NS			R		R		R		R		R
TOLUENE		1,600,000	N		NS		12	J	8	J	1.1	U	36	J	2	J
VOC Tentatively Identified Compounds (UG/KG)																
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)		NA			NS			*		*		*		*		*
2,4-HEXANEDIONE (CAS# 3002-24-2)		NA			NS			*		*		*		*		*
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)		NA			NS		20	NJ	10	NJ	10	NJ		*	20	NJ
2-DECENE, 4-METHYL-,(Z)-		NA			NS			*		*		*		*		*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)		NA			NS			*		*		*		*		*
2-OCTENE, (E)- ISOMER		NA			NS		30	NJ	20	NJ	40	NJ		*	20	NJ
2-OCTENE, (E)- ISOMER		NA			NS		30	NJ		*		*		*		*
2-OCTENE, (Z)- ISOMER		NA			NS			*		*		*		*		*
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)		NA			NS			*		*		*		*		*
2-PROPANOL (CAS# 67-63-0)		NA			NS			*		*		*		*		*
3-OCTENE, (E)-		NA			NS			*		*		*		*		*
ACETALDEHYDE (CAS# 75-07-0)		NA			NS			*		*		*		*		*
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)		7,000,000	N		NS			*		*		*		*		*
BENZALDEHYDE (CAS# 100-52-7)		780,000	N		NS			*		*		*		*		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)		550,000	N		NS			*		*		*		*		*
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-		NA			NS			*		*		*	400	NJ		*
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL		NA			NS			*		*		*	3000	NJ		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-		NA			NS			*		*		*	3000	NJ		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-		NA			NS			*		*		*	600	NJ		*
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL		NA			NS			*		*		*		*		*
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-		NA			NS		30	NJ		*		*	5000	NJ		*
BICYCLO 3.1.1 HEPT-2-ENE,2,		NA			NS			*		*		*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-D		NA			NS			*		*		*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-		NA			NS			*		*		*	400	NJ		*
BUTANAL (CAS# 123-72-8)		NA			NS			*		*		*		*	10	NJ

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
BUTANAL, 3-METHYL-		NA			NS			*		*		*		*		*
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)		NA			NS		40	NJ	50	NJ		*		*		*
CYCLOBUTANOL (CAS# 2919-23-5)		NA			NS			*	9	NJ		*		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)		NA			NS			*	30	NJ	10	NJ		*		*
DECANAL (CAS# 112-31-2)		NA			NS			*		*		*		*		*
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)		NA			NS			*		*		*		*		*
HEPTANAL (CAS# 111-71-7)		NA			NS			*		*		*		*		*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)		NA			NS			*		*	7	NJ		*		*
HEXANAL (CAS# 66-25-1)		NA			NS		500	NJ	300	NJ	300	NJ	1000	NJ	500	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)		NA			NS			*		*		*		*		*
HEXANAL, 5-METHYL- (CAS# 1860-39-5)		NA			NS		20	NJ	10	NJ	10	NJ		*	20	NJ
OCTANAL (CAS# 124-13-0)		NA			NS			*		*		*		*	10	NJ
OCTANE (CAS# 111-65-9)		NA			NS			*		*	9	NJ		*		*
PENTANAL ISOMER		NA			NS		100	NJ	40	NJ		*		*		*
PENTANAL ISOMER		NA			NS		20	NJ	8	NJ	30	NJ	400	NJ	60	NJ
PENTANAL, 2-METHYL- (CAS# 123-15-9)		NA			NS			*				*		*		*
PENTANE (CAS# 109-66-0)		NA			NS		100	NJ	80	NJ	10	NJ	600	NJ	30	NJ
PROPANE, 2-METHYL- (CAS# 72-28-5)		NA			NS			*		*		*		*		*
UNDECANE (CAS# 1120-21-4)		NA			NS			*		*		*	500	NJ		*
Semivolatile Organic Compounds - SW8270C (UG/KG)																
2-CHLORONAPHTHALENE (CAS# 91587)		630,000 ‡	N		NS		91	U	93	U	80	U	160	U	85	U
2-METHYLNAPHTHALENE (CAS# 91576)		160,000	N		NS		91	U	93	U	32	J	160	U	17	J
4-METHYLPHENOL		39,000	N		NS		91	U	93	U	80	U	160	U	85	U
4-NITROPHENOL		63,000	N		NS		91	U	93	U	80	U	160	U	85	U
ACENAPHTHENE		470,000	N		NS		91	U	93	U	80	U	160	U	23	J
ACENAPHTHYLENE		470,000 ‡	N		NS		91	U	93	U	25	J	160	U	13	J
ANTHRACENE		2,300,000	N		NS		91	U	59	J	17	J	160	U	39	J
BENZO[A]ANTHRACENE		870	C		NS		80	J	450	J	190		100	J	200	
BENZO[A]PYRENE		87	C		NS		34	J	370	J	120		65	J	180	J
BENZO[B]FLUORANTHENE		870	C		NS		92	J	620	J	250		74	J	240	J
BENZO[G,H,I]PERYLENE		NA			NS		91	UJ	63	J	62	J	160	U	37	J
BENZO[K]FLUORANTHENE		8,700	C		NS		28	J	290	J	110		79	J	220	J
BENZOIC ACID		31,000,000	N		NS		28	J	15	J	240	U	130	J	180	J
BIS(2-ETHYLHEXYL)PHTHALATE		46,000	C		NS		120		120	J	83		280	B	68	JB
BUTYLBENZYLPHTHALATE		1,600,000	N		NS		27	J	93	UJ	80	U	190		11	J
CARBAZOLE		32,000	C		NS		91	U	93	U	15	J	160	U	19	J
CHRYSENE		87,000	C		NS		38	J	300	J	120		64	J	140	
DIBENZ[A,H]ANTHRACENE		87	C		NS		91	UJ		R	80	U	160	U		R
DIBENZOFURAN		16,000	N		NS		91	U	93	U	80	U	160	U	14	J
DIETHYLPHTHALATE		6,300,000	N		NS		19	J	16	J	13	J	160	U	85	U
DI-N-BUTYLPHTHALATE		780,000 ‡	N		NS		32	JB	37	JB	16	JB	39	JB	22	JB
DI-N-OCTYLPHTHALATE		160,000 ‡	N		NS		91	UJ		R	80	U	160	U		R
FLUORANTHENE		310,000	N		NS		120		550		280		120	J	260	
FLUORENE		310,000	N		NS		91	U	93	U	80	U	160	U	85	U
INDENO[1,2,3-CD]PYRENE		870	C		NS		91	UJ	96	J	80		160	U	57	J
NAPHTHALENE		160,000	N		NS		91	U	93	U	22	J	160	U	22	J
PHENANTHRENE		NA			NS		67	J	280		160		93	J	210	
PYRENE		230,000	N		NS		160		1200	J	380		270		610	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]														
SVOC Tentatively Identified Compounds (UG/KG)															
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)	NA			NS		360	NJ		*		*	700	NJ	230	NJ
.ALPHA.-PINENE (CAS # 80-56-8)	NA			NS			*		*		*	2500	NJ	840	NJ
.BETA.-PINENE (CAS# 127-91-3)	NA			NS			*		*		*	5100	NJ	2100	NJ
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA			NS			*		*		*		*		*
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)	NA			NS			*		*		*		*	280	NJ
11H-BENZO[B]FLUORENE (CAS# 243-17-4)	NA			NS			*		*		*		*		*
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)	NA			NS		130	NJ		*		*		*		*
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)	NA			NS			*		*		*		*		*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N		NS			*		*		*		*		*
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)	NA			NS			*		*		*		*		*
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)	NA			NS			*		*		*		*		*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA			NS			*		*		*		*		*
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA			NS			*		*		*	320	NJ		*
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)	NA			NS			*		*		*		*		*
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)	NA			NS			*		*		*		*		*
BENZO(E)PYRENE (CAS# 192-97-2)	NA			NS			*		*		*		*		*
BORNYL ACETATE (CAS# 76-49-3)	NA			NS			*		*		*		*		*
CARYOPHYLLENE (CAS# 87-44-5)	NA			NS		280	NJ		*		*	1800	NJ	520	NJ
CHOLESTEROL (CAS # 57-88-5)	NA			NS			*		*		*		*		*
COPAENE (CAS# 3856-25-5)	NA			NS		200	NJ		*		*		*		*
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)	NA			NS			*		*		*		*		*
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)	NA			NS		3100	NJ		*		*		*		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)	16,000,000	N		NS			*		*		*		*		*
HEXADECANOIC ACID (CAS# 57-10-3)	NA			NS		1100	NJ		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4-METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)		NA			NS		500	NJ		*		*		*		*
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)		NA			NS		270	NJ		*		*		*		*
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1-(1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)		NA			NS		190	NJ		*		*		*		*
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1-(1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)		NA			NS		450	NJ		*		*		*		*
NONACOSANE (CAS# 630-03-5)		NA			NS			*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)		NA			NS		18000	NJ		*		*		*		*
PENTADECANOIC ACID (CAS# 1002-84-2)		NA			NS			*		*		*		*		*
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)		NA			NS			*		*		*		*		*
PYRENE, 2-METHYL- (CAS# 3442-78-2)		NA			NS			*		*		*		*		*
SEPTUM BLEED		NA			NS			*		*	710	NJ		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)																
ALUMINUM		7,800	N	**25,798**	5640		6730		5710		6580		5370		9360	
ANTIMONY		**3.1**	N	0.92	1.3	UL	1.2	L	1.3	UL	1	UL	1.1	UL	1.2	UL
ARSENIC		0.43	C	**12.64**	147	J	240	J	159	J	5	J	55.2	J	7.3	J
BARIUM		**550**	N	298.28	54		62.5		50.9		38.8	J	112	J	44.8	J
BERYLLIUM		**16**	N	2.35	0.63	U	0.55	U	0.64	U	0.5	UJ	0.57	UJ	0.6	UJ
CALCIUM		NA		**4,207**	2610		3650		2140		805		6980		1510	
CHROMIUM		**12,000** ‡	N	97.20	18.9	K	28.5	K	19.1	K	19.3		29.8		31.6	
COBALT		**160**	N	22.26	6		7		5.9		4.1	K	7.4	L	5.2	L
COPPER		**310**	N	47.76	17.5		24.7		18.7		28.5		17.1		15.1	
IRON		2,300	N	**31,951**	19100		27300		18600		28600	J	14500	J	23400	J
LEAD		**400** ‡		329.76	30.7	K	31.2	K	36.7	K	41.6	K	46.7	J	47.2	J
MAGNESIUM		NA		**7,093**	1390		1540		1480		665		3290		1120	
MANGANESE		160	N	**1,251**	266	J	246	J	202	J	136	J	482	J	204	J
MERCURY (by CVAA)		NA		**0.29**	0.21		0.17		0.22		0.12		0.14		0.19	
NICKEL		**160**	N	40.12	9.7		11.4		10.2		8.1		47.9		10.5	
PHOSPHORUS		NA		NA	320		380		323		260		414		434	
POTASSIUM		NA		**4,945**	814		886		897		371		809		785	
SELENIUM		**39**	N	0.88	0.63	U	0.55	U	0.64	U	0.98		1.4		1.2	
SILICON		NA		NA	1650		1790		1700		1700		1630		2290	
SODIUM		NA		**55.80**	63	U	55.3	U	63.6	U	49.9	U	57.2	U	59.7	U
STRONTIUM		**4,700**	N	NA	12.4		15.5		10.1		5.9		31.9		7.6	
SULFUR		NA		NA	197		217		179		214	L	420	L	345	L
THALLIUM		0.55	N	**1.36**	1.3	UJ	1.1	UJ	1.3	UJ	1	U	1.1	U	1.2	U
TIN		**4,700**	N	NA	2.8		2.9		3.6		4.2		3.2		4.1	
TITANIUM		**31,000**	N	NA	190		193		203		173		136		244	
VANADIUM		55	N	**66.76**	25.8		30.3		28.5		34.5		28.8		52.9	
ZINC		**2,300**	N	308.8	59.8		60.6		71.1		41		76.6		48	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid
SAMPLE DEPTH:	RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"
SAMPLING DATE:	(adjusted		ground\2	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001
Analyses performed by Southwest Research Institute	downward)\1													
IC Scan - EPA 300M (MG/KG)														
CHLORIDE	NA			NS		8.64		5.48		2.59		30.6		NS
FLUORIDE	NA			NS		6.95	L	7.13	L	1.94	L	7.74	L	NS
NITRATE-N	13,000	N		NS		1.37	U	1.44	U	18.9		4.82		NS
PHOSPHATE-P	NA			NS			R		R		R	5.34	L	NS
SULFATE	NA			NS		6.96	K	7.68	K	14.4	K	36.8	K	NS
Mustard Breakdown Products (UG/KG)														
THIODIGLYCOL	39,100	\3,N		NS		313	J	445	J	235	J	463	J	NS
Other Parameters (MG/KG)														
AMMONIA-N	NA			NS		1.33	U	1.37	U	1.23	U	1.17	U	NS
CYANIDE	160 ‡	N		NS		0.66	U	0.72	U	0.58	U	0.58	U	NS

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. This value was calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:		Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[12]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[11]												
Volatile Organic Compounds - SW8260B (UG/KG)														
1,4-DICHLOROBENZENE		27,000	C			R		R		R		R		R
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)		4,700,000	N		21		15		9		12		6	
2-HEXANONE		310,000	N			R		R		R		R	1.2	UJ
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)		630,000	N		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
ACETONE		780,000	N		110	J	64	J	56	J	62	J	38	J
ACETONITRILE		NA			8		5.9	U	4.1	U	5.1	U	6	U
ACROLEIN		160,000	N		6	U	7		4.1	U	5.1	U	6	U
BENZENE		12,000	C		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
CARBON DISULFIDE		780,000	N		22		11		11		17		9	
CHLOROFORM		78,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
CHLOROMETHANE		NA			9		7		6		6		4	
ISOPROPYLBENZENE (CUMENE)		780,000	N			R		R		R		R		R
METHYL ACETATE		7,800,000	N		30		27		16		7		7	
METHYLCYCLOHEXANE		470,000 ‡	N		1.2	U	1.2	UJ	0.82	UJ	1	U	1.2	U
METHYLENE CHLORIDE		85,000	C		1.2	U	1.2	U	0.82	U	1	U	1.2	U
TETRACHLOROETHENE		32,000	C		1.2	U		R		R		R	1.2	UJ
TOLUENE		1,600,000	N		11		2	J	9	J	3	J	10	J
VOC Tentatively Identified Compounds (UG/KG)														
1,6-OCTADIENE, 7-METHYL-3-ME (CAS# 123-35-3)		NA				*		*		*		*		*
2,4-HEXANEDIONE (CAS# 3002-24-2)		NA				*		*		*		*		*
2-BUTANONE, 3-METHYL- (CAS# 563-80-4)		NA			30	NJ	10	NJ	9	NJ	7	NJ		*
2-DECENE, 4-METHYL-,(Z)-		NA				*		*		*		*		*
2-HEPTANONE, 6-METHYL- (CAS# 928-68-7)		NA				*		*		*		*	10	NJ
2-OCTENE, (E)- ISOMER		NA			20	NJ		*	10	NJ		*		*
2-OCTENE, (E)- ISOMER		NA				*		*	20	NJ		*		*
2-OCTENE, (Z)- ISOMER		NA				*		*		*		*		*
2-PROPANAMINE, 2-METHYL- (CAS# 75-64-9)		NA				*		*		*		*		*
2-PROPANOL (CAS# 67-63-0)		NA				*		*		*		*		*
3-OCTENE, (E)-		NA				*		*		*	7	NJ		*
ACETALDEHYDE (CAS# 75-07-0)		NA			10	NJ	9	NJ	6	NJ		*		*
ACETIC ACID, ETHYL ESTER (CAS# 141-78-6)		7,000,000	N			*		*		*		*		*
BENZALDEHYDE (CAS# 100-52-7)		780,000	N			*		*		*		*		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)		550,000	N			*		*		*		*		*
BENZENE, 1-METHYL-3-(1-METHYLETHYL)-		NA				*		*		*		*		*
BICYCLO 2.2.1 HEPT-2-ENE, 1,7,7-TRIMETHYL		NA				*		*		*		*		*
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-		NA				*		*		*		*	100	NJ
BICYCLO 2.2.1 HEPTANE, 2,2-DIMETHYL-3-METHYLENE-,(1R)-		NA				*		*		*		*		*
BICYCLO 3.1.0 HEX-2-ENE, 2-METHYL		NA				*		*		*		*	20	NJ
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL-		NA				*		*		*		*		*
BICYCLO 3.1.1 HEPT-2-ENE,2,		NA				*		*		*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-D		NA				*		*		*		*		*
BICYCLO 3.1.1 HEPTANE, 6,6-DIMETHYL-2-METHYLENE-		NA				*		*		*		*		*
BUTANAL (CAS# 123-72-8)		NA				*	10	NJ		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:	Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[12]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[11]												
BUTANAL, 3-METHYL-	NA				*		*		*		*		*
CARBON OXIDE SULFIDE (CARBONYL SULFIDE) (CAS# 463-58-1)	NA				*		*		*		*		*
CYCLOBUTANOL (CAS# 2919-23-5)	NA				*		*		*		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA			20	NJ	10	NJ		*		*	60	NJ
DECANAL (CAS# 112-31-2)	NA				*		*		*		*	10	NJ
ETHANONE, 1-(3-ETHYLOXIRANYL) (CAS# 17257-81-7)	NA				*		*		*		*		*
HEPTANAL (CAS# 111-71-7)	NA				*		*	7	NJ		*		*
HEPTANE, 3-METHYLENE- (CAS# 1632-16-2)	NA				*		*		*		*		*
HEXANAL (CAS# 66-25-1)	NA			400	NJ	500	NJ	200	NJ	200	NJ	100	NJ
HEXANAL, 2-ETHYL- (CAS# 123-05-7)	NA				*		*		*		*		*
HEXANAL, 5-METHYL- (CAS# 1860-39-5)	NA			20	NJ	20	NJ		*	9	NJ		*
OCTANAL (CAS# 124-13-0)	NA				*	10	NJ		*		*		*
OCTANE (CAS# 111-65-9)	NA				*		*		*		*		*
PENTANAL ISOMER	NA			60	NJ	70	NJ	6	NJ	8	NJ		*
PENTANAL ISOMER	NA			10	NJ	10	NJ	20	NJ	20	NJ	20	NJ
PENTANAL, 2-METHYL- (CAS# 123-15-9)	NA			10	NJ		*		*		*		*
PENTANE (CAS# 109-66-0)	NA			60	NJ	40	NJ	20	NJ	60	NJ	10	NJ
PROPANE, 2-METHYL- (CAS# 72-28-5)	NA				*		*		*	30	NJ		*
UNDECANE (CAS# 1120-21-4)	NA				*		*		*		*		*
Semivolatile Organic Compounds - SW8270C (UG/KG)													
2-CHLORONAPHTHALENE (CAS# 91587)	630,000 ‡	N		17	J	86	U	68	U	80	U	79	U
2-METHYLNAPHTHALENE (CAS# 91576)	160,000	N		84	U	86	U	68	U	80	U	79	U
4-METHYLPHENOL	39,000	N		84	U	86	U	190		80	U	79	U
4-NITROPHENOL	63,000	N		15	J	86	U	68	U	80	U	79	U
ACENAPHTHENE	470,000	N		21	J	86	U	68	U	80	U	79	U
ACENAPHTHYLENE	470,000 ‡	N		84	U	86	U	68	U	80	U	79	U
ANTHRACENE	2,300,000	N		39	J	86	U	14	J	80	U	79	U
BENZO[A]ANTHRACENE	870	C		220		15	J	74		80	U	41	J
BENZO[A]PYRENE	87	C		140	J		R	39	J		R	31	J
BENZO[B]FLUORANTHENE	870	C		250	J	12	J	82	J		R	32	J
BENZO[G,H,I]PERYLENE	NA				R		R		R		R		R
BENZO[K]FLUORANTHENE	8,700	C		140	J	14	J	65	J		R	47	J
BENZOIC ACID	31,000,000	N		64	J	32	J	39	J	25	J	38	J
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		210	B	60	JB	100	B	190	B	130	B
BUTYLBENZYLPHTHALATE	1,600,000	N		30	J	86	U	20	J	80	U	22	J
CARBAZOLE	32,000	C		84	U	86	U	12	J	80	U	79	U
CHRYSENE	87,000	C		130		16	J	48	J	80	U	46	J
DIBENZ[A,H]ANTHRACENE	87	C			R		R		R		R		R
DIBENZOFURAN	16,000	N		12	J	86	U	68	U	80	U	79	U
DIETHYLPHTHALATE	6,300,000	N		84	U	86	U	11	J	80	U	14	J
DI-N-BUTYLPHTHALATE	780,000 ‡	N		26	JB	57	JB	35	JB	22	JB	25	JB
DI-N-OCTYLPHTHALATE	160,000 ‡	N		23	J		R		R	80	U		R
FLUORANTHENE	310,000	N		270		29	J	110		80	U	55	J
FLUORENE	310,000	N		12	J	86	U	68	U	80	U	79	U
INDENO[1,2,3-CD]PYRENE	870	C			R		R		R		R		R
NAPHTHALENE	160,000	N		11	J	86	U	68	U	80	U	79	U
PHENANTHRENE	NA			220		18	J	110		80	U	34	J
PYRENE	230,000	N		630		59	J	220		20	J	120	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:	Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
SVOC Tentatively Identified Compounds (UG/KG)													
.ALPHA.-CARYOPHYLLENE (CAS# 6753-98-6)	NA			360	NJ		*		*	810	NJ		*
.ALPHA.-PINENE (CAS # 80-56-8)	NA				*		*		*		*		*
.BETA.-PINENE (CAS# 127-91-3)	NA				*		*		*		*		*
.GAMMA.-SITOSTEROL (CAS# 83-47-6)	NA				*		*		*		*		*
1,5,9-CYCLOTETRADECATRIENE, 1,5,9-TRIMETHYL-12-(1-METHYLENENYL)- (CAS# 38748-84-4)	NA				*		*		*		*		*
11H-BENZO[B]FLUORENE (CAS# 243-17-4)	NA				*		*		*		*		*
1H-CYCLOPROP(E)AZULENE, DECAHYDRO-1,1,7-TRIMETHYL-H-METHYLENE, [1AR-(1A.ALPHA., 4A.BETA., 7.ALPHA., 7A.BETA., 7B.ALPHA.)]- (CAS# 25246-27-9)	NA			430	NJ		*		*		*		*
1-PROPENE, 1,1,2-TRICHLORO- OR SIMILAR (CAS# 21400-25-9)	NA				*		*		*		*		*
1-PROPENE, 1,2,3-TRICHLORO- OR SIMILAR (CAS# 96-19-5)	39,000	N			*		*		*		*		*
1-PROPENE, 3,3,3-TRICHLORO- OR SIMILAR (CAS# 2233-00-3)	NA				*		*		*		*		*
2(3H)-BENZOFURANONE, 6-ETHENYLHEXAHYDRO-6-METHYL-3-METHYLENE-7-(1-METHYLETHENYL)-, [3AS-(3A.ALPHA., 6.ALPHA., 7.BETA., 7A.BETA.)]- (CAS# 28290-35-9)	NA				*		*	300	NJ		*		*
9,12-OCTADECADIENOIC ACID (Z,Z)- (CAS# 60-33-3)	NA				*		*		*		*		*
9-HEXADECENOIC ACID (CAS# 002091-29-4)	NA			250	NJ	140	NJ		*	190	NJ		*
AZULENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-1,4-DIMETHYL-7- (1-METHYLETHENYL)- [1S- (1.ALPHA., 4.ALPHA., 7.ALPHA)]- (CAS# 3691-12-1)	NA			230	NJ		*		*		*		*
BENZENE, 1-BROMO-4-CHLORO- (CAS# 106-39-8)	NA				*		*		*		*		*
BENZO(E)PYRENE (CAS# 192-97-2)	NA				*		*		*		*		*
BORNYL ACETATE (CAS# 76-49-3)	NA				*		*		*		*		*
CARYOPHYLLENE (CAS# 87-44-5)	NA			270	NJ		*		*	310	NJ		*
CHOLESTEROL (CAS # 57-88-5)	NA				*		*		*		*		*
COPAENE (CAS# 3856-25-5)	NA				*		*		*		*		*
CYCLOHEXANE, 1-ETHENYL-1-METHYL-2,4-BIS(1-METHYLETHENYL)-, [1S- (1.ALPHA., 2.BETA., 4.BETA.)]- (CAS# 515-13-9)	NA				*		*	830	NJ		*		*
ESTRA-1,3,5,7,9-PENTAEN-17-ONE,3-METHOXY- (CAS# 3907-67-3)	NA				*		*		*		*		*
ETHANOL, 2-(2-ETHOXYETHOXY)- (CAS# 111-90-0)	16,000,000	N			*		*		*		*		*
HEXADECANOIC ACID (CAS# 57-10-3)	NA				*	420	NJ		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:		Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[12]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[11]												
NAPHTHALENE, 1,2,3,4,4A,5,6,8A-OCTAHYDRO-7-METHYL-4 METHYLENE-1- (1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 30021-74-0)		NA				*		*		*		*		*
NAPHTHALENE, 1,2,3,4-TETRAHYDRO-1,6-DIMETHYL-4- (1-METHYLETHYL)-, (1S-CIS)- (CAS# 483-77-2)		NA				*		*		*		*		*
NAPHTHALENE, 1,2,3,5,6,8A-HEXAHYDRO-4,7-DIMETHYL-1-(1-METHYLETHYL)- (1S-CIS)- (CAS# 483-76-1)		NA				*		*		*		*		*
NAPHTHALENE,1,2,4A,5,6,8A-HEXADYDRO-4,7-DIMETHYL-1-(1-METHYLETHYL)-, (1.ALPHA., 4A.ALPHA., 8A.ALPHA.)- (CAS# 31983-22-9)		NA			890	NJ		*		*		*		*
NONACOSANE (CAS# 630-03-5)		NA				*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)		NA				*		*		*		*		*
PENTADECANOIC ACID (CAS# 1002-84-2)		NA			160	NJ		*		*		*		*
PHENANTHRENE, 3-METHYL- (CAS# 832-71-3)		NA				*		*		*		*		*
PYRENE, 2-METHYL- (CAS# 3442-78-2)		NA				*		*		*		*		*
SEPTUM BLEED		NA				*		*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	4870		12600		6070		2980		6110	
ANTIMONY		**3.1**	N	0.92	1.1	UL	1	UL	1	UL	1.1	UL	0.86	UL
ARSENIC		0.43	C	**12.64**	104	J	35.6	J	4.8	J	3.3	J	6.1	J
BARIUM		**550**	N	298.28	65.9	J	77.8	J	47.8	J	20.5	J	19.5	J
BERYLLIUM		**16**	N	2.35	0.56	UJ	0.68	J	0.5	UJ	0.57	UJ	0.9	J
CALCIUM		NA		**4,207**	4230		1700		715		8060		1030	
CHROMIUM		**12,000** ‡	N	97.20	37.6		32.4		27		91.4		52.8	
COBALT		**160**	N	22.26	8.5	L	7.6	L	4.3	L	18.5	L	2.5	L
COPPER		**310**	N	47.76	15		34.8		14.2		14		7.1	
IRON		2,300	N	**31,951**	15000	J	34000	J	26100	J	7530	J	23800	J
LEAD		**400** ‡		329.76	25.8	J	31.7	J	64.3	J	5.1	J	13.3	J
MAGNESIUM		NA		**7,093**	5910		2590		868		20500		1520	
MANGANESE		160	N	**1,251**	323	J	247	J	287	J	298	J	98.4	J
MERCURY (by CVAA)		NA		**0.29**	0.2		0.06		0.15		0.06	U	0.08	
NICKEL		**160**	N	40.12	75.4		11.7		6.7		345		7.3	
PHOSPHORUS		NA		NA	392		527		374		194		678	
POTASSIUM		NA		**4,945**	585		1990		450		172		3260	
SELENIUM		**39**	N	0.88	0.62		1.3		1.2		0.69		0.92	
SILICON		NA		NA	1880		2970		1430		1370		1660	
SODIUM		NA		**55.80**	55.7	U	52.1	U	50.1	U	56.6	U	43	U
STRONTIUM		**4,700**	N	NA	16.7		8.1		3.7		8.4		6.6	
SULFUR		NA		NA	327	L	410	L	273	L	256	L	149	L
THALLIUM		0.55	N	**1.36**	1.1	U	1	U	1	U	1.1	U	0.86	U
TIN		**4,700**	N	NA	3.2		2.9		3.6		2.3	U	1.9	
TITANIUM		**31,000**	N	NA	116		340		139		50.4		110	
VANADIUM		55	N	**66.76**	18.8		69.1		30.1		8		46.1	
ZINC		**2,300**	N	308.8	72.8		65		38.7		18.3		46.6	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:	Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[\2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[\1]												
IC Scan - EPA 300M (MG/KG)													
CHLORIDE	NA			NS		NS		4.18		NS		5.78	
FLUORIDE	NA			NS		NS		2.07	L	NS		2.7	L
NITRATE-N	13,000	N		NS		NS		18.3		NS		13.5	
PHOSPHATE-P	NA			NS		NS			R	NS		3.78	L
SULFATE	NA			NS		NS		48	K	NS		73.4	K
Mustard Breakdown Products (UG/KG)													
THIODIGLYCOL	39,100	\3,N		NS		NS		352	J	NS		300	J
Other Parameters (MG/KG)													
AMMONIA-N	NA			NS		NS		1.22	U	NS		1.16	U
CYANIDE	160 ‡	N		NS		NS		0.6		NS		0.57	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. This value was calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

Table 2

AUES List of Compounds for AU 12/CDC Samples (Includes Indicator and Agent Breakdown Compounds)

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:		Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
Volatile Organic Compounds - SW8260B (UG/KG)																
ACETONITRILE		NA			NS		5.8	U	NS		5.6	UJ	6	U	9	
ACROLEIN		160,000	N		NS		5.8	U	NS		5.6	UJ	7		6	U
BENZYL BROMIDE		NA			NS		5.8	UJ	NS			R	6	UJ	6	UJ
BENZYL CHLORIDE		3,800	C		NS		5.8	UJ	NS			R	6	UJ	6	UJ
CARBON DISULFIDE		780,000	N		NS		12		NS		11	J	9		9	
CARBON TETRACHLORIDE		4,900	C		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CHLOROBENZENE		160,000	N		NS		1.2	UJ	NS			R	1	U	1	U
CHLOROFORM		78,000	N		NS		1.2	U	NS		1.1	UJ	1	U	1	U
CHLOROPICRIN		NA			NS		29	U	NS		28	UJ	30	U	29	U
VOC Tentatively Identified Compounds (UG/KG)																
ALCOHOL		NA			NS			*	NS			*		*		*
ALLYL ALCOHOL		NA			NS			*	NS			*		*		*
BENZYL IODIDE		NA			NS			*	NS			*		*		*
BROMOACETONE		780,000 ‡	N		NS			*	NS			*		*		*
BROMOBENZENE		NA			NS			*	NS			*		*		*
BROMOMETHYL ETHER		NA			NS			*	NS			*		*		*
BUTYL MERCAPTAN		NA			NS				NS			*		*		*
CHLORINATED ACETONE		NA			NS			*	NS			*		*		*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N		NS			*	NS			*		*		*
CHLOROACETONE		780,000 ‡	N		NS			*	NS			*		*		*
CHLOROACETONITRILE		NA			NS			*	NS			*		*		*
CHLOROMETHYL ETHER		NA			NS			*	NS			*		*		*
CHLOROMETHYL ETHYL ETHER		NA			NS			*	NS			*		*		*
CROTONALDEHYDE		340	C		NS			*	NS			*		*		*
ETHYL BROMOACETATE		7,000,000 ‡	N		NS			*	NS			*		*		*
ETHYL CHLOROFORMATE		NA			NS			*	NS			*		*		*
ETHYL DIBROMOACETATE		7,000,000 ‡	N		NS			*	NS			*		*		*
ETHYL MERCAPTAN		NA			NS			*	NS			*		*		*
METHYL BROMOACETATE		NA			NS			*	NS			*		*		*
METHYL CHLOROACETATE		NA			NS			*	NS			*		*		*
METHYL CHLOROFORMATE		NA			NS			*	NS			*		*		*
METHYL CHLOROSULFONATE		NA			NS			*	NS			*		*		*
PERCHLOROMETHYLMERCAPTAN		NA			NS			*	NS			*		*		*
THIOPHENE		NA			NS			*	NS			*		*		*
TRICHLOROACETONITRILE		NA			NS			*	NS			*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:		Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]														
Semivolatile Organic Compounds - SW8270C (UG/KG)																
HEXACHLOROETHANE		46,000	C		NS		89	U	NS		79	U	80	U	86	U
O-CHLORONITROBENZENE		26,000	C		NS		89	U	NS		79	U	80	U	86	U
PHENYL HYDRAZINE		NA			NS		89	U	NS		79	U	80	U	86	U
PHENYL ISOCYANATE		NA			NS		89	U	NS		79	U	80	U	86	U
PHENYL ISOTHIOCYANATE		NA			NS		89	U	NS		79	U	80	U	86	U
SVOC Tentatively Identified Compounds (UG/KG)																
BENZYL FLUORIDE		NA			NS			*	NS			*		*		*
BENZOTRICHLORIDE		NA			NS			*	NS			*		*		*
DIPHENYLCHLOROARSINE		NA			NS			*	NS			*		*		*
OLEIC ACID (CAS# 112-80-1)		NA			NS			*	NS			*		*		*
o-TOLYL ISOCYANIDE		NA			NS			*	NS			*		*		*
PHENYLDICHLOROARSINE		NA			NS			*	NS			*		*		*
PHENYL ISOCYANIDE		NA			NS			*	NS			*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)																
ALUMINUM		7,800	N	**25,798**	7440		9060		10400		8380		7040		9160	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	262	J	11.4	J	5.7	J	3.1	J	198	J	27.1	J
BARIUM *(Indicator only)*		**550**	N	298.28	47.4	J	6.6	J	31.1	J	13.3	J	36.1		78.4	
CADMIUM *(Indicator only)*		**7.8**	N	0.32	0.52	U	0.59	U	0.52	U	0.58	U	0.61	U	0.59	U
CALCIUM *(Indicator only)*		NA		**4,207**	1230		421		715		855		1060		1920	
IRON		2,300	N	**31,951**	30300	J	26700	J	25800	J	27300	J	41700		20200	
LEAD *(Indicator only)*		**400** [‡]		329.76	28.4	J	6.6	J	19.5	J	10.4	J	29.4	K	25.6	K
MAGNESIUM		NA		**7,093**	687		389		412		253		922		3940	
MANGANESE *(Indicator only)*		160	N	**1,251**	321	J	26.1	J	79	J	33.2	J	311	J	274	J
NICKEL *(Indicator only)*		**160**	N	40.12	5.6		1.3		4.3		3.8		8.6		16.6	
PHOSPHORUS		NA		NA	273		145		200		157		488		358	
POTASSIUM *(Indicator only)*		NA		**4,945**	591		363		301		259		1180		2690	
SELENIUM *(Indicator only)*		**39**	N	0.88	1.7		1.2		0.89		0.58	U	0.81		0.59	U
SILICON		NA		NA	2010		2670		2520		1940		2130		2560	
SODIUM		NA		**55.80**	51.9	U	58.9	U	51.6	U	57.7	U	60.6	U	58.5	U
SULFUR		NA		NA	78.2	L	284	L	90.7	L	60.2	L	228		195	
TIN *(Indicator only)*		**4,700**	N	NA	2.5		2.4		3.3		2.7		5.5		2.3	U
TITANIUM *(Indicator only)*		**31,000**	N	NA	135		72		170		119		150		483	
ZINC		**2,300**	N	308.8	31.7		7		17.7		10.7		57.4		61.9	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-SB-A (1')		CDC-SB-A(4')		CDC-SB-B (1')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(130,190)		(140,120)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-1'		3-4'		0-1'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[\2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[\1]														
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)															
BROMIDE	NA			NS		1.21	U	NS		1.15	U	1.2	U	1.33	U
CHLORIDE	NA			NS		24.8		NS		1.15	U	10.1		3.56	
FLUORIDE	NA			NS			R	NS			R	2.04	L	3.68	L
NITRATE-N	13,000	N		NS		1.21	U	NS		1.15	U	6.16		4.05	
SULFATE	NA			NS		141	K	NS		15.3	K	19.3	K	7.39	K
Mustard Breakdown Products (UG/KG)															
1,4-DITHIANE *(Agent Breakdown Product only)*	78,000	N		NS		111	U	NS		99	U	97	U	106	U
1,4-OXATHIANE *(Agent Breakdown Product only)*	78,000	\3,N		NS		113	U	NS		102	U	99	U	108	U
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		NS		1147	U	NS		1018	U	280	J	300	J
Lewisite Breakdown Products (UG/KG)															
TOTAL CVAA & CVAO *(Agent Breakdown Product only)*	890	\3,C		NS		11	U	NS		10	U	10	U	10	U
Other Parameters (MG/KG, unless otherwise indicated)															
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		NS		180	U	NS		180	U	180	U	180	U
ADAMSITE **	NA			NS			**	NS			**	7.7	U		**
AMMONIA-N	NA			NS		1.18	U	NS		1.17	U	1.18	U	1.36	U
CYANIDE *(Indicator only)*	160 [‡]	N		NS		0.61	U	NS		0.57	U	0.61	U	0.66	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
Volatile Organic Compounds - SW8260B (UG/KG)														
ACETONITRILE		NA			5	U	6	U	6	U	NS		6	U
ACROLEIN		160,000	N		5	U	6	U	6	U	NS		6	U
BENZYL BROMIDE		NA			5	UJ	6	UJ		R	NS		6	UJ
BENZYL CHLORIDE		3,800	C		5	UJ	6	UJ		R	NS		6	UJ
CARBON DISULFIDE		780,000	N		7		8		11		NS		6	
CARBON TETRACHLORIDE		4,900	C		1	U	1	U	1	U	NS		1	U
CHLOROBENZENE		160,000	N		1	U	1	U	1	UJ	NS		1	U
CHLOROFORM		78,000	N		1	U	1	U	1	UJ	NS		1	UJ
CHLOROPICRIN		NA			27	U	27	U	32	U	NS		29	U
VOC Tentatively Identified Compounds (UG/KG)														
ALCOHOL		NA				*		*		*	NS			*
ALLYL ALCOHOL		NA				*		*		*	NS			*
BENZYL IODIDE		NA				*		*		*	NS			*
BROMOACETONE		780,000 ‡	N			*		*		*	NS			*
BROMOBENZENE		NA				*		*		*	NS			*
BROMOMETHYL ETHER		NA				*		*		*	NS			*
BUTYL MERCAPTAN		NA				*		*		*	NS			*
CHLORINATED ACETONE		NA				*		*		*	NS			*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N			*		*		*	NS			*
CHLOROACETONE		780,000 ‡	N			*		*		*	NS			*
CHLOROACETONITRILE		NA				*		*		*	NS			*
CHLOROMETHYL ETHER		NA				*		*		*	NS			*
CHLOROMETHYL ETHYL ETHER		NA				*		*		*	NS			*
CROTONALDEHYDE		340	C			*		*		*	NS			*
ETHYL BROMOACETATE		7,000,000 ‡	N			*		*		*	NS			*
ETHYL CHLOROFORMATE		NA				*		*		*	NS			*
ETHYL DIBROMOACETATE		7,000,000 ‡	N			*		*		*	NS			*
ETHYL MERCAPTAN		NA				*		*		*	NS			*
METHYL BROMOACETATE		NA				*		*		*	NS			*
METHYL CHLOROACETATE		NA				*		*		*	NS			*
METHYL CHLOROFORMATE		NA				*		*		*	NS			*
METHYL CHLOROSULFONATE		NA				*		*		*	NS			*
PERCHLOROMETHYLMERCAPTAN		NA				*		*		*	NS			*
THIOPHENE		NA				*		*		*	NS			*
TRICHLOROACETONITRILE		NA				*		*		*	NS			*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
Semivolatile Organic Compounds - SW8270C (UG/KG)														
HEXACHLOROETHANE		46,000	C		81	U	86	U	92	U	NS		86	U
O-CHLORONITROBENZENE		26,000	C		81	U	86	U	92	U	NS		86	U
PHENYL HYDRAZINE		NA			81	U	86	U	92	U	NS		86	U
PHENYL ISOCYANATE		NA			81	U	86	U	92	U	NS		86	U
PHENYL ISOTHIOCYANATE		NA			81	U	86	U	92	U	NS		86	U
SVOC Tentatively Identified Compounds (UG/KG)														
BENZYL FLUORIDE		NA				*		*		*	NS			*
BENZOTRICHLORIDE		NA				*		*		*	NS			*
DIPHENYLCHLOROARSINE		NA				*		*		*	NS			*
OLEIC ACID (CAS# 112-80-1)		NA				*	1800	NJ		*	NS			*
o-TOLYL ISOCYANIDE		NA				*		*		*	NS			*
PHENYLDICHLOROARSINE		NA				*		*		*	NS			*
PHENYL ISOCYANIDE		NA				*		*		*	NS			*
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	9480		7140		13000		9040		7430	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	81.8	J	210	J	31.3	J	12.9	J	8.9	J
BARIUM *(Indicator only)*		**550**	N	298.28	67.6		37.7		76.3		47.5		38.5	
CADMIUM *(Indicator only)*		**7.8**	N	0.32	0.5	U	0.57	U	0.52	U	0.63	U	0.55	U
CALCIUM *(Indicator only)*		NA		**4,207**	1230		667		4620		2190		4790	
IRON		2,300	N	**31,951**	29500		33300		32700		27800		23600	
LEAD *(Indicator only)*		**400** [‡]		329.76	14.7	K	17.6	K	26.5	K	44	K	34	K
MAGNESIUM		NA		**7,093**	2770		908		5700		1320		2770	
MANGANESE *(Indicator only)*		160	N	**1,251**	288	J	303	J	392	J	158	J	104	J
NICKEL *(Indicator only)*		**160**	N	40.12	12.3		7.6		24.8		15.4		15.5	
PHOSPHORUS		NA		NA	417		353		514		294		218	
POTASSIUM *(Indicator only)*		NA		**4,945**	2520		743		2560		629		514	
SELENIUM *(Indicator only)*		**39**	N	0.88	0.5	U	0.7		0.72		0.63	U	0.55	U
SILICON		NA		NA	2400		1610		2360		1820		1890	
SODIUM		NA		**55.80**	49.8	U	57.1	U	52	U	63	U	55.3	U
SULFUR		NA		NA	154		150		236		162		113	
TIN *(Indicator only)*		**4,700**	N	NA	2	U	2.3	U	2.3		5.5		5.7	
TITANIUM *(Indicator only)*		**31,000**	N	NA	296		176		423		235		187	
ZINC		**2,300**	N	308.8	43.2		31.3		69.4		53.9		36.3	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-1")		CDC-(130,140)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-1"		0-6"	
SAMPLING DATE:	(adjusted		ground\2	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)\1												
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)													
BROMIDE	NA			1.21	U	1.18	U	1.34	U	NS		1.26	U
CHLORIDE	NA			6.13		7.74		6.93		NS		4.64	
FLUORIDE	NA			2.46	L	2.4	L	4.43	L	NS		6.7	L
NITRATE-N	13,000	N		3.12		1.18	U	9.73		NS		1.26	U
SULFATE	NA			14	K	30	K	8.22	L	NS		4.94	K
Mustard Breakdown Products (UG/KG)													
1,4-DITHIANE *(Agent Breakdown Product only)*	78,000	N		101	U	103	U	113	U	NS		102	U
1,4-OXATHIANE *(Agent Breakdown Product only)*	78,000	\3,N		104	U	106	U	116	U	NS		105	U
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		1039	U	1095	U	1187	U	NS		257	J
Lewisite Breakdown Products (UG/KG)													
TOTAL CVAA & CVAO *(Agent Breakdown Product only)*	890	\3,C		10	U	10	U	11	U	NS		10	U
Other Parameters (MG/KG, unless otherwise indicated)													
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	180	U	180	U	NS		180	U
ADAMSITE **	NA			7.7	U	7.7	U		**	NS			**
AMMONIA-N	NA			1.19	U	2.47		1.36	U	NS		1.21	U
CYANIDE *(Indicator only)*	160 ‡	N		0.58	U	0.51	U	0.62	U	NS		0.58	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")	
TYPE or LOCATION:		Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
Volatile Organic Compounds - SW8260B (UG/KG)														
ACETONITRILE		NA			5	U	NS		NS		8		NS	
ACROLEIN		160,000	N		5	U	NS		NS		7		NS	
BENZYL BROMIDE		NA				R	NS		NS			R	NS	
BENZYL CHLORIDE		3,800	C			R	NS		NS			R	NS	
CARBON DISULFIDE		780,000	N		6		NS		NS		11		NS	
CARBON TETRACHLORIDE		4,900	C		1	U	NS		NS		1	U	NS	
CHLOROBENZENE		160,000	N		1	U	NS		NS		1	U	NS	
CHLOROFORM		78,000	N		1	U	NS		NS		3		NS	
CHLOROPICRIN		NA			26	UJ	NS		NS		31	U	NS	
VOC Tentatively Identified Compounds (UG/KG)														
ALCOHOL		NA				*	NS		NS			*	NS	
ALLYL ALCOHOL		NA				*	NS		NS			*	NS	
BENZYL IODIDE		NA				*	NS		NS			*	NS	
BROMOACETONE		780,000 ‡	N			*	NS		NS			*	NS	
BROMOBENZENE		NA				*	NS		NS			*	NS	
BROMOMETHYL ETHER		NA				*	NS		NS			*	NS	
BUTYL MERCAPTAN		NA				*	NS		NS			*	NS	
CHLORINATED ACETONE		NA				*	NS		NS			*	NS	
CHLORINATED CARBON DISULFIDE		780,000 ‡	N			*	NS		NS			*	NS	
CHLOROACETONE		780,000 ‡	N			*	NS		NS			*	NS	
CHLOROACETONITRILE		NA				*	NS		NS			*	NS	
CHLOROMETHYL ETHER		NA				*	NS		NS			*	NS	
CHLOROMETHYL ETHYL ETHER		NA				*	NS		NS			*	NS	
CROTONALDEHYDE		340	C			*	NS		NS			*	NS	
ETHYL BROMOACETATE		7,000,000 ‡	N			*	NS		NS			*	NS	
ETHYL CHLOROFORMATE		NA				*	NS		NS			*	NS	
ETHYL DIBROMOACETATE		7,000,000 ‡	N			*	NS		NS			*	NS	
ETHYL MERCAPTAN		NA				*	NS		NS			*	NS	
METHYL BROMOACETATE		NA				*	NS		NS			*	NS	
METHYL CHLOROACETATE		NA				*	NS		NS			*	NS	
METHYL CHLOROFORMATE		NA				*	NS		NS			*	NS	
METHYL CHLOROSULFONATE		NA				*	NS		NS			*	NS	
PERCHLOROMETHYLMERCAPTAN		NA				*	NS		NS			*	NS	
THIOPHENE		NA				*	NS		NS			*	NS	
TRICHLOROACETONITRILE		NA				*	NS		NS			*	NS	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")	
TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
Semivolatile Organic Compounds - SW8270C (UG/KG)													
HEXACHLOROETHANE	46,000	C		78	U	NS		NS		83	U	NS	
O-CHLORONITROBENZENE	26,000	C		78	U	NS		NS		83	U	NS	
PHENYL HYDRAZINE	NA			78	UJ	NS		NS		83	U	NS	
PHENYL ISOCYANATE	NA			78	U	NS		NS		83	U	NS	
PHENYL ISOTHIOCYANATE	NA			78	U	NS		NS		83	U	NS	
SVOC Tentatively Identified Compounds (UG/KG)													
BENZYL FLUORIDE	NA				*	NS		NS			*	NS	
BENZOTRICHLORIDE	NA				*	NS		NS			*	NS	
DIPHENYLCHLOROARSINE	NA				*	NS		NS			*	NS	
OLEIC ACID (CAS# 112-80-1)	NA				*	NS		NS		350	NJ	NS	
o-TOLYL ISOCYANIDE	NA				*	NS		NS			*	NS	
PHENYLDICHLOROARSINE	NA				*	NS		NS			*	NS	
PHENYL ISOCYANIDE	NA				*	NS		NS			*	NS	
ICP Inorganic Analyses - SW6010B (MG/KG)													
ALUMINUM	7,800	N	**25,798**	5970		1890		7670		7450		1850	
ARSENIC *(Indicator only)*	0.43	C	**12.64**	122	J	1.3	UJ	161	J	109	J	50.3	J
BARIUM *(Indicator only)*	**550**	N	298.28	61.5		88.2		45.6		60.5		19.1	
CADMIUM *(Indicator only)*	**7.8**	N	0.32	0.57	U	1.3	U	0.53	U	0.5	U	0.53	U
CALCIUM *(Indicator only)*	NA		**4,207**	1830		8660		1470		6050		3070	
IRON	2,300	N	**31,951**	23500		4180		33600		23300		7380	
LEAD *(Indicator only)*	**400** [‡]		329.76	35.2	K	4.6	K	21.2	K	24	K	7.8	K
MAGNESIUM	NA		**7,093**	1350		998		1020		1850		3590	
MANGANESE *(Indicator only)*	160	N	**1,251**	263	J	312	J	180	J	456	J	161	J
NICKEL *(Indicator only)*	**160**	N	40.12	16.7		4.5		9		9.9		66	
PHOSPHORUS	NA		NA	311		214		319		240		112	
POTASSIUM *(Indicator only)*	NA		**4,945**	631		687		709		766		224	
SELENIUM *(Indicator only)*	**39**	N	0.88	0.57	U	1.3	U	0.87		0.5	U	0.53	U
SILICON	NA		NA	1700		1040		1130		2440		665	
SODIUM	NA		**55.80**	56.5	U	138		52.7	U	68.7		146	
SULFUR	NA		NA	139		286		114		157		84	
TIN *(Indicator only)*	**4,700**	N	NA	2.5		5.2	U	2.4		2		2.1	U
TITANIUM *(Indicator only)*	**31,000**	N	NA	144		74.9		149		200		43.5	
ZINC	**2,300**	N	308.8	50.2		18.2		80.2		60.1		40.9	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(130,190)(0-6")		CDC-(140,160)		CDC-(140,160)(0-1")		CDC-(140,160)(0-6")		CDC-(150,140)(0-1")
TYPE or LOCATION:	Residential		Metals	High As Grid		Mulch		High As Grid		High As Grid		High As Grid
SAMPLE DEPTH:	RBC		Back-	0-6"		0-1"		0-1"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground\2	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)\1											
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)												
BROMIDE	NA			NS		NS		NS		1.16	U	NS
CHLORIDE	NA			NS		NS		NS		7.37		NS
FLUORIDE	NA			NS		NS		NS		6.47	L	NS
NITRATE-N	13,000	N		NS		NS		NS		1.16	U	NS
SULFATE	NA			NS		NS		NS		16	K	NS
Mustard Breakdown Products (UG/KG)												
1,4-DITHIANE *(Agent Breakdown Product only)*	78,000	N		NS		NS		NS		99	U	NS
1,4-OXATHIANE *(Agent Breakdown Product only)*	78,000	\3,N		NS		NS		NS		102	U	NS
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		NS		NS		NS		1069	U	NS
Lewisite Breakdown Products (UG/KG)												
TOTAL CVAA & CVAO *(Agent Breakdown Product only)*	890	\3,C		NS		NS		NS		10	U	NS
Other Parameters (MG/KG, unless otherwise indicated)												
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		NS		NS		NS		180	U	NS
ADAMSITE **	NA			NS		NS		NS		7.7	U	NS
AMMONIA-N	NA			NS		NS		NS		1.19	U	NS
CYANIDE *(Indicator only)*	160 ‡	N		NS		NS		NS		0.57	U	NS

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.

C = Carcinogen as listed on the USEPA RBC table.

NA = NOT AVAILABLE

NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)[1]											
Volatile Organic Compounds - SW8260B (UG/KG)												
ACETONITRILE	NA			9		6	U	8	U	7	J	NS
ACROLEIN	160,000	N		13		6	U	12		7	UJ	NS
BENZYL BROMIDE	NA				R	6	UJ		R		R	NS
BENZYL CHLORIDE	3,800	C			R	6	UJ		R		R	NS
CARBON DISULFIDE	780,000	N		14		7		31		15	J	NS
CARBON TETRACHLORIDE	4,900	C		2	U	1	U	2	U	1	UJ	NS
CHLOROBENZENE	160,000	N		2	UJ	1	U	2	UJ		R	NS
CHLOROFORM	78,000	N		2	U	1	U	2	U	1	UJ	NS
CHLOROPICRIN	NA			45	UJ	30	U	38	U	33	UJ	NS
VOC Tentatively Identified Compounds (UG/KG)												
ALCOHOL	NA				*		*		*		*	NS
ALLYL ALCOHOL	NA				*		*		*		*	NS
BENZYL IODIDE	NA				*		*		*		*	NS
BROMOACETONE	780,000 ‡	N			*		*		*		*	NS
BROMOBENZENE	NA				*		*		*		*	NS
BROMOMETHYL ETHER	NA				*		*		*		*	NS
BUTYL MERCAPTAN	NA				*		*		*		*	NS
CHLORINATED ACETONE	NA				*		*		*		*	NS
CHLORINATED CARBON DISULFIDE	780,000 ‡	N			*		*		*		*	NS
CHLOROACETONE	780,000 ‡	N			*		*		*		*	NS
CHLOROACETONITRILE	NA				*		*		*		*	NS
CHLOROMETHYL ETHER	NA				*		*		*		*	NS
CHLOROMETHYL ETHYL ETHER	NA				*		*		*		*	NS
CROTONALDEHYDE	340	C			*		*		*		*	NS
ETHYL BROMOACETATE	7,000,000 ‡	N			*		*		*		*	NS
ETHYL CHLOROFORMATE	NA				*		*		*		*	NS
ETHYL DIBROMOACETATE	7,000,000 ‡	N			*		*		*		*	NS
ETHYL MERCAPTAN	NA				*		*		*		*	NS
METHYL BROMOACETATE	NA				*		*		*		*	NS
METHYL CHLOROACETATE	NA				*		*		*		*	NS
METHYL CHLOROFORMATE	NA				*		*		*		*	NS
METHYL CHLOROSULFONATE	NA				*		*		*		*	NS
PERCHLOROMETHYLMERCAPTAN	NA				*		*		*		*	NS
THIOPHENE	NA				*		*		*		*	NS
TRICHLOROACETONITRILE	NA				*		*		*		*	NS

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]												
Semivolatile Organic Compounds - SW8270C (UG/KG)														
HEXACHLOROETHANE		46,000	C		120	U	86	U	93	U	95	U	NS	
O-CHLORONITROBENZENE		26,000	C		120	U	86	U	93	U	95	U	NS	
PHENYL HYDRAZINE		NA			120	UJ	86	UJ	93	UJ	95	UJ	NS	
PHENYL ISOCYANATE		NA			120	U	86	U	93	U	95	U	NS	
PHENYL ISOTHIOCYANATE		NA			120	U	86	U	93	U	95	U	NS	
SVOC Tentatively Identified Compounds (UG/KG)														
BENZYL FLUORIDE		NA				*		*		*		*	NS	
BENZOTRICHLORIDE		NA				*		*		*		*	NS	
DIPHENYLCHLOROARSINE		NA				*		*		*		*	NS	
OLEIC ACID (CAS# 112-80-1)		NA			1500	NJ		*	110	NJ		*	NS	
o-TOLYL ISOCYANIDE		NA				*		*		*		*	NS	
PHENYLDICHLOROARSINE		NA				*		*		*		*	NS	
PHENYL ISOCYANIDE		NA				*				*		*	NS	
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	2970		7420		7740		5560		2220	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	91.1	J	173	J	145	J	399	J	5.6	J
BARIUM *(Indicator only)*		**550**	N	298.28	49.6		58.9		76.9		64.9		97	
CADMIUM *(Indicator only)*		**7.8**	N	0.32	0.73	U	0.49	U	0.65	U	0.62	U	1	U
CALCIUM *(Indicator only)*		NA		**4,207**	2930		2450		3170		3390		8440	
IRON		2,300	N	**31,951**	11300		27400		22200		20200		4920	
LEAD *(Indicator only)*		**400** [‡]		329.76	16.4	K	28.2	K	43.4	K	37.4	K	6.1	K
MAGNESIUM		NA		**7,093**	2750		1630		1520		1600		1050	
MANGANESE *(Indicator only)*		160	N	**1,251**	205	J	271	J	435	J	270	J	338	J
NICKEL *(Indicator only)*		**160**	N	40.12	61.2		14.8		14.9		12.1		9.6	
PHOSPHORUS		NA		NA	273		391		466		384		252	
POTASSIUM *(Indicator only)*		NA		**4,945**	418		1180		647		942		944	
SELENIUM *(Indicator only)*		**39**	N	0.88	0.73	U	0.58		0.65	U	0.62	U	1	U
SILICON		NA		NA	967		1930		1820		1600		1060	
SODIUM		NA		**55.80**	73.5	U	49.1	U	64.7	U	61.8	U	190	
SULFUR		NA		NA	235		163		332		257		310	
TIN *(Indicator only)*		**4,700**	N	NA	2.9	U	2.6		4.1		2.9		4.2	U
TITANIUM *(Indicator only)*		**31,000**	N	NA	95.9		169		185		204		84.1	
ZINC		**2,300**	N	308.8	49.6		85.7		70.5		73.3		23	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(150,140)(0-6")		CDC-(150,150)(0-6")		CDC-(160,130)(0-6")		CDC-(160,140)(0-6")		CDC-(160,150)
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		High As Grid		Mulch
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-1"
SAMPLING DATE:	(adjusted		ground\2	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/21/2001
Analyses performed by Southwest Research Institute	downward)\1											
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)												
BROMIDE	NA			1.59	U	NS		NS		NS		NS
CHLORIDE	NA			4.48		NS		NS		NS		NS
FLUORIDE	NA			2.81	L	NS		NS		NS		NS
NITRATE-N	13,000	N		1.59	U	NS		NS		NS		NS
SULFATE	NA			6.9	K	NS		NS		NS		NS
Mustard Breakdown Products (UG/KG)												
1,4-DITHIANE *(Agent Breakdown Product only)*	78,000	N		137	U	NS		NS		NS		NS
1,4-OXATHIANE *(Agent Breakdown Product only)*	78,000	\3,N		140	U	NS		NS		NS		NS
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		732	J	NS		NS		NS		NS
Lewisite Breakdown Products (UG/KG)												
TOTAL CVAA & CVAO *(Agent Breakdown Product only)*	890	\3,C		14	U	NS		NS		NS		NS
Other Parameters (MG/KG, unless otherwise indicated)												
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	NS		NS		NS		NS
ADAMSITE **	NA			7.7	U	NS		NS		NS		NS
AMMONIA-N	NA			1.54	U	NS		NS		NS		NS
CYANIDE *(Indicator only)*	160 ‡	N		0.5	U	NS		NS		NS		NS

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[11]														
Volatile Organic Compounds - SW8260B (UG/KG)																
ACETONITRILE		NA			NS		10	J	7	U	5.4	U	33	J	6.1	U
ACROLEIN		160,000	N		NS		12		7	U	5.4	U	8.7	UJ	6.1	UJ
BENZYL BROMIDE		NA			NS			R		R		R		R		R
BENZYL CHLORIDE		3,800	C		NS			R		R		R		R		R
CARBON DISULFIDE		780,000	N		NS		12	J	10		9		32	J	10	
CARBON TETRACHLORIDE		4,900	C		NS		1	UJ	1	U	1.1	UJ	1.7	UJ	1.2	UJ
CHLOROBENZENE		160,000	N		NS			R		R		R		R		R
CHLOROFORM		78,000	N		NS		1	UJ	1	UJ	1.1	U	2	J	1.2	U
CHLOROPICRIN		NA			NS		35	UJ	33	U	27	U	44	UJ	30	U
VOC Tentatively Identified Compounds (UG/KG)																
ALCOHOL		NA			NS			*		*		*		*		*
ALLYL ALCOHOL		NA			NS			*		*		*		*		*
BENZYL IODIDE		NA			NS			*		*		*		*		*
BROMOACETONE		780,000 ‡	N		NS			*		*		*		*		*
BROMOBENZENE		NA			NS			*		*		*		*		*
BROMOMETHYL ETHER		NA			NS			*		*		*		*		*
BUTYL MERCAPTAN		NA			NS			*		*		*		*		*
CHLORINATED ACETONE		NA			NS			*		*		*		*		*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N		NS			*		*		*		*		*
CHLOROACETONE		780,000 ‡	N		NS			*		*		*		*		*
CHLOROACETONITRILE		NA			NS			*		*		*		*		*
CHLOROMETHYL ETHER		NA			NS			*		*		*		*		*
CHLOROMETHYL ETHYL ETHER		NA			NS			*		*		*		*		*
CROTONALDEHYDE		340	C		NS			*		*		*		*		*
ETHYL BROMOACETATE		7,000,000 ‡	N		NS			*		*		*		*		*
ETHYL CHLOROFORMATE		NA			NS			*		*		*		*		*
ETHYL DIBROMOACETATE		7,000,000 ‡	N		NS			*		*		*		*		*
ETHYL MERCAPTAN		NA			NS			*		*		*		*		*
METHYL BROMOACETATE		NA			NS			*		*		*		*		*
METHYL CHLOROACETATE		NA			NS			*		*		*		*		*
METHYL CHLOROFORMATE		NA			NS			*		*		*		*		*
METHYL CHLOROSULFONATE		NA			NS			*		*		*		*		*
PERCHLOROMETHYLMERCAPTAN		NA			NS			*		*		*		*		*
THIOPHENE		NA			NS			*		*		*		*		*
TRICHLOROACETONITRILE		NA			NS			*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:		REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[12]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[11]														
Semivolatile Organic Compounds - SW8270C (UG/KG)																
HEXACHLOROETHANE		46,000	C		NS		91	U	93	U	80	U	160	U	85	U
O-CHLORONITROBENZENE		26,000	C		NS		91	U	93	U	80	U	160	U	85	U
PHENYL HYDRAZINE		NA			NS		91	U	93	UJ	80	U	160	U	85	U
PHENYL ISOCYANATE		NA			NS		91	U	93	U	80	U	160	U	85	U
PHENYL ISOTHIOCYANATE		NA			NS		91	U	93	U	80	U	160	U	85	U
SVOC Tentatively Identified Compounds (UG/KG)																
BENZYL FLUORIDE		NA			NS			*		*		*		*		*
BENZOTRICHLORIDE		NA			NS			*		*		*		*		*
DIPHENYLCHLOROARSINE		NA			NS			*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)		NA			NS		18000	NJ		*		*		*		*
o-TOLYL ISOCYANIDE		NA			NS			*		*		*		*		*
PHENYLDICHLOROARSINE		NA			NS			*		*		*		*		*
PHENYL ISOCYANIDE		NA			NS			*		*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)																
ALUMINUM		7,800	N	**25,798**	5640		6730		5710		6580		5370		9360	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	147	J	240	J	159	J	5	J	55.2	J	7.3	J
BARIUM *(Indicator only)*		**550**	N	298.28	54		62.5		50.9		38.8	J	112	J	44.8	J
CADMIUM *(Indicator only)*		**7.8**	N	0.32	0.63	U	0.55	U	0.64	U	0.5	U	0.57	U	0.6	U
CALCIUM *(Indicator only)*		NA		**4,207**	2610		3650		2140		805		6980		1510	
IRON		2,300	N	**31,951**	19100		27300		18600		28600	J	14500	J	23400	J
LEAD *(Indicator only)*		**400** ‡		329.76	30.7	K	31.2	K	36.7	K	41.6	K	46.7	J	47.2	J
MAGNESIUM		NA		**7,093**	1390		1540		1480		665		3290		1120	
MANGANESE *(Indicator only)*		160	N	**1,251**	266	J	246	J	202	J	136	J	482	J	204	J
NICKEL *(Indicator only)*		**160**	N	40.12	9.7		11.4		10.2		8.1		47.9		10.5	
PHOSPHORUS		NA		NA	320		380		323		260		414		434	
POTASSIUM *(Indicator only)*		NA		**4,945**	814		886		897		371		809		785	
SELENIUM *(Indicator only)*		**39**	N	0.88	0.63	U	0.55	U	0.64	U	0.98		1.4		1.2	
SILICON		NA		NA	1650		1790		1700		1700		1630		2290	
SODIUM		NA		**55.80**	63	U	55.3	U	63.6	U	49.9	U	57.2	U	59.7	U
SULFUR		NA		NA	197		217		179		214	L	420	L	345	L
TIN *(Indicator only)*		**4,700**	N	NA	2.8		2.9		3.6		4.2		3.2		4.1	
TITANIUM *(Indicator only)*		**31,000**	N	NA	190		193		203		173		136		244	
ZINC		**2,300**	N	308.8	59.8		60.6		71.1		41		76.6		48	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(160,150)(0-1")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")		AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(130,120)(0-6")
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid
SAMPLE DEPTH:	RBC		Back-	0-1"		0-6"		0-6"		0-6"		0-6"		0-6"
SAMPLING DATE:	(adjusted		ground[\2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001		2/22/2001		2/22/2001
Analyses performed by Southwest Research Institute	downward)[\1]													
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)														
BROMIDE	NA			NS		1.37	U	1.44	U	1.23	U	1.22	U	NS
CHLORIDE	NA			NS		8.64		5.48		2.59		30.6		NS
FLUORIDE	NA			NS		6.95	L	7.13	L	1.94	L	7.74	L	NS
NITRATE-N	13,000	N		NS		1.37	U	1.44	U	18.9		4.82		NS
SULFATE	NA			NS		6.96	K	7.68	K	14.4	K	36.8	K	NS
Mustard Breakdown Products (UG/KG)														
1,4-DITHIANE *(Agent Breakdown Product only)*	78,000	N		NS		110	U	111	U	98	U	94	U	NS
1,4-OXATHIANE *(Agent Breakdown Product only)*	78,000	\3,N		NS		113	U	114	U	100	U	96	U	NS
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		NS		313	J	445	J	235	J	463	J	NS
Lewisite Breakdown Products (UG/KG)														
TOTAL CVAA & CVAO *(Agent Breakdown Product only)*	890	\3,C		NS		11	U	11	U	10	U	10	U	NS
Other Parameters (MG/KG, unless otherwise indicated)														
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		NS		180	U	180	U	180	U	180	U	NS
ADAMSITE **	NA			NS		7.7	U	7.7	U		**	7.7	U	NS
AMMONIA-N	NA			NS		1.33	U	1.37	U	1.23	U	1.17	U	NS
CYANIDE *(Indicator only)*	160 ‡	N		NS		0.66	U	0.72	U	0.58	U	0.58	U	NS

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:	Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
Volatile Organic Compounds - SW8260B (UG/KG)													
ACETONITRILE	NA			8		5.9	U	4.1	U	5.1	U	6	U
ACROLEIN	160,000	N		6	U	7		4.1	U	5.1	U	6	U
BENZYL BROMIDE	NA				R		R		R		R		R
BENZYL CHLORIDE	3,800	C			R		R		R		R		R
CARBON DISULFIDE	780,000	N		22		11		11		17		9	
CARBON TETRACHLORIDE	4,900	C		1.2	UJ	1.2	UJ	0.82	UJ	1	U	1.2	U
CHLOROBENZENE	160,000	N			R		R		R		R	1.2	UJ
CHLOROFORM	78,000	N		1.2	U	1.2	U	0.82	U	1	U	1.2	U
CHLOROPICRIN	NA			30	U	30	U	21	U	25	U	30	U
VOC Tentatively Identified Compounds (UG/KG)													
ALCOHOL	NA				*		*		*		*		*
ALLYL ALCOHOL	NA				*		*		*		*		*
BENZYL IODIDE	NA				*		*		*		*		*
BROMOACETONE	780,000 ‡	N			*		*		*		*		*
BROMOBENZENE	NA				*		*		*		*		*
BROMOMETHYL ETHER	NA				*		*		*		*		*
BUTYL MERCAPTAN	NA				*		*		*		*		*
CHLORINATED ACETONE	NA				*		*		*		*		*
CHLORINATED CARBON DISULFIDE	780,000 ‡	N			*		*		*		*		*
CHLOROACETONE	780,000 ‡	N			*		*		*		*		*
CHLOROACETONITRILE	NA				*		*		*		*		*
CHLOROMETHYL ETHER	NA				*		*		*		*		*
CHLOROMETHYL ETHYL ETHER	NA				*		*		*		*		*
CROTONALDEHYDE	340	C			*		*		*		*		*
ETHYL BROMOACETATE	7,000,000 ‡	N			*		*		*		*		*
ETHYL CHLOROFORMATE	NA				*		*		*		*		*
ETHYL DIBROMOACETATE	7,000,000 ‡	N			*		*		*		*		*
ETHYL MERCAPTAN	NA				*		*		*		*		*
METHYL BROMOACETATE	NA				*		*		*		*		*
METHYL CHLOROACETATE	NA				*		*		*		*		*
METHYL CHLOROFORMATE	NA				*		*		*		*		*
METHYL CHLOROSULFONATE	NA				*		*		*		*		*
PERCHLOROMETHYLMERCAPTAN	NA				*		*		*		*		*
THIOPHENE	NA				*		*		*		*		*
TRICHLOROACETONITRILE	NA				*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:	Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]												
Semivolatile Organic Compounds - SW8270C (UG/KG)													
HEXACHLOROETHANE	46,000	C		84	U	86	U	68	U	80	U	79	U
O-CHLORONITROBENZENE	26,000	C		84	U	86	U	68	U	80	U	79	U
PHENYL HYDRAZINE	NA			84	U	86	U	68	U	80	U	79	U
PHENYL ISOCYANATE	NA			84	U	86	U	68	U	80	U	79	U
PHENYL ISOTHIOCYANATE	NA			84	U	86	U	68	U	80	U	79	U
SVOC Tentatively Identified Compounds (UG/KG)													
BENZYL FLUORIDE	NA				*		*		*		*		*
BENZOTRICHLORIDE	NA				*		*		*		*		*
DIPHENYLCHLOROARSINE	NA				*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)	NA				*		*		*		*		*
o-TOLYL ISOCYANIDE	NA				*		*		*		*		*
PHENYLDICHLOROARSINE	NA				*		*		*		*		*
PHENYL ISOCYANIDE	NA				*		*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)													
ALUMINUM	7,800	N	**25,798**	4870		12600		6070		2980		6110	
ARSENIC *(Indicator only)*	0.43	C	**12.64**	104	J	35.6	J	4.8	J	3.3	J	6.1	J
BARIUM *(Indicator only)*	**550**	N	298.28	65.9	J	77.8	J	47.8	J	20.5	J	19.5	J
CADMIUM *(Indicator only)*	**7.8**	N	0.32	0.56	U	0.52	U	0.5	U	0.57	U	0.43	U
CALCIUM *(Indicator only)*	NA		**4,207**	4230		1700		715		8060		1030	
IRON	2,300	N	**31,951**	15000	J	34000	J	26100	J	7530	J	23800	J
LEAD *(Indicator only)*	**400** ‡		329.76	25.8	J	31.7	J	64.3	J	5.1	J	13.3	J
MAGNESIUM	NA		**7,093**	5910		2590		868		20500		1520	
MANGANESE *(Indicator only)*	160	N	**1,251**	323	J	247	J	287	J	298	J	98.4	J
NICKEL *(Indicator only)*	**160**	N	40.12	75.4		11.7		6.7		345		7.3	
PHOSPHORUS	NA		NA	392		527		374		194		678	
POTASSIUM *(Indicator only)*	NA		**4,945**	585		1990		450		172		3260	
SELENIUM *(Indicator only)*	**39**	N	0.88	0.62		1.3		1.2		0.69		0.92	
SILICON	NA		NA	1880		2970		1430		1370		1660	
SODIUM	NA		**55.80**	55.7	U	52.1	U	50.1	U	56.6	U	43	U
SULFUR	NA		NA	327	L	410	L	273	L	256	L	149	L
TIN *(Indicator only)*	**4,700**	N	NA	3.2		2.9		3.6		2.3	U	1.9	
TITANIUM *(Indicator only)*	**31,000**	N	NA	116		340		139		50.4		110	
ZINC	**2,300**	N	308.8	72.8		65		38.7		18.3		46.6	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

SAMPLE ID:	REGION III			CDC-(170,140)(0-6")		CDC-(220,150)(0-6")		CDC-(70,190)(0-6")		CDC-(80,170)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:	Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground\2	2/22/2001		2/22/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)\1												
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)													
BROMIDE	NA			NS		NS		1.15	U	NS		1.17	U
CHLORIDE	NA			NS		NS		4.18		NS		5.78	
FLUORIDE	NA			NS		NS		2.07	L	NS		2.7	L
NITRATE-N	13,000	N		NS		NS		18.3		NS		13.5	
SULFATE	NA			NS		NS		48	K	NS		73.4	K
Mustard Breakdown Products (UG/KG)													
1,4-DITHIANE *(Agent Breakdown Product only)*	78,000	N		NS		NS		81	U	NS		99	U
1,4-OXATHIANE *(Agent Breakdown Product only)*	78,000	\3,N		NS		NS		83	U	NS		102	U
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		NS		NS		352	J	NS		300	J
Lewisite Breakdown Products (UG/KG)													
TOTAL CVAA & CVAO *(Agent Breakdown Product only)*	890	\3,C		NS		NS		8.3	U	NS		10	U
Other Parameters (MG/KG, unless otherwise indicated)													
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		NS		NS		180	U	NS		180	U
ADAMSITE **	NA			NS		NS			**	NS			**
AMMONIA-N	NA			NS		NS		1.22	U	NS		1.16	U
CYANIDE *(Indicator only)*	160 ‡	N		NS		NS		0.6		NS		0.57	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

Table 2A

AUES List Detections for AU 12/CDC Samples (Includes Indicator and Agent Breakdown Compounds)

Of the 32 total samples, only the 16 samples that were analyzed for the full AUES List are shown on this table

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

SAMPLE ID:		REGION III			CDC-SB-A(4')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:		Residential		Metals	(130,190)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	3-4'		3-4'		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]										
Volatile Organic Compounds - SW8260B (UG/KG)												
ACETONITRILE		NA			5.8	U	5.6	UJ	6	U	9	
ACROLEIN		160,000	N		5.8	U	5.6	UJ	7		6	U
CARBON DISULFIDE		780,000	N		12		11	J	9		9	
CHLOROFORM		78,000	N		1.2	U	1.1	UJ	1	U	1	U
SVOC Tentatively Identified Compounds (UG/KG)												
OLEIC ACID (CAS# 112-80-1)		NA				*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)												
ALUMINUM		7,800	N	**25,798**	9060		8380		7040		9160	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	11.4	J	3.1	J	198	J	27.1	J
BARIUM *(Indicator only)*		**550**	N	298.28	6.6	J	13.3	J	36.1		78.4	
CALCIUM *(Indicator only)*		NA		**4,207**	421		855		1060		1920	
IRON		2,300	N	**31,951**	26700	J	27300	J	41700		20200	
LEAD *(Indicator only)*		**400** [‡]		329.76	6.6	J	10.4	J	29.4	K	25.6	K
MAGNESIUM		NA		**7,093**	389		253		922		3940	
MANGANESE *(Indicator only)*		160	N	**1,251**	26.1	J	33.2	J	311	J	274	J
NICKEL *(Indicator only)*		**160**	N	40.12	1.3		3.8		8.6		16.6	
PHOSPHORUS		NA		NA	145		157		488		358	
POTASSIUM *(Indicator only)*		NA		**4,945**	363		259		1180		2690	
SELENIUM *(Indicator only)*		**39**	N	0.88	1.2		0.58	U	0.81		0.59	U
SILICON		NA		NA	2670		1940		2130		2560	
SODIUM		NA		**55.80**	58.9	U	57.7	U	60.6	U	58.5	U
SULFUR		NA		NA	284	L	60.2	L	228		195	
TIN *(Indicator only)*		**4,700**	N	NA	2.4		2.7		5.5		2.3	U
TITANIUM *(Indicator only)*		**31,000**	N	NA	72		119		150		483	
ZINC		**2,300**	N	308.8	7		10.7		57.4		61.9	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

SAMPLE ID:	REGION III			CDC-SB-A(4')		CDC-SB-B(4')		AU12-(180,200)(0-6")		AU12-(180,220)(0-6")	
TYPE or LOCATION:	Residential		Metals	(130,190)		(140,120)		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	3-4'		3-4'		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground\2	2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)\1										
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)											
CHLORIDE	NA			24.8		1.15	U	10.1		3.56	
FLUORIDE	NA				R		R	2.04	L	3.68	L
NITRATE-N	13,000	N		1.21	U	1.15	U	6.16		4.05	
SULFATE	NA			141	K	15.3	K	19.3	K	7.39	K
Mustard Breakdown Products (UG/KG)											
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		1147	U	1018	U	280	J	300	J
Other Parameters (MG/KG, unless otherwise indicated)											
AMMONIA-N	NA			1.18	U	1.17	U	1.18	U	1.36	U
CYANIDE *(Indicator only)*	160 ‡	N		0.61	U	0.57	U	0.61	U	0.66	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]										
Volatile Organic Compounds - SW8260B (UG/KG)												
ACETONITRILE		NA			5	U	6	U	6	U	6	U
ACROLEIN		160,000	N		5	U	6	U	6	U	6	U
CARBON DISULFIDE		780,000	N		7		8		11		6	
CHLOROFORM		78,000	N		1	U	1	U	1	UJ	1	UJ
SVOC Tentatively Identified Compounds (UG/KG)												
OLEIC ACID (CAS# 112-80-1)		NA				*	1800	NJ		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)												
ALUMINUM		7,800	N	**25,798**	9480		7140		13000		7430	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	81.8	J	210	J	31.3	J	8.9	J
BARIUM *(Indicator only)*		**550**	N	298.28	67.6		37.7		76.3		38.5	
CALCIUM *(Indicator only)*		NA		**4,207**	1230		667		4620		4790	
IRON		2,300	N	**31,951**	29500		33300		32700		23600	
LEAD *(Indicator only)*		**400** [‡]		329.76	14.7	K	17.6	K	26.5	K	34	K
MAGNESIUM		NA		**7,093**	2770		908		5700		2770	
MANGANESE *(Indicator only)*		160	N	**1,251**	288	J	303	J	392	J	104	J
NICKEL *(Indicator only)*		**160**	N	40.12	12.3		7.6		24.8		15.5	
PHOSPHORUS		NA		NA	417		353		514		218	
POTASSIUM *(Indicator only)*		NA		**4,945**	2520		743		2560		514	
SELENIUM *(Indicator only)*		**39**	N	0.88	0.5	U	0.7		0.72		0.55	U
SILICON		NA		NA	2400		1610		2360		1890	
SODIUM		NA		**55.80**	49.8	U	57.1	U	52	U	55.3	U
SULFUR		NA		NA	154		150		236		113	
TIN *(Indicator only)*		**4,700**	N	NA	2	U	2.3	U	2.3		5.7	
TITANIUM *(Indicator only)*		**31,000**	N	NA	296		176		423		187	
ZINC		**2,300**	N	308.8	43.2		31.3		69.4		36.3	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

SAMPLE ID:		REGION III			AU12-(200,180)(0-6")		AU12-(200,200)(0-6")		AU12-(240,180)(0-6")		CDC-(130,140)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		Random As Grid		High As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[\2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[\1]										
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)												
CHLORIDE		NA			6.13		7.74		6.93		4.64	
FLUORIDE		NA			2.46	L	2.4	L	4.43	L	6.7	L
NITRATE-N		13,000	N		3.12		1.18	U	9.73		1.26	U
SULFATE		NA			14	K	30	K	8.22	L	4.94	K
Mustard Breakdown Products (UG/KG)												
THIODIGLYCOL *(Agent Breakdown Product only)*		39,100	\3,N		1039	U	1095	U	1187	U	257	J
Other Parameters (MG/KG, unless otherwise indicated)												
AMMONIA-N		NA			1.19	U	2.47		1.36	U	1.21	U
CYANIDE *(Indicator only)*		160 ‡	N		0.58	U	0.51	U	0.62	U	0.58	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

SAMPLE ID:		REGION III			CDC-(140,160)(0-6")		CDC-(150,140)(0-6")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")	
TYPE or LOCATION:		Residential		Metals	High As Grid		High As Grid		High As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[2]	2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute		downward)[1]										
Volatile Organic Compounds - SW8260B (UG/KG)												
ACETONITRILE		NA			8		9		10	J	7	U
ACROLEIN		160,000	N		7		13		12		7	U
CARBON DISULFIDE		780,000	N		11		14		12	J	10	
CHLOROFORM		78,000	N		3		2	U	1	UJ	1	UJ
SVOC Tentatively Identified Compounds (UG/KG)												
OLEIC ACID (CAS# 112-80-1)		NA			350	NJ	1500	NJ	18000	NJ		*
ICP Inorganic Analyses - SW6010B (MG/KG)												
ALUMINUM		7,800	N	**25,798**	7450		2970		6730		5710	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	109	J	91.1	J	240	J	159	J
BARIUM *(Indicator only)*		**550**	N	298.28	60.5		49.6		62.5		50.9	
CALCIUM *(Indicator only)*		NA		**4,207**	6050		2930		3650		2140	
IRON		2,300	N	**31,951**	23300		11300		27300		18600	
LEAD *(Indicator only)*		**400** [‡]		329.76	24	K	16.4	K	31.2	K	36.7	K
MAGNESIUM		NA		**7,093**	1850		2750		1540		1480	
MANGANESE *(Indicator only)*		160	N	**1,251**	456	J	205	J	246	J	202	J
NICKEL *(Indicator only)*		**160**	N	40.12	9.9		61.2		11.4		10.2	
PHOSPHORUS		NA		NA	240		273		380		323	
POTASSIUM *(Indicator only)*		NA		**4,945**	766		418		886		897	
SELENIUM *(Indicator only)*		**39**	N	0.88	0.5	U	0.73	U	0.55	U	0.64	U
SILICON		NA		NA	2440		967		1790		1700	
SODIUM		NA		**55.80**	68.7		73.5	U	55.3	U	63.6	U
SULFUR		NA		NA	157		235		217		179	
TIN *(Indicator only)*		**4,700**	N	NA	2		2.9	U	2.9		3.6	
TITANIUM *(Indicator only)*		**31,000**	N	NA	200		95.9		193		203	
ZINC		**2,300**	N	308.8	60.1		49.6		60.6		71.1	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

SAMPLE ID:	REGION III			CDC-(140,160)(0-6")		CDC-(150,140)(0-6")		CDC-(160,150)(0-6")		CDC-(170,150)(0-6")	
TYPE or LOCATION:	Residential		Metals	High As Grid		High As Grid		High As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground\2	2/21/2001		2/21/2001		2/21/2001		2/21/2001	
Analyses performed by Southwest Research Institute	downward)\1										
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)											
CHLORIDE	NA			7.37		4.48		8.64		5.48	
FLUORIDE	NA			6.47	L	2.81	L	6.95	L	7.13	L
NITRATE-N	13,000	N		1.16	U	1.59	U	1.37	U	1.44	U
SULFATE	NA			16	K	6.9	K	6.96	K	7.68	K
Mustard Breakdown Products (UG/KG)											
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		1069	U	732	J	313	J	445	J
Other Parameters (MG/KG, unless otherwise indicated)											
AMMONIA-N	NA			1.19	U	1.54	U	1.33	U	1.37	U
CYANIDE *(Indicator only)*	160 ‡	N		0.57	U	0.5	U	0.66	U	0.72	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table.

(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.

C = Carcinogen as listed on the USEPA RBC table.

NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

SAMPLE ID:	REGION III			AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(70,190)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:	Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:	RBC		Back-	0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:	(adjusted		ground[2]	2/21/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute	downward)[1]										
Volatile Organic Compounds - SW8260B (UG/KG)											
ACETONITRILE	NA			5.4	U	33	J	4.1	U	6	U
ACROLEIN	160,000	N		5.4	U	8.7	UJ	4.1	U	6	U
CARBON DISULFIDE	780,000	N		9		32	J	11		9	
CHLOROFORM	78,000	N		1.1	U	2	J	0.82	U	1.2	U
SVOC Tentatively Identified Compounds (UG/KG)											
OLEIC ACID (CAS# 112-80-1)	NA				*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)											
ALUMINUM	7,800	N	**25,798**	6580		5370		6070		6110	
ARSENIC *(Indicator only)*	0.43	C	**12.64**	5	J	55.2	J	4.8	J	6.1	J
BARIUM *(Indicator only)*	**550**	N	298.28	38.8	J	112	J	47.8	J	19.5	J
CALCIUM *(Indicator only)*	NA		**4,207**	805		6980		715		1030	
IRON	2,300	N	**31,951**	28600	J	14500	J	26100	J	23800	J
LEAD *(Indicator only)*	**400** ‡		329.76	41.6	K	46.7	J	64.3	J	13.3	J
MAGNESIUM	NA		**7,093**	665		3290		868		1520	
MANGANESE *(Indicator only)*	160	N	**1,251**	136	J	482	J	287	J	98.4	J
NICKEL *(Indicator only)*	**160**	N	40.12	8.1		47.9		6.7		7.3	
PHOSPHORUS	NA		NA	260		414		374		678	
POTASSIUM *(Indicator only)*	NA		**4,945**	371		809		450		3260	
SELENIUM *(Indicator only)*	**39**	N	0.88	0.98		1.4		1.2		0.92	
SILICON	NA		NA	1700		1630		1430		1660	
SODIUM	NA		**55.80**	49.9	U	57.2	U	50.1	U	43	U
SULFUR	NA		NA	214	L	420	L	273	L	149	L
TIN *(Indicator only)*	**4,700**	N	NA	4.2		3.2		3.6		1.9	
TITANIUM *(Indicator only)*	**31,000**	N	NA	173		136		139		110	
ZINC	**2,300**	N	308.8	41		76.6		38.7		46.6	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

SAMPLE ID:		REGION III			AU12-(160,100)(0-6")		CDC-(120,170)(0-6")		CDC-(70,190)(0-6")		CDC-(80,210)(0-6")	
TYPE or LOCATION:		Residential		Metals	Random As Grid		Random As Grid		Random As Grid		Random As Grid	
SAMPLE DEPTH:		RBC		Back-	0-6"		0-6"		0-6"		0-6"	
SAMPLING DATE:		(adjusted		ground[\2]	2/21/2001		2/22/2001		2/22/2001		2/22/2001	
Analyses performed by Southwest Research Institute		downward)[\1]										
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)												
CHLORIDE		NA			2.59		30.6		4.18		5.78	
FLUORIDE		NA			1.94	L	7.74	L	2.07	L	2.7	L
NITRATE-N		13,000	N		18.9		4.82		18.3		13.5	
SULFATE		NA			14.4	K	36.8	K	48	K	73.4	K
Mustard Breakdown Products (UG/KG)												
THIODIGLYCOL *(Agent Breakdown Product only)*		39,100	\3,N		235	J	463	J	352	J	300	J
Other Parameters (MG/KG, unless otherwise indicated)												
AMMONIA-N		NA			1.23	U	1.17	U	1.22	U	1.16	U
CYANIDE *(Indicator only)*		160 ‡	N		0.58	U	0.58	U	0.6		0.57	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. These values were calculated for that investigation.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.

C = Carcinogen as listed on the USEPA RBC table.

NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

Table 3

AUES List Scan Results for AU 12/CDC Samples

Of the 32 total samples, only the 16 samples that were analyzed for the full AUES List are shown on this table

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

Analyses performed by Southwest Research Institute			**CDC-SB-A(4') (130, 190)**	**CDC-SB-B(4') (140, 120)**	**AU12-(180,200)(0-6")**	**AU12-(180,220)(0-6")**
COMPOUND	CAS No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
	Chemical Abstract Service No.					
Acetyl Fluoride	557-99-3	*fluoride*	NO	NO	YES	YES
Allyl Isocyanide		*cyanide*	NO	NO	NO	NO
Allyl Isothiocyanate	57-06-7	*cyanide*	NO	NO	NO	NO
Aluminium Selenide	1302-82-5	*aluminium, selenium*	YES	NO	YES	NO
Ammonium Chloride	12125-02-09	*chloride, ammonia*	NO	NO	NO	NO
Ammonium Cyanide		*ammonia, cyanide*	NO	NO	NO	NO
Ammonium Nitrate	6484-52-2	*nitrate, ammonia*	NO	NO	NO	NO
Ammonium Picrate	131-74-8	*ammonia*	NO	NO	NO	NO
Arsenic Trichloride	7784-34-1	*chloride, arsenic**	YES	NO	YES	YES
Arsenic Trifluoride	7784-35-2	*fluoride, arsenic**	NO	NO	YES	YES
Arsenic Trioxide	1327-53-3	*arsenic**	YES	YES	YES	YES
Arsine	7784-42-1	*arsenic**	YES	YES	YES	YES
Barium Peroxide	1304-29-6	*barium*	YES	YES	YES	YES
Bromine	7726-95-6	*bromide*	NO	NO	NO	NO
Bromoketone	593-95-3	*bromide*	NO	NO	NO	NO
Bromoacetyl Bromide	598-21-0	*bromide*	NO	NO	NO	NO
Bromobenzyl Cyanide	5798-79-8	*bromide, cyanide*	NO	NO	NO	NO
Bromoxylyl Cyanide		*bromide, cyanide*	NO	NO	NO	NO
Cacodyl	144-21-8	*sodium*, arsenic**	NO	NO	NO	NO
Cacodyl Bromide		*bromide*	NO	NO	NO	NO
Cacodyl Chloride		*chloride*	YES	NO	YES	YES
Cacodyl Cyanide		*cyanide*	NO	NO	NO	NO
Cadmium Methyl		*cadmium*	NO	NO	NO	NO
Calcium Carbonate	471-34-1	*calcium**	YES	YES	YES	YES
Calcium Sulfate	7778-18-9	*sulfate, calcium**	YES	YES	YES	YES
Chlorine	7782-50-5	*chloride*	YES	NO	YES	YES
Cyanogen	460-19-5	*cyanide*	NO	NO	NO	NO
Cyanogen Bromide	506-68-3	*bromide, cyanide*	NO	NO	NO	NO
Cyanogen Chloride	506-77-4	*chloride, cyanide*	NO	NO	NO	NO
Dichloromethyl Ether	542-88-1	*chloride*	YES	NO	YES	YES
Dichloromethyl Sulfide		*chloride, sulfur*	YES	NO	YES	YES
Dichloropropyl Sulfide		*chloride, sulfur*	YES	NO	YES	YES
Dimethylarsine	593-57-7	*arsenic**	YES	YES	YES	YES
Ethyl Sulfide	352-93-2	*sulfur*	YES	YES	YES	YES
Hydrochloric Acid	7647-01-0	*chloride*	YES	NO	YES	YES
Hydrocyanic Acid	74-90-8	*cyanide*	NO	NO	NO	NO
Hydrofluoric Acid	7664-39-3	*fluoride*	NO	NO	YES	YES
Hydrogen Selenide	7/5/7783	*selenium*	YES	NO	YES	NO
Lead Ferrocyanide		*lead, iron, cyanide*	NO	NO	NO	NO
Lead Peroxide	1309-60-0	*lead*	YES	YES	YES	YES
Lead Thiocyanate	592-87-0	*lead, cyanide*	NO	NO	NO	NO
Magnesium Arsenide		*magnesium, arsenic**	YES	YES	YES	YES
Magnesium Carbonate	546-93-0	*magnesium*	YES	YES	YES	YES

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

Analyses performed by Southwest Research Institute			**CDC-SB-A(4') (130, 190)**	**CDC-SB-B(4') (140, 120)**	**AU12-(180,200)(0-6")**	**AU12-(180,220)(0-6")**
COMPOUND	CAS No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
	Chemical Abstract Service No.					
Magnesium Oxide	1309-48-4	*magnesium*	YES	YES	YES	YES
Methyl Chloroarsine		*chloride, arsenic**	YES	NO	YES	YES
Methyl Isocyanide	593-75-9	*cyanide*	NO	NO	NO	NO
Methyl Selenide	593-79-3	*selenium*	YES	NO	YES	NO
Nickel Carbonyl	13463-39-3	*nickel*	YES	YES	YES	YES
Oxalyl Chloride	79-37-8	*chloride*	YES	NO	YES	YES
Phenylcarbylamine Chloride	622-44-6	*chloride*	YES	NO	YES	YES
Phosgene	75-44-5	*chloride*	YES	NO	YES	YES
Potassium Chlorate	3811-04-9	*chloride, potassium*	YES	NO	YES	YES
Potassium Nitrate	7757-79-1	*nitrate, potassium*	NO	NO	YES	YES
Potassium Perchlorate	7778-74-7	*potassium*	YES	YES	YES	YES
Potassium Permanganate	7722-64-7	*manganese, potassium*	YES	YES	YES	YES
Silicon	7440-21-3	*silicon*	YES	YES	YES	YES
Silicon Tetrachloride	409-21-2	*chloride, silicon*	YES	NO	YES	YES
Sodium Bicarbonate	144-55-8	*sodium**	NO	NO	NO	NO
Sodium Chlorate	7775-09-9	*chloride, sodium**	NO	NO	NO	NO
Sodium Cyanide	143-33-9	*sodium, cyanide*	NO	NO	NO	NO
Sodium Hydroxide	1310-73-2	*sodium**	NO	NO	NO	NO
Sodium Nitrate	7631-99-4	*nitrate, sodium*	NO	NO	NO	NO
Sodium Oleate	143-19-1	*sodium**	NO	NO	NO	NO
Sodium Silicate	6834-92-0	*sodium*, silicon*	NO	NO	NO	NO
Sodium Stearate	822-16-2	*sodium**	NO	NO	NO	NO
Stannic Chloride (Tin Tetrachloride)	7646-78-8	*chloride, tin*	YES	NO	YES	NO
Sulfur Chloride	10025-67-9	*chloride, sulfur*	YES	NO	YES	YES
Sulfur Trioxide	7446-11-9	*sulfur*	YES	YES	YES	YES
Sulfuryl Chloride	7791-25-5	*chloride, sulfur*	YES	NO	YES	YES
Tetrachloromethyl Sulfide		*chloride, sulfur*	YES	NO	YES	YES
Thermite		*aluminum, iron**	YES	YES	YES	YES
Thiophosgene	463-71-8	*chloride, sulfur*	YES	NO	YES	YES
Titanium Tetrachloride	7550-45-0	*chloride, titanium*	YES	NO	YES	YES
Trichloroacetyl Chloride	76-02-8	*chloride*	YES	NO	YES	YES
Trichloroacetyl Cyanide		*chloride, cyanide*	NO	NO	NO	NO
Trichlorohydrin	96-18-4	*chloride*	YES	NO	YES	YES
Xylyl Bromide	35884-77-6	*bromide*	NO	NO	NO	NO
Zinc Chloride mixture	7646-85-7	*chloride, zinc*	YES	NO	YES	YES
Zinc Oxide	1314-13-2	*zinc*	YES	YES	YES	YES

YES — **Presence of this compound cannot be ruled out.**

NO — **Presence of this compound not indicated.**

Shading indicates an exceedance of the RBC or the background of at least one of the indicator compounds if all were detected. The asterisk shows which indicator compound exceeded.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

Analyses performed by Southwest Research Institute			**AU12-(200,180)(0-6")**	**AU12-(200,200)(0-6")**	**AU12-(240,180)(0-6")**	**CDC-(130,140)(0-6")**
COMPOUND	CAS No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
	Chemical Abstract Service No.					
Acetyl Fluoride	557-99-3	*fluoride*	YES	YES	YES	YES
Allyl Isocyanide		*cyanide*	NO	NO	NO	NO
Allyl Isothiocyanate	57-06-7	*cyanide*	NO	NO	NO	NO
Aluminium Selenide	1302-82-5	*aluminium, selenium*	NO	YES	YES	NO
Ammonium Chloride	12125-02-09	*chloride, ammonia*	NO	YES	NO	NO
Ammonium Cyanide		*ammonia, cyanide*	NO	NO	NO	NO
Ammonium Nitrate	6484-52-2	*nitrate, ammonia*	NO	NO	NO	NO
Ammonium Picrate	131-74-8	*ammonia*	NO	YES	NO	NO
Arsenic Trichloride	7784-34-1	*chloride, arsenic**	YES	YES	YES	YES
Arsenic Trifluoride	7784-35-2	*fluoride, arsenic**	YES	YES	YES	YES
Arsenic Trioxide	1327-53-3	*arsenic**	YES	YES	YES	YES
Arsine	7784-42-1	*arsenic**	YES	YES	YES	YES
Barium Peroxide	1304-29-6	*barium*	YES	YES	YES	YES
Bromine	7726-95-6	*bromide*	NO	NO	NO	NO
Bromoketone	593-95-3	*bromide*	NO	NO	NO	NO
Bromoacetyl Bromide	598-21-0	*bromide*	NO	NO	NO	NO
Bromobenzyl Cyanide	5798-79-8	*bromide, cyanide*	NO	NO	NO	NO
Bromoxylyl Cyanide		*bromide, cyanide*	NO	NO	NO	NO
Cacodyl	144-21-8	*sodium*, arsenic**	NO	NO	NO	NO
Cacodyl Bromide		*bromide*	NO	NO	NO	NO
Cacodyl Chloride		*chloride*	YES	YES	YES	YES
Cacodyl Cyanide		*cyanide*	NO	NO	NO	NO
Cadmium Methyl		*cadmium*	NO	NO	NO	NO
Calcium Carbonate	471-34-1	*calcium**	YES	YES	YES	YES
Calcium Sulfate	7778-18-9	*sulfate, calcium**	YES	YES	YES	YES
Chlorine	7782-50-5	*chloride*	YES	YES	YES	YES
Cyanogen	460-19-5	*cyanide*	NO	NO	NO	NO
Cyanogen Bromide	506-68-3	*bromide, cyanide*	NO	NO	NO	NO
Cyanogen Chloride	506-77-4	*chloride, cyanide*	NO	NO	NO	NO
Dichloromethyl Ether	542-88-1	*chloride*	YES	YES	YES	YES
Dichloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES
Dichloropropyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES
Dimethylarsine	593-57-7	*arsenic**	YES	YES	YES	YES
Ethyl Sulfide	352-93-2	*sulfur*	YES	YES	YES	YES
Hydrochloric Acid	7647-01-0	*chloride*	YES	YES	YES	YES
Hydrocyanic Acid	74-90-8	*cyanide*	NO	NO	NO	NO
Hydrofluoric Acid	7664-39-3	*fluoride*	YES	YES	YES	YES
Hydrogen Selenide	7/5/7783	*selenium*	NO	YES	YES	NO
Lead Ferrocyanide		*lead, iron, cyanide*	NO	NO	NO	NO
Lead Peroxide	1309-60-0	*lead*	YES	YES	YES	YES
Lead Thiocyanate	592-87-0	*lead, cyanide*	NO	NO	NO	NO
Magnesium Arsenide		*magnesium, arsenic**	YES	YES	YES	YES
Magnesium Carbonate	546-93-0	*magnesium*	YES	YES	YES	YES

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

Analyses performed by Southwest Research Institute			**AU12-(200,180)(0-6")**	**AU12-(200,200)(0-6")**	**AU12-(240,180)(0-6")**	**CDC-(130,140)(0-6")**
COMPOUND	CAS No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
	Chemical Abstract Service No.					
Magnesium Oxide	1309-48-4	*magnesium*	YES	YES	YES	YES
Methyl Chloroarsine		*chloride, arsenic**	YES	YES	YES	YES
Methyl Isocyanide	593-75-9	*cyanide*	NO	NO	NO	NO
Methyl Selenide	593-79-3	*selenium*	NO	YES	YES	NO
Nickel Carbonyl	13463-39-3	*nickel*	YES	YES	YES	YES
Oxalyl Chloride	79-37-8	*chloride*	YES	YES	YES	YES
Phenylcarbylamine Chloride	622-44-6	*chloride*	YES	YES	YES	YES
Phosgene	75-44-5	*chloride*	YES	YES	YES	YES
Potassium Chlorate	3811-04-9	*chloride, potassium*	YES	YES	YES	YES
Potassium Nitrate	7757-79-1	*nitrate, potassium*	YES	NO	YES	NO
Potassium Perchlorate	7778-74-7	*potassium*	YES	YES	YES	YES
Potassium Permanganate	7722-64-7	*manganese, potassium*	YES	YES	YES	YES
Silicon	7440-21-3	*silicon*	YES	YES	YES	YES
Silicon Tetrachloride	409-21-2	*chloride, silicon*	YES	YES	YES	YES
Sodium Bicarbonate	144-55-8	*sodium**	NO	NO	NO	NO
Sodium Chlorate	7775-09-9	*chloride, sodium**	NO	NO	NO	NO
Sodium Cyanide	143-33-9	*sodium, cyanide*	NO	NO	NO	NO
Sodium Hydroxide	1310-73-2	*sodium**	NO	NO	NO	NO
Sodium Nitrate	7631-99-4	*nitrate, sodium*	NO	NO	NO	NO
Sodium Oleate	143-19-1	*sodium**	NO	NO	NO	NO
Sodium Silicate	6834-92-0	*sodium*, silicon*	NO	NO	NO	NO
Sodium Stearate	822-16-2	*sodium**	NO	NO	NO	NO
Stannic Chloride (Tin Tetrachloride)	7646-78-8	*chloride, tin*	NO	NO	YES	YES
Sulfur Chloride	10025-67-9	*chloride, sulfur*	YES	YES	YES	YES
Sulfur Trioxide	7446-11-9	*sulfur*	YES	YES	YES	YES
Sulfuryl Chloride	7791-25-5	*chloride, sulfur*	YES	YES	YES	YES
Tetrachloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES
Thermite		*aluminum, iron**	YES	YES	YES	YES
Thiophosgene	463-71-8	*chloride, sulfur*	YES	YES	YES	YES
Titanium Tetrachloride	7550-45-0	*chloride, titanium*	YES	YES	YES	YES
Trichloroacetyl Chloride	76-02-8	*chloride*	YES	YES	YES	YES
Trichloroacetyl Cyanide		*chloride, cyanide*	NO	NO	NO	NO
Trichlorohydrin	96-18-4	*chloride*	YES	YES	YES	YES
Xylyl Bromide	35884-77-6	*bromide*	NO	NO	NO	NO
Zinc Chloride mixture	7646-85-7	*chloride, zinc*	YES	YES	YES	YES
Zinc Oxide	1314-13-2	*zinc*	YES	YES	YES	YES

YES — **Presence of this compound cannot be ruled out.**

NO — **Presence of this compound not indicated.**

Shading indicates an exceedance of the RBC or the background of at least one of the indicator compounds if all were detected. The asterisk shows which indicator compound exceeded.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

Analyses performed by Southwest Research Institute			**CDC-(140,160)(0-6")**	**CDC-(150,140)(0-6")**	**CDC-(160,150)(0-6")**	**CDC-(170,150)(0-6")**
COMPOUND	CAS No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
	Chemical Abstract Service No.					
Acetyl Fluoride	557-99-3	*fluoride*	YES	YES	YES	YES
Allyl Isocyanide		*cyanide*	NO	NO	NO	NO
Allyl Isothiocyanate	57-06-7	*cyanide*	NO	NO	NO	NO
Aluminium Selenide	1302-82-5	*aluminium, selenium*	NO	NO	NO	NO
Ammonium Chloride	12125-02-09	*chloride, ammonia*	NO	NO	NO	NO
Ammonium Cyanide		*ammonia, cyanide*	NO	NO	NO	NO
Ammonium Nitrate	6484-52-2	*nitrate, ammonia*	NO	NO	NO	NO
Ammonium Picrate	131-74-8	*ammonia*	NO	NO	NO	NO
Arsenic Trichloride	7784-34-1	*chloride, arsenic**	YES	YES	YES	YES
Arsenic Trifluoride	7784-35-2	*fluoride, arsenic**	YES	YES	YES	YES
Arsenic Trioxide	1327-53-3	*arsenic**	YES	YES	YES	YES
Arsine	7784-42-1	*arsenic**	YES	YES	YES	YES
Barium Peroxide	1304-29-6	*barium*	YES	YES	YES	YES
Bromine	7726-95-6	*bromide*	NO	NO	NO	NO
Bromoketone	593-95-3	*bromide*	NO	NO	NO	NO
Bromoacetyl Bromide	598-21-0	*bromide*	NO	NO	NO	NO
Bromobenzyl Cyanide	5798-79-8	*bromide, cyanide*	NO	NO	NO	NO
Bromoxylyl Cyanide		*bromide, cyanide*	NO	NO	NO	NO
Cacodyl	144-21-8	*sodium*, arsenic**	YES	NO	NO	NO
Cacodyl Bromide		*bromide*	NO	NO	NO	NO
Cacodyl Chloride		*chloride*	YES	YES	YES	YES
Cacodyl Cyanide		*cyanide*	NO	NO	NO	NO
Cadmium Methyl		*cadmium*	NO	NO	NO	NO
Calcium Carbonate	471-34-1	*calcium**	YES	YES	YES	YES
Calcium Sulfate	7778-18-9	*sulfate, calcium**	YES	YES	YES	YES
Chlorine	7782-50-5	*chloride*	YES	YES	YES	YES
Cyanogen	460-19-5	*cyanide*	NO	NO	NO	NO
Cyanogen Bromide	506-68-3	*bromide, cyanide*	NO	NO	NO	NO
Cyanogen Chloride	506-77-4	*chloride, cyanide*	NO	NO	NO	NO
Dichloromethyl Ether	542-88-1	*chloride*	YES	YES	YES	YES
Dichloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES
Dichloropropyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES
Dimethylarsine	593-57-7	*arsenic**	YES	YES	YES	YES
Ethyl Sulfide	352-93-2	*sulfur*	YES	YES	YES	YES
Hydrochloric Acid	7647-01-0	*chloride*	YES	YES	YES	YES
Hydrocyanic Acid	74-90-8	*cyanide*	NO	NO	NO	NO
Hydrofluoric Acid	7664-39-3	*fluoride*	YES	YES	YES	YES
Hydrogen Selenide	7/5/7783	*selenium*	NO	NO	NO	NO
Lead Ferrocyanide		*lead, iron, cyanide*	NO	NO	NO	NO
Lead Peroxide	1309-60-0	*lead*	YES	YES	YES	YES
Lead Thiocyanate	592-87-0	*lead, cyanide*	NO	NO	NO	NO
Magnesium Arsenide		*magnesium, arsenic**	YES	YES	YES	YES
Magnesium Carbonate	546-93-0	*magnesium*	YES	YES	YES	YES

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

Analyses performed by Southwest Research Institute			**CDC-(140,160)(0-6")**	**CDC-(150,140)(0-6")**	**CDC-(160,150)(0-6")**	**CDC-(170,150)(0-6")**
COMPOUND	CAS No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
	Chemical Abstract Service No.					
Magnesium Oxide	1309-48-4	*magnesium*	YES	YES	YES	YES
Methyl Chloroarsine		*chloride, arsenic**	YES	YES	YES	YES
Methyl Isocyanide	593-75-9	*cyanide*	NO	NO	NO	NO
Methyl Selenide	593-79-3	*selenium*	NO	NO	NO	NO
Nickel Carbonyl	13463-39-3	*nickel*	YES	YES	YES	YES
Oxalyl Chloride	79-37-8	*chloride*	YES	YES	YES	YES
Phenylcarbylamine Chloride	622-44-6	*chloride*	YES	YES	YES	YES
Phosgene	75-44-5	*chloride*	YES	YES	YES	YES
Potassium Chlorate	3811-04-9	*chloride, potassium*	YES	YES	YES	YES
Potassium Nitrate	7757-79-1	*nitrate, potassium*	NO	NO	NO	NO
Potassium Perchlorate	7778-74-7	*potassium*	YES	YES	YES	YES
Potassium Permanganate	7722-64-7	*manganese, potassium*	YES	YES	YES	YES
Silicon	7440-21-3	*silicon*	YES	YES	YES	YES
Silicon Tetrachloride	409-21-2	*chloride, silicon*	YES	YES	YES	YES
Sodium Bicarbonate	144-55-8	*sodium**	YES	NO	NO	NO
Sodium Chlorate	7775-09-9	*chloride, sodium**	YES	NO	NO	NO
Sodium Cyanide	143-33-9	*sodium, cyanide*	NO	NO	NO	NO
Sodium Hydroxide	1310-73-2	*sodium**	YES	NO	NO	NO
Sodium Nitrate	7631-99-4	*nitrate, sodium*	NO	NO	NO	NO
Sodium Oleate	143-19-1	*sodium**	YES	NO	NO	NO
Sodium Silicate	6834-92-0	*sodium*, silicon*	YES	NO	NO	NO
Sodium Stearate	822-16-2	*sodium**	YES	NO	NO	NO
Stannic Chloride (Tin Tetrachloride)	7646-78-8	*chloride, tin*	YES	NO	YES	YES
Sulfur Chloride	10025-67-9	*chloride, sulfur*	YES	YES	YES	YES
Sulfur Trioxide	7446-11-9	*sulfur*	YES	YES	YES	YES
Sulfuryl Chloride	7791-25-5	*chloride, sulfur*	YES	YES	YES	YES
Tetrachloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES
Thermite		*aluminum, iron**	YES	YES	YES	YES
Thiophosgene	463-71-8	*chloride, sulfur*	YES	YES	YES	YES
Titanium Tetrachloride	7550-45-0	*chloride, titanium*	YES	YES	YES	YES
Trichloroacetyl Chloride	76-02-8	*chloride*	YES	YES	YES	YES
Trichloroacetyl Cyanide		*chloride, cyanide*	NO	NO	NO	NO
Trichlorohydrin	96-18-4	*chloride*	YES	YES	YES	YES
Xylyl Bromide	35884-77-6	*bromide*	NO	NO	NO	NO
Zinc Chloride mixture	7646-85-7	*chloride, zinc*	YES	YES	YES	YES
Zinc Oxide	1314-13-2	*zinc*	YES	YES	YES	YES

YES — **Presence of this compound cannot be ruled out.**

NO — **Presence of this compound not indicated.**

Shading indicates an exceedance of the RBC or the background of at least one of the indicator compounds if all were detected. The asterisk shows which indicator compound exceeded.

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

Analyses performed by Southwest Research Institute			**AU12-(160,100)(0-6")**	**CDC-(120,170)(0-6")**	**CDC-(70,190)(0-6")**	**CDC-(80,210)(0-6")**
COMPOUND	CAS No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
	Chemical Abstract Service No.					
Acetyl Fluoride	557-99-3	*fluoride*	YES	YES	YES	YES
Allyl Isocyanide		*cyanide*	NO	NO	YES	NO
Allyl Isothiocyanate	57-06-7	*cyanide*	NO	NO	YES	NO
Aluminium Selenide	1302-82-5	*aluminium, selenium*	YES	YES	YES	YES
Ammonium Chloride	12125-02-09	*chloride, ammonia*	NO	NO	NO	NO
Ammonium Cyanide		*ammonia, cyanide*	NO	NO	NO	NO
Ammonium Nitrate	6484-52-2	*nitrate, ammonia*	NO	NO	NO	NO
Ammonium Picrate	131-74-8	*ammonia*	NO	NO	NO	NO
Arsenic Trichloride	7784-34-1	*chloride, arsenic**	YES	YES	YES	YES
Arsenic Trifluoride	7784-35-2	*fluoride, arsenic**	YES	YES	YES	YES
Arsenic Trioxide	1327-53-3	*arsenic**	YES	YES	YES	YES
Arsine	7784-42-1	*arsenic**	YES	YES	YES	YES
Barium Peroxide	1304-29-6	*barium*	YES	YES	YES	YES
Bromine	7726-95-6	*bromide*	NO	NO	NO	NO
Bromoketone	593-95-3	*bromide*	NO	NO	NO	NO
Bromoacetyl Bromide	598-21-0	*bromide*	NO	NO	NO	NO
Bromobenzyl Cyanide	5798-79-8	*bromide, cyanide*	NO	NO	NO	NO
Bromoxylyl Cyanide		*bromide, cyanide*	NO	NO	NO	NO
Cacodyl	144-21-8	*sodium*, arsenic**	NO	NO	NO	NO
Cacodyl Bromide		*bromide*	NO	NO	NO	NO
Cacodyl Chloride		*chloride*	YES	YES	YES	YES
Cacodyl Cyanide		*cyanide*	NO	NO	YES	NO
Cadmium Methyl		*cadmium*	NO	NO	NO	NO
Calcium Carbonate	471-34-1	*calcium**	YES	YES	YES	YES
Calcium Sulfate	7778-18-9	*sulfate, calcium**	YES	YES	YES	YES
Chlorine	7782-50-5	*chloride*	YES	YES	YES	YES
Cyanogen	460-19-5	*cyanide*	NO	NO	YES	NO
Cyanogen Bromide	506-68-3	*bromide, cyanide*	NO	NO	NO	NO
Cyanogen Chloride	506-77-4	*chloride, cyanide*	NO	NO	YES	NO
Dichloromethyl Ether	542-88-1	*chloride*	YES	YES	YES	YES
Dichloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES
Dichloropropyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES
Dimethylarsine	593-57-7	*arsenic**	YES	YES	YES	YES
Ethyl Sulfide	352-93-2	*sulfur*	YES	YES	YES	YES
Hydrochloric Acid	7647-01-0	*chloride*	YES	YES	YES	YES
Hydrocyanic Acid	74-90-8	*cyanide*	NO	NO	YES	NO
Hydrofluoric Acid	7664-39-3	*fluoride*	YES	YES	YES	YES
Hydrogen Selenide	7/5/7783	*selenium*	YES	YES	YES	YES
Lead Ferrocyanide		*lead, iron, cyanide*	NO	NO	YES	NO
Lead Peroxide	1309-60-0	*lead*	YES	YES	YES	YES
Lead Thiocyanate	592-87-0	*lead, cyanide*	NO	NO	YES	NO
Magnesium Arsenide		*magnesium, arsenic**	YES	YES	YES	YES
Magnesium Carbonate	546-93-0	*magnesium*	YES	YES	YES	YES

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

AU Lot 12 and CDC Locations

(Only 16 of the 32 samples were run for the full AUES List)

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COMPOUND	CAS No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
	Chemical Abstract Service No.					
Magnesium Oxide	1309-48-4	*magnesium*	YES	YES	YES	YES
Methyl Chloroarsine		*chloride, arsenic**	YES	YES	YES	YES
Methyl Isocyanide	593-75-9	*cyanide*	NO	NO	YES	NO
Methyl Selenide	593-79-3	*selenium*	YES	YES	YES	YES
Nickel Carbonyl	13463-39-3	*nickel*	YES	YES	YES	YES
Oxalyl Chloride	79-37-8	*chloride*	YES	YES	YES	YES
Phenylcarbylamine Chloride	622-44-6	*chloride*	YES	YES	YES	YES
Phosgene	75-44-5	*chloride*	YES	YES	YES	YES
Potassium Chlorate	3811-04-9	*chloride, potassium*	YES	YES	YES	YES
Potassium Nitrate	7757-79-1	*nitrate, potassium*	YES	YES	YES	YES
Potassium Perchlorate	7778-74-7	*potassium*	YES	YES	YES	YES
Potassium Permanganate	7722-64-7	*manganese, potassium*	YES	YES	YES	YES
Silicon	7440-21-3	*silicon*	YES	YES	YES	YES
Silicon Tetrachloride	409-21-2	*chloride, silicon*	YES	YES	YES	YES
Sodium Bicarbonate	144-55-8	*sodium**	NO	NO	NO	NO
Sodium Chlorate	7775-09-9	*chloride, sodium**	NO	NO	NO	NO
Sodium Cyanide	143-33-9	*sodium, cyanide*	NO	NO	NO	NO
Sodium Hydroxide	1310-73-2	*sodium**	NO	NO	NO	NO
Sodium Nitrate	7631-99-4	*nitrate, sodium*	NO	NO	NO	NO
Sodium Oleate	143-19-1	*sodium**	NO	NO	NO	NO
Sodium Silicate	6834-92-0	*sodium*, silicon*	NO	NO	NO	NO
Sodium Stearate	822-16-2	*sodium**	NO	NO	NO	NO
Stannic Chloride (Tin Tetrachloride)	7646-78-8	*chloride, tin*	YES	YES	YES	YES
Sulfur Chloride	10025-67-9	*chloride, sulfur*	YES	YES	YES	YES
Sulfur Trioxide	7446-11-9	*sulfur*	YES	YES	YES	YES
Sulfuryl Chloride	7791-25-5	*chloride, sulfur*	YES	YES	YES	YES
Tetrachloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES
Thermite		*aluminum, iron**	YES	YES	YES	YES
Thiophosgene	463-71-8	*chloride, sulfur*	YES	YES	YES	YES
Titanium Tetrachloride	7550-45-0	*chloride, titanium*	YES	YES	YES	YES
Trichloroacetyl Chloride	76-02-8	*chloride*	YES	YES	YES	YES
Trichloroacetyl Cyanide		*chloride, cyanide*	NO	NO	YES	NO
Trichlorohydrin	96-18-4	*chloride*	YES	YES	YES	YES
Xylyl Bromide	35884-77-6	*bromide*	NO	NO	NO	NO
Zinc Chloride mixture	7646-85-7	*chloride, zinc*	YES	YES	YES	YES
Zinc Oxide	1314-13-2	*zinc*	YES	YES	YES	YES

YES	**Presence of this compound cannot be ruled out.**
NO	**Presence of this compound not indicated.**

Shading indicates an exceedance of the RBC or the background of at least one of the indicator compounds if all were detected. The asterisk shows which indicator compound exceeded.

RBC KEY

Note: In accordance with standard Risk Assessment practice, Risk-Based Concentrations (RBCs) for structurally, chemically, or toxicologically similar chemicals were used for those chemicals that did not have RBCs. For this investigation, these included the following:

RBC for 1,3-Dichloropropene was used for CIS and TRANS-1,3-Dichloropropene
RBC for Hexane was used for Cyclohexane and Methylcyclohexane
RBC for Acetone was used for Bromoacetone and Chloroacetone
RBC for Carbon Disulfide was used for Chlorinated Carbon Disulfide
RBC for Ethyl Acetate was used for Ethyl Bromoacetate and Ethyl Dibromoacetate
RBC for Beta-Chloronaphthalene was used for 2-Chloronaphthalene (same chemical)
RBC for 4-Nitrophenol was used for 2-Nitrophenol
RBC for Acenapthene was used for Acenaphthylene
RBC for Dibutylphthalate was used for Di-N-Butylphthalate (same chemical)
RBC for Dioctylphthalate was used for Di-N-Octylphthalate (same chemical)
RBC for Alpha-HCH was used for Alpha-Lindane (same chemical)
RBC for Chromium III was used for Chromium
RBC for Cyanide (Free) was used for Cyanide
For Lead, the USEPA recommended residential land use screening level of 400 ppm was used.

Attachment A

Quality Assurance Report

QUALITY ASSURANCE SUMMARY REPORT FOR

SOIL SAMPLES ASSOCIATED WITH SPRING VALLEY OU-4, AU 12/CDC, AUES LIST SAMPLING (WMP AMENDMENT 1)

INTRODUCTION

This data validation summary report covers environmental soil samples collected from Spring Valley OU-4 American University (AU) Lot 12 and Child Development Center (CDC) locations in Washington, DC. These samples were included in laboratory Sample Delivery Groups 157595 and 157615. The samples were analyzed for Full Scan Parameters including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), adamsite, mustard degradation or breakdown products, lewisite degradation products, trinitrotoluene, metals, ions (bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate) and selected wet chemistry parameters (ammonia and total cyanide). VOC and SVOC analyses included tentatively identified compounds (TICs).

All work was performed in accordance with the OU-4 Work Management Plan (WMP) prepared by Parsons and amended *(Revised Final Amendment 1, February 19, 2001)*. The WMP included a Quality Assurance Project Plan (QAPjP) that was prepared and approved for use to ensure generation of legally defensible data. Southwest Research Institute of San Antonio, Texas, following procedures outlined in the QAPjP and the WMP, performed all analyses with the exception of adamsite, which was analyzed by the Army's Edgewood Chemical and Biological Command (ECBC) laboratory.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the WMP and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

Major QA/QC problems leading to rejection of data were found during validation of the data for some samples for VOC, SVOC and wet chemistry parameters. Details regarding the samples and analytes affected and the magnitude of the problems are presented in the Major Problems section.

Minor QA/QC problems leading to qualifying of data as estimated or not detected included: laboratory blank contamination; accuracy (% recovery) outliers, precision outliers, surrogate outliers, internal standard outliers and reported detections less than the project reporting limit (PRL). Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above major problems were found during validation of the data for this SDG. The parameters affected are VOC, SVOC and wet chemistry (phosphate and fluoride). The major problem affecting the VOC and SVOC analyses involved extremely poor internal standard outliers. The major problem affecting the wet chemistry parameter involved extremely poor percent recoveries associated with the MS/MSD samples. Details regarding these problems are presented below by parameter.

Volatile Organic Compounds (VOCs)

The following samples for VOC analysis reported extremely poor internal standard area counts for at least one of the four required internal standards: OU4-CDC-SB-B (4'), OU4-AU12 (140,160)(0-6), OU4-CDC (130,190)(0-6), OU4-CDC (140,160)(0-6), OU4-CDC (150,140)(0-6), OU4-CDC (160,140)(0-6), OU4-CDC (160,130)(0-6), OU4-CDC (160,150)(0-6), OU4-CDC (170,150)(0-6), OU4-AU12 (160,100)(0-6), OU4-CDC (120,170)(0-6), OU4-CDC (130,120)(0-6), OU4-CDC (170,140)(0-6), OU4-CDC (220,150)(0-6), OU4-CDC (70,190)(0-6), OU4-CDC (80,170)(0-6) and OU4-CDC (80,210)(0-6).

The two internal standards affected are chlorobenzene-d5 and 1,4-dichlorobenzene. The reported internal standard area count for the affected internal standard was less than 50% of the required lower control limit. The laboratory attributed the problem to matrix interferences in the sample. Some of the affected samples were reanalyzed, outside of holding time, with similar results. Results for the reanalyses are not reported in the data summary tables. All reported nondetects (laboratory qualified 'U') for target VOCs assigned to the affected internal standard (for quantitation) have been requalified as unusable (rejected) and flagged 'R'. Reported detections for target analytes assigned to the affected internal standards have been qualified as estimated and flagged 'J'.

Semivolatile Organic Compounds (SVOCs)

The following samples for SVOC analysis reported extremely poor internal standard area counts for one of the six required internal standards: OU4-CDC (130,120)(0-6), OU4-CDC (160,130)(0-6), OU4-CDC (160,140)(0-6), OU4-CDC

(170,150(0-6), OU4-CDC (170,140)(0-6), OU4-CDC (220,150)(0-6), OU4-CDC (70,190)(0-6), OU4-CDC (80,170)(0-6) and OU4-CDC (80,210)(0-6).

The only internal standard affected is perylene-d12. The reported internal standard area count for the affected internal standard was less than 50% of the required lower control limit. The laboratory attributed the problem to matrix interferences in the sample. All reported nondetects (laboratory qualified 'U') for target SVOCs assigned to the affected internal standard (for quantitation) have been requalified as unusable (rejected) and flagged 'R'. Reported detections for target analytes assigned (for purposes of quantitation) to the affected internal standards have been qualified as estimated and flagged 'J'.

Wet Chemistry

The laboratory reported no (0%) percent recovery for target analytes phosphate and fluoride for the MS/MSD samples associated with some of the samples. All reported nondetects for these analytes in the associated samples have been qualified as unusable (rejected) and flagged 'R'. Reported detections for these analytes have been qualified as estimated and flagged 'J'.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was positively identified but the associated value may be imprecise due to at least one minor QA/QC problem. When the bias could be determined the 'L' (low bias) or 'K' (high bias) qualifiers have been added to the data.

As indicated above, QC problems leading to qualifying of data as estimated included laboratory blank contamination, accuracy outliers, internal standard outliers and reported detections less than the PRL. Details concerning these problems are presented below by analytical parameter.

Volatile Organic Compounds (VOCs)

- The reported detections for the following VOC target analytes were less than the PRL and should be considered estimated (flagged 'J'): methyl acetate and benzene.

- The laboratory reported internal standard area outliers for the following soil samples: OU4-CDC-SB-A (4'), OU4-AU12 (180,200)(0-6), OU4-AU12 (180,220)(0-6), OU4-AU12 (200,180)(0-6), OU4-AU12 (200,200)(0-6), OU4-CDC (130,140)(0-6), OU4-CDC (140,160)(0-6), OU4-CDC (140,160)(0-6), OU4-CDC (150,140)(0-6), OU4-CDC (150,150)(0-6), OU4-CDC (160,130)(0-6) and OU4-CDC (160,150)(0-6). All reported results for the samples have been qualified as estimated (flagged 'UJ/J').

- The laboratory reported that several samples contained target VOCs at concentrations above the calibration range for the method. The affected results have been qualified as estimated and flagged 'J'. Target VOCs affected are dichlorodifluoromethane, acetone and carbon disulfide.

- Target VOC acetone was detected in at least one blank associated with some of the samples. Some reported results for acetone in associated samples have been requalified as estimated and may be biased high and flagged 'B/JB' due to the blank contamination.

- Surrogate percent recovery outliers were reported for sample OU4-CDC-SB-B (4'). Outliers were reported for all three of the VOC surrogates. Two of the reported recoveries were above the control limit and the other was below the control limit for the respective surrogate. All reported results for this sample have been qualified as estimated and flagged 'J/UJ'.

- Calibration outliers were reported for target VOCs 1,1-dichloroethene and chloroform. The percent difference for the continuing calibration check associated with some of the samples exceeded the control limit. All reported results for these analytes in the affected samples have been qualified as estimated and flagged 'J/UJ'.

- Some of the TICs reported in the samples were also detected in the associated laboratory blanks. The affected results have been requalified as estimated and may be biased high and flagged 'B/JB' due to the blank contamination.

Semivolatile Organic Compounds (SVOCs)

- Reported detections less than the PRL have been requalified as estimated and flagged "J". Target analytes affected include 2-methylnaphthalene, acenaphthylene, benzyl alcohol, naphthalene, benzoic acid, diethylphthalate, phenanthrene, fluoranthene, pyrene, benzo (a) anthracene, chrysene, bis (2-ethylhexyl) phthalate, di-n-octylphthalate, benzo (b) fluoranthene, benzo (k) fluoranthene, indeno (1,2,3-cd) pyrene and benzo (a) pyrene.

- The laboratory reported internal standard outliers for the following samples OU4-AU12 (180,200)(0-6), OU4-AU12 (180,220)(0-6), OU4-CDC (130,140)(0-6), OU4-CDC (130,190)(0-6), OU4-CDC (140,160)(0-6), OU4-CDC (150,140)(0-6), OU4-CDC (150,150)(0-6), OU4-CDC (160,130)(0-6), OU4-CDC (160,140)(0-6), OU4-CDC (160,150)(0-6), OU4-CDC (170,150)(0-6), OU4-CDC (130,120)(0-6), OU4-CDC (170,140)(0-6), OU4-CDC (220,150)(0-6), OU4-CDC (70,190)(0-6) and OU4-CDC (80,210)(0-6). The reported results for the affected sample have been qualified as estimated and flagged 'UJ/J' due to the internal standard outliers. Only the target SVOCs quantitated using the affected internal standard have been qualified. The SVOC internal standards affected are chrysene-d12 and perylene-d12.

- Several target SVOCs were detected in the laboratory blanks associated with some of the soil samples. The affected SVOCs are di-n-butylphthalate and bis (2-ethylhexyl) phthalate. Reported results for these analytes in the associated samples have been requalified as estimated, may be biased high, and flagged 'B/JB' due to the blank contamination. Some SVOC TICs were also detected in the associated laboratory blanks and have been requalified as estimated and may be biased high and flagged 'JNB' due to the blank contamination.

Mustard Degradation Products

- Some reported Thiodiglycol detections were less than the PRL and have been qualified as estimated and flagged 'J'.

Metals

- Accuracy (matrix spike percent recovery) outliers were reported for target metals antimony, cobalt and sulfur for some of the MS/MSD samples. The reported recoveries were below the control limit for the metals (75-125%). The reported results for these metals in the affected samples are considered estimated and may be biased low; the true concentration may be higher than the value reported. The 'L/UL' qualifiers have been assigned to the affected results. Results with the 'L/UL' qualifiers are estimated and considered usable for most decision-making purposes, including risk assessment.

- Accuracy (matrix spike percent recovery) outliers were reported for target metals chromium and lead for some of the MS/MSD samples. The reported recoveries were above the control limit for the metals (75-125%). The reported results for these metals in the affected samples are considered estimated and may be biased high; the true concentration may be lower than the value reported. The 'K' qualifier has been assigned to the affected results. Results with the 'K' qualifier are estimated and considered usable for most decision-making purposes, including risk assessment.

- Precision (relative percent difference) outliers were reported for the following target metals: arsenic, beryllium, thallium, cobalt, lead, barium, iron and manganese. The reported results for these metals in the affected samples have been qualified as estimated and flagged 'J/UJ'.

Wet Chemistry Parameters

- Accuracy (matrix spike percent recovery) outliers were reported for target fluoride and phosphate for some of the MS/MSD samples. The reported recoveries were below the control limit for the target analytes (75-125%). The reported detections of these analytes in the affected samples are considered estimated and may be biased low; the true concentration may be

higher than the value reported. The 'L' qualifiers have been assigned to the affected results. Results with the 'L' qualifiers are estimated and considered usable for most decision-making purposes, including risk assessment.

- Accuracy (matrix spike percent recovery) outliers were reported for sulfate for some of the MS/MSD samples. The reported recoveries were above the control limit (75-125%). Reported detections of sulfate in the affected samples are considered estimated and may be biased high; the true concentration may be lower than the value reported. The 'K' qualifier has been assigned to the affected results. Results with the 'K' qualifier are estimated and considered usable for most decision-making purposes, including risk assessment.

DATA VALIDATION QUALIFIERS

U = The compound was analyzed for and is not present. The associated numerical value (Practical Quantitation Limit - PQL) indicates the approximate concentration necessary to quantify the compound in the sample.

UJ = A combination of the "U" and "J" flags. The compound was analyzed for and is not present. The associated numerical value (Practical Quantitation Limit - PQL) has been qualified as estimated due to a QC anomaly.

J = The compound was detected in the sample, but the reported result is “estimated” (could not be accurately quantified) either because the reported value is less than the PQL or at least one minor Quality Control (QC) problem was found during validation. Data with a “J” qualifier is considered usable for most decision-making purposes, including risk assessment.

K = The analyte was detected in the sample. The reported result is considered estimated and may be biased high due to a minor QA/QC problem. The true concentration present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L = The analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

NJ = This flag indicates presumptive evidence of a compound. It is only used for Tentatively Identified Compounds (TICs), where identification is based on a mass spectral library search. The 'N' is not applied to generic descriptions of a TIC, such as 'Unknown Hydrocarbon'. The 'J' flag indicates the reported numerical result is estimated.

JNB = This is a combination of the 'NJ' and 'B' flags. The 'B' indicates the compound was detected in a laboratory or field blank associated with the sample. The reported result should be considered estimated and biased high due to blank contamination.

R = The reported result is considered unusable and unreliable due to a major problem associated with the analysis of the sample or analyte. This qualifier implies no confidence in the reported result due to the problem found during validation. Resampling is recommended if the compound affected is critical to the decision-making process.

B = The analyte was also detected in a laboratory or field blank associated with the sample. The reported result is considered estimated and biased high due to the blank contamination.

Attachment B

AUES Chemicals List
(Presented at the end of the Sedgwick Trench Section)

REPORT OF ANALYTICAL RESULTS -

American University Experiment Station (AUES)
List Of Chemicals

SEDGWICK TRENCH AREA

SPRING VALLEY OPERABLE UNIT 5,
WASHINGTON, D.C.

TASK ORDER TO NATIONAL GUARD BUREAU
CONTRACT NO. DAHA90-94-D-0010, TASK ORDER DA01
DERP-FUDS HTRW PROJECT NUMBER C03DC091802

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT

Prepared By:

PARSONS
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030

This document was originally published on APRIL 16, 2002
but has since been updated with revised RBC data

REPORT OF ANALYTICAL RESULTS

American University Experiment Station (AUES)
List Of Chemicals

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Overview

In accordance with the *Final Work Plan for Sedgwick Trench Area Investigation (Parsons, March 2001),* Parsons collected five soil samples (four samples plus one duplicate sample) from the Sedgwick Trench bottom to assess for the presence of the American University Experiment Station (AUES) list of chemicals. All samples were analyzed by the Southwest Research Institute (SwRI), with the exception of mustard and adamsite, which were analyzed by the US Army's Edgewood Chemical and Biological Command (ECBC) Laboratory. This submittal is organized as follows:

Figure 1 shows the sample locations.

The results are compiled on five tables.

Table 1 is the comprehensive list of compounds analyzed. These include the routine Target Compound List and Target Analyte List constituents and the Chemical Warfare Materiel (CWM) compounds and CWM breakdown products that were analyzed to make determinations of whether the AUES List chemicals were present. Therefore, the table contains all compounds analyzed, whether they were actually on the AUES list or not.

Table 1A is the comprehensive list detections. It is a subset of Table 1. These are the compounds shown on Table 1 that were present in concentrations above the detection limit.

Table 2 is the AUES list of compounds. It is also a subset of Table 1, showing the results for those AUES chemicals that could be directly analyzed. Additionally, CWM breakdown products and the indicator compounds used in Table 3, although not actually AUES list compounds, are included. They are indicated on the table as either a 'breakdown product' or 'indicator' compound.

Table 2A is the AUES list detections. It is a subset of Table 2. These are the compounds shown on Table 2 that were present in concentrations above the detection limit. Additionally, CWM breakdown products and the indicator compounds, although not actually AUES list compounds, are included.

Table 3 is the AUES list scan results. These are the AUES chemicals that did not have routine analytical methodologies. The possible presence or absence of these chemicals was inferred by the presence or absence of indicator compounds for each AUES chemical.

RBC Key contains the rationale for the RBCs shown for those chemicals that did not have RBCs.

Attachment A contains the Quality Assurance or Data Validation Report of the sampling effort.

Attachment B contains the full AUES Chemicals list and the organization of the analytical effort, i.e., which compounds could be analyzed and by what methods.



Figure 1
AUES List of Chemicals
Sedgwick Trench
Sampling Locations

Spring Valley Operable Unit 5
Washington D.C.

Legend

- Trench Boring Locations
- 1928 Ground Scars
- 1927 Ground Scars
- 1922 Ground Scars
- 1918 Ground Scars
- POIs

Cut & Fill
- Cut
- Level
- Fill

- Buildings
- Roads
- Parcels
- Quadrant Sampling

N
W E
S

50 0 50 100 Feet

Scale:	1 : 1000
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.apr
Date:	02/12/2002
Figure Number:	1
Page Number:	X-X

PARSONS

Spring Valley OU-5
Sedgwick Trench Area
AUES List Analytical Plan

	Location	Depth (feet)	No. of Sx Collected	TAL Metals	TCL VOCs	TCL SVOCs	CWM/ ABPs	AUES List
Property								
5040 Sedgwick Street	\a	4.5-5.5	2[\c]	X	X	X	X	X
5054 Sedgwick Street	\b	3-5	1	X	X	X	X	X
5059 Sedgwick Street	\b	9-10	1	X	X	X	X	X
5065 Sedgwick Street	\a	2.5-4	1	X	X	X	X	X
Totals			5	5	5	5	5	5

\a outer trench location-see Figure 1
\b inner trench location-see Figure 1
\c includes a field duplicate

Notes:

CWM/ABPs = Includes Adamsite, and Mustard and Lewisite Agent Breakdown Products

Table 1

Comprehensive Sample Results for Sedgwick Trench

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Sedgwick Trench Area

SAMPLE ID:	**REGION III**			**5040TR-SB**		**5065TR-SBDUP01**		**5054TR-SB**		**5059TR-SB**		**5065TR-SB**	
TYPE or LOCATION:	**Residential**		**Metals**	**Trench Bottom**		**Dup of 5040**		**Trench Bottom**		**Trench Bottom**		**Trench Bottom**	
SAMPLE DEPTH:	**RBC**		**Back-**	**4.5'-5.5'**		**4.5'-5.5'**		**3'-5'**		**9'-10'**		**2.5'-4'**	
SAMPLING DATE:	*(adjusted*		**ground**[12]	**4/5/2001**		**4/5/2001**		**4/5/2001**		**4/5/2001**		**4/5/2001**	
Analyses performed by Southwest Research Institute	*downward)* [11]												
Volatile Organic Compounds - SW8260B (UG/KG)													
1,1,1-TRICHLOROETHANE	2,200,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
1,1,2,2,-TETRACHLOROETHANE	3,200	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	230,000,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
1,1,2-TRICHLOROETHANE	11,000	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
1,1-DICHLOROETHANE	780,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
1,1-DICHLOROETHENE	390,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
1,2,4-TRICHLOROBENZENE	78,000	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
1,2-DIBROMO-3-CHLOROPROPANE	460	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
1,2-DIBROMOETHANE	7.5	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
1,2-DICHLOROBENZENE	700,000	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
1,2-DICHLOROETHANE	7,000	C		1	U	1.1	U	1.3	U	1.1	U	1.1	U
1,2-DICHLOROPROPANE	9,400	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
1,3-DICHLOROBENZENE	230,000	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
1,4-DICHLOROBENZENE	27,000	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
2-BUTANONE (Methyl Ethyl Ketone, CAS# 78933)	4,700,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
2-HEXANONE	310,000	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		1	UJ	1.1	UJ	2	J	1.1	UJ	1.1	UJ
ACETONE	780,000	N		1	B	2	B	3	B	2	B	2	B
ACETONITRILE	NA			5.2	U	5.3	U	6.3	U	5.4	U	5.3	U
ACROLEIN	160,000	N		5.2	U	5.3	U	6.3	U	5.4	U	5.3	U
BENZENE	12,000	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
BENZYL BROMIDE	NA			5.2	UJ	5.3	UJ	6.3	UJ	5.4	UJ	5.3	UJ
BENZYL CHLORIDE	3,800	C		5.2	UJ	5.3	UJ	6.3	UJ	5.4	UJ	5.3	UJ
BROMODICHLOROMETHANE	10,000	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
BROMOFORM	81,000	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
BROMOMETHANE	11,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
CARBON DISULFIDE	780,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
CARBON TETRACHLORIDE	4,900	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
CHLOROBENZENE	160,000	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
CHLOROETHANE	220,000	C		1	U	1.1	U	1.3	U	1.1	U	1.1	U
CHLOROFORM	78,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
CHLOROMETHANE	NA			1	U	1.1	U	1.3	U	1.1	U	1.1	U
CHLOROPICRIN	NA			26	UJ	27	UJ	32	UJ	27	UJ	27	UJ
CIS-1,2-DICHLOROETHENE	78,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
CIS-1,3-DICHLOROPROPENE	6,400 ‡	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
CYCLOHEXANE	470,000 ‡	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
DIBROMOCHLOROMETHANE	7,600	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
DICHLORODIFLUOROMETHANE	1,600,000	N		1	B	1.1	U	1.3	U	1	B	1	B
ETHYLBENZENE	780,000	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
ISOPROPYLBENZENE (CUMENE)	780,000	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
M&P-XYLENE	1,600,000	N		1	UJ	2	J	1.3	UJ	1.1	UJ	1.1	UJ
METHYL ACETATE	7,800,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
METHYL TERT-BUTYL ETHER	160,000	C		1	U	1.1	U	1.3	U	1.1	U	1.1	U
METHYLCYCLOHEXANE	470,000 ‡	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Sedgwick Trench Area

SAMPLE ID:		REGION III			5040TR-SB		5065TR-SBDUP01		5054TR-SB		5059TR-SB		5065TR-SB	
TYPE or LOCATION:		Residential		Metals	Trench Bottom		Dup of 5040		Trench Bottom		Trench Bottom		Trench Bottom	
SAMPLE DEPTH:		RBC		Back-	4.5'-5.5'		4.5'-5.5'		3'-5'		9'-10'		2.5'-4'	
SAMPLING DATE:		(adjusted		ground[12]	4/5/2001		4/5/2001		4/5/2001		4/5/2001		4/5/2001	
Analyses performed by Southwest Research Institute		downward) [12]												
METHYLENE CHLORIDE		85,000	C		1	U	1.1	U	1.3	U	1.1	U	1.1	U
O-XYLENE		1,600,000	N		1	UJ	2	J	1.3	UJ	1.1	UJ	1.1	UJ
STYRENE		1,600,000	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
TETRACHLOROETHENE		32,000	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
TOLUENE		1,600,000	N		1	UJ	4	J	1.3	UJ	1.1	UJ	1.1	UJ
TRANS-1,2-DICHLOROETHENE		160,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
TRANS-1,3-DICHLOROPROPENE		6,400 ‡	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
TRICHLOROETHENE		1,600	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
TRICHLOROFLUOROMETHANE		2,300,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
VINYL CHLORIDE		90	C		1	U	1.1	U	1.3	U	1.1	U	1.1	U
VOC Tentatively Identified Compounds (UG/KG)														
1-NONENE, 4,6,8-TRIMETHYL-		NA				*		*		*	3	NJ		*
ALCOHOL		NA				*		*		*		*		*
ALLYL ALCOHOL		NA				*		*		*		*		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)		550,000	N		1	NJ	0.8	NJ	1	NJ		*		*
BENZYL IODIDE		NA				*		*		*		*		*
BROMOACETONE		780,000 ‡	N			*		*		*		*		*
BROMOBENZENE		NA				*		*		*		*		*
BROMOMETHYL ETHER		NA				*		*		*		*		*
BUTANE, 1,1-OXYBIS-		NA			1	NJ		*	0.9	NJ		*		*
BUTYL MERCAPTAN		NA				*		*		*		*		*
CHLORINATED ACETONE		NA				*		*		*		*		*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N			*		*		*		*		*
CHLOROACETONE		780,000 ‡	N			*		*		*		*		*
CHLOROACETONITRILE		NA				*		*		*		*		*
CHLOROMETHYL ETHER		NA				*		*		*		*		*
CHLOROMETHYL ETHYL ETHER		NA				*		*		*		*		*
CROTONALDEHYDE		340	C			*		*		*		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)		NA				*	1	NJ	3	NJ	7	NJ		*
ETHYL BROMOACETATE		7,000,000 ‡	N			*		*		*		*		*
ETHYL CHLOROFORMATE		NA				*		*		*		*		*
ETHYL DIBROMOACETATE		7,000,000 ‡	N			*		*		*		*		*
ETHYL MERCAPTAN		NA				*		*		*		*		*
FURAN, TETRAHYDRO-		84,000	C			*	1	NJ		*		*	1	NJ
METHYL BROMOACETATE		NA				*		*		*		*		*
METHYL CHLOROACETATE		NA				*		*		*		*		*
METHYL CHLOROFORMATE		NA				*		*		*		*		*
METHYL CHLOROSULFONATE		NA				*		*		*		*		*
PERCHLOROMETHYLMERCAPTAN		NA				*		*		*		*		*
PROPANE, OCTAFLUORO-		NA				*	2	NJ		*		*	2	NJ
THIOPHENE		NA				*		*		*		*		*
TRICHLOROACETONITRILE		NA				*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Sedgwick Trench Area

SAMPLE ID:		REGION III			5040TR-SB		5065TR-SBDUP01		5054TR-SB		5059TR-SB		5065TR-SB	
TYPE or LOCATION:		Residential		Metals	Trench Bottom		Dup of 5040		Trench Bottom		Trench Bottom		Trench Bottom	
SAMPLE DEPTH:		RBC		Back-	4.5'-5.5'		4.5'-5.5'		3'-5'		9'-10'		2.5'-4'	
SAMPLING DATE:		(adjusted		ground[12]	4/5/2001		4/5/2001		4/5/2001		4/5/2001		4/5/2001	
Analyses performed by Southwest Research Institute		downward) [12]												
Semivolatile Organic Compounds - SW8270C (UG/KG)														
1,2,4-TRICHLOROBENZENE		78,000	N		82	U	73	U	76	U	81	U	74	U
1,2-DICHLOROBENZENE		700,000	N		82	U	73	U	76	U	81	U	74	U
1,3-DICHLOROBENZENE		230,000	N		82	U	73	U	76	U	81	U	74	U
1,4-DICHLOROBENZENE		27,000	C		82	U	73	U	76	U	81	U	74	U
2,4,5-TRICHLOROPHENOL		780,000	N		82	U	73	U	76	U	81	U	74	U
2,4,6-TRICHLOROPHENOL		58,000	C		82	U	73	U	76	U	81	U	74	U
2,4-DICHLOROPHENOL		23,000	N		82	U	73	U	76	U	81	U	74	U
2,4-DIMETHYLPHENOL		160,000	N		82	U	73	U	76	U	81	U	74	U
2,4-DINITROPHENOL		16,000	N		250	U	220	U	230	U	240	U	220	U
2,4-DINITROTOLUENE		16,000	N		82	U	73	U	76	U	81	U	74	U
2,6-DINITROTOLUENE		7,800	N		82	U	73	U	76	U	81	U	74	U
2-CHLORONAPHTHALENE (CAS# 91587)		630,000 ‡	N		82	U	73	U	76	U	81	U	74	U
2-CHLOROPHENOL		39,000	N		82	U	73	U	76	U	81	U	74	U
2-METHYLNAPHTHALENE (CAS# 91576)		160,000	N		82	U	73	U	76	U	81	U	74	U
2-METHYLPHENOL		390,000	N		82	U	73	U	76	U	81	U	74	U
2-NITROANILINE		NA			82	U	73	U	76	U	81	U	74	U
2-NITROPHENOL		63,000 ‡	N		82	U	73	U	76	U	81	U	74	U
3,3-DICHLOROBENZIDINE'		1,400	C		82	U	73	U	76	U	81	U	74	U
3-NITROANILINE (CAS# 99092)		2,300	N		82	U	73	U	76	U	81	U	74	U
4,6-DINITRO-2-METHYLPHENOL		780	N		82	U	73	U	76	U	81	U	74	U
4-BROMOPHENYL-PHENYLETHER		NA			82	U	73	U	76	U	81	U	74	U
4-CHLORO-3-METHYLPHENOL		NA			82	U	73	U	76	U	81	U	74	U
4-CHLOROANILINE		31,000	N		82	U	73	U	76	U	81	U	74	U
4-CHLOROPHENYL-PHENYLETHER		NA			82	U	73	U	76	U	81	U	74	U
4-METHYLPHENOL		39,000	N		82	U	73	U	76	U	81	U	74	U
4-NITROANILINE		32,000	C		82	U	73	U	76	U	81	U	74	U
4-NITROPHENOL		63,000	N		82	U	73	U	76	U	81	U	74	U
ACENAPHTHENE		470,000	N		82	U	73	U	76	U	81	U	74	U
ACENAPHTHYLENE		470,000 ‡	N		82	U	73	U	76	U	81	U	74	U
ANTHRACENE		2,300,000	N		82	U	73	U	75	J	81	U	74	U
BENZO[A]ANTHRACENE		870	C		82	U	73	U	340		81	U	74	U
BENZO[A]PYRENE		87	C		82	U	73	U	140		81	U	74	U
BENZO[B]FLUORANTHENE		870	C		82	U	73	U	300		81	U	74	U
BENZO[G,H,I]PERYLENE		NA			82	U	73	U	97		81	U	74	U
BENZO[K]FLUORANTHENE		8,700	C		82	U	73	U	130		81	U	74	U
BENZOIC ACID		31,000,000	N		250	U	220	U	230	U	240	U	220	U
BENZYL ALCOHOL		2,300,000	N		82	U	73	U	76	U	81	U	74	U
BIS(2-CHLOROETHOXY)METHANE		NA			82	U	73	U	76	U	81	U	74	U
BIS(2-CHLOROISOPROPYL)ETHER		9,100	C		82	U	73	U	76	U	81	U	74	U
BIS(2-ETHYLHEXYL)PHTHALATE		46,000	C		82	U	73	U	51	J	81	U	74	U
BUTYLBENZYLPHTHALATE		1,600,000	N		82	U	73	U	76	U	81	U	74	U
CARBAZOLE		32,000	C		82	U	73	U	76	U	81	U	74	U
CHRYSENE		87,000	C		82	U	73	U	160		81	U	74	U
DIBENZ[A,H]ANTHRACENE		87	C		82	U	73	U	34	J	81	U	74	U
DIBENZOFURAN		16,000	N		82	U	73	U	76	U	81	U	74	U

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Sedgwick Trench Area

SAMPLE ID:		REGION III			5040TR-SB		5065TR-SBDUP01		5054TR-SB		5059TR-SB		5065TR-SB	
TYPE or LOCATION:		Residential		Metals	Trench Bottom		Dup of 5040		Trench Bottom		Trench Bottom		Trench Bottom	
SAMPLE DEPTH:		RBC		Back-	4.5'-5.5'		4.5'-5.5'		3'-5'		9'-10'		2.5'-4'	
SAMPLING DATE:		(adjusted		ground[12]	4/5/2001		4/5/2001		4/5/2001		4/5/2001		4/5/2001	
Analyses performed by Southwest Research Institute		downward) [12]												
DIETHYLPHTHALATE		6,300,000	N		82	U	73	U	76	U	81	U	74	U
DIMETHYLPHTHALATE		78,000,000	N		82	U	73	U	76	U	81	U	74	U
DI-N-BUTYLPHTHALATE		780,000 ‡	N		10	B	73	U	76	U	81	U	74	U
DI-N-OCTYLPHTHALATE		160,000 ‡	N		82	U	73	U	76	U	81	U	74	U
FLUORANTHENE		310,000	N		82	U	73	U	650		81	U	74	U
FLUORENE		310,000	N		82	U	73	U	76	U	81	U	74	U
HEXACHLOROBENZENE		400	C		82	U	73	U	76	U	81	U	74	U
HEXACHLOROBUTADIENE		8,200	C		82	U	73	U	76	U	81	U	74	U
HEXACHLOROCYCLOPENTADIENE		47,000	N		82	U	73	U	76	U	81	U	74	U
HEXACHLOROETHANE		46,000	C		82	U	73	U	76	U	81	U	74	U
INDENO[1,2,3-CD]PYRENE		870	C		82	U	73	U	120		81	U	74	U
ISOPHORONE		670,000	C		82	U	73	U	76	U	81	U	74	U
NAPHTHALENE		160,000	N		82	U	73	U	76	U	81	U	74	U
NITROBENZENE		3,900	N		82	U	73	U	76	U	81	U	74	U
N-NITROSO-DI-N-PROPYLAMINE		NA			82	U	73	U	76	U	81	U	74	U
N-NITROSODIPHENYLAMINE		130,000	C		82	U	73	U	76	U	81	U	74	U
O-CHLORONITROBENZENE		26,000	C		82	U	73	U	76	U	81	U	74	U
PENTACHLOROPHENOL		5,300	C		82	U	73	U	76	U	81	U	74	U
PHENANTHRENE		NA			82	U	73	U	270		81	U	74	U
PHENOL		2,300,000	N		82	U	73	U	76	U	81	U	74	U
PHENYL HYDRAZINE		NA			82	U	73	U	76	U	81	U	74	U
PHENYL ISOCYANATE		NA			82	U	73	U	76	U	81	U	74	U
PHENYL ISOTHIOCYANATE		NA			82	U	73	U	76	U	81	U	74	U
PYRENE		230,000	N		82	U	73	U	450		81	U	74	U
SVOC Tentatively Identified Compounds (UG/KG)														
1-EICOSANOL		NA				*		*		*	160	NJ		*
1-NONADECANOL		NA				*	110	NJ		*		*	110	NJ
1-OCTADECENE		NA				*		*	480	NJ		*		*
BENZO(E)PYRENE (CAS# 192-97-2)		NA				*		*	46	NJ		*		*
BENZOTRICHLORIDE		NA				*		*		*		*		*
BENZYL FLUORIDE		NA				*		*		*		*		*
DIPHENYLCHLOROARSINE		NA				*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)		NA				*		*		*		*		*
o-TOLYL ISOCYANIDE		NA				*		*		*		*		*
PHENYL ISOCYANIDE		NA				*		*		*		*		*
PHENYLDICHLOROARSINE		NA				*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Sedgwick Trench Area

SAMPLE ID:	REGION III			5040TR-SB		5065TR-SBDUP01		5054TR-SB		5059TR-SB		5065TR-SB	
TYPE or LOCATION:	Residential		Metals	Trench Bottom		Dup of 5040		Trench Bottom		Trench Bottom		Trench Bottom	
SAMPLE DEPTH:	RBC		Back-	4.5'-5.5'		4.5'-5.5'		3'-5'		9'-10'		2.5'-4'	
SAMPLING DATE:	*(adjusted*		ground[12]	4/5/2001		4/5/2001		4/5/2001		4/5/2001		4/5/2001	
Analyses performed by Southwest Research Institute	*downward)* [12]												
ICP Inorganic Analyses - SW6010B (MG/KG)													
ALUMINUM	7,800	N	**25,798**	13100		16100		18800		12600		14800	
ANTIMONY	**3.1**	N	0.92	1.2	UJ	1.1	UJ	1	UJ	1.1	UJ	0.97	UJ
ARSENIC	0.43	C	**12.64**	2.2		0.62		1.1		1.3		0.7	
BARIUM	**550**	N	298.28	62.4		75.4		85.4		66.5		74.6	
BERYLLIUM	**16**	N	2.35	1.1		1.6		2.1		1.6		1.5	
CADMIUM	**7.8**	N	0.32	0.59	U	0.55	U	0.52	U	0.57	U	0.49	U
CALCIUM	NA		**4,207**	171		296		448		265		306	
CHROMIUM	**12,000** [‡]	N	97.20	26.5		20.6		20.3		26.4		21.4	
HEXAVALENT CHROMIUM	**23**	N	NA	0.488	U	0.436	U	0.449	U	0.466	U	0.432	U
COBALT	**160**	N	22.26	10.9		18		15.5		21.1		14.4	
COPPER	**310**	N	47.76	31.4		29.2		38.2		34.1		27.9	
IRON	2,300	N	**31,951**	26800		19600		18000		24200		19400	
LEAD	**400** [‡]		329.76	11.1		10.1		5		12.8		7.4	
MAGNESIUM	NA		**7,093**	5010		7490		7440		6170		7410	
MANGANESE	160	N	**1,251**	177	K	602	K	438	K	460	K	384	K
MERCURY (by CVAA)	NA		**0.29**	0.06	U	0.05	U	0.05	U	0.05		0.04	U
NICKEL	**160**	N	40.12	22.5		32.4		32.1		29.3		29.4	
PHOSPHORUS	NA		NA	213		220		502		234		217	
POTASSIUM	NA		**4,945**	3820		6010		5700		4750		6020	
SELENIUM	**39**	N	0.88	0.59	U	0.55	U	0.52	U	0.57	U	0.49	U
SILICON	NA		NA	2340		2280		2320		2410		2110	
SILVER	**39**	N	0.74	0.59	U	0.55	U	0.52	U	0.57	U	0.49	U
SODIUM	NA		**55.80**	58.6	U	57.5		55.9		57.3	U	53.7	
STRONTIUM	**4,700**	N	NA	2.5		4.2		7.9		2.3		3.9	
SULFUR	NA		NA	116		18.9		51		98.8		21	
THALLIUM	0.55	N	**1.36**	1.2	U	1.1	U	1	U	1.1	U	0.97	U
TIN	**4,700**	N	NA	2.3	U	2.2	U	2.1	U	2.3	U	1.9	U
TITANIUM	**31,000**	N	NA	835		922		930		899		923	
VANADIUM	55	N	**66.76**	39.8		24		23.1		32.8		23.4	
ZINC	**2,300**	N	308.8	67.9		92.7		96.7		80.4		91.9	

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1 - COMPREHENSIVE SAMPLE RESULTS FOR SPRING VALLEY

Sedgwick Trench Area

SAMPLE ID:	REGION III			5040TR-SB		5065TR-SBDUP01		5054TR-SB		5059TR-SB		5065TR-SB	
TYPE or LOCATION:	Residential		Metals	Trench Bottom		Dup of 5040		Trench Bottom		Trench Bottom		Trench Bottom	
SAMPLE DEPTH:	RBC		Back-	4.5'-5.5'		4.5'-5.5'		3'-5'		9'-10'		2.5'-4'	
SAMPLING DATE:	(adjusted		ground[\2]	4/5/2001		4/5/2001		4/5/2001		4/5/2001		4/5/2001	
Analyses performed by Southwest Research Institute	downward) [\1]												
IC Scan - EPA 300M (MG/KG)													
BROMIDE	NA			1.22	U	1.07	U	1.1	U	1.17	U	1.08	U
CHLORIDE	NA			20.2		7.51		9		8.34		8.17	
FLUORIDE	NA				R		R		R		R		R
NITRATE-N	13,000	N		1.22	U	1.69		1.1	U	1.17	U	1.68	
NITRITE-N	780	N		1.22	UL	1.07	UL	1.1	UL	1.17	UL	1.08	UL
PHOSPHATE-P	NA				R		R		R		R		R
SULFATE	NA			52.8	K	12.5	K	69.1	K	67.7	K	13.5	K
Mustard and Mustard Breakdown Products (UG/KG)													
MUSTARD	10	\3,C		200	U	NS		200	U	200	U	200	U
1,4-OXATHIANE	78,000	\3,N		102	U	87	U	90	U	101	U	87	U
1,4-DITHIANE	78,000	N		99	U	84	U	87	U	97	U	84	U
THIODIGLYCOL	39,100	\3,N		1061	U	940	U	971	U	1043	U	940	U
Lewisite Breakdown Products (UG/KG)													
TOTAL CVAA & CVAO	890	\3,C		10	U	9	U	9	U	10	U	9	U
Other Parameters (MG/KG, unless otherwise indicated)													
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	180	U	180	U	180	U	180	U
ADAMSITE **	NA				**		**		**		**		**
AMMONIA-N	NA			1.21	UL	1.09	UL	1.12	UL	1.16	UL	1.06	UL
CYANIDE	160 [‡]	N		0.61	U	0.54	U	0.56	U	0.58	U	0.53	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table. (‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. Except for mustard, these values were calculated for that investigation. For mustard, the source is the USACHPPM residential HBESL.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE
NS = NOT SAMPLED

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

Table 1A

Comprehensive List Detections for Sedgwick Trench

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Sedgwick Trench Area

SAMPLE ID:	REGION III			5040TR-SB		5065TR-SBDUP01		5054TR-SB		5059TR-SB		5065TR-SB	
TYPE or LOCATION:	Residential		Metals	Trench Bottom		Dup of 5040		Trench Bottom		Trench Bottom		Trench Bottom	
SAMPLE DEPTH:	RBC		Back-	4.5'-5.5'		4.5'-5.5'		3'-5'		9'-10'		2.5'-4'	
SAMPLING DATE:	*(adjusted*		ground[12]	4/5/2001		4/5/2001		4/5/2001		4/5/2001		4/5/2001	
Analyses performed by Southwest Research Institute	*downward)* [11]												
Volatile Organic Compounds - SW8260B (UG/KG)													
4-METHYL-2-PENTANONE(Methyl Isobutyl Ketone, CAS#108101)	630,000	N		1	UJ	1.1	UJ	2	J	1.1	UJ	1.1	UJ
ACETONE	780,000	N		1	B	2	B	3	B	2	B	2	B
DICHLORODIFLUOROMETHANE	1,600,000	N		1	B	1.1	U	1.3	U	1	B	1	B
M&P-XYLENE	1,600,000	N		1	UJ	2	J	1.3	UJ	1.1	UJ	1.1	UJ
O-XYLENE	1,600,000	N		1	UJ	2	J	1.3	UJ	1.1	UJ	1.1	UJ
TOLUENE	1,600,000	N		1	UJ	4	J	1.3	UJ	1.1	UJ	1.1	UJ
VOC Tentatively Identified Compounds (UG/KG)													
1-NONENE, 4,6,8-TRIMETHYL-	NA				*		*		*	3	NJ		*
BENZENE, (1-METHYLETHENYL)- (CAS# 98-83-9)	550,000	N		1	NJ	0.8	NJ	1	NJ		*		*
BUTANE, 1,1-OXYBIS-	NA			1	NJ		*	0.9	NJ		*		*
CYCLOTETRASILOXANE, OCTAMETHYL (CAS# 556-67-2)	NA				*	1	NJ	3	NJ	7	NJ		*
FURAN, TETRAHYDRO-	84,000	C			*	1	NJ		*		*	1	NJ
PROPANE, OCTAFLUORO-	NA				*	2	NJ		*		*	2	NJ
Semivolatile Organic Compounds - SW8270C (UG/KG)													
ANTHRACENE	2,300,000	N		82	U	73	U	75	J	81	U	74	U
BENZO[A]ANTHRACENE	870	C		82	U	73	U	340		81	U	74	U
BENZO[A]PYRENE	87	C		82	U	73	U	140		81	U	74	U
BENZO[B]FLUORANTHENE	870	C		82	U	73	U	300		81	U	74	U
BENZO[G,H,I]PERYLENE	NA			82	U	73	U	97		81	U	74	U
BENZO[K]FLUORANTHENE	8,700	C		82	U	73	U	130		81	U	74	U
BIS(2-ETHYLHEXYL)PHTHALATE	46,000	C		82	U	73	U	51	J	81	U	74	U
CHRYSENE	87,000	C		82	U	73	U	160		81	U	74	U
DIBENZ[A,H]ANTHRACENE	87	C		82	U	73	U	34	J	81	U	74	U
DI-N-BUTYLPHTHALATE	780,000 ‡	N		10	B	73	U	76	U	81	U	74	U
FLUORANTHENE	310,000	N		82	U	73	U	650		81	U	74	U
INDENO[1,2,3-CD]PYRENE	870	C		82	U	73	U	120		81	U	74	U
PHENANTHRENE	NA			82	U	73	U	270		81	U	74	U
PYRENE	230,000	N		82	U	73	U	450		81	U	74	U
SVOC Tentatively Identified Compounds (UG/KG)													
1-EICOSANOL	NA				*		*		*	160	NJ		*
1-NONADECANOL	NA				*	110	NJ		*		*	110	NJ
1-OCTADECENE	NA				*		*	480	NJ		*		*
BENZO(E)PYRENE (CAS# 192-97-2)	NA				*		*	46	NJ		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 1A - COMPREHENSIVE LIST DETECTIONS

Sedgwick Trench Area

SAMPLE ID:	REGION III			5040TR-SB		5065TR-SBDUP01		5054TR-SB		5059TR-SB		5065TR-SB	
TYPE or LOCATION:	Residential		Metals	Trench Bottom		Dup of 5040		Trench Bottom		Trench Bottom		Trench Bottom	
SAMPLE DEPTH:	RBC		Back-	4.5'-5.5'		4.5'-5.5'		3'-5'		9'-10'		2.5'-4'	
SAMPLING DATE:	*(adjusted*		ground[\2]	4/5/2001		4/5/2001		4/5/2001		4/5/2001		4/5/2001	
Analyses performed by Southwest Research Institute	*downward)*[\1]												
ICP Inorganic Analyses - SW6010B (MG/KG)													
ALUMINUM	7,800	N	**25,798**	13100		16100		18800		12600		14800	
ARSENIC	0.43	C	**12.64**	2.2		0.62		1.1		1.3		0.7	
BARIUM	**550**	N	298.28	62.4		75.4		85.4		66.5		74.6	
BERYLLIUM	**16**	N	2.35	1.1		1.6		2.1		1.6		1.5	
CALCIUM	NA		**4,207**	171		296		448		265		306	
CHROMIUM	**12,000** ‡	N	97.20	26.5		20.6		20.3		26.4		21.4	
COBALT	**160**	N	22.26	10.9		18		15.5		21.1		14.4	
COPPER	**310**	N	47.76	31.4		29.2		38.2		34.1		27.9	
IRON	2,300	N	**31,951**	26800		19600		18000		24200		19400	
LEAD	**400** ‡		329.76	11.1		10.1		5		12.8		7.4	
MAGNESIUM	NA		**7,093**	5010		7490		7440		6170		7410	
MANGANESE	160	N	**1,251**	177	K	602	K	438	K	460	K	384	K
MERCURY (by CVAA)	NA		**0.29**	0.06	U	0.05	U	0.05	U	0.05		0.04	U
NICKEL	**160**	N	40.12	22.5		32.4		32.1		29.3		29.4	
PHOSPHORUS	NA		NA	213		220		502		234		217	
POTASSIUM	NA		**4,945**	3820		6010		5700		4750		6020	
SILICON	NA		NA	2340		2280		2320		2410		2110	
SODIUM	NA		**55.80**	58.6	U	57.5		55.9		57.3	U	53.7	
STRONTIUM	**4,700**	N	NA	2.5		4.2		7.9		2.3		3.9	
SULFUR	NA		NA	116		18.9		51		98.8		21	
TITANIUM	**31,000**	N	NA	835		922		930		899		923	
VANADIUM	55	N	**66.76**	39.8		24		23.1		32.8		23.4	
ZINC	**2,300**	N	308.8	67.9		92.7		96.7		80.4		91.9	
IC Scan - EPA 300M (MG/KG)													
CHLORIDE	NA			20.2		7.51		9		8.34		8.17	
NITRATE-N	13,000	N		1.22	U	1.69		1.1	U	1.17	U	1.68	
SULFATE	NA			52.8	K	12.5	K	69.1	K	67.7	K	13.5	K

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds.
Source is the April 25, 2003 USEPA RBC Table.
(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.
C = Carcinogen as listed on the USEPA RBC table.
NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

Table 2

AUES List of Compounds for Sedgwick Trench Samples (Includes Indicator and Agent Breakdown Compounds)

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

Sedgwick Trench Area

SAMPLE ID:		**REGION III**			**5040TR-SB**		**5065TR-SBDUP01**		**5054TR-SB**		**5059TR-SB**		**5065TR-SB**	
TYPE or LOCATION:		**Residential**		**Metals**	**Trench Bottom**		**Dup OF 5040**		**Trench Bottom**		**Trench Bottom**		**Trench Bottom**	
SAMPLE DEPTH:		**RBC**		**Back-**	**4.5'-5.5'**		**4.5'-5.5'**		**3'-5'**		**9'-10'**		**2.5'-4'**	
SAMPLING DATE:		*(adjusted*		**ground**[12]	**4/5/2001**		**4/5/2001**		**4/5/2001**		**4/5/2001**		**4/5/2001**	
Analyses performed by Southwest Research Institute		*downward)* [12]												
Volatile Organic Compounds - SW8260B (UG/KG)														
ACETONITRILE		NA			5.2	U	5.3	U	6.3	U	5.4	U	5.3	U
ACROLEIN		160,000	N		5.2	U	5.3	U	6.3	U	5.4	U	5.3	U
BENZYL BROMIDE		NA			5.2	UJ	5.3	UJ	6.3	UJ	5.4	UJ	5.3	UJ
BENZYL CHLORIDE		3,800	C		5.2	UJ	5.3	UJ	6.3	UJ	5.4	UJ	5.3	UJ
CARBON DISULFIDE		780,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
CARBON TETRACHLORIDE		4,900	C		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
CHLOROBENZENE		160,000	N		1	UJ	1.1	UJ	1.3	UJ	1.1	UJ	1.1	UJ
CHLOROFORM		78,000	N		1	U	1.1	U	1.3	U	1.1	U	1.1	U
CHLOROPICRIN		NA			26	UJ	27	UJ	32	UJ	27	UJ	27	UJ
VOC Tentatively Identified Compounds (UG/KG)														
ALCOHOL		NA				*		*		*		*		*
ALLYL ALCOHOL		NA				*		*		*		*		*
BENZYL IODIDE		NA				*		*		*		*		*
BROMOACETONE		780,000 ‡	N			*		*		*		*		*
BROMOBENZENE		NA				*		*		*		*		*
BROMOMETHYL ETHER		NA				*		*		*		*		*
BUTYL MERCAPTAN		NA				*		*		*		*		*
CHLORINATED ACETONE		NA				*		*		*		*		*
CHLORINATED CARBON DISULFIDE		780,000 ‡	N			*		*		*		*		*
CHLOROACETONE		780,000 ‡	N			*		*		*		*		*
CHLOROACETONITRILE		NA				*		*		*		*		*
CHLOROMETHYL ETHER		NA				*		*		*		*		*
CHLOROMETHYL ETHYL ETHER		NA				*		*		*		*		*
CROTONALDEHYDE		340	C			*		*		*		*		*
ETHYL BROMOACETATE		7,000,000 ‡	N			*		*		*		*		*
ETHYL CHLOROFORMATE		NA				*		*		*		*		*
ETHYL DIBROMOACETATE		7,000,000 ‡	N			*		*		*		*		*
ETHYL MERCAPTAN		NA				*		*		*		*		*
METHYL BROMOACETATE		NA				*		*		*		*		*
METHYL CHLOROACETATE		NA				*		*		*		*		*
METHYL CHLOROFORMATE		NA				*		*		*		*		*
METHYL CHLOROSULFONATE		NA				*		*		*		*		*
PERCHLOROMETHYLMERCAPTAN		NA				*		*		*		*		*
THIOPHENE		NA				*		*		*		*		*
TRICHLOROACETONITRILE		NA				*		*		*		*		*

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

Sedgwick Trench Area

SAMPLE ID:		REGION III			5040TR-SB		5065TR-SBDUP01		5054TR-SB		5059TR-SB		5065TR-SB	
TYPE or LOCATION:		Residential		Metals	Trench Bottom		Dup OF 5040		Trench Bottom		Trench Bottom		Trench Bottom	
SAMPLE DEPTH:		RBC		Back-	4.5'-5.5'		4.5'-5.5'		3'-5'		9'-10'		2.5'-4'	
SAMPLING DATE:		*(adjusted*		ground[2]	4/5/2001		4/5/2001		4/5/2001		4/5/2001		4/5/2001	
Analyses performed by Southwest Research Institute		*downward)* [1]												
Semivolatile Organic Compounds - SW8270C (UG/KG)														
HEXACHLOROETHANE		46,000	C		82	U	73	U	76	U	81	U	74	U
O-CHLORONITROBENZENE		26,000	C		82	U	73	U	76	U	81	U	74	U
PHENYL HYDRAZINE		NA			82	U	73	U	76	U	81	U	74	U
PHENYL ISOCYANATE		NA			82	U	73	U	76	U	81	U	74	U
PHENYL ISOTHIOCYANATE		NA			82	U	73	U	76	U	81	U	74	U
SVOC Tentatively Identified Compounds (UG/KG)														
BENZOTRICHLORIDE		NA				*		*		*		*		*
BENZYL FLUORIDE		NA				*		*		*		*		*
DIPHENYLCHLOROARSINE		NA				*		*		*		*		*
OLEIC ACID (CAS# 112-80-1)		NA				*		*		*		*		*
o-TOLYL ISOCYANIDE		NA				*		*		*		*		*
PHENYL ISOCYANIDE		NA				*		*		*		*		*
PHENYLDICHLOROARSINE		NA				*		*		*		*		*
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	13100		16100		18800		12600		14800	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	2.2		0.62		1.1		1.3		0.7	
BARIUM *(Indicator only)*		**550**	N	298.28	62.4		75.4		85.4		66.5		74.6	
CADMIUM *(Indicator only)*		**7.8**	N	0.32	0.59	U	0.55	U	0.52	U	0.57	U	0.49	U
CALCIUM *(Indicator only)*		NA		**4,207**	171		296		448		265		306	
IRON		2,300	N	**31,951**	26800		19600		18000		24200		19400	
LEAD *(Indicator only)*		**400** [‡]		329.76	11.1		10.1		5		12.8		7.4	
MAGNESIUM		NA		**7,093**	5010		7490		7440		6170		7410	
MANGANESE *(Indicator only)*		160	N	**1,251**	177	K	602	K	438	K	460	K	384	K
NICKEL *(Indicator only)*		**160**	N	40.12	22.5		32.4		32.1		29.3		29.4	
PHOSPHORUS		NA		NA	213		220		502		234		217	
POTASSIUM *(Indicator only)*		NA		**4,945**	3820		6010		5700		4750		6020	
SELENIUM *(Indicator only)*		**39**	N	0.88	0.59	U	0.55	U	0.52	U	0.57	U	0.49	U
SILICON		NA		NA	2340		2280		2320		2410		2110	
SODIUM		NA		**55.80**	58.6	U	57.5		55.9		57.3	U	53.7	
SULFUR		NA		NA	116		18.9		51		98.8		21	
TIN *(Indicator only)*		**4,700**	N	NA	2.3	U	2.2	U	2.1	U	2.3	U	1.9	U
TITANIUM *(Indicator only)*		**31,000**	N	NA	835		922		930		899		923	
ZINC		**2,300**	N	308.8	67.9		92.7		96.7		80.4		91.9	
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)														
BROMIDE		NA			1.22	U	1.07	U	1.1	U	1.17	U	1.08	U
CHLORIDE		NA			20.2		7.51		9		8.34		8.17	
FLUORIDE		NA				R		R		R		R		R
NITRATE-N		13,000	N		1.22	U	1.69		1.1	U	1.17	U	1.68	
SULFATE		NA			52.8	K	12.5	K	69.1	K	67.7	K	13.5	K

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2 - AUES LIST OF COMPOUNDS (Includes Indicator Compounds and Agent Breakdown Products)

Sedgwick Trench Area

SAMPLE ID:	REGION III			5040TR-SB		5065TR-SBDUP01		5054TR-SB		5059TR-SB		5065TR-SB	
TYPE or LOCATION:	Residential		Metals	Trench Bottom		Dup OF 5040		Trench Bottom		Trench Bottom		Trench Bottom	
SAMPLE DEPTH:	RBC		Back-	4.5'-5.5'		4.5'-5.5'		3'-5'		9'-10'		2.5'-4'	
SAMPLING DATE:	*(adjusted*		ground[\2]	4/5/2001		4/5/2001		4/5/2001		4/5/2001		4/5/2001	
Analyses performed by Southwest Research Institute	*downward)* [\1]												
Mustard and Mustard Breakdown Products (UG/KG)													
MUSTARD	10	\3,C		200	U	NS		200	U	200	U	200	U
1,4-OXATHIANE *(Agent Breakdown Product only)*	78,000	\3,N		102	U	87	U	90	U	101	U	87	U
1,4-DITHIANE *(Agent Breakdown Product only)*	78,000	N		99	U	84	U	87	U	97	U	84	U
THIODIGLYCOL *(Agent Breakdown Product only)*	39,100	\3,N		1061	U	940	U	971	U	1043	U	940	U
Lewisite Breakdown Products (UG/KG)													
TOTAL CVAA & CVAO *(Agent Breakdown Product only)*	890	\3,C		10	U	9	U	9	U	10	U	9	U
Other Parameters (MG/KG, unless otherwise indicated)													
2,4,6-TRINITROTOLUENE (UG/KG)	21,000	C		180	U	180	U	180	U	180	U	180	U
ADAMSITE **	NA				**		**		**		**		**
AMMONIA-N	NA			1.21	UL	1.09	UL	1.12	UL	1.16	UL	1.06	UL
CYANIDE *(Indicator only)*	160 [‡]	N		0.61	U	0.54	U	0.56	U	0.58	U	0.53	U

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table.

(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

\3 RBC source is 1995 OSR FUDS Remedial Investigation Report. Except for mustard, these values were calculated for that investigation. For mustard, the source is the USACHPPM residential HBESL.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.

C = Carcinogen as listed on the USEPA RBC table.

NA = NOT AVAILABLE

*** Sample was scanned using GC/MS unit and the analyte was not identified using the mass spectral library search.**

Shading indicates result exceeds higher (bolded) of RBC or background.

**** The Edgewood Chemical Biological Center performed the Adamsite analyses. ECBC's procedure was to run samples based on the initial arsenic content. These samples were not analyzed for Adamsite as the arsenic concentration was determined to be too low.**

Table 2A

AUES List Detections for Sedgwick Trench Samples (Includes Indicator and Agent Breakdown Compounds)

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 2A - AUES LIST DETECTIONS (Includes Indicator Compounds and Agent Breakdown Products)

Sedgwick Trench Area

SAMPLE ID:		**REGION III**			**5040TR-SB**		**5065TR-SBDUP01**		**5054TR-SB**		**5059TR-SB**		**5065TR-SB**	
TYPE or LOCATION:		**Residential**		**Metals**	**Trench Bottom**		**Dup OF 5040**		**Trench Bottom**		**Trench Bottom**		**Trench Bottom**	
SAMPLE DEPTH:		**RBC**		**Back-**	**4.5'-5.5'**		**4.5'-5.5'**		**3'-5'**		**9'-10'**		**2.5'-4'**	
SAMPLING DATE:		*(adjusted*		**ground**[\2]	**4/5/2001**		**4/5/2001**		**4/5/2001**		**4/5/2001**		**4/5/2001**	
Analyses performed by Southwest Research Institute		*downward)* [\1]												
ICP Inorganic Analyses - SW6010B (MG/KG)														
ALUMINUM		7,800	N	**25,798**	13100		16100		18800		12600		14800	
ARSENIC *(Indicator only)*		0.43	C	**12.64**	2.2		0.62		1.1		1.3		0.7	
BARIUM *(Indicator only)*		**550**	N	298.28	62.4		75.4		85.4		66.5		74.6	
CALCIUM *(Indicator only)*		NA		**4,207**	171		296		448		265		306	
IRON		2,300	N	**31,951**	26800		19600		18000		24200		19400	
LEAD *(Indicator only)*		**400** ‡		329.76	11.1		10.1		5		12.8		7.4	
MAGNESIUM		NA		**7,093**	5010		7490		7440		6170		7410	
MANGANESE *(Indicator only)*		160	N	**1,251**	177	K	602	K	438	K	460	K	384	K
NICKEL *(Indicator only)*		**160**	N	40.12	22.5		32.4		32.1		29.3		29.4	
PHOSPHORUS		NA		NA	213		220		502		234		217	
POTASSIUM *(Indicator only)*		NA		**4,945**	3820		6010		5700		4750		6020	
SILICON		NA		NA	2340		2280		2320		2410		2110	
SODIUM		NA		**55.80**	58.6	U	57.5		55.9		57.3	U	53.7	
SULFUR		NA		NA	116		18.9		51		98.8		21	
TITANIUM *(Indicator only)*		**31,000**	N	NA	835		922		930		899		923	
ZINC		**2,300**	N	308.8	67.9		92.7		96.7		80.4		91.9	
IC Scan - EPA 300M *(Indicator Compounds Only)* (MG/KG)														
CHLORIDE		NA			20.2		7.51		9		8.34		8.17	
NITRATE-N		13,000	N		1.22	U	1.69		1.1	U	1.17	U	1.68	
SULFATE		NA			52.8	K	12.5	K	69.1	K	67.7	K	13.5	K

\1 RBC for non-carcinogenic compounds (N) adjusted downward by a factor of 10 to account for cumulative effect of all such compounds. Source is the April 25, 2003 USEPA RBC Table.

(‡) See RBC Key table for chemicals not on USEPA table.

\2 95th percentile of the background concentration. This value was used for the comparison when it was higher than the RBC.

N = Non-carcinogen. This RBC was adjusted down by a factor of 10.

C = Carcinogen as listed on the USEPA RBC table.

NA = NOT AVAILABLE

Shading indicates result exceeds higher (bolded) of RBC or background.

Table 3

AUES List Scan Results for Sedgwick Trench Samples

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

Sedgwick Trench Area

Analyses performed by Southwest Research Institute			**5040TR-SB**	**5065TR-SBDUP01 (of 5040TR)**	**5054TR-SB**	**5059TR-SB**	**5065TR-SB**
COMPOUND	Chemical Abstract Service (CAS) No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
Acetyl Fluoride	557-99-3	*fluoride*	NO	NO	NO	NO	NO
Allyl Isocyanide		*cyanide*	NO	NO	NO	NO	NO
Allyl Isothiocyanate	57-06-7	*cyanide*	NO	NO	NO	NO	NO
Aluminium Selenide	1302-82-5	*aluminium, selenium*	NO	NO	NO	NO	NO
Ammonium Chloride	12125-02-09	*chloride, ammonia*	NO	NO	NO	NO	NO
Ammonium Cyanide		*ammonia, cyanide*	NO	NO	NO	NO	NO
Ammonium Nitrate	6484-52-2	*nitrate, ammonia*	NO	NO	NO	NO	NO
Ammonium Picrate	131-74-8	*ammonia*	NO	NO	NO	NO	NO
Arsenic Trichloride	7784-34-1	*chloride, arsenic*	YES	YES	YES	YES	YES
Arsenic Trifluoride	7784-35-2	*fluoride, arsenic*	NO	NO	NO	NO	NO
Arsenic Trioxide	1327-53-3	*arsenic*	YES	YES	YES	YES	YES
Arsine	7784-42-1	*arsenic*	YES	YES	YES	YES	YES
Barium Peroxide	1304-29-6	*barium*	YES	YES	YES	YES	YES
Bromine	7726-95-6	*bromide*	NO	NO	NO	NO	NO
Bromoketone	593-95-3	*bromide*	NO	NO	NO	NO	NO
Bromoacetyl Bromide	598-21-0	*bromide*	NO	NO	NO	NO	NO
Bromobenzyl Cyanide	5798-79-8	*bromide, cyanide*	NO	NO	NO	NO	NO
Bromoxylyl Cyanide		*bromide, cyanide*	NO	NO	NO	NO	NO
Cacodyl	144-21-8	*sodium*, arsenic*	NO	YES	YES	NO	YES
Cacodyl Bromide		*bromide*	NO	NO	NO	NO	NO
Cacodyl Chloride		*chloride*	YES	YES	YES	YES	YES
Cacodyl Cyanide		*cyanide*	NO	NO	NO	NO	NO
Cadmium Methyl		*cadmium*	NO	NO	NO	NO	NO
Calcium Carbonate	471-34-1	*calcium*	YES	YES	YES	YES	YES
Calcium Sulfate	7778-18-9	*sulfate, calcium*	YES	YES	YES	YES	YES
Chlorine	7782-50-5	*chloride*	YES	YES	YES	YES	YES
Cyanogen	460-19-5	*cyanide*	NO	NO	NO	NO	NO
Cyanogen Bromide	506-68-3	*bromide, cyanide*	NO	NO	NO	NO	NO
Cyanogen Chloride	506-77-4	*chloride, cyanide*	NO	NO	NO	NO	NO
Dichloromethyl Ether	542-88-1	*chloride*	YES	YES	YES	YES	YES
Dichloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES	YES
Dichloropropyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES	YES
Dimethylarsine	593-57-7	*arsenic*	YES	YES	YES	YES	YES
Ethyl Sulfide	352-93-2	*sulfur*	YES	YES	YES	YES	YES
Hydrochloric Acid	7647-01-0	*chloride*	YES	YES	YES	YES	YES
Hydrocyanic Acid	74-90-8	*cyanide*	NO	NO	NO	NO	NO
Hydrofluoric Acid	7664-39-3	*fluoride*	NO	NO	NO	NO	NO
Hydrogen Selenide	7/5/7783	*selenium*	NO	NO	NO	NO	NO
Lead Ferrocyanide		*lead, iron, cyanide*	NO	NO	NO	NO	NO
Lead Peroxide	1309-60-0	*lead*	YES	YES	YES	YES	YES
Lead Thiocyanate	592-87-0	*lead, cyanide*	NO	NO	NO	NO	NO

SUMMARY OF VALIDATED SAMPLE RESULTS

TABLE 3 - AUES LIST SCAN RESULTS

Sedgwick Trench Area

Analyses performed by Southwest Research Institute			5040TR-SB	5065TR-SBDUP01 (of 5040TR)	5054TR-SB	5059TR-SB	5065TR-SB
COMPOUND	Chemical Abstract Service (CAS) No.	*INDICATOR COMPOUNDS*	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?	All Indicators Detected?
Magnesium Arsenide		*magnesium*, arsenic*	YES	YES	YES	YES	YES
Magnesium Carbonate	546-93-0	*magnesium**	YES	YES	YES	YES	YES
Magnesium Oxide	1309-48-4	*magnesium**	YES	YES	YES	YES	YES
Methyl Chloroarsine		*chloride, arsenic*	YES	YES	YES	YES	YES
Methyl Isocyanide	593-75-9	*cyanide*	NO	NO	NO	NO	NO
Methyl Selenide	593-79-3	*selenium*	NO	NO	NO	NO	NO
Nickel Carbonyl	13463-39-3	*nickel*	YES	YES	YES	YES	YES
Oxalyl Chloride	79-37-8	*chloride*	YES	YES	YES	YES	YES
Phenylcarbylamine Chloride	622-44-6	*chloride*	YES	YES	YES	YES	YES
Phosgene	75-44-5	*chloride*	YES	YES	YES	YES	YES
Potassium Chlorate	3811-04-9	*chloride, potassium**	YES	YES	YES	YES	YES
Potassium Nitrate	7757-79-1	*nitrate, potassium**	NO	YES	NO	NO	YES
Potassium Perchlorate	7778-74-7	*potassium**	YES	YES	YES	YES	YES
Potassium Permanganate	7722-64-7	*potassium*, manganese*	YES	YES	YES	YES	YES
Silicon	7440-21-3	*silicon*	YES	YES	YES	YES	YES
Silicon Tetrachloride	409-21-2	*chloride, silicon*	YES	YES	YES	YES	YES
Sodium Bicarbonate	144-55-8	*sodium**	NO	YES	YES	NO	YES
Sodium Chlorate	7775-09-9	*chloride, sodium**	NO	YES	YES	NO	YES
Sodium Cyanide	143-33-9	*sodium, cyanide*	NO	NO	NO	NO	NO
Sodium Hydroxide	1310-73-2	*sodium**	NO	YES	YES	NO	YES
Sodium Nitrate	7631-99-4	*nitrate, sodium**	NO	YES	NO	NO	YES
Sodium Oleate	143-19-1	*sodium**	NO	YES	YES	NO	YES
Sodium Silicate	6834-92-0	*sodium*, silicon*	NO	YES	YES	NO	YES
Sodium Stearate	822-16-2	*sodium**	NO	YES	YES	NO	YES
Stannic Chloride (Tin Tetrachloride)	7646-78-8	*chloride, tin*	NO	NO	NO	NO	NO
Sulfur Chloride	10025-67-9	*chloride, sulfur*	YES	YES	YES	YES	YES
Sulfur Trioxide	7446-11-9	*sulfur*	YES	YES	YES	YES	YES
Sulfuryl Chloride	7791-25-5	*chloride, sulfur*	YES	YES	YES	YES	YES
Tetrachloromethyl Sulfide		*chloride, sulfur*	YES	YES	YES	YES	YES
Thermite		*aluminum, iron*	YES	YES	YES	YES	YES
Thiophosgene	463-71-8	*chloride, sulfur*	YES	YES	YES	YES	YES
Titanium Tetrachloride	7550-45-0	*chloride, titanium*	YES	YES	YES	YES	YES
Trichloroacetyl Chloride	76-02-8	*chloride*	YES	YES	YES	YES	YES
Trichloroacetyl Cyanide		*chloride, cyanide*	NO	NO	NO	NO	NO
Trichlorohydrin	96-18-4	*chloride*	YES	YES	YES	YES	YES
Xylyl Bromide	35884-77-6	*bromide*	NO	NO	NO	NO	NO
Zinc Chloride mixture	7646-85-7	*chloride, zinc*	YES	YES	YES	YES	YES
Zinc Oxide	1314-13-2	*zinc*	YES	YES	YES	YES	YES

YES — **Presence of this compound cannot be ruled out.**

NO — **Presence of this compound not indicated.**

Shading indicates an exceedance of the RBC or background of at least one of the indicator compounds if all were detected. The asterisk shows which indicator compound exceeded.

RBC KEY

Note: In accordance with standard Risk Assessment practice, Risk-Based Concentrations (RBCs) for structurally, chemically, or toxicologically similar chemicals were used for those chemicals that did not have RBCs. For this investigation, these included the following:

RBC for 1,3-Dichloropropene was used for CIS and TRANS-1,3-Dichloropropene
RBC for Hexane was used for Cyclohexane and Methylcyclohexane
RBC for Acetone was used for Bromoacetone and Chloroacetone
RBC for Carbon Disulfide was used for Chlorinated Carbon Disulfide
RBC for Ethyl Acetate was used for Ethyl Bromoacetate and Ethyl Dibromoacetate
RBC for Beta-Chloronaphthalene was used for 2-Chloronaphthalene (same chemical)
RBC for 4-Nitrophenol was used for 2-Nitrophenol
RBC for Acenapthene was used for Acenaphthylene
RBC for Dibutylphthalate was used for Di-N-Butylphthalate (same chemical)
RBC for Dioctylphthalate was used for Di-N-Octylphthalate (same chemical)
RBC for Alpha-HCH was used for Alpha-Lindane (same chemical)
RBC for Chromium III was used for Chromium
RBC for Cyanide (Free) was used for Cyanide
For Lead, the USEPA recommended residential land use screening level of 400 ppm was used.

Attachment A

Quality Assurance Report

QUALITY ASSURANCE SUMMARY REPORT FOR

SOIL SAMPLES ASSOCIATED WITH SPRING VALLEY OU-5 SEDGWICK AUES LIST SAMPLING

INTRODUCTION

This data validation summary report covers environmental soil samples collected from the Sedgwick Trench Area of the Spring Valley OU-5 project, Washington, DC. These samples were included in laboratory Sample Delivery Group 159223. The samples were analyzed for Full Scan Parameters including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), mustard degradation products, lewisite degradation products, trinitrotoluene, metals, ions (bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate) and selected wet chemistry parameters (ammonia and total cyanide). VOC and SVOC analyses included tentatively identified compounds (TICs).

All work was performed in accordance with the Revised Final Workplan for Sedgwick Trench Area Investigation *(Parsons, June 2001).* The Workplan included a Quality Assurance Project Plan (QAPjP) which was prepared and approved for use to ensure generation of legally defensible data. Southwest Research Institute of San Antonio, Texas, following procedures outlined in the QAPjP and the WMP, performed all analyses with the exception of Mustard and Adamsite, which were analyzed by the Army's Edgewood Chemical and Biological Command (ECBC) laboratory.

EVALUATION CRITERIA

The data submitted by the laboratory has been reviewed and validated following the guidelines described in the QAPjP and consistent with Region III modifications to the USEPA Functional Guidelines for Evaluating Organic and Inorganic Data. All information included in the data packages have been reviewed and validated including sample results, laboratory quality control results, chain-of-custody forms and all supporting raw data.

This report addresses only those problems affecting the usability of the data. A discussion of data validation qualifiers (flags) applied to the data and reasons for the qualifiers is also presented.

Deviations from the QAPjP or the analytical methods and a discussion of the overall usability of the data are also presented in the summary section of this report. QC problems leading to qualifying of data as unusable or rejected are presented in the Major Problems section. QA/QC problems leading to qualifying of data as estimated or not detected are presented in the Minor Problems section. Details concerning samples and target analytes affected are also presented.

SUMMARY

This section of this report discusses deviations from the QAPjP, other laboratory problems, QC problems leading to qualifying of data as rejected, estimated or not detected and the overall usability of the data.

Except as indicated in this report, the samples were collected, prepared and analyzed following the procedures described in the Workplan and the QAPjP. Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures. The types and number of field and laboratory QC samples collected and analyzed met the QA objectives specified in the QAPjP.

Major QA/QC problems leading to rejection of data were found during validation of the data for some samples for some wet chemistry parameters. Details regarding the samples and analytes affected and the magnitude of the problems are presented in the Major Problems section.

Minor QA/QC problems leading to qualifying of data as estimated or not detected included: laboratory blank contamination; accuracy (% recovery) outliers, precision outliers, surrogate outliers, internal standard outliers and reported detections less than the project reporting limit (PRL). Details concerning these QC problems are presented in the Minor Problems section.

MAJOR PROBLEMS

As indicated above major problems were found during validation of the data for this SDG. The parameters affected are fluoride and phosphate. The major problem affecting the wet chemistry parameter involved extremely poor (0%) percent recoveries associated with the MS/MSD samples. Details regarding these problems are presented below by parameter. Accordingly, the completeness goal for the analyses was not met.

Wet Chemistry

The laboratory reported no (0%) percent recovery for target analytes phosphate and fluoride for the MS/MSD samples associated with the Sedgwick samples. All reported nondetects for these analytes in the associated Sedgwick samples have been qualified as unusable (rejected) and flagged 'R'. The laboratory indicated that these anions may form insoluble salts with certain cations present in the samples and therefore will precipitate out of solution.

MINOR PROBLEMS

This section of the QA summary report discusses QC problems leading to qualifying of data as estimated. The "J" qualifier is used to indicate estimated results. The flag indicates that the analyte was detected in the sample and the result is either less than the PRL or affected by at least one minor QA/QC problem found during validation. The 'B' qualifier indicates the associated analyte was also detected in the field or laboratory associated with the sample. The reported result should be considered estimated and may be biased high. The 'D' qualifier indicates the reported result was obtained from a diluted sample. The dilution was necessary either because the calibration was exceeded or matrix interferences in the sample. Generally, all reported results affected by a minor problem are usable for most decision-making purposes.

As indicated above, QC problems leading to qualifying of data as estimated included laboratory blank contamination; accuracy outliers, internal standard outliers and reported detections less than the PRL. Details concerning these problems are presented below.

Volatile Organic Compounds (VOCs)

- The laboratory reported internal standard area outliers for each of the samples in this SDG. Three of the four required internal standards reported outliers. All reported results for the target analytes assigned to the affected internal standards, for quantitation, have been qualified as estimated (flagged 'UJ/J'). Data with the 'J' qualifier are considered usable for most decision-making purposes, including risk assessment.

- Target VOC acetone was detected in at least one blank associated with some of the samples. Some reported results for acetone in associated samples have been requalified as estimated and flagged 'B'. Data with the 'B' qualifier are considered usable for most decision-making purposes, including risk assessment.

- Accuracy outliers were reported for target VOCs toluene and chlorobenzene. The percent recoveries for the MS/MSD associated with this SDG were below the lower control limit. All reported results for these analytes in the affected samples have been qualified as estimated and flagged 'UJ'. Although the affected analytes were not detected in the samples, the reported PRLs should be considered estimated.

Semivolatile Organic Compounds (SVOCs)

- Reported results less than the PRL have been qualified as estimated and flagged "J". Target analytes affected include anthracene and dibenz(a,h)anthracene.

- Target SVOC di-n-butylphthalate was detected in the laboratory blanks associated with the samples. Reported results for this analyte in the associated samples have been qualified as estimated and flagged 'B' due to the blank contamination. Data with the 'B' qualifier should be considered estimated and usable for most decision-making purposes, including risk assessment.

Metals

- Accuracy (matrix spike percent recovery) outliers were reported for target metal antimony. The reported recoveries for antimony in the associated MS/MSD were below the required control limits (75-125%). The reported results for these metals in the affected soil samples have been qualified as estimated and flagged 'L/UL'. The 'L' qualifier indicates a low bias meaning the actual result or PRL may be higher than reported. The reported result is usable for most decision-making purposes, including risk assessment.

- Accuracy (matrix spike percent recovery) outliers were reported for target metal manganese. The reported recoveries for manganese in the associated MS/MSD were above the required control limits (75-125%). The reported results for these metals in the affected soil samples have been qualified as estimated and flagged 'K'. The 'K' qualifier indicates a high bias meaning the actual result may be lower than reported. The reported result is usable for most decision-making purposes, including risk assessment.

Wet Chemistry Parameters

- Accuracy outliers were reported for ammonia, nitrite and sulfate for the MS/MSDs associated with some of the samples. The reported results for these analytes in the associated samples have been qualified as estimated and flagged 'L/UL' (low bias – nitrite and ammonia) or 'K' (high bias - sulfate). All reported results are usable as reported for most decision-making purposes, including risk assessment.

DATA VALIDATION QUALIFIERS

U = The compound was analyzed for and is not present. The associated numerical value (Practical Quantitation Limit - PQL) indicates the approximate concentration necessary to quantify the compound in the sample.

UJ = A combination of the "U" and "J" flags. The compound was analyzed for and is not present. The associated numerical value (Practical Quantitation Limit - PQL) has been qualified as estimated due to a QC anomaly.

J = The compound was detected in the sample, but the reported result is “estimated” (could not be accurately quantified) either because the reported value is less than the PQL or at least one minor Quality Control (QC) problem was found during validation. Data with a “J” qualifier is considered usable for most decision-making purposes, including risk assessment.

K = The analyte was detected in the sample. The reported result is considered estimated and may be biased high due to a minor QA/QC problem. The true concentration of present in the sample may be lower than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

L = The analyte was detected in the sample. The reported result is considered estimated and may be biased low due to a minor QA/QC problem. The true concentration present in the sample may be higher than the reported result. The data is considered estimated and usable for most decision-making purposes, including risk assessment.

NJ = This flag indicates presumptive evidence of a compound. It is only used for Tentatively Identified Compounds (TICs), where identification is based on a mass spectral library search. The 'N' is not applied to generic descriptions of a TIC, such as 'Unknown Hydrocarbon'. The 'J' flag indicates the reported numerical result is estimated.

JNB = This is a combination of the 'NJ' and 'B' flags. The 'B' indicates the compound was detected in a laboratory or field blank associated with the sample. The reported result should be considered estimated and biased high due to blank contamination.

R = The reported result is considered unusable and unreliable due to a major problem associated with the analysis of the sample or analyte. This qualifier implies no confidence in the reported result due to the problem found during validation. Resampling is recommended if the compound affected is critical to the decision-making process.

B = The analyte was also detected in a laboratory or field blank associated with the sample. The reported result is considered estimated and biased high due to the blank contamination.

Attachment B

AUES Chemicals List

SPRING VALLEY
AUES CHEMICALS

				WILL BE ANALYZED FOR THIS PROJECT			WILL **NOT** BE ANALYZED FOR THIS PROJECT	
COMPOUND	**CAS No.**	**Primary Name/Notes**	**ROUTINE**	**NON-ROUTINE**	**SPECIALTY LAB**	**NON-SPECIFIC**	**RESEARCH PROJ**	
	Chemical Abstract Service No.	(I.e., compound name in column 1 is listed as a synonym of this primary name in resources)	(TCL or TAL) + TICs	(But readily available methodology)	Chemical Warfare Materiels			
Acetonitrile	75-05-8		VOC					
Acetyl Cyanide	631-57-2	propanenitrile, 2-oxo						
Acetyl Fluoride	557-99-3			IC/ICP SCAN				
Acetyl Thiocyanate								
Acrolein	107-02-8		VOC					
Adamsite	578-94-9	phenarsazine chloride			CWM			
Alcohol			VOC TIC					
Allyl Alcohol	107-18-6		VOC TIC					
Allyl Isocyanide				IC/ICP SCAN				
Allyl Isothiocyanate	57-06-7	AKA mustard oil		IC/ICP SCAN				
Allylamine	107-11-9							
Aluminium	7429-90-5		METAL					
Aluminium –CC14-NaC103								
Aluminium Selenide	1302-82-5			IC/ICP SCAN				
Ammonia	7664-41-7		DIRECT					
Ammonia Gas	7664-41-7	DELETE-SAME AS ABOVE						
Ammonium Chloride	12125-02-09			IC/ICP SCAN				
Ammonium Cyanide	No			IC/ICP SCAN				
Ammonium Nitrate	6484-52-2			IC/ICP SCAN				
Ammonium Picrate	131-74-8			IC/ICP SCAN				
Arsenic Trichloride	7784-34-1	arsenic chloride		IC/ICP SCAN				
Arsenic Trifluoride	7784-35-2			IC/ICP SCAN				
Arsenic Trioxide	1327-53-3			IC/ICP SCAN				
Arsine	7784-42-1			IC/ICP SCAN				
Barium Peroxide	1304-29-6			IC/ICP SCAN				
Benzotrichloride	98-07-7		SVOC TIC					
Benzyl Bromide	100-39-0	bromotoluene	VOC					
Benzyl Chloride	100-44-7	chlorotoluene	VOC					
Benzyl Fluoride	350-50-5		SVOC TIC					
Benzyl Iodide	620-05-3	iodomethyl benzene	VOC TIC					
Black Powder								
Bromine	7726-95-6			IC/ICP SCAN				
Bromoacetone	598-31-2	bromo-2-propanone	VOC TIC					
Bromoketone	593-95-3	carbonic dibromide		IC/ICP SCAN				
Bromoacetyl Bromide	598-21-0			IC/ICP SCAN				
Bromobenzene	108-86-1	phenyl bromide	VOC TIC					
Bromobenzyl Cyanide	5798-79-8	bromobenzylnitrile		IC/ICP SCAN				
Bromomethyl Ether			VOC TIC					
Bromoxylyl Cyanide				IC/ICP SCAN				
Butyl Mercaptan	109-79-5		VOC TIC					

SPRING VALLEY
AUES CHEMICALS

				WILL BE ANALYZED FOR THIS PROJECT			*WILL **NOT** BE ANALYZED FOR THIS PROJECT*	
COMPOUND	**CAS No.**	**Primary Name/Notes**	**ROUTINE**	**NON-ROUTINE**	**SPECIALTY LAB**	**NON-SPECIFIC**	**RESEARCH PROJ**	
	Chemical Abstract Service No.	(I.e., compound name in column 1 is listed as a synonym of this primary name in resources)	(TCL or TAL) + TICs	(But readily available methodology)	Chemical Warfare Materiels			
Cacodyl	144-21-8	cacodyl new/disodium methanearsenate		IC/ICP SCAN				
Cacodyl Bromide				IC/ICP SCAN				
Cacodyl Chloride				IC/ICP SCAN				
Cacodyl Cyanide				IC/ICP SCAN				
Cadmium Methyl				IC/ICP SCAN				
Calcium Carbonate	471-34-1	limestone		IC/ICP SCAN				
Calcium Sulfate	7778-18-9	AKA plaster of paris		IC/ICP SCAN				
Carbon Bisulphide	75-15-0	DELETE-SAME AS BELOW						
Carbon Disulfide	75-15-0		VOC					
Carbon Monoxide	630-08-0					Not analyzed, too volatile to be present		
Carbon Tetrachloride	56-23-5		VOC					
Carborundum	409-21-2	silicon carbide						
Celluloid								
Chlorinated Acetone, Turpentine			VOC TIC					
Chlorinated Carbon Disulfide			VOC TIC					
Chlorine	7782-50-5			IC/ICP SCAN				
Chloroacetic Anhydride	541-88-8							
Chloroacetone	78-95-5		VOC TIC					
Chloroacetonitrile	107-14-2		VOC TIC					
Chloroacetyl Fluoride								
Chlorobenzene	108-90-7		VOC					
Chlorobenzol	108-90-7	DELETE-SAME AS ABOVE						
Chlorodiethyl Sulfide								
Chloroform	67-66-3		VOC					
Chloroformate	503-38-8	trichloromethyl chloroformate (diphosgene)						
Chloromethyl Chloroformate	22128-62-7							
Chloromethyl Ether	542-88-1		VOC TIC					
Chloromethyl Ethyl Ether	107-30-2		VOC TIC					
Chloropicrin	76-06-2		VOC					
Chromyl Chloride	14977-61-8							
Crotonaldehyde	4170-30-3		VOC TIC					
Cyanogen	460-19-5			IC/ICP SCAN				
Cyanogen Bromide	506-68-3			IC/ICP SCAN				
Cyanogen Chloride	506-77-4			IC/ICP SCAN				
Diazomethane	334-88-3							
Dichloroethyl Disulfide								

SPRING VALLEY
AUES CHEMICALS

			WILL BE ANALYZED FOR THIS PROJECT			*WILL **NOT** BE ANALYZED FOR THIS PROJECT*	
COMPOUND	**CAS No.**	**Primary Name/Notes**	**ROUTINE**	**NON-ROUTINE**	**SPECIALTY LAB**	**NON-SPECIFIC**	**RESEARCH PROJ**
	Chemical Abstract Service No.	(I.e., compound name in column 1 is listed as a synonym of this primary name in resources)	(TCL or TAL) + TICs	(But readily available methodology)	Chemical Warfare Materiels		
Dichloromethyl Ether	542-88-1	bis-chloromethyl ether		IC/ICP SCAN			
Dichloromethyl Sulfide	no	bis(chloromethyl)sulfide		IC/ICP SCAN			
Dichloropropyl Sulfide				IC/ICP SCAN			
Diiodoacetylene	624-74-8						
Dimethylarsine	593-57-7			IC/ICP SCAN			
Diphenylchloroarsine	712-48-1	chlorodiphenyl arsine	SVOC TIC				
Ethyl Bromoacetate	105-36-2		VOC TIC				
Ethyl Chloroformate	541-41-3		VOC TIC				
Ethyl Dibromoacetate	617-33-4	dibromoacetic acid ethyl ether	VOC TIC				
Ethyl Iodoacetate	623-48-3						
Ethyl Isocyanide	624-79-3						
Ethyl Isothiocyanate	542-85-8						
Ethyl Mercaptan	75-08-1		VOC TIC				
Ethyl Sulfide	352-93-2			IC/ICP SCAN			
Ethyl Trichloroacetate	515-84-4						
Ethyldichloroarsine	598-14-1						
Flash mixture							
Halo Wax	1321-65-9	trichloronaphthalene					
Hexachloroethane	67-72-1		SVOC				
Hydrochloric Acid	7647-01-0	hydrogen chloride, aqueous		IC/ICP SCAN			
Hydrocyanic Acid	74-90-8	hydrogen cyanide		IC/ICP SCAN			
Hydrofluoric Acid	7664-39-3	hydrogen fluoride, aqueous		IC/ICP SCAN			
Hydrogen Selenide	7/5/7783			IC/ICP SCAN			
Iron	15438-31-0		METAL				
Isoallylamine							
Kendallite							
Kieselguhr	61790-53-2	Diatomaceous earth/amorphous silica					
Lead Ferrocyanide				IC/ICP SCAN			
Lead Peroxide	1309-60-0	Lead dioxide		IC/ICP SCAN			
Lead Thiocyanate	592-87-0			IC/ICP SCAN			
Magnesium	7439-95-4		METAL				
Magnesium Arsenide				IC/ICP SCAN			
Magnesium Carbonate	546-93-0	magnesite		IC/ICP SCAN			
Magnesium Oxide	1309-48-4			IC/ICP SCAN			
Methyl	7/4/2229	methyl radical					
Methyl Bromoacetate	96-32-2		VOC TIC				
Methyl Chloroacetate	96-34-4		VOC TIC				
Methyl Chloroarsine				IC/ICP SCAN			
Methyl Chloroformate	79-22-1	methylchlorocarbonate	VOC TIC				

SPRING VALLEY
AUES CHEMICALS

				WILL BE ANALYZED FOR THIS PROJECT			WILL **NOT** BE ANALYZED FOR THIS PROJECT	
COMPOUND	**CAS No.**	**Primary Name/Notes**	**ROUTINE**	**NON-ROUTINE**	**SPECIALTY LAB**	**NON-SPECIFIC**	**RESEARCH PROJ**	
	Chemical Abstract Service No.	(I.e., compound name in column 1 is listed as a synonym of this primary name in resources)	(TCL or TAL) + TICs	(But readily available methodology)	Chemical Warfare Materiels			
Methyl Chlorosulfonate			VOC TIC					
Methyl Isocyanide	593-75-9			IC/ICP SCAN				
Methyl Selenide	593-79-3	dimethyl selenide		IC/ICP SCAN				
Methyl Sulfate	77-78-1	dimethylsulfate						
Methyldichloroarsine	593-89-5	dichloromethylarsine						
Methylnitrosourethan	615-53-2							
Mustard (crude, pure, distilled, gas forms)	505-60-2				CWM			
Nickel Carbonyl	13463-39-3			IC/ICP SCAN				
o-Chloronitrobenzene	88-73-3		SVOC					
Oil Smoke								
Oleic Acid	112-80-1		SVOC TIC					
o-Tolyl Isocyanide			SVOC TIC					
Oxalyl Chloride	79-37-8			IC/ICP SCAN				
Paraffin	8002-74-2							
Parazol		dinitrodichlorobenzene						
Perchloromethylmercaptan	594-42-3		VOC TIC					
Phenyl Isocyanate	103-71-9		SVOC					
Phenyl Isocyanide	931-54-5	isocyano benzene	SVOC TIC					
Phenyl Isothiocyanate	103-72-0	isothiocyanic acid, phenyl ester	SVOC					
Phenylcarbylamine Chloride	622-44-6	phenylimidocarbonyl chloride		IC/ICP SCAN				
Phenyldichloroarsine	696-28-6	dichlorophenylarsine	SVOC TIC					
Phenylhydrazine	100-63-0		SVOC					
Phosgene	75-44-5			IC/ICP SCAN				
Phosphorus			METAL					
Phosphorus, Red		DELETE-SAME AS BELOW						
Phosphorus, White	7723-14-0		SVOC TIC					
Potassium Chlorate	3811-04-9			IC/ICP SCAN				
Potassium Chlorate and Aluminum		DELETE-SAME AS ABOVE						
Potassium Nitrate	7757-79-1			IC/ICP SCAN				
Potassium Perchlorate	7778-74-7			IC/ICP SCAN				
Potassium Permanganate	7722-64-7			IC/ICP SCAN				
Ricin	9009-86-3							
Rosin	8050-09-7							
Silicon	7440-21-3			IC/ICP SCAN				
Silicon Tetrachloride	409-21-2	silicon carbide		IC/ICP SCAN				
Sodium	7440-23-5		METAL					
Sodium (metallic)	7440-23-5	DELETE-SAME AS ABOVE						
Sodium Bicarbonate	144-55-8			IC/ICP SCAN				

SPRING VALLEY
AUES CHEMICALS

				WILL BE ANALYZED FOR THIS PROJECT			WILL **NOT** BE ANALYZED FOR THIS PROJECT	
COMPOUND	**CAS No.**	**Primary Name/Notes**	**ROUTINE**	**NON-ROUTINE**	**SPECIALTY LAB**	**NON-SPECIFIC**	**RESEARCH PROJ**	
	Chemical Abstract Service No.	(I.e., compound name in column 1 is listed as a synonym of this primary name in resources)	(TCL or TAL) + TICs	(But readily available methodology)	Chemical Warfare Materiels			
Sodium Chlorate	7775-09-9			IC/ICP SCAN				
Sodium Cyanide	143-33-9			IC/ICP SCAN				
Sodium Hydroxide	1310-73-2			IC/ICP SCAN				
Sodium Nitrate	7631-99-4			IC/ICP SCAN				
Sodium Oleate	143-19-1	oleic acid, sodium salt		IC/ICP SCAN				
Sodium Silicate	6834-92-0			IC/ICP SCAN				
Sodium Stearate	822-16-2			IC/ICP SCAN				
Stannic Chloride (Tin Tetrachloride)	7646-78-8	Tin(IV) chloride		IC/ICP SCAN				
Stannic Chloride, Anhydrous	7646-78-8	DELETE-SAME AS ABOVE						
Stearic Acid	57-11-4							
Sulfur	7704-34-9		METAL					
Sulfur Chloride	10025-67-9			IC/ICP SCAN				
Sulfur Trioxide	7446-11-9			IC/ICP SCAN				
Sulfuryl Chloride	7791-25-5			IC/ICP SCAN				
Superpalite	503-38-8	DELETE-same as chloroformate						
Tetrachloromethyl Sulfide				IC/ICP SCAN				
Thermite		Thermite is iron and aluminum		IC/ICP SCAN				
Thermite Igniter								
Thiophene	110-02-1		VOC TIC					
Thiophosgene	463-71-8			IC/ICP SCAN				
Titanium Tetrachloride	7550-45-0			IC/ICP SCAN				
Tolyl Isocyanides	DELETE-same as o-Tolyl Isocyanide							
Trichloroacetonitrile	545-06-2		VOC TIC					
Trichloroacetyl Chloride	76-02-8			IC/ICP SCAN				
Trichloroacetyl Cyanide				IC/ICP SCAN				
Trichlorohydrin	96-18-4	1,2,3 trichloroproane		IC/ICP SCAN				
Trichloromethyl Chloroformate	503-38-8	DELETE-same as chloroformate						
Trinitrotoluene	118-96-7		8330					
Turpentine	8006-64-2							

SPRING VALLEY
AUES CHEMICALS

				WILL BE ANALYZED FOR THIS PROJECT			WILL ***NOT*** BE ANALYZED FOR THIS PROJECT	
COMPOUND	**CAS No.**	**Primary Name/Notes**	**ROUTINE**	**NON-ROUTINE**	**SPECIALTY LAB**	**NON-SPECIFIC**	**RESEARCH PROJ**	
	Chemical Abstract Service No.	(I.e., compound name in column 1 is listed as a synonym of this primary name in resources)	(TCL or TAL) + TICs	(But readily available methodology)	Chemical Warfare Materiels			
Waste								
Xylyl Bromide	35884-77-6			IC/ICP SCAN				
Zinc	7440-66-6		METAL					
Zinc Chloride mixture	7646-85-7			IC/ICP SCAN				
Zinc Oxide	1314-13-2			IC/ICP SCAN				
Zinc Powder	7440-66-6	DELETE-Same as Zinc						
Total is 188, or 177 (subtracting deleted lines).			56	79	2	12	28	

IC/ICP SCAN	This process uses ion chromatography or induction coupled plasma to scan for prominent atoms in the compound. For example, for bromobenzyl cyanide, the sample would be scanned for bromine and cyanide. If both were present, then the possible presence of this compound could not be eliminated.	**TOTAL TO BE RUN** **137**	*(Blue+Yellow + Orange)*
ROUTINE	Standard services from most labs. Either the compound category (metal, VOC, TIC) or a separate method no., is shown.		
NON-ROUTINE	These are either the scan as described above, or a method not typically used but which has an established method. These are non-routine, but do not present difficulties for most labs to provide. In some cases, where the routine analyses only identify TICs, the non-routine method is shown if an additional level beyond the TIC is needed.		
SPECIALTY LAB	These chemicals are Chemical Warfare Materiels that require a special laboratory to handle. Special shipping requirements are also necessary.		
NON-SPECIFIC	Materials such as "waste" or "flash mixture" that cannot be identified without knowing specific components.		
RESEARCH PROJECT	If none of the labs suggested a way to identify these items, they were categorized as research projects. Some of these may not be familiar because of outdated names, synonyms, or "brand" names.		

DCDOH Comments to AUES List Sampling

The following section contains the DCDOH response to the AUES List sampling (Selected OU-4 Residences) presented in the preceding sections. Following the DCDOH comments, the USACE response to these comments is presented.

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF HEALTH

DRAFT COMMENTS ON THE CORPS OF ENGINEERS' FINAL REPORT OF ANALYTICAL RESULTS DATED MAY 8, 2002
3819 48TH STREET; 4710 QUEBEC STREET; 4625 ROCKWOOD PARKWAY AND 4633 ROCKWOOD PARKWAY

FEBRUARY 2003



Prepared by
Environmental Health Administration
Bureau of Hazardous Material and Toxic Substances
Hazardous Waste Division

Sequence of Events

First, the Corps of Engineers' (Corps') Final Report of Analytical Results (Report) WAS DATED May 8, 2002. Relevant data from this report was transmitted to only one of the property owners, 3819 48th Street, on or about January 14th, 2003. The property owner transmitted his portion of the data to DC Department of Health on January 23rd, 2003. At the partnering meeting on January 29th, 2003, the District of Columbia's Remedial Project Manager expressed concern over the delay and means of obtaining even a portion of the report. Also, concern was expressed over the more important delay in notifying the property owners.

At the partnering meeting, the District of Columbia's Remedial Project Manager noticed that the EPA's Remedial Project Manager had a completed Report dated May 8, 2002, which he also was given on January 14th, 2003. DC requested a copy of this Report, which the Corps transmitted on January 31st, 2003.

The Report indicates that sampling was done on 2/8/01 and 2/13/01. The Report also states on page 2 under SUMMARY, "Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures." The District will reserve comment on this portion of the Report until it receives copies of all field notes, chain-of-custody forms, laboratory quality control results, and all other information included in the data packages including the original laboratory reports, hereby requested pursuant to the Department of Defense and District Memorandum of Agreement (DDMOA) dated 5-9-94, paragraph 1, page 2-3.

This request is necessary due to the unusual nature of the timeline. A delay of a year and three months from sample collection to validated results is unusual, even for Spring Valley. Another delay of eight more months until the regulators and at least one property owner was notified is another inexplicable circumstance. Finally, the Report states in the first sentence, "In accordance with the revised Final Work Management Plan for Follow-on Sampling for OU-4 Residential Lots, Amendment 2 (Parsons, April 2001), Parsons collected soil samples from four OU-4 residences to assess for the presence of the American University Experiment Station (AUES) list of chemicals." The District needs to know how samples collected in February 2001 could be in accordance with a Plan Amended in April 2001.

Because many of the constituents of concern were volatile substances, this lengthy timeline and the missing date as to when the samples were actually analyzed is even more important. Also, several Trip Blank samples were apparently contaminated with volatile compounds, raising a further question on how well the sample blanks were sealed and whether any loss of volatile constituents occurred before analysis.

Generic Comments

During January and February of 2002, the District had several discussions with the Corps of Engineers "new" members of the partnering team, over the need to include the District in the deliberative process. While the District was and is pleased with the high level of expertise these "new" members possess, the District was under the impression that these "new" members were not used to working with state or local governments that assumed such a prominent role on a military weapons site. The District was under the impression that long before May 2002, these "new" members understood the need to include the District in the deliberations and to supply the District with all information regarding items or contamination found at the site. Therefore after this new member orientation, the District is at a loss to explain why it was not told of the sampling results, at least at a point in time where the results were validated.

The District requests that the Corps of Engineers search its files to ensure that no other relevant data or information is being withheld. The District reminds the Corps that the vast majority of the AUES site is private property and military customs regarding "need to know" are simply inapplicable.

The District has been informed that rights of entry for this expanded sampling were not obtained from two of the residents. The District is not in a position to assess the accuracy of this anecdotal information.

The District is also concerned about the timeline because the Corps has repeatedly stressed that its expertise is in the ordnance and engineering aspects, and has deferred the health related issues to the regulators. In the Work Management Plan for OU-5, August 10, 2001, the Corps states, "CENAB responsibilities include...obtaining rights-of-entry to properties in the investigation areas...and coordinating with regulatory agencies on issues pertaining to protection of human health and the environment." Par. 1.4.2 page 1-5. (See also page 1-5 of the Work Management Plan for OU-4 dated August 14, 2000). Again the Corps states, "Communication with the residents of Spring Valley is considered paramount to the successful completion of this project. The flow chart (Figure 1-4) below indicates the general sequence of events necessary to accomplish the sampling of the residential properties...Submit Right of Entry Letter to Homeowner-Receive signed Right of Entry-...Submit Sample Results Letter to Homeowner." Par. 1.5.9.4 Page 1-11. **(TAB A).** The District suggests that the Corps insure that its new personnel familiarize themselves with these generic work plans.

Since the Corps defers health issues to the regulators, not advising the regulators of the presence of these compounds left the residents without any competent opinion on the impact of the compounds for a period broaching two years. The fact that the residents were not even informed about the existence of the compounds, further exacerbates the problem. This "ostrichesque" approach to environmental remediation is not appropriate.

Specific Constituents

The following constituents are listed in the Report as being detected:
acenaphthalene
acetone
acrolein
acetaldehyde
alpha-lindane
anthracene
benzaldehyde
benzo[A]anthracene
benzo[B]fluoranthene
benzo[G,H,I]perylene
benzo[K]fluoranthene
benzoic acid
benzyl alcohol
benzyl bromide
benzene
benzeneetanol, 4-hydroxy
benzene, (1-methylethenyl)
benzene, 1-methyl-3-(1-methyl)
bicyclo2,2,1 heptane,7,7-d
bicyclo3.1.1 hept-2-ene.2.6.5-trimethyl
bicyclo3.1.1 hept-2-ene.2.6.6-trimethyl
bis(2-ethylhexyl)phthalate
butanal
butane
2-butanone
2-butanone, 3-methyl
2-butene, (z)
butylbenzylphthalate
carbon disulfide
carbonyl sulfide
carboxylic acid ester
chloride
chloroform
chloromethane
chrysene
cyanide
cyclohexene, 1-methyl-4-(1-methylethenyl)
cyclorpropane, 1,2-dimethyl-,trans
cyclotetrasiloxane, octamethyl
dibenz[A,H]anthracene
dibenzofuran
dichlorofluoromethane

diethylphthalate
di-n-butylphthalate
docosane
dodecanal
1-eicosanol
ethanethiol
ethanol,2-(2-ethoxyethoxy)
ethanone, 1-(3-ethyloxiranyl)
fluoranthene
fluorene
fluoride
gama-sitosterol
heptadecane
heptadecane, 9-octyl
heptane.3-methylene
hexadecanoic acid
9- hexadecanoic acid
2,4-hexanedione
2-hexanone
hexanal
hexanal, 2-ethyl
hexanal.5-methyl
hexane
1-hexene,4-methyl
2-hexene, (z)
indeno[1,2,3-CD]pyrene
methyl acetate
methylene chloride
2-methylnaphthalene
naphthalene
nitrate-n
nonacosane
nonadecane
nonanal
octacosane
13-octadecenal
14-octadecenal
9,12-octadecadenoic acid
octanal
octane
1-octanol,2,7-dimethyl
2-octene
2-octene, (e)
oleic acid
pentadecane,8-hexyl
pentanal isomer 1

pentanal isomer 2
pentanal isomer 114-octadecenal
phenanthrene
phenanthrene, 9-methyl
phosphate-P
propanal, 2-methyl
propane, 1,1-oxybis
1-propene,1.2.3-trichloro
pyrene
sulfate
thiodiglycol
toluene
trichlorofluoromethane
tricosane

Comments on Risk

Since many of these are volatile compounds, and many of these were found in surface soils, a presumptive pathway to human exposure exists. However, since many of these compounds are unknown in modern industry and do not have Risk Based Concentrations established, it would be difficult, if not impossible, to do an accurate Risk Assessment.

The District agrees with the Corps that most of these compounds are found in very low levels (i.e. a few parts per billion). However, the District notes that a few of these compounds are experimental chemical warfare agents or precursor compounds listed in the archival documents. Some are listed in standard hazardous materials references. **(TAB B).**

In addition, there are 102 compounds detected on one or more properties. The lowest number on any single property is 24. The two properties with the largest number of compounds lie in close proximity to each other. Because of the number of compounds on any given property, the synergistic and combinative effects would make it difficult, if not impossible, to do a Risk Assessment.

Finally, since EPA has already done a risk assessment on the Spring Valley site, it would be repetitive to do another. While EPA's Risk Assessment was done in 1999, it was primarily based on the limited sampling data from 1993 and 1994. Newer data from the site-wide arsenic sampling and limited sampling for other constituents should be added. If EPA feels that a Risk Assessment could be done on this new data, it should also be included.

Comments on Implications for the Spring Valley Project

Since two of these properties are known to have burial sites adjacent to them and are suspected of having burial sites on them based on geophysical surveys, the remaining two properties should also be examined geophysically for potential burial sites. Indeed one of those properties is already on the list for the first 50 properties to be geophysically surveyed, for other reasons.

The District noted in letter sent to the Corps in 1998 that the general absence of volatile and semi-volatile compounds found in the 1993 and 1994 sampling suggested that where such compounds were found a containerized burial site might exist. The reasoning seems especially apropos in light of the Report.

Other adjacent properties, as well as those in Points of Interest, should have a similar battery of tests done.

The District suggests that the partners discuss, as a priority, the need for more extensive sampling (some of these properties had only 3 samples) and whether a mapping of the soil gas would be useful in pointing to potential burial sites. The Corps should discuss interim measures with the property owners.

TAB A

DRAFT FINAL

WORK MANAGEMENT PLAN

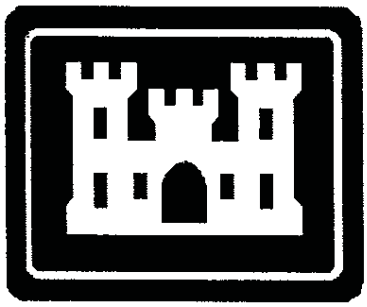
- Field Sampling Plan
- Quality Assurance Project Plan
- OE/CWM Risk Evaluation
- OE/CWM Contingency Plan
- Site Specific Safety & Health Plan
- Work Management Structure

TASK ORDER TO NATIONAL GUARD BUREAU
CONTRACT NO. DAHA90-94-D-0010, TASK ORDER DA01
DERP-FUDS HTRW PROJECT NUMBER C03DC091804

REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)
SPRING VALLEY OPERABLE UNIT 5, WASHINGTON, D.C.

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT



Prepared By:

PARSONS ENGINEERING SCIENCE, INC.
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030

AUGUST 10, 2001

1.3.3 Environmental Setting

1.3.3.1 Four geological formations, three Piedmont and one Coastal Plain formation, are apparent in the vicinity of the site. These formations (from west to east) are the Sykesville Formation, the Dalecarlia Intrusive Suite, the Actinolite Schist, and the Coastal Plain Terrace Formation (USGS 1994). The Sykesville Formation is a sedimentary melange consisting of fragments of metagraywacke, migmatites, amphibolite, and actinolite schist in a quartzofeldspathic matrix. The Dalecarlia Intrusive Suite consists of massive to well-foliated biotite monzogranite and lesser granodiorites. The Actinolite Schist Unit consists of actinolite schist, actinofels, actinolite-chlorite schist and lesser talc bearing rocks. The Coastal Plain Terrace Gravel consists of highly weathered, crudely bedded gravel, sand, silt, and clay (Fleming, A. H., Drake, A. A., Jr., McCartan, Lucy, 1994). The Piedmont Formations are igneous or metamorphic in origin. The Coastal Plain Terrace Formation is fluvial in origin (Fleming, A. H., Drake, A. A., Jr., McCartan, Lucy, 1994). Schistosity is the major structural feature of the Piedmont rocks and saprolite in the OU-4 vicinity.

1.3.3.2 Two soil associations are present at the site, the Urban Land-Sassafras Chillum (ULSC) and the Urban Land-Manor Glenelg (ULMG). The ULMG soil association appears to comprise the majority of the soil at the site. It is a well to moderately well drained soil resulting from the weathering of the basement rocks (schist). The site ULSC soil in the vicinity of the residence results from the weathering of Coastal deposits. However, these soils have been greatly disturbed by construction and landscaping activities. The bedrock at this location consists of a variety of metasedimentary rocks of the Sykesville Formation. Depth to bedrock in the vicinity of the site ranges between 6 and 20 feet.

1.4 PROJECT ORGANIZATION

1.4.1 Project Team

1.4.1.1 Several organizations are directly involved in the Spring Valley OU-5 project. The technical team comprises the USACE, Parsons, and various subcontractors (Figure 1-2). The roles of these team members are described below.

1.4.2 U.S. Army Corps of Engineers, Baltimore District (CENAB)

1.4.2.1 CENAB is the Project Manager for this project. CENAB responsibilities include review of project plans and documents, obtaining rights-of-entry to properties in the investigation areas, working with the news media and the public (in conjunction with the Parsons ES Public Affairs Officer), and coordinating with regulatory agencies on issues pertaining to protection of human health and the environment.

1.4.3 Parsons Engineering Science (Parsons)

1.4.3.1 Parsons will function as the A/E contractor, and provide overall site management and coordination during field operations, including sampling, coordination of analytical samples, coordination of subcontractors, documentation of site activities, and preparation of the final report. Parsons will appoint a Public Affairs Officer (PAO) to assist CENAB in communicating progress and results to the public.

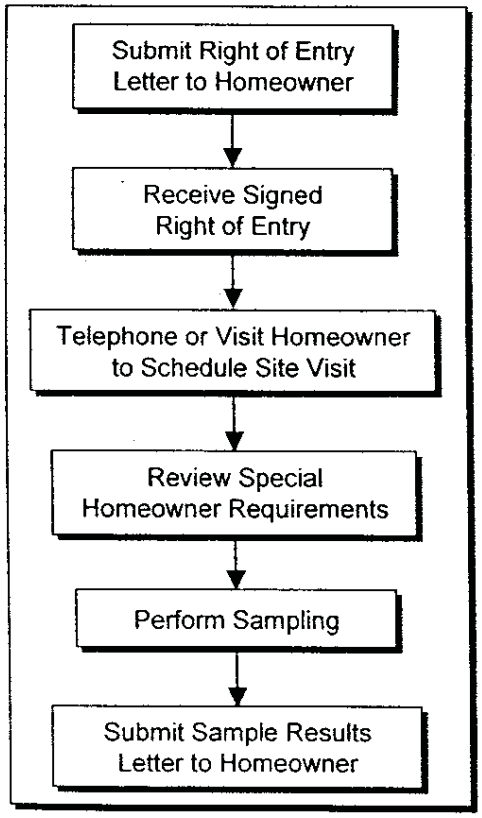
1.5.9.2 During sampling, it is anticipated that Ms. McQuilkin will be on site at the CENAB trailer located at the Federal Property.

1.5.9.3 Ms. McQuilkin, in close coordination with the CENAB Project Manager, will assist with the following:

- Answering phone calls from residents, providing answers to questions or taking messages for more difficult questions. Researching questions and returning phone calls within a reasonable time. Maintaining a log of contact with residents;
- Scheduling of sampling activities on each property with the homeowner and the sampling team;
- Tracking of requirements to conduct sampling at a resident's property. This will include pre and post sampling activities such as notifying the residents, tracking the status of signed rights of entry and preparing post sampling letters to be sent by CENAB to residents. The final list of items to be tracked will be coordinated with the CENAB Project Manager;
- Participating in meetings with residents as appropriate.

1.5.9.4 Communication with the residents of Spring Valley is considered paramount to the successful completion of this project. The flow chart (Figure 1-4) below indicates the general sequence of events necessary to accomplish the sampling of the residential properties.

Figure 1-4
Home Owner Communication Flow Chart



TAB B

Final Report

A Brief History of the *American University Experiment Station* and *U.S. Navy Bomb Disposal School, American University*

Prepared under the
Defense Environmental Restoration Program
for
U.S. Army Engineer District, Baltimore

by
Martin K. Gordon, Ph.D.
Barry R. Sude, Ph.D.
Ruth Ann Overbeck, M.A.
Charles Hendricks, Ph.D.

Office of History
Headquarters, U.S. Army Corps of Engineers
May 1994

Specific Activities and Operations

Operations at the Experiment Station, first under the Bureau of Mines and then under the Chemical Warfare Service, fell into several comprehensive, if sometimes overlapping, categories: gas mask research, offensive and defensive toxic chemical investigations, medical research, pyrotechnic investigations, and mechanical investigations. The Experiment Station's Chemical Research Division (Offense) studied the properties and efficiency of toxic substances—mustard gas, phosgene, superpalite (trichloromethyl chloroformate)—already in use in Europe. It suggested, developed, and submitted for testing literally hundreds of new chemical and solid toxic substances—including new types of mustard gas, cyanogen chloride, and bromobenzyl cyanide—for possible use in gas warfare. The division also investigated and developed smoke mixtures for Navy smoke screens and colored smokes for Army signaling on the battlefield, as well as incendiary materials for use in bombs, shells, projectiles, darts, and hand grenades. In addition, it investigated the problem of obtaining resistant linings suitable for gas shells; devised methods for manufacturing inorganic compounds for use in new explosives and as new toxic and corrosive shell fillers; and invented new methods for analyzing the effectiveness of new materials developed for use in gas warfare. It conducted extensive tests related to the toxicity and symptomology of various classes of mustard gas and similar compounds; developed a method for determining the tear-producing effects of toxic substances on humans; and contributed to various aspects of gas mask research.

The Chemical Research Division (Offense) also devised methods for the preparation, manufacture, and use of such toxic materials as acrolein, martonite, nitrosomethylurethane, chloroacetic anhydride, diphenylchloroarsine, adamsite, phenylbromoacetonitrile, methyldichloroarsine, thionyl fluoride, methyldichloroarsine, lewisite, bromobenzyl cyanide, phenylimidophosgene, thiophosgene, sulfur monochloride, sulfur dichloride, superpalite, cyanogen chloride, cyanogen bromide, diethyl sulfide, diphenyl sulfide, chloropicrin, acetylene-arsenic trichloride, acetyl fluoride, acetyl chloride, chloroacetyl chloride, acetophenone, chloroacetophenone, zinc arsenide, calcium arsenide, magnesium arsenide, arsenic trifluoride, bromine trifluoride, boron trifluoride, sulfur hexafluoride, iodine pentafluoride, aluminum chloride, titanium tetrachloride, and mustard gas.[47]

CHEMICAL	COMMENT
2-butonone	toxic by ingestion and dermal, affects peripheral nervous system[1]
acetone	
carbon disulfide	sulfide exception[2]
chloromethane	organic halogen (aliphatic halide)[3]
dichlorofluoromethane	organic halogen (aliphatic halide)[4]
2-butanone, 3-methyl	
2-octene	octylene [5](acrid smoke)
acetaldehyde	causes respiratory paralysis[6]
bicyclo2,2,1 heptane,7,7-d	
bicyclo3.1.1 hept-2-ene.2.6.5trimethyl	Similar to pinene, causes skin eruption, ataxia, kidney damage[7]
carbonyl sulfide (carbon oxide sulfide	sulfide[8]
cyclotetrasiloxane, octamethyl	siloxanes can spontaneously combust in air[9]
heptane.3-methylene	
hexanal	toxic, ingestion & inhalation, (acrid
smoke)[10]	
hexanal.5-methyl	
octanal	
octane	asphyxiant and blister agent[11]
pentanal isomer 114-octadecenal	Irritating to eyes & respiratory tract[12]
1-eicosanol	
1-propene,1.2.3-trichloro	organic halogen[13]
hexadecanoic acid	decanoic acid is a poison (acrid smoke)[14]
oleic acid	poison and skin irritant[15]

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[1] Hazardous Chemical Desk Reference by N. Irving Sax and Richard J. Lewis, Sr., Van Nostrand Reinhold NY 1987.

[2] Military Chemistry and Chemical Agents TM 3-215 1942 at page 59 "Chemical agents are, almost without exception, organic compounds of the halogens." The exceptions are the sulfur derivatives (sulfides, mercaptans), nitrogen derivatives (cyanides), and some arsines.

[3] Supra, TM 3-215

[4] Supra, TM 3-215

[5] Chemical and Technical Dictionary H. Bennett editor, Chemical Publishing Co. NY 1962.

[6] The Merck Index Martha Windholz editor, Merck and Company 1976

[7] Supra, Merck

[8] Supra, TM 3-215

[9] Supra, Hazardous Chemicals

[10] Supra, Hazardous Chemicals

[11] Supra, Hazardous Chemicals

[12] Supra, Merck

[13] Supra, TM 3-215

[14] Supra, Hazardous Chemicals

[15] Supra, Hazardous Chemicals

REPRODUCED AT

Appendix 8.

192 COMPOUNDS PREPARED FOR TOXICOLOGICAL TESTS.

70 w arsenic

COMPOUND	REPORT NO.
Allyl Dichlorarsine	EACD 179
Allyl Formate	" 129
Allyl Isothiocyanate	*MR 7- '25
p-Amino Chloracetophenone	EACD 158
Ortho Arsanilic Acid	" 323
Para Arsanilic Acid	" 279
Atoxyl	" 279
Benzyl Arsonic Acid	*MR 4- '25
Benzyl Bromacetamide	EACD 307
Benzyl Bromide	*MR 9- '25
Benzyl Dichlorarsine	EACD 171
Bromacetoacetic Ester, Alpha	" 190
Bromacetoacetic Ester, Gamma	" 190
Bromnitromethane	" 275
Brompicrin	" 151
Butyl Arsenious Oxide	" 345
Butyl Arsonic Acid	" 345
Butyl Dichlorarsine	" 345
Butyl Difluorarsine	" 345
Calcium Butyl Arsonate	" 345
Calcium Ethyl Arsonate	" 338
Calcium Methyl Arsonate	" 319
Calcium Meta Nitrophenyl Arsonate	* MR 9- '24
Capsaicin	EACD-186
Chloracetic Acid	" 82
Chloracetoxylone	*MR 9- '25
Chloracetyl Chloride	EACD 87
Beta Chlorethyl Dichlorarsine	" 331
Bis Alpha Chlorethyl Sulfide	" 354
Bis Beta Chlorethylthio Ethane	*MR 3- '25
Bis Beta Chlorethylthiol Carbonate	EACD 280
Beta Chlorethylthiol Chlorformate	" 280
Beta Chlorethylthio Cyanate	" 285
Bis Chlorethylthio Methane	" 311
Bis Chlormethyl Ether	" 126
Chlormethyl Phenyl Sulfone	" 199
Bis Chlormethyl Sulfide	" 267
Chlorpicrin	" 75
Beta Chlorvinyl Arsenious Oxide	" 321
Bis Beta Chlorvinyl Arsenious Oxide	*MR 12 -22
Bis Beta Chlorvinyl Chlorarsine	EACD 239
Beta Chlorvinyl Dichlorarsine	" 239
Beta Chlorvinyl Difluorarsine	" 346
Beta Chlorvinyl Dimethoxyarsine	" 321

REPRODUCE

COMPOUND	REPORT NO.
Bis Beta Chlorvinyl Fluorarsine	*MR 8- '25
Bis Alpha Chlorvinyl Sulfide	EACD 354
Bis Beta Chlorvinyl Sulfide	" 354
Copper Xanthate	*MR 5- '25
Cyanogen Bromide	EACD 196
Cyanogen Sulfide	" 221
Dibromacetamide	" 307
Dichloracetone	" 312
Dichlorarsanthrene	" 323
Dichlor Nitroso Ethane	" 191
Diethoxy Chlorarsine	" 352
Diethyl Diselenide	" 277
Diethylene Disulfide	" 311
Diethylene Oxide Sulfone	" 337
Diethyl Selenide	" 277
Dimethyl Aniline Arsenious Oxide	" 229
Dimethyl Sulfate	*MR 8- '25
Dimetnyl Sulfide	EACD 252
2,4 Dinitrophenol	" 238
2,4 Dinitrophenyl Beta Chlorethyl Sulfide	" 251
2,4 Dinitrophenyl Beta Chlorethyl Sulfone	" 251
2,4 Dinitrophenyl Beta Chlorethyl Sulfoxide	" 251
Dinitrotetrachlorethane	" 157
Di-isothiocyan Dimethyl Ether	*MR 3- '26
Diphenylamine Arsenious Oxide	EACD 324
Diphenylamine Bromarsine	*MR 3- '25
Diphenylamine Cyanarsine	EACD 257
Diphenylamine Fluorarsine	" 318
Diphenyl Arsenious Oxide	" 324
Diphenyl Arsenious Sulfide	*MR 4- '25
Diphenyl Arsinic Acid Ortho Arsonic Acid	EACD 323
Diphenyl Chlorarsine Ortho Chlorarsine	" 323
Diphenyl Cyanarsine	" 220
Diphenyl Fluorarsine	" 183
Diphenyl Trichlorarsine	*MR 3- '25
Diphenyl Antimonous Oxide	*MR 2- '25
Diphenyl Chlorstibine	*MR 2- '25
Diphenyl Phenoxyarsine	EACD 156
Divinyl Sulfide	" 354
Bis Beta Ethoxy Ethyl Sulfone	" 354
Ethyl Arsenious Oxide	" 324
Ethyl Arsenious Sulfide	*MR 6- '25
Ethyl Beta Chlorethyl Sulfide	EACD 254
Ethyl Beta Chlorethyl Sulfone	" 254
Ethyl Beta Chlorethyl Sulfoxide	" 254
Ethyl Beta Hydroxyethyl Sulfide	" 254
Ethyl Dichlorarsine	" 313
Ethyl Dichlor Phosphine	" 283
Ethyl Difluorarsine	" 338

REPRODUCED AT

COMPOUND	REPORT NO.
Ethylene Dithiocyanate	EACD 285
Ethyl Iodoacetate	*MR 12- '23
Ferric Xanthate	*MR 5- '25
Fluorbenzene	EACD 262
Guaiacyl Dichlorarsine	" 189
Heptoyl Amide	" 307
Hexachlorbenzene	" 253
Hexachlorethane	" 253
Ortho Hydroxy Chloracetophenone	" 158
Beta Hydroxy Ethyl Arsenious Oxide	" 331
Beta Hydroxy Ethyl Arsonic Acid	" 331
Para Hydroxy Ethyl Phenyl Arsenious Oxide	" 189
Bis Beta Hydroxy Ethylthiol Carbonate	" 280
Beta Hydroxy Ethylthiol Chlorformate	" 280
Iodoacetophenone	*MR 1- '24
Lead Xanthate	*MR 5- '25
Magnesium Methyl Arsonate	*MR 9- '24
Magnesium Phenyl Arsonate	EACD 259
Magnesium p Phenylene Diarsinate	" 279
Mercaptol	" 217
Mercury Diethyl	" 283
Mercury Dimethyl	" 192
Mercury Dinaphthyl	" 274
Mercury Diphenyl	*MR 10- '24
Methyl Arsenious Oxide	EACD 324
Methyl Arsenious Sulfide	*MR 5- '25
Methyl Arsonic Acid	*MR 10- '24
Methyl Beta Chlorethyl Sulfide	EACD 231
Methyl Beta Chlorethyl Sulfone	" 231
Methyl Beta Chlorethyl Sulfoxide	" 231
Methyl Chlormethyl Sulfate	" 198
Methyl Cyanformate	" 102
Methyl Dibromarsine	*MR 8- '25
Methyl Dichlorarsine	EACD 211
Methyl Difluorarsine	" 344
Methylene Methylol Undecenoylamide	" 307
Methyl Heptoyl Amide	" 307
Methyl Beta Hydroxyethyl Sulfide	" 231
Methylol Benzamide	" 307
Methylol Heptoate	" 307
Methylol Nonoyl Amide	" 307
Methylol Phthalimide	" 307
Methylol Undecenoylamide	" 307
Methyl Oxamic Ester	" 102
Methyl Phenyl Sulfone	" 199
Methylthiol Chlorformate	" 180
Methyl Vinyl Sulfide	" 354
Monothioethylene Glycol	" 311
Mustard Sulfone	" 177
Alpha Naphthoyl Amide	" 258

REPRODUCED

COMPOUND	REPORT NO.
Beta Naphthoyl Amide	EACD 258
Naphthyl Dichlorarsine	" 274
Alpha Naphtho Nitrile	" 258
Beta Naphtho Nitrile	" 258
Ortho Nitraniline	" 323
Nitro Cnloracetophenone	" 158
Nitromethane	" 275
Meta Nitrophenyl Arsenious Oxide	*MR 5- '24
Meta Nitrophenyl Arsonic Acid	*MR 10- '24
Ortho Nitrophenyl Arsonic Acid	EACD 323
Meta Nitro Phenyl Dichlorarsine	*MR 10- '24
Meta Nitro Phenyl Difluorarsine	*MR 1- '25
Meta Nitro p Oxy Benzoyl Benzamide	EACD 307
Phenoxarsine Chloride	*MR 5- '25
Phenoxarsine Fluoride	**WR6-22-25
Phenoxarsine Oxide	*MR 6- '25
Phenyl Antimonous Oxide	*MR 11- '24
Phenyl Arsenious Oxide	EACD 324
Phenyl Beta Chlorethyl Sulfide	" 263
Phenyl Beta Chlorethyl Sulfone	" 263
Phenyl Dichlorarsine	*MR 7- '25
Phenyl Dichlorphosphine	EACD 283
Phenyl Difluorarsine	" 273
Para phenylene Diarsonic Acid	" 279
Para Phenylene bis Dichlorarsine	" 279
Phenyl Beta Hydroxyethyl Sulfide	" 263
Phenyl Vinyl Sulfide	" 354
Phosphorus Pentaselenide	" 277
Picric Acid	" 238
Potassium Xanthate	*MR 5- '25
Pyromucic Acid	EACD 159
Pyromucyl Chloride	" 159
Resorcyl Aldehyde	" 307
Sodium Methyl Arsonate	" 211
Tetrachlordiethyl Sulfide	" 254
Tetrachlordiethyl Sulfoxide	" 232
Thiobenzamide	*MR 5- '23
Toluyl Acetamide	EACD 307
Toluyl Bromacetamide	" 307
Toluyl Chloracetamide	" 307
Toluyl Dibromacetamide	" 307
Para Toluyl Heptoyl Amide	" 307
Trimethoxyarsine	" 310
Triphenylarsine	*MR 5- '25
Triphenyl Dichlorarsine	*MR 5- '25
Tris Chlorvinyl Arsine	EACD 239
Trithioacetaldehyde	" 354
Trithioformaldehyde	" 267
Vanillyl Alpha Benzoyl Amide	" 307

U.S. Army Corps of Engineers' Response to Regulator and Community Stakeholder Concerns regarding 2001 Soil Sampling for Possible Contaminants remaining from World War I-Era Chemical Warfare Research Activities at American University Experiment Station

U.S. Army Corps of Engineers' Response to Regulator and Community Stakeholder Concerns regarding 2001 Soil Sampling for Possible Contaminants remaining from World War I-Era Chemical Warfare Research Activities at American University Experiment Station

1 Purpose

In recent months, several regulator and community stakeholder concerns have been expressed regarding soil sampling conducted by the U.S. Army Corps of Engineers (USACE) in early 2001 as part of the Spring Valley Formerly Used Defense Site (FUDS) investigation. This specific effort, referred to as the American University Experiment Station (AUES) List sampling, involved the analysis of soil for a variety of chemicals suspected of being used at AUES as part of the US Army's chemical warfare research from 1917 to 1920. This document addresses the identified concerns by describing the circumstances surrounding the planning and execution of the AUES List sampling and how the results were shared with various stakeholders.

2 Stakeholder Concerns

On January 14, 2003 USACE representatives and the US Environmental Protection Agency (USEPA) Region 3 remedial project manager met with the property owner of 3819 48th Street to discuss his individual concerns regarding the Spring Valley investigation and characterization of his property. During this meeting, the AUES List soil sampling results for this property were shared with the owner, unbeknownst to the USACE representatives that the owner had not seen these results previously. Though surprised, the owner appeared relieved to receive the data and to learn from USACE that the results did not contain any significant findings or reason for additional investigation.

In the days following this meeting, the property owner forwarded the data results to Washington DC's Department of Health (DC DOH). Data results for 3819 48th Street and the other three properties included in this sampling, referred to as the Operable Unit 4 (OU4) AUES residential properties, were discussed at the January 2003 Spring Valley Partnership meeting between USACE, USEPA and DC Health. During this meeting, the DC DOH representative expressed several concerns regarding USACE actions, alleging that DC DOH was not aware of the sampling and that DC DOH had not been furnished with the final report of the sampling effort dated May 2002. The following month, DC DOH released its *Draft Comments on the Corps of Engineers' Final Report of Analytical Results dated May 8, 2002 for 3819 48th Street; 4710 Quebec Street; 4625 Rockwood Parkway, and 4633 Rockwood Parkway* **(Appendix 1)**. Subsequently, in the Spring of 2003, the 2001 AUES List sampling event and management of the data results became the focus of several Spring Valley Restoration Advisory Board (RAB) discussions and local press articles.

The DC DOH comments and related concerns expressed by the property owners/residents can be grouped into the following major issues:

- *USACE did not inform the regulators or the property owners about the sampling event*
- *USACE did not have permission to conduct the AUES sampling on at least two of the residential properties investigated*
- *The process for validating the data was unusually long and inadequate*

- *Sampling results were not shared with the regulatory agencies or property owners*
- *The compounds detected may present a significant risk to those living on the properties*
- *Uncertainties associated with compounds that could not be analyzed for may present a significant risk to those living on the properties.*
- *Additional investigations, including resampling, should be conducted on the four OU4 AUES residential properties.*

USACE believes that the AUES List sampling was an appropriate effort to determine if a broader AUES List investigation was necessary. Records indicate USACE had permission from the property owners to conduct this sampling. Additionally, USACE records indicate that both DC DOH and USEPA were involved in the planning of the AUES List sampling and were provided results in a timely manner. Most importantly, USACE, USEPA and DC DOH all agree that the AUES List sampling results currently do not indicate the presence of any chemicals posing significant risks to those living on the OU4 AUES residential properties, a conclusion shared publicly during a recent Spring Valley RAB meeting.

USACE does acknowledge that the data results and the absence of significant risk for these four properties should have been shared with the property owners in a more timely manner and apologized for this community outreach oversight during meetings with the OU4 AUES residential property owners and the RAB. Actions are underway to ensure that such oversights do not occur in the future. Additionally, USACE also recognizes the present of uncertainties within the data results from the AUES List sampling and is working with the regulator and community stakeholders to evaluate and address these uncertainties to the greatest extent practicable.

Support for these conclusions and the ongoing efforts to move the AUES List sampling issue forward collectively are provided in the remainder of this document and the attached appendices.

3 Investigation Background

USACE conducted the AUES List sampling at ten locations within the Spring Valley project, including: the Child Development Center and Lot 12 on the campus of American University (the AU properties); four residential properties associated with the Sedgwick Trench on the 5000 block of Sedgwick Street, NW (the Sedgwick AUES residential properties); and four residential properties located in OU4 to the south and east of the AU campus (the OU4 AUES residential properties). The purpose of the sampling was to determine whether contaminants other than arsenic were present at levels whereby additional investigation on more properties would be warranted.

To fully understand the AUES List sampling, it is important to view it in the larger context of the Spring Valley soil investigation. Specifically, the AUES List sampling was part of a tiered approach involving a focused, small scale evaluation of a large suite of potential contaminants, a medium scale investigation targeting a more refined list of potential AUES contaminants, and a large scale characterization of the identified contaminant of concern (arsenic). These three tiers of soil investigation conducted in Spring Valley to date are delineated as follows:

> *Tier 1* – The AUES List sampling and analysis was conducted for a **broad suite of compounds and analytes on approximately 10 properties/locations**.

Tier 2 – Within the Operable Unit 5 (OU5) investigation initiated in 2001, **approximately 301 properties received soil boring analysis for explosives and/or chemical warfare agents and their degradation products.** The purpose of this investigation was to determine if AUES-specific contaminants were present in areas classified as points of interest (POI), where historical records suggested past activity most likely took place. Since historical records are rarely complete, 15% of the Spring Valley project area properties not associated with a POI was also sampled for these specific AUES-related constituents.

Tier 3 – Also within the OU5 investigation, **all residential properties and business lots (approximately 1500) for which rights of entry (ROEs) were obtain were sampled and analyzed for soil arsenic contamination**. Arsenic was initially identified as a contaminant of concern during OU3 work at the Korean Ambassador's residence located at 4801 Glenbrook Road, NW. Approximately 10 % or 150 properties have since been identified as needing soil removal.

This approach was a logical and cost-effective effort to evaluate comprehensively the nature and extent of soil contamination resulting from AUES activities throughout Spring Valley. These sampling efforts were well-coordinated with DC Health and EPA Region 3, and identified arsenic as the only soil contaminant of concern to date.

With the investigative approach delineated, it is now possible to address the timeline by which these efforts unfolded, resulting in the most recent DC DOH draft comments.

4 Sequence of Events

DC DOH draft comments refer to significant time delays between sample collection, data validation and notification of regulators and affected residents/owners. However, DC DOH and EPA Region 3 were fully aware of AUES List sampling at AU, at the four Sedgwick AUES residential properties, and the four OU4 AUES residential properties. As outlined in **Appendix 2** of this response document, clear efforts were made by USACE to provide the regulatory agencies opportunities for input into the planning, and to incorporate regulator requests into the final work plans. Additionally, records indicate that USACE shared the data results with its regulatory partners in a timely manner.

Specific regulator and resident concerns revolve around the 2-year length of time that has transpired between sample collection and final data publication. Table 1 provides a timeline of the sequence of events, which is supported by USACE records.

Table 1 reveals USACE efforts to conduct an open and responsive investigation. As discussed with the Spring Valley Restoration Advisory Board in March 2003 **(Appendix 2, Attachment A)**, there are several ongoing facets of the Spring Valley project that require attention during any given time frame, with priorities and project plans shifting as new discoveries are made and additional requests from regulators and community members are received. In the case of the AUES Sampling results, project efforts to resolve uncertainties and to release the data for public comment were given a lower priority and pushed back as USACE implemented area-wide arsenic sampling, executed the TCRA, and initiated the second round of TCRA based on regulator comments. Such delay was only acceptable to the USACE because no significant risks to community members were identified by USACE or its regulatory partners during initial review.

Throughout the project, USACE has made a committed effort to keep property owners informed of upcoming sampling and subsequent data results with regard to arsenic contamination, the only contaminant of concern identified to date in Spring Valley. For instance, as shown in **Appendix 2 (Attachments M and N)**, preliminary arsenic results were sent to the OU4 residents to keep them informed in a timely manner, noting that final results were then sent a few months later. As the project expanded significantly into OU5 in the summer of 2001, preliminary arsenic data could no longer be mailed to residents. However, validated results were provided over the phone if requested, in order to meet immediate resident needs or concerns until the formal letter with the final results could be produced. Additionally, validated data were placed in the Information Repository at the Palisade Library for broader public use.

Table 1: 2001 AUES List Sampling Timeline

Nov – Feb 2001	Partnership planning of AUES List sampling
Feb – Apr 2001	Soil samples collected
May – July 2001	Validated data shared with regulators
Aug 2001 – Jan 2002	Work on acceptable data reporting approach using AU results as a test case
Feb – April 2002	Finalize reports for OU4 AUES List sampling for all AUES List sampling
May – July 2002	Plan and initiate Time Critical Removal Action (TCRA); Simultaneously discuss reporting and uncertainty issues with DC DOH and USEPA in preparation for Fall 2002 Public Comment release of Engineering Evaluation and Cost Analysis (EE/CA) in support of Non-Time Critical Removal Action
Aug – Oct 2002	Address DC DOH request for second tier of TCRA removals; EE/CA and Non-Time Critical Removal Action delayed until TCRA is completed
Nov 2002 – June 2003	Conduct and complete second round of TCRA; Release of EE/CA and AUES List sampling results scheduled for July 2003

Unlike the arsenic results, data for the wide-array of compounds investigated through the AUES List sampling are quite complicated and could not be easily put in layman's terms and distributed by simple letter. Also, during the AUES List data evaluation process, soil arsenic delineation and removal was the highest priority, receiving a significant portion of the available funding and personnel. In turn, the project management team decided to develop an adequate reporting process for the AUES List data results as time allowed, instead of releasing the data for full public consumption without the necessary supporting materials and conclusions. While other ongoing work facilitated the private exchange of the AUES List sampling results with AU and the

Sedgwick AUES owners/residents until the official reports could be released, the four OU4 residents did not receive this same courtesy.

In early 2001, USACE did vastly expand its community outreach efforts to manage the many owner/residents concerns that would naturally arise during the broad, OU5 arsenic sampling investigation. However, the small-scale AUES list sampling unfortunately fell outside the focused community outreach efforts at that time. Realizing this oversight with regard to the four OU4 AUES residential properties, USACE has acknowledged openly to the OU4 property owners and Spring Valley RAB that it would have been appropriate to share the data sooner. Even if the reports would not be released for some time, USACE could have sent brief letters explaining that a) the sampling results had been reviewed and b) they did not indicate any other contaminants of concern. Efforts to remedy the resulting misunderstandings and questions are ongoing and discussed in more detail in Section 8 of this document.

5 Property Access

Some stakeholders have questioned whether ROEs for the AUES List sampling effort were obtained for two of the four OU4 properties. It is USACE's regular process to obtain the necessary ROE prior to accessing any property in support of the Spring Valley investigation, and the process for the AUES List sampling in 2001 was no different**. Attachments O, P, Q and R in Appendix 3** contain the ROEs for the four properties that received the AUES List sampling. Other included attachments reveal USACE's proactive efforts to communicate verbally and/or in writing with the property owners prior to executing the AUES List sampling.

Related to the issue of access, some question has been raised by one or two property owners regarding whether they provided permission to analyze for the AUES list of compounds. In response, it is important to note that the ROE is a legal mechanism to provide access to a property, and is not utilized to gain property owner permission for specific laboratory analysis. While efforts were made by USACE to inform residents of sampling plans, the specific type of laboratory analyses executed for a property is an investigative judgment decision to be made by USACE and the participating regulatory agencies. Both DC DOH and EPA participated fully in this decision process, as previously described.

6 Data Quality

In response to data quality concerns, USACE notes that the data were validated in accordance with EPA Region 3 modifications to the National Functional Guidelines for data validation. The validation covered all information contained in the data packages, including sample results, laboratory quality control results, chain-of-custody forms, and all supporting raw data. No major data quality control issues were noted during the review of the data by USACE's remedial contractor, Parsons Engineering Science, Inc.

In response to DC DOH's request for the laboratory reports and data packages for the OU4 AUES sampling, Parsons sent copies of the data packages to DC DOH and EPA on 26 February 2003. As part of the regulatory oversight process, EPA Region 3 conducted an independent validation of the data. Two validation reports were generated by the EPA's lab, identifying only two inorganics (antimony and phosphate) and two organics (acrolein and benzyl bromide) out of all the compounds analyzed for as major problems. At the present time, USACE holds a different perspective regarding the validation findings and does not believe the problems identified are major. The EPA's reports have been distributed to the participating agencies, community RAB

members and the affected property owners for review. Currently, a working meeting to discuss these reports and any necessary next steps is targeted for July.

7 AUES List Data Assessment

Several regulator and community concerns have been expressed regarding the number and variety of compounds detected during the AUES List sampling and the potential health effects associated with these compounds. Concerns expressed by DC DOH or the involved residents revolve around a) potential sources of the compounds detected, b) the toxicity of individual compounds and c) potential synergistic effects from exposure to multiple compounds.

Contaminant Sources - The DC DOH comments provide a detailed list of compounds detected through the AUES List sampling, but make no distinctions between chemicals that are likely present as a result of AUES activities, those chemicals that are natural constituents of soil (e.g., nitrate, phosphate, sulfate), and chemicals that are expected to be present in an urban residential neighborhood (e.g., hydrocarbons, polycyclic aromatic hydrocarbons). Upon closer review, it is clear that virtually all of the compounds detected through the AUES List sampling are either used extensively in industry, are commonly found in the urban environment or are potentially of natural origin. Furthermore, many of the compounds detected on the OU4 residential properties are only tentatively identified, and some of the identified compounds are likely analytical artifacts (false positives).

Additionally, draft DC DOH comments also suggest that some of the detected compounds are experimental chemical warfare agents or precursor compounds and that many of these compounds are unknown in modern industry. However, USACE's review indicates that none of the 23 compounds listed in Tab B of the DC DOH comments are experimental chemical warfare agents and only two are potential precursor compounds.

Toxicity - The draft DC DOH comments circulated to property owners list the compounds detected, but do not describe the concentrations of the chemicals found. By not considering the concentrations of the compounds detected, DC DOH comments, in turn, fail to note that most of the reported concentrations are less than EPA Region 3's Risk-Based Concentrations (RBCs) for screening residential property. Considering the available RBCs, it is clear that the detected concentrations found on the OU4 AUES residential properties correspond to a *de minimis* risk and do not pose any health risks of concern for those individuals residing on the four properties sampled. As discussed with the affected property owners, USACE, EPA Region 3 and DC Health are in agreement on this issue.

In presenting risk concerns, the DC DOH comments (Tab B) note that many of the chemicals on the AUES list are "toxic" and cites various published sources of toxicity information. However, the DC DOH comments mischaracterize and misinterpret the content of the cited references in many places. Furthermore, the comments fail to recognize the first tenet of toxicology—the dose makes the poison. For example, the DC DOH comments state that oleic acid is a "poison and skin irritant"; they fail to note that oleic acid is found in percentage amounts in olive oil. While pure oleic acid applied to the skin is likely to cause irritation, this fact is not relevant to the concentrations detected in soil at any of the OU4 properties. The DC DOH notation of "toxic" and "poison" in Tab B fails to capture the context in which these chemicals are detected. Specific comments on the chemicals listed as "toxic" in the DC DOH report are provided in **Appendix 4**.

USACE does recognize that certain compounds detected do not have RBCs. Such inherent limitations are part of any scientific investigation and must be dealt with to the greatest extent practicable. USACE is working with DC DOH, USEPA and concerned residents in trying to reduce these and other identified uncertainties, which is discussed in more detail in the last section of these responses.

Risk Assessment - DC DOH comments state that the number of compounds on any given property makes it difficult, if not impossible, to assess the risk. USACE acknowledges that potential synergistic, antagonistic, or additive effects of multiple chemicals can complicate risk assessment in locations where large numbers of chemical compounds are found, and continues to work with DC DOH and USEPA in trying to address such risk uncertainties. However, while scientific research is ongoing to develop methodologies for assessing risk from complex mixtures, it is equally important to acknowledge that the potential for future advances does not mean current risk assessment practices are invalid.

USACE does follow currently appropriate regulations and guidance when evaluating risks. For instance when screening the AUES List data, USACE followed EPA Region 3 guidance indicating that the effects of multiple chemicals are accounted for by adjusting the non-carcinogenic RBCs down by an order of magnitude. In other words, if the RBC for a non-carcinogen was 5.2 mg/kg, USACE compared the concentration detected in the soil at the OU4 properties to 0.52 mg/kg. It remains USACE's commitment that any risk assessment evaluating the AUES data will be performed using the best practices available at the time, and that both DC DOH and USEPA will have full opportunity to provide regulatory review and comment to any such risk assessment.

USACE notes that EPA has prepared two risk assessments for the Spring Valley area, one in 1999 and one in 2000. The DC DOH comments suggest that a new risk assessment should be done using newer data from site-wide arsenic sampling and limited sampling for other constituents, if EPA feels that the additional limited data should be included. However, it is important to note that the purpose of OU4 AUES residential properties study was to examine whether certain additional chemicals should be added to the assessment, and the results to date indicate that chemicals other than arsenic appear to pose little, if any, additional risk. While any decision to update or append the earlier two risk assessments is a decision for EPA Region 3, USACE does not see any value in revising these earlier risk assessments because of the low concentrations of the other constituents detected and because a response action to address the arsenic contamination is already underway.

8 Future Project Efforts

Several concerns have been expressed by DC DOH and the affected OU4 residents with regard to the need for additional investigations on the four OU4 properties sampled previously. Specifically, DC DOH recommends that the Partners discuss the need for more extensive sampling and whether soil-gas mapping would be useful to identify potential burial sites. DC DOH recommends examining the remaining two properties geophysically for potential burial sites, and suggests that the detection of volatile organic compounds in a location might indicate a containerized burial site.

USACE does not believe that the types and concentrations of volatile and semivolatile organic compounds found in the soil on the OU4 AUES residential properties are indicative of the presence of a containerized burial site. However, it should be noted that three of the OU4

residential properties are slated to be surveyed geophysically to determine the presence of subsurface anomalies that could possibly be buried munition items, pits, or trenches based on a property prioritization plan developed in collaboration with DC DOH and USEPA and reviewed with the Spring Valley RAB. Progress on these ongoing geophysical investigations will continue to be one of the priorities discussed at monthly partnering meetings between USACE, EPA Region 3 and DC DOH.

In conjunction with the OU4 AUES sampling, USACE has established a work group with regulatory agencies and the affected OU4 AUES property owners/residents to review the AUES sampling results, identify uncertainties and discuss potential next steps. Whether or not additional AUES sampling will be necessary in the future will be evaluated through this multi-stakeholder work group. Minutes from the first meeting of this group are available on the project's web site at http://www.nab.usace.army.mil/projects/WashingtonDC/springvalley.htm. Additionally, it should be noted that 85 questions have been submitted by community RAB members regarding this sampling event, and that responses to these questions have been completed in consultation with USEPA and DC DOH and also will be available through the Spring Valley web site. USACE will continue to post the status and progress of efforts to address AUES List sampling uncertainties, as it becomes available.

These continued efforts regarding the AUES List findings and uncertainties will be integrated with the several other ongoing project priorities. Included in these project priorities is a multi-year removal action for addressing the 150 properties requiring soil arsenic removal, as well as several ongoing or planned investigations into other potential contamination and environmental media (i.e., potential buried ordnance, indoor air and groundwater).

Appendix 1

DC Department of Health's *Draft Comments on the Corps of Engineers' Final Report of Analytical Results dated May 8, 2002 for 3819 48th Street; 4710 Quebec Street; 4625 Rockwood Parkway, and 4633 Rockwood Parkway*

June 10, 2003

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF HEALTH

DRAFT COMMENTS ON THE CORPS OF ENGINEERS' FINAL REPORT OF ANALYTICAL RESULTS DATED MAY 8, 2002
3819 48TH STREET; 4710 QUEBEC STREET; 4625 ROCKWOOD PARKWAY AND 4633 ROCKWOOD PARKWAY

FEBRUARY 2003



Prepared by
Environmental Health Administration
Bureau of Hazardous Material and Toxic Substances
Hazardous Waste Division

Sequence of Events

First, the Corps of Engineers' (Corps') Final Report of Analytical Results (Report) WAS DATED May 8, 2002. Relevant data from this report was transmitted to only one of the property owners, 3819 48th Street, on or about January 14th, 2003. The property owner transmitted his portion of the data to DC Department of Health on January 23rd, 2003. At the partnering meeting on January 29th, 2003, the District of Columbia's Remedial Project Manager expressed concern over the delay and means of obtaining even a portion of the report. Also, concern was expressed over the more important delay in notifying the property owners.

At the partnering meeting, the District of Columbia's Remedial Project Manager noticed that the EPA's Remedial Project Manager had a completed Report dated May 8, 2002, which he also was given on January 14th, 2003. DC requested a copy of this Report, which the Corps transmitted on January 31st, 2003.

The Report indicates that sampling was done on 2/8/01 and 2/13/01. The Report also states on page 2 under SUMMARY, "Except as indicated in this report, all samples were prepared and analyzed within the specified holding times using the EPA-approved analytical procedures." The District will reserve comment on this portion of the Report until it receives copies of all field notes, chain-of-custody forms, laboratory quality control results, and all other information included in the data packages including the original laboratory reports, hereby requested pursuant to the Department of Defense and District Memorandum of Agreement (DDMOA) dated 5-9-94, paragraph 1, page 2-3.

This request is necessary due to the unusual nature of the timeline. A delay of a year and three months from sample collection to validated results is unusual, even for Spring Valley. Another delay of eight more months until the regulators and at least one property owner was notified is another inexplicable circumstance. Finally, the Report states in the first sentence, "In accordance with the revised Final Work Management Plan for Follow-on Sampling for OU-4 Residential Lots, Amendment 2 (Parsons, April 2001), Parsons collected soil samples from four OU-4 residences to assess for the presence of the American University Experiment Station (AUES) list of chemicals." The District needs to know how samples collected in February 2001 could be in accordance with a Plan Amended in April 2001.

Because many of the constituents of concern were volatile substances, this lengthy timeline and the missing date as to when the samples were actually analyzed is even more important. Also, several Trip Blank samples were apparently contaminated with volatile compounds, raising a further question on how well the sample blanks were sealed and whether any loss of volatile constituents occurred before analysis.

Generic Comments

During January and February of 2002, the District had several discussions with the Corps of Engineers "new" members of the partnering team, over the need to include the District in the deliberative process. While the District was and is pleased with the high level of expertise these "new" members possess, the District was under the impression that these "new" members were not used to working with state or local governments that assumed such a prominent role on a military weapons site. The District was under the impression that long before May 2002, these "new" members understood the need to include the District in the deliberations and to supply the District with all information regarding items or contamination found at the site. Therefore after this new member orientation, the District is at a loss to explain why it was not told of the sampling results, at least at a point in time where the results were validated.

The District requests that the Corps of Engineers search its files to ensure that no other relevant data or information is being withheld. The District reminds the Corps that the vast majority of the AUES site is private property and military customs regarding "need to know" are simply inapplicable.

The District has been informed that rights of entry for this expanded sampling were not obtained from two of the residents. The District is not in a position to assess the accuracy of this anecdotal information.

The District is also concerned about the timeline because the Corps has repeatedly stressed that its expertise is in the ordnance and engineering aspects, and has deferred the health related issues to the regulators. In the Work Management Plan for OU-5, August 10, 2001, the Corps states, "CENAB responsibilities include...obtaining rights-of-entry to properties in the investigation areas...and coordinating with regulatory agencies on issues pertaining to protection of human health and the environment." Par. 1.4.2 page 1-5. (See also page 1-5 of the Work Management Plan for OU-4 dated August 14, 2000). Again the Corps states, "Communication with the residents of Spring Valley is considered paramount to the successful completion of this project. The flow chart (Figure 1-4) below indicates the general sequence of events necessary to accomplish the sampling of the residential properties...Submit Right of Entry Letter to Homeowner-Receive signed Right of Entry-...Submit Sample Results Letter to Homeowner." Par. 1.5.9.4 Page 1-11. **(TAB A).** The District suggests that the Corps insure that its new personnel familiarize themselves with these generic work plans.

Since the Corps defers health issues to the regulators, not advising the regulators of the presence of these compounds left the residents without any competent opinion on the impact of the compounds for a period broaching two years. The fact that the residents were not even informed about the existence of the compounds, further exacerbates the problem. This "ostrichesque" approach to environmental remediation is not appropriate.

Specific Constituents

The following constituents are listed in the Report as being detected:
acenaphthalene
acetone
acrolein
acetaldehyde
alpha-lindane
anthracene
benzaldehyde
benzo[A]anthracene
benzo[B]fluoranthene
benzo[G,H,I]perylene
benzo[K]fluoranthene
benzoic acid
benzyl alcohol
benzyl bromide
benzene
benzeneetanol, 4-hydroxy
benzene, (1-methylethenyl)
benzene, 1-methyl-3-(1-methyl)
bicyclo2,2,1 heptane,7,7-d
bicyclo3.1.1 hept-2-ene.2.6.5-trimethyl
bicyclo3.1.1 hept-2-ene.2.6.6-trimethyl
bis(2-ethylhexyl)phthalate
butanal
butane
2-butanone
2-butanone, 3-methyl
2-butene, (z)
butylbenzylphthalate
carbon disulfide
carbonyl sulfide
carboxylic acid ester
chloride
chloroform
chloromethane
chrysene
cyanide
cyclohexene, 1-methyl-4-(1-methylethenyl)
cyclorpropane, 1,2-dimethyl-,trans
cyclotetrasiloxane, octamethyl
dibenz[A,H]anthracene
dibenzofuran
dichlorofluoromethane

diethylphthalate
di-n-butylphthalate
docosane
dodecanal
1-eicosanol
ethanethiol
ethanol,2-(2-ethoxyethoxy)
ethanone, 1-(3-ethyloxiranyl)
fluoranthene
fluorene
fluoride
gama-sitosterol
heptadecane
heptadecane, 9-octyl
heptane.3-methylene
hexadecanoic acid
9- hexadecanoic acid
2,4-hexanedione
2-hexanone
hexanal
hexanal, 2-ethyl
hexanal.5-methyl
hexane
1-hexene,4-methyl
2-hexene, (z)
indeno[1,2,3-CD]pyrene
methyl acetate
methylene chloride
2-methylnaphthalene
naphthalene
nitrate-n
nonacosane
nonadecane
nonanal
octacosane
13-octadecenal
14-octadecenal
9,12-octadecadenoic acid
octanal
octane
1-octanol,2,7-dimethyl
2-octene
2-octene, (e)
oleic acid
pentadecane,8-hexyl
pentanal isomer 1

pentanal isomer 2
pentanal isomer 114-octadecenal
phenanthrene
phenanthrene, 9-methyl
phosphate-P
propanal, 2-methyl
propane, 1,1-oxybis
1-propene,1.2.3-trichloro
pyrene
sulfate
thiodiglycol
toluene
trichlorofluoromethane
tricosane

Comments on Risk

Since many of these are volatile compounds, and many of these were found in surface soils, a presumptive pathway to human exposure exists. However, since many of these compounds are unknown in modern industry and do not have Risk Based Concentrations established, it would be difficult, if not impossible, to do an accurate Risk Assessment.

The District agrees with the Corps that most of these compounds are found in very low levels (i.e. a few parts per billion). However, the District notes that a few of these compounds are experimental chemical warfare agents or precursor compounds listed in the archival documents. Some are listed in standard hazardous materials references. **(TAB B).**

In addition, there are 102 compounds detected on one or more properties. The lowest number on any single property is 24. The two properties with the largest number of compounds lie in close proximity to each other. Because of the number of compounds on any given property, the synergistic and combinative effects would make it difficult, if not impossible, to do a Risk Assessment.

Finally, since EPA has already done a risk assessment on the Spring Valley site, it would be repetitive to do another. While EPA's Risk Assessment was done in 1999, it was primarily based on the limited sampling data from 1993 and 1994. Newer data from the site-wide arsenic sampling and limited sampling for other constituents should be added. If EPA feels that a Risk Assessment could be done on this new data, it should also be included.

Comments on Implications for the Spring Valley Project

Since two of these properties are known to have burial sites adjacent to them and are suspected of having burial sites on them based on geophysical surveys, the remaining two properties should also be examined geophysically for potential burial sites. Indeed one of those properties is already on the list for the first 50 properties to be geophysically surveyed, for other reasons.

The District noted in letter sent to the Corps in 1998 that the general absence of volatile and semi-volatile compounds found in the 1993 and 1994 sampling suggested that where such compounds were found a containerized burial site might exist. The reasoning seems especially apropos in light of the Report.

Other adjacent properties, as well as those in Points of Interest, should have a similar battery of tests done.

The District suggests that the partners discuss, as a priority, the need for more extensive sampling (some of these properties had only 3 samples) and whether a mapping of the soil gas would be useful in pointing to potential burial sites. The Corps should discuss interim measures with the property owners.

TAB A

DRAFT FINAL

WORK MANAGEMENT PLAN

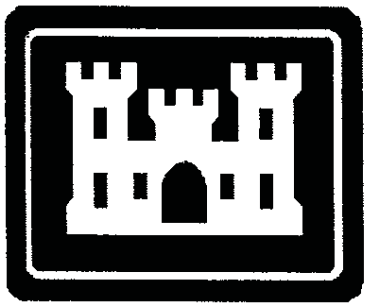
- Field Sampling Plan
- Quality Assurance Project Plan
- OE/CWM Risk Evaluation
- OE/CWM Contingency Plan
- Site Specific Safety & Health Plan
- Work Management Structure

TASK ORDER TO NATIONAL GUARD BUREAU
CONTRACT NO. DAHA90-94-D-0010, TASK ORDER DA01
DERP-FUDS HTRW PROJECT NUMBER C03DC091804

REMEDIAL INVESTIGATION/FEASIBILITY STUDY (RI/FS)
SPRING VALLEY OPERABLE UNIT 5, WASHINGTON, D.C.

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
BALTIMORE DISTRICT



Prepared By:

PARSONS ENGINEERING SCIENCE, INC.
10521 ROSEHAVEN STREET
FAIRFAX, VA 22030

AUGUST 10, 2001

1.3.3 Environmental Setting

1.3.3.1 Four geological formations, three Piedmont and one Coastal Plain formation, are apparent in the vicinity of the site. These formations (from west to east) are the Sykesville Formation, the Dalecarlia Intrusive Suite, the Actinolite Schist, and the Coastal Plain Terrace Formation (USGS 1994). The Sykesville Formation is a sedimentary melange consisting of fragments of metagraywacke, migmatites, amphibolite, and actinolite schist in a quartzofeldspathic matrix. The Dalecarlia Intrusive Suite consists of massive to well-foliated biotite monzogranite and lesser granodiorites. The Actinolite Schist Unit consists of actinolite schist, actinofels, actinolite-chlorite schist and lesser talc bearing rocks. The Coastal Plain Terrace Gravel consists of highly weathered, crudely bedded gravel, sand, silt, and clay (Fleming, A. H., Drake, A. A., Jr., McCartan, Lucy, 1994). The Piedmont Formations are igneous or metamorphic in origin. The Coastal Plain Terrace Formation is fluvial in origin (Fleming, A. H., Drake, A. A., Jr., McCartan, Lucy, 1994). Schistosity is the major structural feature of the Piedmont rocks and saprolite in the OU-4 vicinity.

1.3.3.2 Two soil associations are present at the site, the Urban Land-Sassafras Chillum (ULSC) and the Urban Land-Manor Glenelg (ULMG). The ULMG soil association appears to comprise the majority of the soil at the site. It is a well to moderately well drained soil resulting from the weathering of the basement rocks (schist). The site ULSC soil in the vicinity of the residence results from the weathering of Coastal deposits. However, these soils have been greatly disturbed by construction and landscaping activities. The bedrock at this location consists of a variety of metasedimentary rocks of the Sykesville Formation. Depth to bedrock in the vicinity of the site ranges between 6 and 20 feet.

1.4 PROJECT ORGANIZATION

1.4.1 Project Team

1.4.1.1 Several organizations are directly involved in the Spring Valley OU-5 project. The technical team comprises the USACE, Parsons, and various subcontractors (Figure 1-2). The roles of these team members are described below.

1.4.2 U.S. Army Corps of Engineers, Baltimore District (CENAB)

1.4.2.1 CENAB is the Project Manager for this project. CENAB responsibilities include review of project plans and documents, obtaining rights-of-entry to properties in the investigation areas, working with the news media and the public (in conjunction with the Parsons ES Public Affairs Officer), and coordinating with regulatory agencies on issues pertaining to protection of human health and the environment.

1.4.3 Parsons Engineering Science (Parsons)

1.4.3.1 Parsons will function as the A/E contractor, and provide overall site management and coordination during field operations, including sampling, coordination of analytical samples, coordination of subcontractors, documentation of site activities, and preparation of the final report. Parsons will appoint a Public Affairs Officer (PAO) to assist CENAB in communicating progress and results to the public.

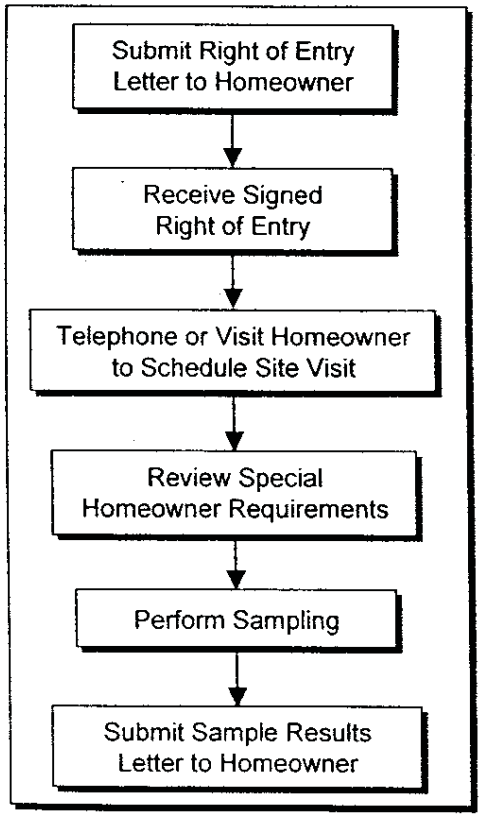
1.5.9.2 During sampling, it is anticipated that Ms. McQuilkin will be on site at the CENAB trailer located at the Federal Property.

1.5.9.3 Ms. McQuilkin, in close coordination with the CENAB Project Manager, will assist with the following:

- Answering phone calls from residents, providing answers to questions or taking messages for more difficult questions. Researching questions and returning phone calls within a reasonable time. Maintaining a log of contact with residents;
- Scheduling of sampling activities on each property with the homeowner and the sampling team;
- Tracking of requirements to conduct sampling at a resident's property. This will include pre and post sampling activities such as notifying the residents, tracking the status of signed rights of entry and preparing post sampling letters to be sent by CENAB to residents. The final list of items to be tracked will be coordinated with the CENAB Project Manager;
- Participating in meetings with residents as appropriate.

1.5.9.4 Communication with the residents of Spring Valley is considered paramount to the successful completion of this project. The flow chart (Figure 1-4) below indicates the general sequence of events necessary to accomplish the sampling of the residential properties.

Figure 1-4
Home Owner Communication Flow Chart



TAB B

Final Report

A Brief History of the *American University Experiment Station* and *U.S. Navy Bomb Disposal School, American University*

Prepared under the
Defense Environmental Restoration Program
for
U.S. Army Engineer District, Baltimore

by
Martin K. Gordon, Ph.D.
Barry R. Sude, Ph.D.
Ruth Ann Overbeck, M.A.
Charles Hendricks, Ph.D.

Office of History
Headquarters, U.S. Army Corps of Engineers
May 1994

Specific Activities and Operations

Operations at the Experiment Station, first under the Bureau of Mines and then under the Chemical Warfare Service, fell into several comprehensive, if sometimes overlapping, categories: gas mask research, offensive and defensive toxic chemical investigations, medical research, pyrotechnic investigations, and mechanical investigations. The Experiment Station's Chemical Research Division (Offense) studied the properties and efficiency of toxic substances—mustard gas, phosgene, superpalite (trichloromethyl chloroformate)—already in use in Europe. It suggested, developed, and submitted for testing literally hundreds of new chemical and solid toxic substances—including new types of mustard gas, cyanogen chloride, and bromobenzyl cyanide—for possible use in gas warfare. The division also investigated and developed smoke mixtures for Navy smoke screens and colored smokes for Army signaling on the battlefield, as well as incendiary materials for use in bombs, shells, projectiles, darts, and hand grenades. In addition, it investigated the problem of obtaining resistant linings suitable for gas shells; devised methods for manufacturing inorganic compounds for use in new explosives and as new toxic and corrosive shell fillers; and invented new methods for analyzing the effectiveness of new materials developed for use in gas warfare. It conducted extensive tests related to the toxicity and symptomology of various classes of mustard gas and similar compounds; developed a method for determining the tear-producing effects of toxic substances on humans; and contributed to various aspects of gas mask research.

The Chemical Research Division (Offense) also devised methods for the preparation, manufacture, and use of such toxic materials as acrolein, martonite, nitrosomethylurethane, chloroacetic anhydride, diphenylchloroarsine, adamsite, phenylbromoacetonitrile, methyldichloroarsine, thionyl fluoride, methyldichloroarsine, lewisite, bromobenzyl cyanide, phenylimidophosgene, thiophosgene, sulfur monochloride, sulfur dichloride, superpalite, cyanogen chloride, cyanogen bromide, diethyl sulfide, diphenyl sulfide, chloropicrin, acetylene-arsenic trichloride, acetyl fluoride, acetyl chloride, chloroacetyl chloride, acetophenone, chloroacetophenone, zinc arsenide, calcium arsenide, magnesium arsenide, arsenic trifluoride, bromine trifluoride, boron trifluoride, sulfur hexafluoride, iodine pentafluoride, aluminum chloride, titanium tetrachloride, and mustard gas.[47]

CHEMICAL	COMMENT
2-butonone	toxic by ingestion and dermal, affects peripheral nervous system[1]
acetone	
carbon disulfide	sulfide exception[2]
chloromethane	organic halogen (aliphatic halide)[3]
dichlorofluoromethane	organic halogen (aliphatic halide)[4]
2-butanone, 3-methyl	
2-octene	octylene [5](acrid smoke)
acetaldehyde	causes respiratory paralysis[6]
bicyclo2,2,1 heptane,7,7-d	
bicyclo3.1.1 hept-2-ene.2.6.5trimethyl	Similar to pinene, causes skin eruption, ataxia, kidney damage[7]
carbonyl sulfide (carbon oxide sulfide	sulfide[8]
cyclotetrasiloxane, octamethyl	siloxanes can spontaneously combust in air[9]
heptane.3-methylene	
hexanal	toxic, ingestion & inhalation, (acrid
smoke)[10]	
hexanal.5-methyl	
octanal	
octane	asphyxiant and blister agent[11]
pentanal isomer 114-octadecenal	Irritating to eyes & respiratory tract[12]
1-eicosanol	
1-propene,1.2.3-trichloro	organic halogen[13]
hexadecanoic acid	decanoic acid is a poison (acrid smoke)[14]
oleic acid	poison and skin irritant[15]

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[1] Hazardous Chemical Desk Reference by N. Irving Sax and Richard J. Lewis, Sr., Van Nostrand Reinhold NY 1987.

[2] Military Chemistry and Chemical Agents TM 3-215 1942 at page 59 "Chemical agents are, almost without exception, organic compounds of the halogens." The exceptions are the sulfur derivatives (sulfides, mercaptans), nitrogen derivatives (cyanides), and some arsines.

[3] Supra, TM 3-215

[4] Supra, TM 3-215

[5] Chemical and Technical Dictionary H. Bennett editor, Chemical Publishing Co. NY 1962.

[6] The Merck Index Martha Windholz editor, Merck and Company 1976

[7] Supra, Merck

[8] Supra, TM 3-215

[9] Supra, Hazardous Chemicals

[10] Supra, Hazardous Chemicals

[11] Supra, Hazardous Chemicals

[12] Supra, Merck

[13] Supra, TM 3-215

[14] Supra, Hazardous Chemicals

[15] Supra, Hazardous Chemicals

REPRODUCED AT

Appendix 8.

192 COMPOUNDS PREPARED FOR TOXICOLOGICAL TESTS.

70 w arsenic

COMPOUND	REPORT NO.
Allyl Dichlorarsine	EACD 179
Allyl Formate	" 129
Allyl Isothiocyanate	*MR 7- '25
p-Amino Chloracetophenone	EACD 158
Ortho Arsanilic Acid	" 323
Para Arsanilic Acid	" 279
Atoxyl	" 279
Benzyl Arsonic Acid	*MR 4- '25
Benzyl Bromacetamide	EACD 307
Benzyl Bromide	*MR 9- '25
Benzyl Dichlorarsine	EACD 171
Bromacetoacetic Ester, Alpha	" 190
Bromacetoacetic Ester, Gamma	" 190
Bromnitromethane	" 275
Brompicrin	" 151
Butyl Arsenious Oxide	" 345
Butyl Arsonic Acid	" 345
Butyl Dichlorarsine	" 345
Butyl Difluorarsine	" 345
Calcium Butyl Arsonate	" 345
Calcium Ethyl Arsonate	" 338
Calcium Methyl Arsonate	" 319
Calcium Meta Nitrophenyl Arsonate	* MR 9- '24
Capsaicin	EACD-186
Chloracetic Acid	" 82
Chloracetoxylone	*MR 9- '25
Chloracetyl Chloride	EACD 87
Beta Chlorethyl Dichlorarsine	" 331
Bis Alpha Chlorethyl Sulfide	" 354
Bis Beta Chlorethylthio Ethane	*MR 3- '25
Bis Beta Chlorethylthiol Carbonate	EACD 280
Beta Chlorethylthiol Chlorformate	" 280
Beta Chlorethylthio Cyanate	" 285
Bis Chlorethylthio Methane	" 311
Bis Chlormethyl Ether	" 126
Chlormethyl Phenyl Sulfone	" 199
Bis Chlormethyl Sulfide	" 267
Chlorpicrin	" 75
Beta Chlorvinyl Arsenious Oxide	" 321
Bis Beta Chlorvinyl Arsenious Oxide	*MR 12 -22
Bis Beta Chlorvinyl Chlorarsine	EACD 239
Beta Chlorvinyl Dichlorarsine	" 239
Beta Chlorvinyl Difluorarsine	" 346
Beta Chlorvinyl Dimethoxyarsine	" 321

REPRODUCE

COMPOUND	REPORT NO.
Bis Beta Chlorvinyl Fluorarsine	*MR 8- '25
Bis Alpha Chlorvinyl Sulfide	EACD 354
Bis Beta Chlorvinyl Sulfide	" 354
Copper Xanthate	*MR 5- '25
Cyanogen Bromide	EACD 196
Cyanogen Sulfide	" 221
Dibromacetamide	" 307
Dichloracetone	" 312
Dichlorarsanthrene	" 323
Dichlor Nitroso Ethane	" 191
Diethoxy Chlorarsine	" 352
Diethyl Diselenide	" 277
Diethylene Disulfide	" 311
Diethylene Oxide Sulfone	" 337
Diethyl Selenide	" 277
Dimethyl Aniline Arsenious Oxide	" 229
Dimethyl Sulfate	*MR 8- '25
Dimetnyl Sulfide	EACD 252
2,4 Dinitrophenol	" 238
2,4 Dinitrophenyl Beta Chlorethyl Sulfide	" 251
2,4 Dinitrophenyl Beta Chlorethyl Sulfone	" 251
2,4 Dinitrophenyl Beta Chlorethyl Sulfoxide	" 251
Dinitrotetrachlorethane	" 157
Di-isothiocyan Dimethyl Ether	*MR 3- '26
Diphenylamine Arsenious Oxide	EACD 324
Diphenylamine Bromarsine	*MR 3- '25
Diphenylamine Cyanarsine	EACD 257
Diphenylamine Fluorarsine	" 318
Diphenyl Arsenious Oxide	" 324
Diphenyl Arsenious Sulfide	*MR 4- '25
Diphenyl Arsinic Acid Ortho Arsonic Acid	EACD 323
Diphenyl Chlorarsine Ortho Chlorarsine	" 323
Diphenyl Cyanarsine	" 220
Diphenyl Fluorarsine	" 183
Diphenyl Trichlorarsine	*MR 3- '25
Diphenyl Antimonous Oxide	*MR 2- '25
Diphenyl Chlorstibine	*MR 2- '25
Diphenyl Phenoxyarsine	EACD 156
Divinyl Sulfide	" 354
Bis Beta Ethoxy Ethyl Sulfone	" 354
Ethyl Arsenious Oxide	" 324
Ethyl Arsenious Sulfide	*MR 6- '25
Ethyl Beta Chlorethyl Sulfide	EACD 254
Ethyl Beta Chlorethyl Sulfone	" 254
Ethyl Beta Chlorethyl Sulfoxide	" 254
Ethyl Beta Hydroxyethyl Sulfide	" 254
Ethyl Dichlorarsine	" 313
Ethyl Dichlor Phosphine	" 283
Ethyl Difluorarsine	" 338

REPRODUCED AT

COMPOUND	REPORT NO.
Ethylene Dithiocyanate	EACD 285
Ethyl Iodoacetate	*MR 12- '23
Ferric Xanthate	*MR 5- '25
Fluorbenzene	EACD 262
Guaiacyl Dichlorarsine	" 189
Heptoyl Amide	" 307
Hexachlorbenzene	" 253
Hexachlorethane	" 253
Ortho Hydroxy Chloracetophenone	" 158
Beta Hydroxy Ethyl Arsenious Oxide	" 331
Beta Hydroxy Ethyl Arsonic Acid	" 331
Para Hydroxy Ethyl Phenyl Arsenious Oxide	" 189
Bis Beta Hydroxy Ethylthiol Carbonate	" 280
Beta Hydroxy Ethylthiol Chlorformate	" 280
Iodoacetophenone	*MR 1- '24
Lead Xanthate	*MR 5- '25
Magnesium Methyl Arsonate	*MR 9- '24
Magnesium Phenyl Arsonate	EACD 259
Magnesium p Phenylene Diarsinate	" 279
Mercaptol	" 217
Mercury Diethyl	" 283
Mercury Dimethyl	" 192
Mercury Dinaphthyl	" 274
Mercury Diphenyl	*MR 10- '24
Methyl Arsenious Oxide	EACD 324
Methyl Arsenious Sulfide	*MR 5- '25
Methyl Arsonic Acid	*MR 10- '24
Methyl Beta Chlorethyl Sulfide	EACD 231
Methyl Beta Chlorethyl Sulfone	" 231
Methyl Beta Chlorethyl Sulfoxide	" 231
Methyl Chlormethyl Sulfate	" 198
Methyl Cyanformate	" 102
Methyl Dibromarsine	*MR 8- '25
Methyl Dichlorarsine	EACD 211
Methyl Difluorarsine	" 344
Methylene Methylol Undecenoylamide	" 307
Methyl Heptoyl Amide	" 307
Methyl Beta Hydroxyethyl Sulfide	" 231
Methylol Benzamide	" 307
Methylol Heptoate	" 307
Methylol Nonoyl Amide	" 307
Methylol Phthalimide	" 307
Methylol Undecenoylamide	" 307
Methyl Oxamic Ester	" 102
Methyl Phenyl Sulfone	" 199
Methylthiol Chlorformate	" 180
Methyl Vinyl Sulfide	" 354
Monothioethylene Glycol	" 311
Mustard Sulfone	" 177
Alpha Naphthoyl Amide	" 258

REPRODUCED

COMPOUND	REPORT NO.
Beta Naphthoyl Amide	EACD 258
Naphthyl Dichlorarsine	" 274
Alpha Naphtho Nitrile	" 258
Beta Naphtho Nitrile	" 258
Ortho Nitraniline	" 323
Nitro Cnloracetophenone	" 158
Nitromethane	" 275
Meta Nitrophenyl Arsenious Oxide	*MR 5- '24
Meta Nitrophenyl Arsonic Acid	*MR 10- '24
Ortho Nitrophenyl Arsonic Acid	EACD 323
Meta Nitro Phenyl Dichlorarsine	*MR 10- '24
Meta Nitro Phenyl Difluorarsine	*MR 1- '25
Meta Nitro p Oxy Benzoyl Benzamide	EACD 307
Phenoxarsine Chloride	*MR 5- '25
Phenoxarsine Fluoride	**WR6-22-25
Phenoxarsine Oxide	*MR 6- '25
Phenyl Antimonous Oxide	*MR 11- '24
Phenyl Arsenious Oxide	EACD 324
Phenyl Beta Chlorethyl Sulfide	" 263
Phenyl Beta Chlorethyl Sulfone	" 263
Phenyl Dichlorarsine	*MR 7- '25
Phenyl Dichlorphosphine	EACD 283
Phenyl Difluorarsine	" 273
Para phenylene Diarsonic Acid	" 279
Para Phenylene bis Dichlorarsine	" 279
Phenyl Beta Hydroxyethyl Sulfide	" 263
Phenyl Vinyl Sulfide	" 354
Phosphorus Pentaselenide	" 277
Picric Acid	" 238
Potassium Xanthate	*MR 5- '25
Pyromucic Acid	EACD 159
Pyromucyl Chloride	" 159
Resorcyl Aldehyde	" 307
Sodium Methyl Arsonate	" 211
Tetrachlordiethyl Sulfide	" 254
Tetrachlordiethyl Sulfoxide	" 232
Thiobenzamide	*MR 5- '23
Toluyl Acetamide	EACD 307
Toluyl Bromacetamide	" 307
Toluyl Chloracetamide	" 307
Toluyl Dibromacetamide	" 307
Para Toluyl Heptoyl Amide	" 307
Trimethoxyarsine	" 310
Triphenylarsine	*MR 5- '25
Triphenyl Dichlorarsine	*MR 5- '25
Tris Chlorvinyl Arsine	EACD 239
Trithioacetaldehyde	" 354
Trithioformaldehyde	" 267
Vanillyl Alpha Benzoyl Amide	" 307

Appendix 2

Appendix 2

Project records support the USACE position that the AUES sampling was conducted with the full knowledge of others. To demonstrate the level of coordination and communication between USACE and its regulatory partners throughout the AUES list sampling event, the following attachments are provided[1]:

- **Attachment A:** Supplemental handout distributed at the March 11, 2003 Spring Valley Restoration Advisory Board meeting, which outlines USACE efforts and project management considerations associated with the 2001 AUES List sampling.
- **Attachment B:** Partnering Meeting minutes dated January 3, 2001, at which Richard Albright, DC DOH, was present. The expanded sampling on three of the four OU4 properties that were the focus of the DC DOH comments was discussed at this meeting. These minutes also demonstrate that the partners participated in other decisions being made at that time.
- **Attachment C:** E-mail dated January 24, 2001 that demonstrates that USACE provided the AUES list to the Partners, including Richard Albright, DC DOH.
- **Attachment D:** E-mail dated January 31, 2001 distributing to the Partners, including Richard Albright, DC DOH, the AUES List sampling plan (amendment 1) for the CDC and Lot 12 on the AU campus. The message also notes upcoming sampling at the OU4 residential properties.
- **Attachment E:** E-mail dated February 22, 2001 providing the agenda for the next Partnering meeting to the regulatory agencies, including Richard Albright, DC DOH. It notes that DC DOH will be represented by Greg Hope at the next meeting because Mr. Albright will be unable to attend. One of the agenda items is the OU4 residential properties sampling.
- **Attachment F:** Excerpt from partnering meeting minutes dated February 27, 2001, at which Gregory Hope, DC DOH, was present. These minutes include discussion of expanding the AUES List sampling to the Sedgwick residential properties.
- **Attachment G:** E-mail dated May 8, 2001 from MAJ Michael Peloquin, USACE, asking the sampling contractor to prepare presentations for the upcoming partnering meeting (May 14) on any "qualified" sampling results received since the March meeting, what the preliminary results are showing and challenges associated with interpretation of the AUES data results (using AUES data as examples).
- **Attachment H:** Partnering Meeting minutes from May 14, 2001 during which USACE believes OU4 AUES List data results were shared with DC DOH and USEPA, as suggested in attachments G and I. USACE notes that these minutes do not specifically document distribution of these data and realize future minutes should be more detailed to ensure adequate capture of discussions and decisions between USACE, USEPA and DC DOH.
- **Attachment I:** E-mail dated June 1, 2001 from the sampling contractor to USACE, transmitting the draft AUES List sampling data tables that had been handed out at the meeting. One table is for the OU4 residential properties and the other for the AU properties

[1] Attachments contain only relevant pages – full copies of these documents are available on the project's web site at http://www.nab.usace.army.mil/projects/WashingtonDC/springvalley.htm.

(Lot 12 and the CDC). It also notes some problems were encountered in getting analyses back from the lab in a timely manner.

- **Attachment J:** E-mail dated July 25 and 27, 2001 among the partners, including Richard Albright, DC DOH, referencing a Sedgwick AUES List data discussion at the previous week's partnering meeting and a follow-up discussion between MAJ Michael Peloquin, USACE, and Mr. Richard Albright. The e-mails indicate that the partners discussed the format of the results to be furnished to the Sedgwick AUES residential property owners, and notes that DC DOH "did not see any results posing any serious health risks" in its preliminary review of the results.
- **Attachment K:** E-mail dated May 8, 2002 from the sampling contractor to USACE, suggesting that the AUES List sampling results for all ten properties be presented and discussed at the May 22 partnering meeting. The message notes that the final reports on the OU4 residential properties were expected to be completed May 8 or 9.
- **Attachment L:** Excerpts from Partnering Meeting minutes dated May 22, 2002, at which Richard Albright, DC DOH, was present. The minutes describes the partners' discussion of how to report the results of the AUES List sampling results to the property owners, as well as USACE's ongoing efforts to share data with DC DOH and work with Mr. Albright on prioritizing next steps based on the data available. The minutes also note USACE efforts to track and address sampling concerns expressed by the owner of 3819 48th Street.
- **Attachment M:** Letter dated March 15, 2001 sent to the property owners of 4710 Quebec Street, providing the preliminary grid sampling arsenic results from sampling conducted on February 2, 2001.
- **Attachment N:** Letter dated May 15, 2001 sent to the property owner of 3819 48th Street, conveying the preliminary results of the arsenic sampling on their property from sampling conducted on February 7 and 8, 2001.

Spring Valley Restoration Advisory Board
Supplemental Handout regarding 2001 AUES List Sampling
March 11, 2003

Corps Efforts to Meet Stakeholder Needs through Sampling

Between February and April 2001, soil samples were collected in three separate focus areas, including A) American University's Child Development Center and Lot 12, B) four properties on the 5000 block of Sedgwick Street, and C) four residential properties associated with, or in the vicinity of, Operable Unit 4. Soil samples collected from these properties were analyzed for the full list of chemicals used at American University Experiment Station (AUES), noting the AUES list had been agreed upon by the Corps, EPA and DC Health (subsequently referred to as the "partnership").

These properties with elevated arsenic, except for 3819 48th, were selected for additional sampling in an effort to determine if arsenic is the only chemical of concern for the Spring Valley project, and whether or not sampling for other contaminants on a broader scale was necessary. The Corps efforts to work with DC Health and specific property owners are outlined in the following examples.

Work Management Plan - Addendum 1 - AU Lot 12/Child Development Center

Section 1.1 indicates, *"This follow-on sampling scope of work reflects the discussions of the USEPA and DC Health regulators, the Baltimore District Corps of Engineers, and AU personnel at the January 25, 2001, Spring Valley Partnering Meeting."*

Table 4.1, Sampling Objectives, from this same addendum indicates that 48 inch subsurface boring sampling for the AUES list was conducted *"to accommodate the DC Health regulator's request to further define extent of metals and compounds from former AUES activities in subsurface soils inside the CDC in areas near former AUES buildings or disturbed earth features."*

Work Management Plan - Addendum 2 - Follow-on Sampling for OU-4 Residential Lots

With regard to quadrant surface sampling for arsenic, Table 4.1 indicates this sampling was conducted to *"further define extent of arsenic in surface soils at properties adjacent to properties containing notable concentrations of arsenic as determined by the Aug-Nov (2000) residential sampling. 4900 Quebec (arsenic only) and 3819 48th Streets were included to accommodate individual property owner requests based on special circumstances."*

In this same table, while it does not specifically confirm the property owner's knowledge that additional chemical analyses would be conducted, it does indicate the Corps' efforts to meet the needs of DC Health and the property owner. Specifically, it states that *"non-grid, non-quadrant surface samples for the TCL VOCs, TCL SVOCs, ABPs, TICs and the AUES List were conducted to accommodate the DC Health regulator's request to sample for compounds that may have been used at the AUES, four locations were selected for full scan sampling. The properties were geographically spread with the objective of investigating different potential depositional environments. In general, the locations were in areas of high surface arsenic concentrations, or for 3819 48th Street, which had not been previously sampled, random locations in each quadrant (these were collected at the 12" - 18" depth based on the information from the property owner)."*

Project Management

To better understand the length of time the process has taken, it is important to consider the other ongoing events within the Spring Valley project during this time. First, when the specialty sampling was conducted within the 3 focus areas, the Corps was responding to community requests to initiate area-wide sampling for arsenic, to conduct a time-critical removal action at the AU Child Development Center and to establish the Restoration Advisory Board. By June, the area-wide arsenic sampling had commenced, requiring significant project coordination over the next 12 months to obtain rights-of-entry, collect the data, return data results letters and coordinate follow-on sampling. This short list does not convey the time and detail required to:

- Reach consensus with the RAB representatives on ROE and results letter content
- Delineate the remediation goal of 20 ppm for the arsenic removals
- Plan and execute the time-critical removal action process
- Finish remediation on the Korean Ambassador's residence
- Investigate the pit on 4825 Glenbrook
- Respond to congressional inquiries
- Coordinate community meetings and educational materials,
- Address real estate and data results requests from individual residents
- Develop a long-term plan to resolve ordnance concerns
- Discuss other potential areas of investigation
- Address Administrative Record/Information Repository issues
- Explore concerns regarding missing historical records
- Etc.

In short, initial review of the data from the Child Development Center, Sedgwick Trench and OU-4 in 2001 caused the finalization of these data to be placed on a slower track. It was never a question of whether these data would be released,

noting that it would be included in the Engineering Evaluation and Cost Analysis (EE/CA). This document is required to be released for public comment.

The Corps must execute this project with a finite amount of funding and manpower. Given that the specialty sampling data from the three focus areas did not reveal any apparent risks, the identified arsenic risks and resulting community needs took priority out of necessity to keep the project moving as fast as possible.

The Corps' Relationship with Spring Valley Residents

Corps personnel and our contractors make every effort possible to meet special requests regardless of whether it is from a RAB member with substantial project understanding, or a resident interacting with the Corps for the first time. Unfortunately, the environmental cleanup process is not perfect and neither are those trying to execute the project nor those overseeing it or otherwise participating in the cleanup. The Corps acknowledges that it should have provided data results sooner in order to help address any lingering questions or concerns a given resident might have had. Although we do our best to work closely with Spring Valley residents and meet their needs, occasionally we are unable to meet a specific request and sometimes we do make mistakes.

In this case, from a community relationship perspective, the Corps should have provided each property owner with a timely set of data, even if we did not have the support materials ready to explain all the data. Clearly, we fell short of meeting the needs of the four property owners/residents. On this point I have already apologized and do so again; the entire team feels bad about this delay and the subsequent repercussions on our relationship with the RAB and those specific property owners. Nevertheless, the Corps remains hopeful that this informational issue can be resolved and that the Corps and the community RAB members can continue to work together to address community needs.

SPRING VALLEY OU-4
Child Development Center
Washington, DC

MEETING MINUTES

PURPOSE OF MEETING: Child Development Center

LOCATION: Federal Property Trailer

DATE: January 3, 2001

TIME: 1:30 p.m. – 5:00 pm

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1. INTRODUCTIONS

Everyone was introduced. Attendees attached.

Maj Plaisted began with a discussion plan for the CDC sampling

He provided an update of current projects on SV. Doing the excavation at 4801 and 4825. Getting the permit to place the roll-offs on Glenbrook.

SDA – People arrive back on site today to finish the set-up. Have the approvals to start working and will start the actual operation on Monday.

OU-4 sampling. Completed at 42 properties and on AU. Results on the 42 properties sent to the owners, USEPA and DC Health.

CDC.

Rich Albright stated the DC Health Department is ordering an immediate removal of the soil in the playground of the SDA. There was discussion on the need for an immediate removal. The discussion focused on sampling. The workplan was discussed. Sampling on 20' grids to determine the extent of the contamination. Willi Suter stated he did not feel the 20' grid was sufficiently fine. Discussion focused around using 10' grid. It was agreed sampling within the CDC will be performed on a 10' grid. Willi Suter stated AU wants split samples as does EPA. Parsons will be able to sample approximately 30 samples (two duplicates) per day with a three person team.

Ed Bishop discussed the analysis of the samples for volatiles and semi-volatile compounds for the target contaminant list (TCL) (EPA standard list) and tentatively identified compounds (TICs). TICs

are peaks that are not on the TCL but do give a peak that can be compared against a national mass spectrometry database. These peaks can be identified but not quantified.

Rich Albright suggested two samples at 4-5 feet within the CDC area.

Need to make sure we analyze for semi-vols (BNAs) to pick up the compounds identified in sample Baker 03

Surface sampling will be done on 10' grids. Two borings will be advanced to a depth of 4'. For each of the two borings, at 1' a discrete sample for TAL metals will be taken. At 4', a discrete sample will be taken and analyzed for agent breakdown products (mustard and lewisite), and volatiles, semi-volatiles TCLs and TICS. For the highest 5% arsenic results within the CDC, samples will be taken and analyzed for agent breakdown products (mustard and lewisite), and volatiles, semi-volatiles TCLs, TICS, and TAL metals. As results will be compared to background and the areas removed. It will take approximately 15 days to excavate, load out, receive results, and backfill. Assume an extra week for weather and other contingencies. AU will select a date after mid February when they can vacate for a month. The excavation will then progress at that date.

No need to do a geophysical survey within the CDC fence unless sampling indicates otherwise. Additional geophysical sampling will be based upon results of the AU sampling. The validated samples for AU should be available in 2 weeks.

OU-4 Sample Results

MAJ Plaisted presented the results of the 42 properties. Lan Reeser explained the approach for those properties with elevated arsenic (4641, 4637, 4633, 4625, 4621 Rockwood Parkway, 4710 Quebec, 4710 Woodway, and 4861 Indian Lane). These lots (including 4629 Rockwood) will be gridded on 20' centers and samples taken and analyzed for arsenic.

On 4625 and 4633 Rockwood Parkway, three surface samples will be taken in the highest quadrant(s) [4625 2 in Q3, 1 in Q4] [4633 take the sample at the borehole and two randomly in the backyard] (based up the initial arsenic results) and analyzed for agent breakdown products (mustard and lewisite), and volatiles and semi-volatiles TCLs and TICS. For these properties, each of the three quadrants not already containing a subsurface boring will be further sampled by compositing three 1' borings from each quadrant and analyzing for arsenic. 4604 and 4608 will be sampled with the quadrant sampling approach.

The same approach will be used for 4710 Quebec [1 ea in front quadrants and 1 in the high backyard quadrant]. Samples will be analyzed for agent breakdown products (mustard and lewisite), and volatiles and semi-volatiles TCLs and TICS. OU-4 will be expanded to include the three houses across the street from 4710 Quebec. These properties will be sampled with the quadrant sampling approach.

The 4710 Woodway front yard, specifically quadrant 4 and the northern portion of quadrant 3 will be gridded on 20' centers and sampled for arsenic. A composite of three 1' borings will be taken in each of these two quadrants in the front yard and analyzed for arsenic.

The lot at 4861 Indian Lane will gridded on 20' centers and sampled for arsenic. The property directly across the street will be sampled with the quadrant sampling approach.

A CENAB representative will accompany the sampling team.

Name	Organization/Address
Mike Rogers	CENAB
Lan Reeser	CENAB
Brian Plaisted	CENAB
Terry Schlonecker	EPA
Ken Shuster	EPA
Willi Suter	AU
Verna Green	AU CDC
Richard Albright	DC DOH EHA
Chuck Twing	CEHNC
Mike Winningham	Parsons ES
Kevin Brennan	CENAB
Ray Livermore	CENAB
Eryn Lussier	Parsons ES
James Taylor	Parsons ES

Hughes, Edward T NAB02

From: Rogers, Michael J NAB02
Sent: Thursday, February 08, 2001 12:10 PM
To: Peloquin, Michael CPT NAB02
Subject: FW: Chem list

-----Original Message-----
From: Plaisted, Brian D MAJ NAB02
Sent: Wednesday, January 24, 2001 10:28 AM
To: 'Albright, Rich'; 'Harbold, Harry'; 'Shuster, Ken'; 'EPIC - Slonecker, Terry'; Anderson-Hudgins, Sherri HNC; 'AU-Bridgham, Bethany'
Cc: Rogers, Michael J NAB02; Reeser, Leland H NAB02
Subject: Chem list

To all,
Attached is the list of contaminants that we had discussed at our last meeting and Parsons ability to have a lab for check for these compounds. This will be part of our discussion for tomorrow.

Brian Plaisted



chemic~1.xls

(later called the AUES - list of contaminants)

SPRING VALLEY
AUES CHEMICALS

COMPOUND	ROUTINE	NON-ROUTINE	SPECIALTY LAB	NON-SPECIFIC	RESEARCH PROJ
	(TCL or TAL) + TICs	(But readily available methodology)			
Acetonitrile	VOC				
Acetyl Cyanide					
Acetyl Fluoride		IC/ICP SCAN			
Acetyl Thiocyanate					
Acrolein	VOC				
Adamsite			CWM		
Alcohol	VOC				
Allyl Alcohol	VOC				
Allyl Isocyanide		IC/ICP SCAN			
Allyl Isothiocyanate		IC/ICP SCAN			
Allylamine					
Aluminium	METAL				
Aluminium –CC14-NaC103					
Aluminium Selenide		IC/ICP SCAN			
Ammonia	E-350				
Ammonia Gas		IC/ICP SCAN			
Ammonium Chloride		IC/ICP SCAN			
Ammonium Cyanide		IC/ICP SCAN			
Ammonium Nitrate		IC/ICP SCAN			
Ammonium Picrate		IC/ICP SCAN			
Arsenic Trichloride		IC/ICP SCAN			
Arsenic Trifluoride		IC/ICP SCAN			
Arsenic Trioxide		AOAC 920			
Arsine		D 4490			
Barium Peroxide		IC/ICP SCAN			
Benzotrichloride	SVOC TIC	8121			
Benzyl Bromide	VOC				
Benzyl Chloride	VOC				
Benzyl Fluoride	SVOC TIC				
Benzyl Iodide	VOC				
Black Powder					
Bromine	SM-4500BR				
Bromoacetone	VOC				
Bromoketone		IC/ICP SCAN			
Bromoacetone, Chloroacetone	VOC TIC				
Bromoacetyl Bromide		IC/ICP SCAN			
Bromobenzene	VOC				
Bromobenzyl Cyanide		IC/ICP SCAN			
Bromomethyl Ether	VOC TIC				
Bromoxylyl Cyanide		IC/ICP SCAN			
Butyl Mercaptan	SVOC TIC	D 4490			
Cacodyl		IC/ICP SCAN			
Cacodyl Bromide		IC/ICP SCAN			
Cacodyl Chloride		IC/ICP SCAN			
Cacodyl Cyanide		IC/ICP SCAN			
Cadmium Methyl		IC/ICP SCAN			
Calcium Carbonate		7020			
Calcium Sulfate		IC/ICP SCAN			
Carbon Bisulphide	VOC				
Carbon Disulfide	VOC				
Carbon Monoxide		D 3416			
Carbon Tetrachloride	VOC				
Carborundum					
Celluloid					
Chlorinated Acetone, Turpentine	VOC TIC				
Chlorinated Carbon Disulfide	VOC TIC				
Chlorine		IC/ICP SCAN			
Chloroacetic Anhydride					

SPRING VALLEY
AUES CHEMICALS

COMPOUND	ROUTINE	NON-ROUTINE	SPECIALTY LAB	NON-SPECIFIC	RESEARCH PROJ
	(TCL or TAL) + TICs	(But readily available methodology)			
Chloroacetonitrile	VOC TIC				
Chloroacetyl Fluoride					
Chlorobenzene	VOC				
Chlorobenzol					
Chlorodiethyl Sulfide					
Chloroform	VOC				
Chloroformate					
Chloromethyl Chloroformate					
Chloromethyl Ether	VOC				
Chloromethyl Ethyl Ether	VOC				
Chloropicrin	SVOC-MODIF.				
Chloroacetone	VOC TIC				
Chromyl Chloride					
Crotonaldehyde	VOC TIC	D 3695			
Cyanogen		D 4490			
Cyanogen Bromide		IC/ICP SCAN			
Cyanogen Chloride		IC/ICP SCAN			
Diazomethane					
Dichloroethyl Disulfide					
Dichloromethyl Ether	VOC				
Dichloromethyl Sulfide		IC/ICP SCAN			
Dichloropropyl Sulfide		IC/ICP SCAN			
Diiodoacetylene					
Dimethylarsine		IC/ICP SCAN			
Diphenylchloroarsine	SVOC				
Ethyl Bromoacetate	VOC TIC				
Ethyl Chloroformate	VOC TIC				
Ethyl Dibromoacetate	VOC TIC				
Ethyl Iodoacetate					
Ethyl Isocyanide					
Ethyl Isothiocyanate					
Ethyl Mercaptan	SVOC				
Ethyl Sulfide		GC FPD			
Ethyl Trichloroacetate					
Ethyldichloroarsine					
Flash mixture					
Halo Wax					
Hexachloroethane	SVOC				
Hydrochloric Acid		IC/ICP SCAN			
Hydrocyanic Acid		IC/ICP SCAN			
Hydrofluoric Acid		IC/ICP SCAN			
Hydrogen Selenide		IC/ICP SCAN			
Iron	METAL				
Isoallylamine					
Kendallite					
Kieselguhr					
Lead Ferrocyanide		IC/ICP SCAN			
Lead Peroxide		IC/ICP SCAN			
Lead Thiocyanate		IC/ICP SCAN			
Magnesium	METAL				
Magnesium Arsenide		IC/ICP SCAN			
Magnesium Carbonate		IC/ICP SCAN			
Magnesium Oxide and Limestone		IC/ICP SCAN			
Methyl					
Methyl Bromoacetate	VOC TIC				
Methyl Chloroacetate	VOC TIC				
Methyl Chloroarsine		IC/ICP SCAN			
Methyl Chloroformate	VOC TIC				
Methyl Chlorosulfonate	VOC TIC				
Methyl Isocyanide		IC/ICP SCAN			

SPRING VALLEY
AUES CHEMICALS

COMPOUND	ROUTINE (TCL or TAL) + TICs	NON-ROUTINE (But readily available methodology)	SPECIALTY LAB	NON-SPECIFIC	RESEARCH PROJ
Methyl Selenide		IC/ICP SCAN			
Methyl Sulfate					
Methyldichloroarsine					
Methylnitrosourethan					
Mustard (crude, pure, distilled, gas forms)			CWM		
Nickel Carbonyl		IC/ICP SCAN			
o-Chloronitrobenzene	SVOC TIC				
Oil Smoke					
Oleic Acid					
o-Tolyl Isocyanide	SVOC				
Oxalyl Chloride		IC/ICP SCAN			
Paraffin					
Parazol					
Perchloromethylmercaptan	SVOC TIC				
Phenyl Isocyanate	SVOC				
Phenyl Isocyanide	SVOC				
Phenyl Isothiocyanate	SVOC				
Phenylcarbylamine Chloride		IC/ICP SCAN			
Phenyldichloroarsine	SVOC				
Phenylhydrazine	SVOC				
Phosgene		IC/ICP SCAN			
Phosphorus	E-365.2				
Phosphorus, Red	SVOC TIC				
Phosphorus, White	SVOC TIC				
Potassium Chlorate		IC/ICP SCAN			
Potassium Chlorate and Aluminum		IC/ICP SCAN			
Potassium Nitrate		IC/ICP SCAN			
Potassium Perchlorate		IC/ICP SCAN			
Potassium Permanganate		IC/ICP SCAN			
Ricin					
Rosin, Turpentine					
Silicon		IC/ICP SCAN			
Silicon Tetrachloride		IC/ICP SCAN			
Sodium	METAL				
Sodium (metallic)	METAL				
Sodium Bicarbonate		IC/ICP SCAN			
Sodium Chlorate		IC/ICP SCAN			
Sodium Cyanide		IC/ICP SCAN			
Sodium Hydroxide		IC/ICP SCAN			
Sodium Nitrate		IC/ICP SCAN			
Sodium Oleate		IC/ICP SCAN			
Sodium Silicate		IC/ICP SCAN			
Sodium Stearate		IC/ICP SCAN			
Stannic Chloride (Tin Tetrachloride)		IC/ICP SCAN			
Stannic Chloride, Anhydrous		IC/ICP SCAN			
Stearic Acid					
Sulfur	GPL's SOP				
Sulfur Chloride		IC/ICP SCAN			
Sulfur Trioxide		IC/ICP SCAN			
Sulfuryl Chloride		IC/ICP SCAN			
Superpalite					
Tetrachloromethyl Sulfide		IC/ICP SCAN			
Thermite					
Thermite Igniter					
Thiophene	SVOC TIC				
Thiophosgene		IC/ICP SCAN			
Titanium Tetrachloride:					
Cyanogen Chloride		IC/ICP SCAN			
Tolyl Isocyanides		IC/ICP SCAN			

SPRING VALLEY
AUES CHEMICALS

COMPOUND	ROUTINE	NON-ROUTINE	SPECIALTY LAB	NON-SPECIFIC	RESEARCH PROJ
	(TCL or TAL) + TICs	(But readily available methodology)			
Trichloroacetonitrile	VOC TIC				
Trichloroacetyl Chloride		IC/ICP SCAN			
Trichloroacetyl Cyanide		IC/ICP SCAN			
Trichlorohydrin		IC/ICP SCAN			
Trichloromethyl Chloroformate		IC/ICP SCAN			
Trinitrotoluene	8330				
Turpentine					
Waste					
Xylyl Bromide	VOC TIC				
Zinc	METAL				
Zinc Chloride mixture		IC/ICP SCAN			
Zinc Oxide		IC/ICP SCAN			
Zinc Powder		IC/ICP SCAN			
Totals	62	82	2	12	32

IC/ICP SCAN — This process uses ion chromatography or induction coupled plasma to scan for prominent atoms in the compound. For example, for bromobenzyl cyanide, the sample would be scanned for bromine and cyanide. If both were present, then this compound could be "tentatively" identified. The idea is similar to the TICs.

ROUTINE — Standard services from most labs. Either the compound category, whether it can be identified as a TIC, or a separate method no., is shown.

NON-ROUTINE — These are either the scan as described above, or a method not typically used but which has an established method. These are non-routine, but do not present difficulties for most labs to provide. In some cases, where the routine analyses only identify TICs, the non-routine method is shown if an additional level beyond the TIC is needed.

RESEARCH PROJECT — If none of the labs suggested a way to identify these items, they were categorized as research projects. Some of these may not be familiar because of outdated names, synonyms, or "brand" names.

Henry, Theodore J NAB02 Contractor

From: Hughes, Edward T NAB02
Sent: Monday, May 19, 2003 9:00 AM
To: Henry, Theodore J NAB02 Contractor
Subject: FW: Sampling at CDC

-----Original Message-----
From: Plaisted, Brian D MAJ NAB02
Sent: Wednesday, January 31, 2001 9:00 AM
To: 'Albright, Rich'; 'Harbold, Harry'; 'Shuster, Ken'
Subject: Sampling at CDC

To all,

Attached is the sampling plan for the additional sampling that we agreed to at the meeting on Thursday for your review. This covers only the CDC. A second plan will be coming out to address the other AU lots. We will be ready to sample a couple days after AU give us the go ahead. On Thursday we start on the private residences in OU-4 so that will likely have some impact on the scheduling. If you have questions give me a call.

Brian Plaisted



final-WP CDC.pdf

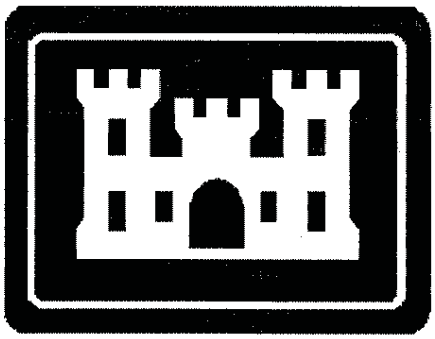
FINAL

WORK MANAGEMENT PLAN – AMENDMENT 1
AU LOT 12 / CHILD DEVELOPMENT CENTER
GRID SAMPLING

REMEDIAL INVESTIGATION / FEASIBILITY STUDY
SPRING VALLEY OPERABLE UNIT 4
WASHINGTON, D.C.

Prepared For:

U.S. ARMY CORPS OF ENGINEERS,
BALTIMORE DISTRICT



Prepared By:

PARSONS ENGINEERING SCIENCE, INC.
10521 ROSEHAVEN STREET
FAIRFAX, VIRGINIA 22030

JANUARY 30, 2001

Hughes, Edward T NAB02

From: Plaisted, Brian D MAJ NAB02
Sent: Thursday, February 22, 2001 3:42 PM
To: 'Albright, Richard'; 'Thomas Bachovchin'; 'bjbesq@american.edu'; Whisenant, Bruce K HNC; 'HARBOLD.HARRY@epamail.epa.gov'; Durham, Jon HNC; Reeser, Leland H NAB02; Rogers, Michael J NAB02; Peloquin, Michael CPT NAB02; Hill, Robert F NAB02; Anderson-Hudgins, Sherri HNC; 'Slonecker.T@epa.gov'; 'jorge@american.edu'; 'shuster.kenneth@epa.gov'; 'Hope, Gregory (DC Health)'; 'Bishop, Ed'; Walters, Wilson C HNC
Subject: Next Partnering Meeting



AGENDA 27
Feb 01.doc

To all,

Although Richard Albright will be vacationing at Mardi Gras next week :-), there was a consensus that the Spring Valley team needed to meet as scheduled on 27 Feb. Greg Hope (Rich's partner) will be there to represent DC Health. I have attached the agenda. I have also included below some ideas that Harry Harbold from EPA had about expanding and expediting sampling. We will discuss these as part of our review and discussion of the sampling options. If you have additions for the agenda or questions about it let me know. I can be reached at 410-962-6784 or 202-686-03359.

Greg, I will send you a separate e-mail with directions to the EPA Science Building at Ft. Meade. The meeting will start at 1000 and we should be finished around 4:00 P.M.

Brian Plaisted

Harry Habold's ideas for expanding/expediting sampling:

-Increase number of sampling teams and use existing composite sampling protocol at several high priority POI geographic areas

-Increase sampling at special interest areas(young children, known health problems,real estate transfer

-Increase number of sampling teams and focus more on grab sampling

-Use geostatistical sampling method to grid out entire 660 acre parcel and sample randomly assigned grid sectors concurrent with sampling at high priority POIs

-Use of EPA laboratory support to accelerate sampling

Spring Valley Meeting Agenda
February 27, 2001

EPA Science Center at Ft. Meade, Maryland
Ruckelhaus Room

Introductions/Review Agenda	**10:00-10:15**
Update on **OU-3 (arsenic removal, test pits, risk assessment for 4835, restoration)** **OU-4 (sample status and results)** **SDA (confirmation results and stream sediment removal)** **Geophysical surveys at 4835 Glenbrook & 4710 Woodway** **Anomaly Review Board for 5 Sedgwick area properties** **-Major Plaisted and others**	**10:15-11:00**
Review and discussion of sampling options **This will include a review of EPA input** **-Spring Valley team**	**11:00-1:00**
Break-lunch sandwiches delivered	**12:15-12:30**
Geophysical survey in OU-4 area **-Spring Valley team**	**1:00-1:45**
Review of 52nd Court Trench data **-Terry Slonecker & SV team**	**1:45- 2:45**
Break	**2:45-3:00**
Other issues of concern	**3:00-3:30**
Action Items/Timelines	**3:30-3:45**

FINAL

SPRING VALLEY
Partnering Meeting
Fort Meade, EPA Science Building

MEETING MINUTES

PURPOSE OF MEETING:	Partnering Meeting
LOCATION:	Fort Meade, EPA Science Building
DATE:	February 27, 2001
TIME:	10:00 a.m. – 4:30 p.m.

Action items are *underlined and italicized*.

OU3 Non-Time Critical Removal Action, Risk Assessment, Test Pits

Major Plaisted summarized the status of this work.

4825 Glenbrook: Front yard done. Waiting for confirmation sample results. The Right of Entry expires February 28, 2001.

Test Pit Investigation at 4825 Glenbrook is tentatively set to start the week of 3/19/01.

The property owner will do the restoration of 4825 Glenbrook with funding from CENAB. The restoration of 4801 will be done by CENAB. The landscape architect for the Korean residents is completing the design.

The draft Risk Assessment (RA) for 4835 Glenbrook was distributed. Within EPA's acceptable risk range of 10^{-4} to 10^{-6}. The RA concludes that hot spot removal will not need to be done. American University (AU) wanted to know more about this process. Major Plaisted explained how the removal levels have previously been determined. *The draft-final report will be submitted to DC Health, American University, and EPA by March 9, 2001*. Once draft-final RA is delivered, will wait on feedback from EPA and AU on how to proceed. *Comments are due back to Parsons by March 16, 2001.*

There was a brief discussion of phytoremediation (planting a special type of fern that 'absorbs' high levels of arsenic).

Terry Slonecker (EPIC): Review of 52nd Court and POI 16 Areas

This presentation focused on the 52nd Court and POI 16 Areas and concluded that there were many more ground scars or disturbed earth areas than previously indicated. Should these be considered new POIs? Mr. Slonecker indicated there were no obvious ones. *CENAB will review the issue further.* Mr. Slonecker thought he could differentiate between stressed vegetation and ground scars. *Parsons will assist Mr. Slonecker's deliverable by providing information from the 2000 aerial photography.*

Major Plaisted suggested EPA, DC Health, and CENAB should take a look at the latest EPIC information to see if there is a need for additional geophysical surveys in the areas identified by Mr. Slonecker along Massachusetts Avenue. It was suggested that geophysics be done where there are ground scars, but no POIs (since these have been tested).

Mr. Harbold (EPA) presented the list of things residents have asked for. CENAB questioned whether this was a formal list from all residents or one person's idea of what is needed.

Mr. Harbold suggested that the residents be informed of the new ground scar information presented by Mr. Slonecker, but others questioned whether this will cause more problems if done as a half-measure, i.e., the residents could get the wrong idea about the ground scars if they had no other information to put this in context. Mr. Harbold also suggested that when sampling properties, residents should be given maps with info (scars, cut/fill {finalized}) because residents want to know what was put on their property (sprayed, fired, dumped). Mike Rogers (CENAB) pointed out that when a resident requests information, they are directed to the many previous reports (zone reports, lot reports) that generally contain all the old historical information for their area.

Mr. Slonecker volunteered to add the property lines into the ArcView database. Major Plaisted mentioned that with 1200 properties, this was a considerable effort. Mr. Slonecker added that his report was a draft and that these scars might not mean chemical agents impacts. *Mr. Slonecker will produce a report by the end of the month that includes whether these scars could be stressed vegetation.* Mr. Slonecker's overall report will be done by the end of March.

The review of ground scars at POI 16 brought up the issue of how to provide this information to the residents. It was suggested that an historical POI report be compiled by CENAB. Mark Baker, CENAB historian will need to get involved. Major Plaisted and Mr. Harbold agreed that it was necessary to show all information to residents to let them know whether there is a problem or not.

DC Health suggested that maybe they should just get a general idea of historic testing. Major Plaisted mentioned that Zone reports were distributed to every resident, but many people have left, so new people don't know the site history. These reports detailed what POIs are on their property, what was tested (geophysical and environmental sampling). A question was raised on the structure of the report: divide by POI or zone? It was decided that zone boundaries are arbitrary, so should probably do it by POI. *CENAB will review the level of effort (cost) for this type of report.*

DC Health and EPA would like to categorize all ground scars and/or stressed vegetation to determine whether or not any action (e.g., geophysical survey, sampling, intrusive investigation, etc.) has been accomplished at these areas as identified by the photo interpretation. If no action has been taken what should be taken if anything for each area identified? *The EPA will take the lead on the photo interpretation.*

Brian mentioned the next public meeting was March 14, 2001.

Principals need to get together to review 52nd court area and historic documentation (Schedule for early April). Brian said CENAB will need at least 4-5 weeks (also to give time to Mark Baker to do research), and that DC Health, EPA, and one person from Parsons should attend.

The question was asked if a Community Representative needs to attend the Partnering Meetings? It was decided in the future that the Chair or Co-Chair of the RAB might attended the Partnering Meetings.

OU-4 Follow-on Sampling and Sampling Options

Major Plaisted/Parsons reviewed the results of the OU-4 residential follow-on sampling action (not all the results had been received as of the meeting date). Based on arsenic levels, EPA requested three additional borings at the 4900 Quebec property at the 1-2 foot depth (CENAB agreed). 20 foot grid sampling was recommended by Major Plaisted for 4871 Glenbrook Road, based on the quadrant sampling results. In response to a question, Major Plaisted explained the basic procedure following grid sampling for a given property: once the sampling is completed a Risk Assessment will be completed for each property, followed by a Feasibility Study, and then a ROD.

Major Plaisted reviewed the sampling options for addressing the rest of the 661 acre Spring Valley boundary. Plans 1 and 2 were variations on the current sampling work being performed. Plan 3 included quadrant-type sampling of a 200 ft buffer zone around the POIs with documented CWM testing. Plan 4 included quadrant sampling the entire 661 acres (approximately 1600 homes/half-acre lots).

Mr. Harbold said Plan 3 was a good start but felt all 1600 should be addressed. He suggested a lesser level of sampling to cover these areas, involving only two surface samples (front and back yards) and no subsurface samples. Mike Rogers questioned whether EPA will commit to supporting this since CENAB was following EPA guidance with the quadrant approach. Tom Bachovchin questioned whether this approach was defensible or produced enough data to make risk assessment conclusions. It was also questioned whether "sooner" was a better rationale than "more complete" for follow on sampling. DC Health stated they would prefer that all of the 1600 properties be sampled using the standard quadrant method (Plan 4).

The Plan 4 discussion focused on obtaining all of the Rights-Of-Entry (ROEs). Mr. Harbold suggested that an easy way might be to simply have the residents sign up for sampling at the community meeting, but CENAB suggested that only a relatively small percentage of people

might be at these meetings and many will be missed. Mr Stephens suggested that an Area Neighborhood Commission (ANC) get involved to get the word to all residents involved.

AU personnel asked if additional samples will be taken outside the AUES boundary lines. CENAB stated that only if the contamination was indicating a pattern where the contamination might cross the property boundaries. AU personnel expressed an interest in ensuring that the northern parts of the campus be tested so that AU has assurances that the entire campus has been tested.

Major Plaisted will present these options at the upcoming community meeting. *Parsons was tasked with costing the option with the decreased sampling scope (two surface samples, no subsurface samples for 1600 homes/lots).*

Parsons strongly recommended that one lab will be used for all the additional follow-on sampling.

CDC Time Critical Removal Action

Soil samples have been taken with a 4 –6 week turn around time due to the constituents being analyzed. Once the soil results have been received and evaluated by the USACE, DC Health, EPA, and AU, the soil will be excavated (tentatively schedule for the end of May after the students have left for the summer).

SDA

Mike Winningham presented the data on the SDA characterization samples. Based on the arsenic and lead levels, over-excavation was recommended. *Based on a question from EPA, Parsons will review the comparison standards and derive a construction worker standard for lead and mercury.*

AU was asked to provide the timing for placing the large Baker Tank back on the parking area overlooking the SDA for the purposes of containing the stream water per the previous excavation procedures.

Need to obtain the last three ROEs prior to starting the culvert cleaning.

Geophysics

Bob Selfridge, Huntsville COE lead geophysicist joined the meeting by phone and summarized the proposed additional geophysical investigations for Spring Valley. *Mr. Selfridge said the contract action draft statement of work will be finalized by Friday March 2.* The new prove out area had not been selected yet but could be in the area of the AU soccer fields and possibly near the radio tower. Mr. Selfridge said he will be using the EM 31 and 61, the GEM-3, and the man-portable MTADS. The commercial MTADS will be used at the prove out and if certain problems were resolved, it could be used for the investigation. The radio tower will not be

turned off, therefore instruments will need to be tested near the radio tower. The objective is pits/trenches.

Mr. Selfridge explained that the EM 61 can locate a drum at 3 meters, but this depth decreases to ~ 4 feet for a 105 mm or 2.5 feet for a 75 mm item. The EM 31 can see a drum at 6 meters. For smaller, shallower objects, Mr. Selfridge recommended the EM 61. Mr. Selfridge indicated that GPR is ineffective in high clay soils. Mr. Shuster indicated that the USGS could conduct a GPR survey at the prove-out.

CENAB and EPA need to send Bob Selfridge the four AU areas needing to be geophysically surveyed.

ARB is scheduled for March 2, 2001 in Huntsville.

Sedgwick Trench Area

Major Plaisted briefly described the scope of the Sedgwick Trench investigation. It was decided to add the full scan parameters (including the AUES List) to the bottom of the trench samples. It was decided that making the leap over quadrant sampling to grid sampling set a bad precedent for sampling actions, and that quadrant sampling will be done on the Sedgwick properties. *Parsons will have the draft Work Plan for that investigation submitted by March 2, 2001.* Cases of multiple myeloma and aplastic anemia were discussed, but it was not clear exactly which house was reported to have which case.

Ken Shuster of EPA suggested using the Gore Sorber soil gas technology to get a better idea of volatile contamination. Parsons explained that the Encore sampling device was now being used for all volatile sampling and that this was the best method for obtaining good data. *However, Major Plaisted said that CENAB will look into the soil gas suggestion.* Ken suggested that the best way to find the trench bottom was to look at the six feet below the 1918 level depth because the old photos indicate the trench was generally six feet deep.

The meeting concluded at approximately 4:30 pm. The next Partnering meeting will be March 28, 2001, same time and place.

Name	Organization/Address
Tom Bachovchin	Parsons ES
Mike Winningham	Parsons ES
Marianne Cardwell	Parsons ES
Mike Rogers	CENAB
Lan Reeser	CENAB
Brian Plaisted	CENAB
Capt. Peloquin	CENAB
Wilson Walters	USAESCH
Mr. Bob Selfridge (by phone)	USAESCH
Gregory Hope	DCEHA
Mr. Harry Harbold	USEPA
Ken Shuster	USEPA
Terry Slonecker	EPA/EPIC
Jorge Abud	AU
Bethany Bridgham	AU
Patience Nwanna	CENAB
Bill Abadie	CENAB
Mark Stephens	USEPA

From: Peloquin, Michael CPT NAB02
Sent: Tuesday, May 08, 2001 12:40 PM
To: 'Edward Bishop'; 'Michael Winningham'; 'Thomas Bachovchin'
Cc: Reeser, Leland H NAB02
Subject: Support for the next partnering meeting

Ed,
I'm trying to give you a little prep time this month for the meeting.
If you look at the proposed agenda, there are several areas in which I'll need your help. First, in presenting any qualified sampling results we have back in since the March meeting. I'd also like to give an indication of what we are seeing in the preliminary results as well.
Second, I want to raise the issue to the partners that the results we anticipate from the SWRI AUES testing will require a good bit of interpretation prior to releasing them. Please be ready to talk this. I just spoke to Tom and he said we will actually have some of this data to use (as an example).
Third, need help getting to a final POI-specific contaminant list. Tom has some info that I asked him to share at the meeting.
Fourth, need the computer/projector to use in working through the addresses associated with each POI. A handout with the draft list would be a great starting point here as well.
Fifth, as the agenda shows, I'm trying to get (partial?) resolution regarding the soil gas and individual round issues. Your expertise and historical knowledge will be a great help.
Lastly, I'm sure there are some other issues to raise at the end. Tom mentioned at least one on the phone.

Major Michael D. Peloquin
Programs and Project Management Division
US Army Corps of Engineers, Baltimore District
michael.peloquin.cpt@nab02.usace.army.mil
410-962-0157 voice
410-962-9312 fax

Lee email dated June 01, 2001 1:39 PM
from Thomas Bachovchin
to Reeser, Peloquin
Subject – DATA TABLES FOR SPRING VALLEY (DRAFT)

FINAL

SPRING VALLEY

Partnering Meeting
DC Department of Health
51 N St NE, Washington, DC

MEETING MINUTES

PURPOSE OF MEETING: Sampling Strategy Meeting

LOCATION: DC Department of Health

DATE: May 14, 2001

TIME: 10:30 a.m. – 4:00 p.m.

Action items are ***bolded and italicized***.

1. INTRODUCTIONS/REVIEW AGENDA

2. UPDATE:

2.1 OU-5 (Sedgwick Trench sample status and results)

Tom Bachovchin presented the arsenic results for the Sedgwick Trench area. He also addressed the arsenic and pH results for the trench borings. Arsenic was below 13 ppm and pH was 5-7+ su (normal range). In general, the arsenic results were highest in the easterly section of the trenches (5040, 5046, and 5054 of Sedgwick, and Quadrant 1 of 3720 Fordham). The arsenic was below background in the lots in the western section (5059 and 5065 Sedgwick). Grid sampling will be accomplished for all 5040, 5046, and 5054 of Sedgwick, and 3720 Fordham properties in accordance with the grid sampling protocol. Since there were elevated results in these backyards, 3712 and 3706 Fordham will be assigned a high priority for quadrant sampling.

MAJ Peloquin proposed a community meeting for residents within the Sedgwick Trench area within the next month.

2.2 OU-3 (arsenic removal, test pits, risk assessment for 4835, restoration)

No results are yet available for the Horace Mann school quadrant properties.

The 4835 Glenbrook Road risk assessment is under review. Parsons is awaiting comments. ***Comments are due May 29, 2001.***

2.3 OU-4 (sample status and results for AU and private residences)

MAJ Peloquin reported they now have approximately 500 completed rights of entry.

Tom Bachovchin presented the arsenic results for grid samples on properties that had previously had elevated arsenic levels. There were additional elevated levels on properties on the ball field. A risk assessment will be performed combining these properties into a single exposure level commensurate with the use of the area (recreational). Results for the one property between the ball fields and the CDC are pending. Rich Albright raised the issues of skin rashes on teams using the fields. Bethany Bridgham reported these results were anecdotal.

The initial individual risk assessments are being developed, incorporating comments received to date on the 4835 risk assessment.

2.4 SDA (confirmation results and stream sediment removal).

The upper stream has been remediated. The current plan is to replace the railroad ties with new railroad ties. Parsons recommended against using railroad ties due to the creosote treatment. Pressure treated lumber sometimes contains arsenic. Parsons recommended concrete. Rich Albright suggested borax treated landscape timbers. (Update after meeting - The manufacture AWS contacted said wood treated this way should not be used where constantly exposed to water as the chemical used in the treatment process, disodium octaborate tetrahydrate is water soluble. ***Parsons will investigate other pressure treated lumber without toxics. CENAB will discuss the options, including concrete, with the property owners.***

The lower stream has been excavated and is awaiting confirmation sampling results.

2.5 Test Pits

The test pits were started today. Air monitoring indicated 2-3 X TWA for Lewisite. DAAMS have been pulled and are awaiting confirmation. It appears there is an associated 5 gallon drum. Rich Albright requested a copy of the tape. This will be copied from the video system that is a security system and requires special equipment. ***Parsons will make a copy.*** At a later update, Michael Winningham reported they had uncovered additional glassware and some contained liquid. Initial DAAMS tube results were negative for Lewisite.

2.6 Geophysical surveys at 5058 and 5054 Sedgwick

Chris Evans reported there is a large anomaly in the backyard of 5058. Sherri Anderson-Hudgins reported the homeowner is in the process of selling the property and wants the anomaly removed right away. Rich Albright distributed a letter from Mr. Gordon on these properties. Chris Evans reported the two anomalies have been confirmed and no more can be done without intrusive investigation.

Discussion was held on how to address the intrusive investigations from the USACE approval perspective. Previously intrusive investigations were done under operations orders. Since the area is known to have CWM, emergency removals cannot be used. Therefore, it appears it will require an amendment to the Site Safety Submission and associated pre-ops, etc. ***Sherri Anderson-Hudgins will take this as an action item to determine the path forward.***

MAJ Peloquin asked Chris Evans for an evaluation of the geophysics prioritization status. Chris Evans reported he has identified 40 priority one properties within the CTA.

Since an amendment to the Site Safety Submission will be required for any intrusive investigation, it was decided additional geophysics of the area could be accomplished concurrently. The geophysics will commence after the geophysics work plan is approved. The intrusive investigations will be accomplished at 5058 and 5054 Sedgwick first.

Regarding the geophysics of 5058 and 5054, the previously collected data will be evaluated using the newer version of Geosoft. ***Sherri Anderson-Hudgins will work with Scott Millhouse (USAESCH) to re-evaluate this data.***

MAJ Peloquin asked Rich Albright the DC Health response to this approach in light of the letter from Mr. Gordon. Rich Albright responded he felt it would be satisfactory so long as the residents are continually informed.

3. AIR MONITORING – 4825 GLENBROOK AND/OR 5065 SEDGWICK

CENAB made a request to do air monitoring in the basement of 4825 Glenbrook. The owners are requesting a detailed air monitoring plan outlining the objectives of the study. The homeowner at 5065 Sedgwick also requested indoor air monitoring. This is the residence where there was a reported case of multiple myeloma. Rich Albright wants to ensure the monitoring includes arsine.

Ken Shuster discussed his conversations with EPA emergency response team. This evidently is a real-time instrument that has not been tested for the contaminants of concern. The individual Ken Shuster talked to also stated the Gore Sorbers ? are not calibrated for the chemicals of concern. After discussion, it was decided to sample for arsine and mustard agent. These are contaminants that are unlikely to be present from any source other than chemical agents. ***Ken Shuster will follow up with the EPA contact regarding the applicability and availability of this instrument. Someone needs to take the lead with ECBC, CHPPM or others – Parsons or CENAB?***

Rich Albright requested air monitoring at 5054 Sedgwick because of the high arsenic and the anomaly. ***MAJ Peloquin will discuss this with the homeowner.***

4. SAMPLING PLAN ISSUES

4.1 Composite sampling

The issue of the number of composite samples per property for those properties outside of the CTA. Lan Reeser explained to obtain the same confidence level of 6 composite samples in each of 4 quadrants requires 8 composite samples in each of the two halves. This is based upon a low coefficient of variability for the background arsenic. Using 8 composite samples, the screening level for grid sampling should be lowered. ***Parsons will investigate the proper screening level.***

4.2 Final POI-specific contaminant lists

Tom Bachovchin briefed the attached list. Sampling will be performed from the 1918 level to one foot below for those properties with fill. For properties at the 1918 level or with cut, samples will taken from the surface to one foot below. There was no objection to the recommendation that Adamsite analysis be eliminated in favor of using arsenic as an indicator compound. Similarly, hydrocyanic acid and cyanogen chloride will be eliminated from the list in favor of using cyanide as an indicator analyte.

CENAB reviewed the "new" Mark Baker list of compounds filled into shells and determined there were no new compounds to add. Ray Livermore discussed their rationale. This included:

Xylyl Bromide—used as a gas, volatile, not expected to be present.

Oleum—fuming sulfuric acid, soluble in water and not expected to be present at this point.

Magnesium Arsenide—found as magnesium or arsenic. Magnesium is common metal and not a health hazard and arsenic will be analyzed.

Red Lead—Lead tetroxide, would be found as lead. Excluding the Small Disposal Area, only one sample contained lead greater than 400 ppm.

Aluminum Powder—found as aluminum. Abundant and not a health hazard. No samples except Small Disposal Area have been greater than the EPA RBC.

Magnesium Powder-- found as magnesium. Abundant and not a health hazard.

Benzoic Acid—becomes gaseous at 100 degrees F. Anaerobically degrades to CO2 and methane.

Methyl Alcohol—volatile and highly soluble in water. Not expected to be present at this time.

4.3 Soil sample depth

Soil sampling will be performed at the 6" level per USEPA guidance. This predicts the risk to residents from airborne dust or soil tracked into a residence. Harry Harbold recommended taking the boring in a garden area if requested by the resident if there is no ground scar.

4.4 Contaminants outside the CTA

Approximately 15% of the properties outside of the CTA will be subjected to additional boring sampling similar to the POIs within the CTA. These will be developed following receipt and review of EPIC's analysis of additional ground scars.

5. REVIEW LIST OF ADDRESSES IN EACH CTA POI

Discussion centered on what properties are within POIs in the CTA. Parsons presented the properties that had any portion of the lot within the POI. Everyone agreed these are the only properties that initially require sampling. If contamination is found at any POI, the POI bounds may be expanded.

6. SOIL GAS

Rich Albright distributed a paper discussing the formation of arsine from soil bacteriological activity. Ed Bishop recommended capturing a sample using an inverted vessel and sample for arsine. ***Someone needs to take the lead-DCEHA, Parsons or CENAB?***

7. NEXT PARTNERING MEETING

The next meeting will be held the second week of July 10, 2001, at the Spring Valley resident office.

SPRING VALLEY OU-5
POI SPECIFIC SAMPLING PLANS - CTA

Sampling Plan 1 (POI 19)

- ? Arsenic
- ? Mustard
- ? Mustard ABP (oxathiane, dithiane, thiodiglycol)

Sampling Plan 2 (POIs 15R and 16R)

- ? Arsenic
- ? Mustard
- ? Mustard ABP (oxathiane, dithiane, thiodiglycol)
- ? Lewisite ABP (CVAA/CVAO)
- ? Adamsite **(use arsenic as indicator)**
- ? Hydrocyanic acid **(use cyanide as indicator)**
- ? Cyanogen chloride **(use cyanide as indicator)**
- ? Cyanide
- ? Carbon Disulfide

Sampling Plan 3 (POIs 7, 13, 39)

- ? Arsenic
- ? Mustard
- ? Mustard ABP (oxathiane, dithiane, thiodiglycol)
- ? Lewisite ABP (CVAA/CVAO)
- ? Adamsite **(use arsenic as indicator)**
- ? Hydrocyanic acid **(use cyanide as indicator)**
- ? Cyanogen chloride **(use cyanide as indicator)**
- ? Cyanide
- ? Carbon Disulfide
- ? Tetryl
- ? Trinitrotoluene (TNT)
- ? Nitroglycerin
- ? 2,4 dinitrotoluene (2,4-DNT)
- ? 2,6 dinitrotoluene (2,6-DNT)
- ? **Nitrobenzene (part of original explosive suite)**

SPRING VALLEY OU-5
POI SPECIFIC SAMPLING PLANS - CTA

Sampling Plan 4 (POI 38)

- ? Arsenic
- ? Adamsite **(use arsenic as indicator)**
- ? Tetryl
- ? Trinitrotoluene (TNT)
- ? Nitroglycerin
- ? 2,4 dinitrotoluene (2,4-DNT)
- ? 2,6 dinitrotoluene (2,6-DNT)
- ? **Nitrobenzene (part of original explosive suite)**

CTA POIs	Sample Plan	Notes
16 R	Plan 2	Borings will be placed at the center of each patch. This POI area will be extended per the revised EPIC review. Now named POI 16R.
19	Plan 1	
15 R	Plan 2	This POI area will be extended per the revised EPIC review. Now named POI 15R.
7 R (?)	Plan 3	
13	Plan 3	
39	Plan 3	
38	Plan 4	Arsenic as an indicator of Adamsite
17	?	Potential dump area at end of ravine (truck turnaround), outside of the CTA. 2 composite arsenic samples per lot. Possible Geophysical investigation?

Name	Organization/Address
Sherri Anderson-Hudgins	USAESCH-OE-DC
Tom Bachovchin	Parsons ES
Ed Bishop	Parsons ES
Michael Winningham	Parsons ES
Marianne Cardwell	Parsons ES
Ray Livermore	CENAB
Lan Reeser	CENAB
MAJ Mike Peloquin	CENAB
Richard Albright	DCEHA
Chris Evans	CENAB-EH-GG
Mark Baker	CENAB
Mr. Harry Harbold	USEPA
Ken Shuster	USEPA
Jorge Abud	American University
Bethany Bridgham	American University
Mark Stephens	USEPA
Susan Platt	CENAB

Reeser, Leland H NAB02
From: Thomas Bachovchin [Thomas.Bachovchin@parsons.com]
Sent: Friday, June 01, 2001 1:39 PM
To: Reeser, Leland H; Peloquin, Michael CPT
Cc: David Badio
Subject: 'DRAFT' DATA TABLES FOR SPRING VALLEY

Mike,

Here are the versions handed out at the meeting. One is the residence AUES List sampling and the other is the lot 12/CDC. These are preliminary and more subject to change than preliminary arsenic data. For example we are still working out the wet/dry weight TDG issue.

Schedule—we have been having some problems with the lab. We just spoke to them and I think we can get the lot 12/CDC finalized by COB Monday. The others are actually farther along but we've prioritized the CDC.

I can only keep screaming at the lab to get us their stuff—again, it is promised to us by COB today, then David Badio needs to review the final submittal and then send out with the target COB Monday. As an aside, even allowing for the non-routine nature of the analyses, we're not real satisfied with what we're getting from this lab and we will not be using them on the upcoming OU-5 stuff, for what it's worth.

Sorry for these delays, but David has been working non stop on trying to get every issue hammered out.

Thanks.



SVSRI1.XLS

_____ Forward Header

Subject: 'DRAFT' DATA TABLES FOR SPRING VALLEY
Author: David Badio at NetTalk
Date: 6/1/2001 10:36 AM

TABLE 2
SUMMARY OF UNVALIDATED ANALYTICAL RESULTS

SAMPLE ID:		OU4-3819-1	OU4-3819-2	OU4-3819-3	OU4-3819-4	OU4-4710QS-1	OU4-4710QS-3	OU4-4710QS-4	OU4-4625-3A	OU4-4625-3B
SAMPLE TYPE:		NX	NX	NX	NX	NX	NX	NX	NX	NX
LAB SAMPLE ID:		157020	157021	157022	157023	157024	157025	157026	157203	157204
ORDER NO.:		1	1	1	1	1	1	1	1	1
SAMPLING DATE:		2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/13/2001	2/13/2001
Volatile Organic Compounds - SW8260B										
DICHLORODIFLUOROMETHANE	UG/KG	67 J	67 J	160 J	1 U	1 U	130 J	99 J	0.97 U	1.5 U
CHLOROMETHANE	UG/KG	1 J	1 J	1 J	2	2	2	1	0.97 U	3
VINYL CHLORIDE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
BROMOMETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
CHLOROETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
ACETONE	UG/KG	27 J	27 J	28 J	27	56 J	39 J	57 J	47 UB	120 J
TRICHLOROFLUOROMETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	9	1.5 U
ACETONITRILE	UG/KG	5.3 U	5.4 U	5.6 U	5 U	5 U	4.8 U	5.2 U	4.8 U	7.4 U
1,1-DICHLOROETHENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
METHYLENE CHLORIDE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	24	1.5 U
CARBON DISULFIDE	UG/KG	11	11	38 J	11	11	8	26	170 J	8
TRANS-1,2-DICHLOROETHENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
1,1-DICHLOROETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
METHYL TERT-BUTYL ETHER	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
2-BUTANONE	UG/KG	4	4	4	3	8	6	6	16	22
CIS-1,2-DICHLOROETHENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
CHLOROPICRIN	UG/KG	27 U	27 U	28 U	25 U	25 U	24 U	26 U	24 U	37 U
CHLOROFORM	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
1,2-DICHLOROETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
1,1,1-TRICHLOROETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
METHYL ACETATE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	3	0.97 U	2	15	20
BENZENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	4	1.5 U
CARBON TETRACHLORIDE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
CYCLOHEXANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
1,2-DICHLOROPROPANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
BROMODICHLOROMETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
TRICHLOROETHENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
4-METHYL-2-PENTANONE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
CIS-1,3-DICHLOROPROPENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
1,1,2-TRICHLOROETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
METHYLCYCLOHEXANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
TOLUENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	3	1.5 U
2-HEXANONE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	1	1.5 U
DIBROMOCHLOROMETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
1,2-DIBROMOETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
TETRACHLOROETHENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
CHLOROBENZENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
ETHYLBENZENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
M&P-XYLENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
BROMOFORM	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 UJ	1.5 UJ
STYRENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
1,1,2,2,-TETRACHLOROETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
O-XYLENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
BENZYL BROMIDE	UG/KG	5.3 U	5.4 U	5.6 U	5 U	5 U	4.8 U	5.2 U	4.8 U	7.4 U
ISOPROPYLBENZENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 UJ	1.5 UJ
BENZYL CHLORIDE	UG/KG	5 U	5.4 U	5.6 U	5 U	5 U	4.8 U	5.2 U	4.8 UJ	7.4 UJ
ACROLEIN	UG/KG	5.3 U	5.4 U	5.6 U	5 U	5 U	4.8 U	5.2 U	4.8 U	16
1,3-DICHLOROBENZENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 UJ	1.5 UJ
1,4-DICHLOROBENZENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 UJ	1.5 UJ
1,2-DICHLOROBENZENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 UJ	1.5 UJ
1,2-DIBROMO-3-CHLOROPROPANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 UJ	1.5 UJ
1,2,4-TRICHLOROBENZENE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/KG	1.1 U	1.1 U	1.1 U	1 U	1 U	0.97 U	1 U	0.97 U	1.5 U
VOC Tentatively Identified Compounds										
1-HEXENE, 4-METHYL	UG/KG								10 NJ	
1-OCTANOL, 2,7-DIMETHYL-	UG/KG									10 NJ
2,4-HEXANEDIONE	UG/KG							3 NJ		
2-BUTANONE, 3-METHYL-	UG/KG			6 NJ	2 NJ	10 NJ	10 NJ	6 NJ		40 NJ
2-BUTENE, (Z)-	UG/KG									
2-HEPTANONE, 6-METHYL-	UG/KG									
2-HEXENE, (Z)-	UG/KG								10 J	
2-OCTENE, (E)	UG/KG						10 J			
2-OCTENE, (E)-	UG/KG	50 J	30 J	60 J	20 J	20 J		10 J	50 J	
ACETALDEHYDE	UG/KG	10 NJ	5 NJ	6 NJ	4 NJ	20 NJ	10 NJ	7 NJ	10 NJ	30 NJ
BENZALDEHYDE	UG/KG								10 NJ	
BENZENE, (1-METHYLETHENYL)-	UG/KG									
BENZENE, 1-METHYL-3-(1-METHYL	UG/KG									
BICYCLO 2.2.1 HEPTANE, 7, 7,-D	UG/KG		6 J							
BICYCLO 2.2.1 HEPTANE, 7,7-D	UG/KG									
BICYCLO 3.1.1 HEPT-2-ENE, 2,	UG/KG		10 J							
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL	UG/KG									
BUTANAL	UG/KG									9 NJ
BUTANE	UG/KG									
CARBON OXIDE SULFIDE(COS)	UG/KG	8 NJ		6 NJ		10 NJ	8 NJ			
CYCLOHEXENE, 1-METHYL-4-(1-METHYLTHENYL)-,®	UG/KG									
CYCLOPROPANE, 1,2-DIMETHYL-, TRANS	UG/KG								10 J	
CYCLOTETRASILOXANE, OCTAMETH	UG/KG		10 NJ		4 NJ	10 NJ	10 NJ	3 NJ		
DODECANAL	UG/KG									
ETHANETHIOL	UG/KG									
ETHANONE, 1-(3-ETHYLOXIRANYL	UG/KG								20 NJ	
HEPTANE, 3-METHYLENE-	UG/KG	10 NJ	6 NJ		6 NJ					
HEPTANTE, 3-METHYLENE-	UG/KG			10 NJ						
HEXANAL	UG/KG	40 NJ	10 NJ	10 NJ	10 NJ	100 NJ	40 NJ	60 NJ	30 NJ	100 NJ
HEXANAL, 2-ETHYL-	UG/KG			5 NJ						
HEXANAL, 5-METHYL-	UG/KG	7 NJ			3 NJ	10 NJ	6 NJ	3 NJ		10 NJ
HEXANE	UG/KG									
NONANAL	UG/KG					10 NJ				10 NJ
OCTANAL	UG/KG	8 NJ			4 NJ	20 NJ	6 NJ	4 NJ		20 NJ
OCTANE	UG/KG	20 NJ	9 NJ	20 NJ	8 NJ					
PENTANAL	UG/KG	10 NJ	4 NJ	4 NJ	3 NJ	30 NJ	10 NJ	9 NJ		20 NJ
PENTANE	UG/KG									20 NJ
PROPANAL, 2-METHYL-	UG/KG									
PROPANE, 1,1-OXYBIS-	UG/KG								10 NJ	
Semivolatile Organic Compounds - SW8270C										
PHENYL ISOCYANATE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
PHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2-CHLOROPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
1,3-DICHLOROBENZENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
1,4-DICHLOROBENZENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U

TABLE 2
SUMMARY OF UNVALIDATED ANALYTICAL RESULTS

SAMPLE ID:		OU4-3819-1	OU4-3819-2	OU4-3819-3	OU4-3819-4	OU4-4710QS-1	OU4-4710QS-3	OU4-4710QS-4	OU4-4625-3A	OU4-4625-3B
SAMPLE TYPE:		NX	NX	NX	NX	NX	NX	NX	NX	NX
LAB SAMPLE ID:		157020	157021	157022	157023	157024	157025	157026	157203	157204
ORDER NO.:		1	1	1	1	1	1	1	1	1
SAMPLING DATE:		2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/13/2001	2/13/2001
1,2-DICHLOROBENZENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
BENZYL ALCOHOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2-METHYLPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
HEXACHLOROETHANE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
4-METHYLPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
NITROBENZENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
ISOPHORONE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2-NITROPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2,4-DIMETHYLPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
BIS(2-CHLOROETHOXY)METHANE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2,4-DICHLOROPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
1,2,4-TRICHLOROBENZENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
NAPHTHALENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	12 J	24 J
BENZOIC ACID	UG/KG	240 U	230 U	250 U	240 U	20 J	25 J	22 J	36 J	61 J
4-CHLOROANILINE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
PHENYL ISOTHIOCYANATE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
HEXACHLOROBUTADIENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
O-CHLORONITROBENZENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
4-CHLORO-3-METHYLPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2-METHYLNAPHTHALENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	18 J
HEXACHLOROCYCLOPENTADIENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2,4,6-TRICHLOROPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2,4,5-TRICHLOROPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2-CHLORONAPHTHALENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2-NITROANILINE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
ACENAPHTHYLENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	18 J	91 J
2,6-DINITROTOLUENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
ACENAPHTHENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
3-NITROANILINE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2,4-DINITROPHENOL	UG/KG	240 U	230 U	250 U	240 U	240 U	240 U	250 U	230 U	280 U
DIBENZOFURAN	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
2,4-DINITROTOLUENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
4-NITROPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
FLUORENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	20 J
4-CHLOROPHENYL-PHENYLETHER	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
DIETHYLPHTHALATE	UG/KG	82 U	78 U	250 UB	81 U	18 J	21 J	14 J	42 UB	93 U
4-NITROANILINE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
N-NITROSODIPHENYLAMINE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
4-BROMOPHENYL-PHENYLETHER	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
HEXACHLOROBENZENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
PENTACHLOROPHENOL	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
PHENANTHRENE	UG/KG	82 U	78 U	83 U	81 U	81 U	18 J	84 U	170	230
ANTHRACENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	19 J	34 J
CARBAZOLE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	15 J	23 J
DI-N-BUTYLPHTHALATE	UG/KG	25 UB	23 UB	26 UB	29 UB	33 UB	24 UB	32 UB	28 UB	29 UB
FLUORANTHENE	UG/KG	82 U	78 U	83 U	81 U	12 J	67 J	17 J	440	700
PYRENE	UG/KG	82 U	78 U	83 U	81 U	11 J	56 J	14 J	440	1100
BUTYLBENZYLPHTHALATE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	15 J
PHENYL HYDRAZINE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
3,3-DICHLOROBENZIDINE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
BENZO(A)ANTHRACENE	UG/KG	82 U	78 U	83 U	81 U	81 U	62 J	12 J	250	620
CHRYSENE	UG/KG	82 U	78 U	83 U	81 U	81 U	30 J	84 U	160	360
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	82 U	21 UB	13 UB	81 U	18 J	12 J	14 J	79 UB	110 UB
DI-N-OCTYLPHTHALATE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
BENZO[B]FLUORANTHENE	UG/KG	82 U	78 U	83 U	81 U	81 U	67 J	15 J	350	900
BENZO[K]FLUORANTHENE	UG/KG	82 U	78 U	83 U	81 U	81 U	20 J	84 U	150	350
BENZO[A]PYRENE	UG/KG	82 U	78 U	83 U	81 U	81 U	28 J	84 U	160	440
INDENO[1,2,3-CD]PYRENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	120	320
DIBENZ[A,H]ANTHRACENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	37 J	76 J
BENZO[G,H,I]PERYLENE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	87	230
DIMETHYLPHTHALATE	UG/KG	82 U	78 U	83 U	81 U	81 U	80 U	84 U	76 U	93 U
SVOC Tentatively Identified Compounds										
.ALPHA.-LINDANE	UG/KG						180 NJ			
.GAMMA.-SITOSTEROL	UG/KG							130 NJ		
1-EICOSANOL	UG/KG		190 NJ						200 NJ	
1-OCTADECANOL	UG/KG									
1-PROPENE, 1,2,3-TRICHLORO-	UG/KG								100 UB	
1-PROPENE,1,1,2-TRICHLORO-	UG/KG									
1-PROPENE,1,2,3-TRICHLORO-	UG/KG	130 UB	280 UB							
13-OCTADECENAL	UG/KG					1700 NJ				
14-OCTADECENAL	UG/KG		180 NJ							
5-EICOSENE, (E)-	UG/KG									
7-HEXADECENE, (Z)-	UG/KG									
9,12-OCTADECADIENOIC ACID (Z,Z)-	UG/KG							97 NJ		
9-HEXADECENOIC ACID	UG/KG					440 NJ		140 NJ		
BENZENEETANOL, 4-HYDROXY-	UG/KG									
CARBOXYLIC ACID ESTER	UG/KG									
DOCOSANE	UG/KG									
ETHANOL, 2-(2-ETHOXYETHOXY)-	UG/KG					240 UB	240 UB	220 UB		
HEPADECANE, 9-OCTYL-	UG/KG									
HEPTADECANE	UG/KG									
HEPTADECANE, 9-OCTYL-	UG/KG									
HEXADECANOIC ACID	UG/KG	110 NJ				670 NJ	140 NJ	160 NJ	120 NJ	440 NJ
NONACOSANE	UG/KG						1000 NJ	1000 NJ	870 NJ	
NONADECANE	UG/KG									
OCTACOSANE	UG/KG								500 NJ	
OLEIC ACID	UG/KG	260 NJ				4200 NJ	260 NJ	250 NJ	140 NJ	
PENTADECANE, 8-HEXYL-	UG/KG						590 NJ			
PHENANTHRENE, 2-METHYL-	UG/KG									
PHENANTHRENE,9-METHYL-	UG/KG								230 NJ	
SEPTUM BLEED	UG/KG									
TRICOSANE	UG/KG									
UNKNOWN	UG/KG	150 UB	330 UB			170 J		130 J	210 J	230 J
UNKNOWN ALKANE	UG/KG					510 J	260 J	420 J	180 J	190 J
UNKNOWN HYDROCARBON	UG/KG	220 J				890 J	670 J	290 J	410 J	160 J
UNKNOWN SILOXANE	UG/KG					400 J	280 J	190 J		
ICP Scan Metals - SW6010B										
ALUMINUM	MG/KG	24800	27300	36300	26000	18400	21400	29700	12400	15500

TABLE 2
SUMMARY OF UNVALIDATED ANALYTICAL RESULTS

	SAMPLE ID:		OU4-3819-1	OU4-3819-2	OU4-3819-3	OU4-3819-4	OU4-4710QS-1	OU4-4710QS-3	OU4-4710QS-4	OU4-4625-3A	OU4-4625-3B
	SAMPLE TYPE:		NX	NX	NX	NX	NX	NX	NX	NX	NX
	LAB SAMPLE ID:		157020	157021	157022	157023	157024	157025	157026	157203	157204
	ORDER NO.:		1	1	1	1	1	1	1	1	1
	SAMPLING DATE:		2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/8/2001	2/13/2001	2/13/2001
ANTIMONY		MG/KG	0.96 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.1 UJ	1.3 UJ
ARSENIC		MG/KG	1.5	1.7	1.4	2.2	36.1	14	12	53.9	133
BARIUM		MG/KG	121	156	168	124	69	98	168	73.3	109
BERYLLIUM		MG/KG	1.8	1.9	2.4	2.1	1.2	1.6	1.9	0.68	0.87
CADMIUM		MG/KG	0.48 U	0.56 U	0.57 U	0.55 U	0.56 U	0.56 U	0.54 U	0.57 U	0.65 U
CALCIUM		MG/KG	707	705	1010	737	868	951	1320	1580	2520
CHROMIUM		MG/KG	45.6	53.7	192	80.4	46.5	53.3	62.5	56.9	54.8
COBALT		MG/KG	19.5	22.1	27.9	27.6	14.2	21.1	25.7	13.1	18.5
COPPER		MG/KG	28.3	48.7	36.9	48.7	35.4	61.9	116	32.9	47.6
IRON		MG/KG	32300	36500	43900	38600	26400	28300	36600	30500	34200
LEAD		MG/KG	13.6	21.5	16.4	15.9	24.6	26.6	24.5	64.3	71.9
MAGNESIUM		MG/KG	11700 J	14000 J	22300 J	11700 J	8180 J	10100 J	13100 J	1360 J	3940 J
MANGANESE		MG/KG	401 J	366 J	840 J	518 J	344 J	726 J	512 J	571 J	800 J
NICKEL		MG/KG	53.3	43.1	87.2	53.6	32.7	41.9	43.9	13.7	19.9
PHOSPHORUS		MG/KG	221 J	239 J	296 J	280 J	333 J	357 J	420 J	792 J	850 J
POTASSIUM		MG/KG	8530 J	12500 J	13900 J	9190 J	5400 J	6650 J	9580 J	514 J	888 J
SELENIUM		MG/KG	0.48 UJ	0.56 UJ	0.72 J	0.55 UJ	0.56 UJ	0.58 J	0.54 UJ	1.2 J	0.71 J
SILICON		MG/KG	1510 J	1380 J	1580 J	1300 J	2080 J	2590 J	2300 J	1290 J	1850 J
SILVER		MG/KG	0.48 U	0.56 U	0.57 U	0.55 U	0.56 U	0.56 U	0.54 U	2	1.3
SODIUM		MG/KG	130	134	157	92.6	68	139	112	57.2 U	65 U
STRONTIUM		MG/KG	7.5	9.7	7.4	6	5.1	6.8	8.2	8.1	11.8
SULFUR		MG/KG	75.8	76.7	103	101	106	81.7	99.4	212	293
THALLIUM		MG/KG	0.96 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.6	1.1 U	1.3 U
TIN		MG/KG	1.9 U	2.4	2.3 U	2.2 U	2.3 U	2.2 U	3.1	3.8	3.4
TITANIUM		MG/KG	1420	1900	2320	1730	991	1010	1440	252	445
VANADIUM		MG/KG	62.2	81	108	91.3	47.9	56.9	103	52	85.8
ZINC		MG/KG	135	114	140	109	73.5	89.9	103	73.5	88.8
MERCURY		MG/KG	0.11 U	0.11 U	0.11 U	0.1 U	0.35	0.26	0.29	0.41	0.54
IC Scan - EPA 300M											
BROMIDE		MG/KG	1.22 U	1.17 U	1.25 U	1.22 U	1.2 U	1.18 U	1.26 U	1.23 U	1.39 U
CHLORIDE		MG/KG	17.7	4.07	3.88	2.58	4.24	70.1	23.5	3	7.36
FLUORIDE		MG/KG	1.58	1.17 U	1.25 U	1.22 U	3.55 J	3.91 J	6.66 J	4.86 J	4.85 J
NITRATE-N		MG/KG	1.22 U	1.17 U	1.25 U	1.22 U	2.68	1.18 U	4.06	3.28	5.47
NITRITE-N		MG/KG	1.22 U	1.17 U	1.25 U	1.22 U	1.2 U	1.18 U	1.26 U	1.23 U	1.39 U
PHOSPHATE-P		MG/KG	1.22 U	1.17 U	1.25 U	1.22 U	1.2 UJ	1.18 UJ	1.26 UJ	3.84 J	4 J
SULFATE		MG/KG	63.6	46.7	62	58.9	14.7	27.2	19	9.6	9.3
Mustard Degradation Products											
1,4-Oxathiane		UG/KG	81 U	82 U	80 U	83 U	78 U	80 U	81 U	78 U	78 U
1,4-Dithiane		UG/KG	79 U	79 U	77 U	80 U	76 U	77 U	79 U	76 U	76 U
Thiodiglycol		UG/KG	1056 U	1001 U	1069 U	1039 U	257 J	411 J	1088 U	985 U	813 J
Lewisite Degradation Products											
TOTAL CVAA & CVAO		UG/KG	8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U	8 U
Other Parameters											
2,4,6-Trinitrotoluene		UG/KG	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U	180 U
AMMONIA-N		MG/KG	1.2 U	1.15 U	1.23 U	1.22 U	1.2 U	1.19 U	1.27 U	1.25 U	1.38 U
CYANIDE		MG/KG	0.61 U	0.54 U	0.6 U	0.59 U	0.61 U	0.59 U	0.64 U	0.58 U	0.68 U

TABLE 2
SUMMARY OF UNVALIDATED ANALYTICAL RESULTS

SAMPLE ID:		**OU4-4625-4**	**OU4-4633-1**	**OU4-4633-2**	**OU4-4633-SB**
SAMPLE TYPE:		**NX**	**NX**	**NX**	**NX**
LAB SAMPLE ID:		**157205**	**157206**	**157207**	**157208**
ORDER NO.:		**1**	**1**	**1**	**1**
SAMPLING DATE:		**2/13/2001**	**2/13/2001**	**2/13/2001**	**2/13/2001**
1,2-DICHLOROBENZENE	UG/KG	86 U	88 U	90 U	86 U
BENZYL ALCOHOL	UG/KG	86 U	88 U	27 J	86 U
BIS(2-CHLOROISOPROPYL)ETHER	UG/KG	86 U	88 U	90 U	86 U
2-METHYLPHENOL	UG/KG	86 U	88 U	90 U	86 U
HEXACHLOROETHANE	UG/KG	86 U	88 U	90 U	86 U
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	86 U	88 U	90 U	86 U
4-METHYLPHENOL	UG/KG	13 J	88 U	90 U	86 U
NITROBENZENE	UG/KG	86 U	88 U	90 U	86 U
ISOPHORONE	UG/KG	86 U	88 U	90 U	86 U
2-NITROPHENOL	UG/KG	86 U	88 U	90 U	86 U
2,4-DIMETHYLPHENOL	UG/KG	86 U	88 U	90 U	86 U
BIS(2-CHLOROETHOXY)METHANE	UG/KG	86 U	88 U	90 U	86 U
2,4-DICHLOROPHENOL	UG/KG	86 U	88 U	90 U	86 U
1,2,4-TRICHLOROBENZENE	UG/KG	86 U	88 U	90 U	86 U
NAPHTHALENE	UG/KG	27 J	88 U	90 U	86 U
BENZOIC ACID	UG/KG	41 J	26 J	28 J	260 U
4-CHLOROANILINE	UG/KG	86 U	88 U	90 U	86 U
PHENYL ISOTHIOCYANATE	UG/KG	86 U	88 U	90 U	86 U
HEXACHLOROBUTADIENE	UG/KG	86 U	88 U	90 U	86 U
O-CHLORONITROBENZENE	UG/KG	86 U	88 U	90 U	86 U
4-CHLORO-3-METHYLPHENOL	UG/KG	86 U	88 U	90 U	86 U
2-METHYLNAPHTHALENE	UG/KG	14 J	88 U	90 U	86 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	86 U	88 U	90 U	86 U
2,4,6-TRICHLOROPHENOL	UG/KG	86 U	88 U	90 U	86 U
2,4,5-TRICHLOROPHENOL	UG/KG	86 U	88 U	90 U	86 U
2-CHLORONAPHTHALENE	UG/KG	86 U	88 U	90 U	86 U
2-NITROANILINE	UG/KG	86 U	88 U	90 U	86 U
ACENAPHTHYLENE	UG/KG	230	12 J	13 J	86 U
2,6-DINITROTOLUENE	UG/KG	86 U	88 U	90 U	86 U
ACENAPHTHENE	UG/KG	86 U	88 U	90 U	86 U
3-NITROANILINE	UG/KG	86 U	88 U	90 U	86 U
2,4-DINITROPHENOL	UG/KG	260 U	260 U	270 U	260 U
DIBENZOFURAN	UG/KG	14 J	88 U	90 U	86 U
2,4-DINITROTOLUENE	UG/KG	86 U	88 U	90 U	86 U
4-NITROPHENOL	UG/KG	86 U	88 U	90 U	86 U
FLUORENE	UG/KG	24 J	88 U	90 U	86 U
4-CHLOROPHENYL-PHENYLETHER	UG/KG	86 U	88 U	90 U	86 U
DIETHYLPHTHALATE	UG/KG	86 U	14 UB	90 U	86 U
4-NITROANILINE	UG/KG	86 U	88 U	90 U	86 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	86 U	88 U	90 U	86 U
N-NITROSODIPHENYLAMINE	UG/KG	86 U	88 U	90 U	86 U
4-BROMOPHENYL-PHENYLETHER	UG/KG	86 U	88 U	90 U	86 U
HEXACHLOROBENZENE	UG/KG	86 U	88 U	90 U	86 U
PENTACHLOROPHENOL	UG/KG	86 U	88 U	90 U	86 U
PHENANTHRENE	UG/KG	300	33 J	49 J	38 J
ANTHRACENE	UG/KG	62 J	13 J	14 J	86 U
CARBAZOLE	UG/KG	33 J	88 U	90 U	86 U
DI-N-BUTYLPHTHALATE	UG/KG	28 UB	27 UB	22 UB	22 UB
FLUORANTHENE	UG/KG	1200	110	140	87
PYRENE	UG/KG	1800	170	210	130
BUTYLBENZYLPHTHALATE	UG/KG	22 J	12 J	90 U	86 U
PHENYL HYDRAZINE	UG/KG	86 U	88 U	90 U	86 U
3,3-DICHLOROBENZIDINE	UG/KG	86 U	88 U	90 U	86 U
BENZO[A]ANTHRACENE	UG/KG	1100	88 J	110	48 J
CHRYSENE	UG/KG	620	66 J	78 J	49 J
BIS(2-ETHYLHEXYL)PHTHALATE	UG/KG	120 UB	230 UB	170 B	23 UB
DI-N-OCTYLPHTHALATE	UG/KG	86 UJ	88 UJ	90 UJ	86 UJ
BENZO[B]FLUORANTHENE	UG/KG	1800 J	130 J	180 J	62 J
BENZO[K]FLUORANTHENE	UG/KG	800 J	82 J	83 J	34 J
BENZO[A]PYRENE	UG/KG	720 J	49 J	58 J	41 J
INDENO[1,2,3-CD]PYRENE	UG/KG	660 J	88 UJ	32 J	86 UJ
DIBENZ[A,H]ANTHRACENE	UG/KG	140 J	88 UJ	90 UJ	86 UJ
BENZO[G,H,I]PERYLENE	UG/KG	350 J	88 UJ	23 J	86 UJ
DIMETHYLPHTHALATE	UG/KG	86 UJ	88 UJ	90 UJ	86 UJ
SVOC Tentatively Identified Compounds					
.ALPHA.-LINDANE	UG/KG				
.GAMMA.-SITOSTEROL	UG/KG				
1-EICOSANOL	UG/KG				
1-OCTADECANOL	UG/KG		5000 NJ		
1-PROPENE, 1,2,3-TRICHLORO-	UG/KG				160 UB
1-PROPENE,1,1,2-TRICHLORO-	UG/KG				
1-PROPENE,1,2,3-TRICHLORO-	UG/KG				
13-OCTADECENAL	UG/KG				
14-OCTADECENAL	UG/KG				
5-EICOSENE, (E)-	UG/KG		950 NJ		
7-HEXADECENE, (Z)-	UG/KG				
9,12-OCTADECADIENOIC ACID (Z,Z)-	UG/KG				
9-HEXADECENOIC ACID	UG/KG				
BENZENEETANOL, 4-HYDROXY-	UG/KG			290 NJ	
CARBOXYLIC ACID ESTER	UG/KG		360 J		
DOCOSANE	UG/KG			570 NJ	
ETHANOL, 2-(2-ETHOXYETHOXY)-	UG/KG				
HEPADECANE, 9-OCTYL-	UG/KG		450 NJ		
HEPTADECANE	UG/KG			790 NJ	
HEPTADECANE, 9-OCTYL-	UG/KG			2000 NJ	
HEXADECANOIC ACID	UG/KG	89 NJ			
NONACOSANE	UG/KG			1800 NJ	840 NJ
NONADECANE	UG/KG	160 NJ	430 NJ		
OCTACOSANE	UG/KG				
OLEIC ACID	UG/KG		130 NJ	190 NJ	
PENTADECANE, 8-HEXYL-	UG/KG				
PHENANTHRENE, 2-METHYL-	UG/KG				
PHENANTHRENE,9-METHYL-	UG/KG				
SEPTUM BLEED	UG/KG				
TRICOSANE	UG/KG			570 NJ	
UNKNOWN	UG/KG	140 J	290 J	860 J	180 BJ
UNKNOWN ALKANE	UG/KG	120 J		1700 J	
UNKNOWN HYDROCARBON	UG/KG	160 J	190 NJ	730 J	150 J
UNKNOWN SILOXANE	UG/KG				
ICP Scan Metals - SW6010B					
ALUMINUM	MG/KG	12500	8520	7020	13500

TABLE 2
SUMMARY OF UNVALIDATED ANALYTICAL RESULTS

SAMPLE ID:		**OU4-4625-4**	**OU4-4633-1**	**OU4-4633-2**	**OU4-4633-SB**
SAMPLE TYPE:		**NX**	**NX**	**NX**	**NX**
LAB SAMPLE ID:		**157205**	**157206**	**157207**	**157208**
ORDER NO.:		**1**	**1**	**1**	**1**
SAMPLING DATE:		**2/13/2001**	**2/13/2001**	**2/13/2001**	**2/13/2001**
Volatile Organic Compounds - SW8260B					
DICHLORODIFLUOROMETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
CHLOROMETHANE	UG/KG	3	7	1.4 U	3
VINYL CHLORIDE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
BROMOMETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
CHLOROETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
ACETONE	UG/KG	120 J	70 UB	62 UB	57 J
TRICHLOROFLUOROMETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
ACETONITRILE	UG/KG	6.5 U	5 U	7 U	5.5 U
1,1-DICHLOROETHENE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
METHYLENE CHLORIDE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
CARBON DISULFIDE	UG/KG	8	15	8	10
TRANS-1,2-DICHLOROETHENE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
1,1-DICHLOROETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
METHYL TERT-BUTYL ETHER	UG/KG	1.3 U	1 U	1.4 U	1.1 U
2-BUTANONE	UG/KG	25	25	30	9
CIS-1,2-DICHLOROETHENE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
CHLOROPICRIN	UG/KG	32 U	25 U	25 U	27 U
CHLOROFORM	UG/KG	1 J	1 U	1.4 U	1.1 U
1,2-DICHLOROETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
1,1,1-TRICHLOROETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
METHYL ACETATE	UG/KG	11	11	1.4 U	2
BENZENE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
CARBON TETRACHLORIDE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
CYCLOHEXANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
1,2-DICHLOROPROPANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
BROMODICHLOROMETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
TRICHLOROETHENE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
4-METHYL-2-PENTANONE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
CIS-1,3-DICHLOROPROPENE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
TRANS-1,3-DICHLOROPROPENE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
1,1,2-TRICHLOROETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 UJ
METHYLCYCLOHEXANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
TOLUENE	UG/KG	1 J	2	1.4 U	8 J
2-HEXANONE	UG/KG	1.3 U	1	1.4 U	1.1 UJ
DIBROMOCHLOROMETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
1,2-DIBROMOETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 UJ
TETRACHLOROETHENE	UG/KG	1.3 U	1 U	1.4 U	1.1 UJ
CHLOROBENZENE	UG/KG	1.3 U	1 U	1.4 U	1.1 UJ
ETHYLBENZENE	UG/KG	1.3 U	1 U	1.4 U	1.1 UJ
M&P-XYLENE	UG/KG	1.3 U	1 U	1.4 U	1.1 UJ
BROMOFORM	UG/KG	1.3 UJ	1 UJ	1.4 UJ	1.1 UJ
STYRENE	UG/KG	1.3 U	1 U	1.4 U	1.1 UJ
1,1,2,2,-TETRACHLOROETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 UJ
O-XYLENE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
BENZYL BROMIDE	UG/KG	6.5 U	16	7 U	5.5 U
ISOPROPYLBENZENE	UG/KG	1.3 UJ	1 UJ	1.4 UJ	1.1 UJ
BENZYL CHLORIDE	UG/KG	6.5 UJ	5 UJ	7 UJ	5.5 UJ
ACROLEIN	UG/KG	10	5 U	7 U	7
1,3-DICHLOROBENZENE	UG/KG	1.3 UJ	1 UJ	1.4 UJ	1.1 UJ
1,4-DICHLOROBENZENE	UG/KG	1.3 UJ	1 UJ	1.4 UJ	2 J
1,2-DICHLOROBENZENE	UG/KG	1.3 UJ	1 UJ	1.4 UJ	1.1 UJ
1,2-DIBROMO-3-CHLOROPROPANE	UG/KG	1.3 UJ	1 UJ	1.4 UJ	1.1 UJ
1,2,4-TRICHLOROBENZENE	UG/KG	1.3 UJ	1 UJ	1.4 UJ	1.1 UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/KG	1.3 U	1 U	1.4 U	1.1 U
VOC Tentatively Identified Compounds					
1-HEXENE, 4-METHYL	UG/KG				
1-OCTANOL, 2,7-DIMETHYL-	UG/KG				
2,4-HEXANEDIONE	UG/KG				
2-BUTANONE, 3-METHYL-	UG/KG	20 NJ	4 NJ		
2-BUTENE, (Z)-	UG/KG			3 J	
2-HEPTANONE, 6-METHYL-	UG/KG	10 NJ			
2-HEXENE, (Z)-	UG/KG				
2-OCTENE, (E)	UG/KG				
2-OCTENE, (E)-	UG/KG	7 J	10 J	60 J	10 J
ACETALDEHYDE	UG/KG	40 NJ	20 NJ		
BENZALDEHYDE	UG/KG		10 NJ	5 NJ	
BENZENE, (1-METHYLETHENYL)-	UG/KG		5 NJ		
BENZENE, 1-METHYL-3-(1-METHYL	UG/KG				30 NJ
BICYCLO 2.2.1 HEPTANE, 7, 7,-D	UG/KG				
BICYCLO 2.2.1 HEPTANE, 7,7-D	UG/KG				50 J
BICYCLO 3.1.1 HEPT-2-ENE, 2,	UG/KG				
BICYCLO 3.1.1 HEPT-2-ENE, 2,6,6-TRIMETHYL	UG/KG				80 J
BUTANAL	UG/KG		5 NJ		
BUTANE	UG/KG			1 NJ	
CARBON OXIDE SULFIDE(COS)	UG/KG				
CYCLOHEXENE, 1-METHYL-4-(1-METHYLTHENYL)-,®	UG/KG				10 J
CYCLOPROPANE, 1,2-DIMETHYL-, TRANS	UG/KG				
CYCLOTETRASILOXANE, OCTAMETH	UG/KG	3 NJ			
DODECANAL	UG/KG	7 NJ			
ETHANETHIOL	UG/KG			10 NJ	
ETHANONE, 1-(3-ETHYLOXIRANYL	UG/KG				
HEPTANE, 3-METHYLENE-	UG/KG			10 NJ	
HEPTANTE, 3-METHYLENE-	UG/KG				
HEXANAL	UG/KG	40 NJ	60 NJ		100 NJ
HEXANAL, 2-ETHYL-	UG/KG				
HEXANAL, 5-METHYL-	UG/KG				
HEXANE	UG/KG			4 NJ	
NONANAL	UG/KG				
OCTANAL	UG/KG	10 NJ			10 NJ
OCTANE	UG/KG			10 NJ	
PENTANAL	UG/KG		8 NJ		20 NJ
PENTANE	UG/KG	8 NJ	9 NJ	5 NJ	20 NJ
PROPANAL, 2-METHYL-	UG/KG	8 NJ			
PROPANE, 1,1-OXYBIS-'	UG/KG				
Semivolatile Organic Compounds - SW8270C					
PHENYL ISOCYANATE	UG/KG	86 U	88 U	90 U	86 U
PHENOL	UG/KG	86 U	88 U	90 U	86 U
2-CHLOROPHENOL	UG/KG	86 U	88 U	90 U	86 U
1,3-DICHLOROBENZENE	UG/KG	86 U	88 U	90 U	86 U
1,4-DICHLOROBENZENE	UG/KG	86 U	88 U	90 U	86 U

TABLE 2
SUMMARY OF UNVALIDATED ANALYTICAL RESULTS

	SAMPLE ID:		**OU4-4625-4**	**OU4-4633-1**	**OU4-4633-2**	**OU4-4633-SB**
	SAMPLE TYPE:		**NX**	**NX**	**NX**	**NX**
	LAB SAMPLE ID:		**157205**	**157206**	**157207**	**157208**
	ORDER NO.:		**1**	**1**	**1**	**1**
	SAMPLING DATE:		**2/13/2001**	**2/13/2001**	**2/13/2001**	**2/13/2001**
ANTIMONY		MG/KG	1.2 UJ	1.2 UJ	1.2 UJ	1.1 UJ
ARSENIC		MG/KG	107	4.4	6.3	2
BARIUM		MG/KG	108	53.4	44.9	54.6
BERYLLIUM		MG/KG	0.78	0.6 U	0.59 U	0.67
CADMIUM		MG/KG	0.62 U	0.6 U	0.59 U	0.56 U
CALCIUM		MG/KG	3250	2860	9240	1810
CHROMIUM		MG/KG	40.9	87.6	50.4	68.2
COBALT		MG/KG	15.1	7.1	5.4	14.9
COPPER		MG/KG	34	54.3	27	26.6
IRON		MG/KG	26900	18300	16700	25200
LEAD		MG/KG	72	65.6	62.5	20.6
MAGNESIUM		MG/KG	2520 J	1850 J	5350 J	4830 J
MANGANESE		MG/KG	695 J	216 J	231 J	342 J
NICKEL		MG/KG	13.5	14.4	10.7	31.4
PHOSPHORUS		MG/KG	921 J	1530 J	1320 J	205 J
POTASSIUM		MG/KG	890 J	704 J	625 J	859 J
SELENIUM		MG/KG	0.62 UJ	0.6 UJ	0.59 UJ	0.56 UJ
SILICON		MG/KG	1370 J	1300 J	1400 J	1350 J
SILVER		MG/KG	0.73	0.85	0.59 U	0.56 U
SODIUM		MG/KG	61.6 U	58.9 U	58.7 U	55.5 U
STRONTIUM		MG/KG	13	12.9	11	8.5
SULFUR		MG/KG	313	387	422	73.9
THALLIUM		MG/KG	1.2 U	1.2 U	1.2 U	1.1 U
TIN		MG/KG	2.7	4.5	2.3 U	2.2 U
TITANIUM		MG/KG	378	253	199	272
VANADIUM		MG/KG	55.8	37.6	33.7	47.6
ZINC		MG/KG	76.9	86.1	80.2	33.1
MERCURY		MG/KG	0.15	0.16	0.13	0.1 U
IC Scan - EPA 300M						
BROMIDE		MG/KG	1.3 U	1.32 U	1.4 U	1.2 U
CHLORIDE		MG/KG	4.49	2.2	2.21	3.39
FLUORIDE		MG/KG	3.35	4.83	4.61	4.76
NITRATE-N		MG/KG	6.68	10.3	11.6	1.2 U
NITRITE-N		MG/KG	1.3 U	1.32 U	1.4 U	1.2 U
PHOSPHATE-P		MG/KG	5.07	37.5	34	2.36
SULFATE		MG/KG	8.62	8.38	10.6	11.2
Mustard Degradation Products						
1,4-Oxathiane		UG/KG	83 U	83 U	81 U	84 U
1,4-Dithiane		UG/KG	81 U	81 U	79 U	82 U
Thiodiglycol		UG/KG	1117 U	1130 U	1156 U	1105 U
Lewisite Degradation Products						
TOTAL CVAA & CVAO		UG/KG	8 U	8 U	8 U	8 U
Other Parameters						
2,4,6-Trinitrotoluene		UG/KG	180 U	180 U	180 U	180 U
AMMONIA-N		MG/KG	1.29 U	1.3 U	1.41 U	1.18 U
CYANIDE		MG/KG	0.62 U	1.19	0.68 U	0.54 U

Reeser, Leland H NAB02

From: Peloquin, Michael CPT NAB02
Sent: Friday, July 27, 2001 7:24 AM
To: Brennan, Kevin M NAB02
Cc: Leland Reeser; Michael Rogers
Subject: RE: Sedgwick trench AUES list

Kevin,
I spoke to Rich Albright about the AUES list results.
Here are the items I'd like you to communicate in a letter sent with the results today. Also, please try to call the four residents to let them know the results are going out.
After conferring with EPA and DC Health officials we have decided to provide the results to the residents before we complete our analysis of what the mean in terms of any health risks.
In its preliminary review, DC Health did not see any results posing any serious health risks (i.e., a contaminants of concern). Arsenic remains the primary contaminant of concern for the Sedgwick trench area.
The detailed review of the data will take several more weeks, at which time we will notify the residents by mail (phone if there is any significant change in the preliminary assessment).
Analyzing the results is a difficult process and everyone involved wants to ensure the property owners have information that is useful to them.
-mike p

-----Original Message-----
From: Brennan, Kevin M NAB02
Sent: Wednesday, July 25, 2001 2:11 PM
To: 'Albright, Richard'; 'Harbold, Harry'
Cc: Peloquin, Michael CPT NAB02
Subject: Sedgwick trench AUES list

Rich and Harry,

As discussed during last week's partnership meeting, attached are the validated results from the Sedgwick trench borings. I will be furnishing these results to the property owners in this format with an explanation that we are currently working on formatting the results so that the reader (property owner) will better understand what they mean.

<< File: sedgw_~1.xls >> << File: sedgw.doc >> << File: justti~1.xls >>

Kevin Brennan
Civil Projects Management Branch
410.962.6113

SUMMARY OF VALIDATED ANALYTICAL RESULTS
SEDGWICK TRENCH AREA

SAMPLE ID:		5/8/2001		5040TR-SB	5065TR-SBDUP01	5054TR-SB	5059TR-SB	5065TR-SB
SAMPLE DEPTH:		REGION III	Result	4.5'-5.5'	4.5'-5.5'	3'-5'	9'-10'	2.5'-4'
LAB SAMPLE ID:		Residential	Exceeds	159223	159227	159224	159225	159226
TYPE or LOCATION:		RBC	RBC?	Trench Bottom	Dup 5040 Trench Bottom	Trench Bottom	Trench Bottom	Trench Bottom
SAMPLING DATE:		*(Adjusted Down by factor of 10)*		4/5/2001	4/5/2001	4/5/2001	4/5/2001	4/5/2001
Volatile Organic Compounds - SW8260B								
DICHLORODIFLUOROMETHANE	UG/KG	1.60E+06	NO	1 UB	1.1 U	1.3 U	1 UB	1 UB
CHLOROMETHANE	UG/KG	4.90E+04	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
VINYL CHLORIDE	UG/KG	9.00E+01	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
BROMOMETHANE	UG/KG	1.10E+04	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
CHLOROETHANE	UG/KG	2.20E+05	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
ACETONE	UG/KG	7.80E+05	NO	1 UB	2 UB	3 UB	2 UB	2 UB
TRICHLOROFLUOROMETHANE	UG/KG	2.30E+06	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
ACETONITRILE	UG/KG	NA		5.2 U	5.3 U	6.3 U	5.4 U	5.3 U
1,1-DICHLOROETHENE	UG/KG	NA		1 U	1.1 U	1.3 U	1.1 U	1.1 U
METHYLENE CHLORIDE	UG/KG	8.50E+04	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
CARBON DISULFIDE	UG/KG	7.80E+05	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
TRANS-1,2-DICHLOROETHENE	UG/KG	1.60E+05	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
1,1-DICHLOROETHANE	UG/KG	7.80E+05	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
METHYL TERT-BUTYL ETHER	UG/KG	NA		1 U	1.1 U	1.3 U	1.1 U	1.1 U
2-BUTANONE	UG/KG	4.70E+06	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
CIS-1,2-DICHLOROETHENE	UG/KG	7.80E+04	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
CHLOROPICRIN	UG/KG	NA		26 UJ	27 UJ	32 UJ	27 UJ	27 UJ
CHLOROFORM	UG/KG	7.80E+04	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
1,2-DICHLOROETHANE	UG/KG	7.00E+03	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
1,1,1-TRICHLOROETHANE	UG/KG	2.20E+06	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
METHYL ACETATE	UG/KG	7.80E+06	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
BENZENE	UG/KG	1.20E+04	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
CARBON TETRACHLORIDE	UG/KG	4.90E+03	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
CYCLOHEXANE	UG/KG	4.70E+05	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
1,2-DICHLOROPROPANE	UG/KG	9.40E+03	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
BROMODICHLOROMETHANE	UG/KG	1.00E+04	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
TRICHLOROETHENE	UG/KG	4.70E+04	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
4-METHYL-2-PENTANONE	UG/KG	6.30E+06	NO	1 UJ	1.1 UJ	2 J	1.1 UJ	1.1 UJ
CIS-1,3-DICHLOROPROPENE	UG/KG	6.40E+03	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
TRANS-1,3-DICHLOROPROPENE	UG/KG	6.40E+03	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
1,1,2-TRICHLOROETHANE	UG/KG	1.10E+04	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
METHYLCYCLOHEXANE	UG/KG	NA		1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
TOLUENE	UG/KG	1.60E+06	NO	1 UJ	4 J	1.3 UJ	1.1 UJ	1.1 UJ
2-HEXANONE	UG/KG	3.10E+05	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
DIBROMOCHLOROMETHANE	UG/KG	7.60E+03	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
1,2-DIBROMOETHANE	UG/KG	7.50E+00	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
TETRACHLOROETHENE	UG/KG	1.20E+04	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
CHLOROBENZENE	UG/KG	1.60E+05	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
ETHYLBENZENE	UG/KG	7.80E+05	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
M&P-XYLENE	UG/KG	1.60E+07	NO	1 UJ	2 J	1.3 UJ	1.1 UJ	1.1 UJ
BROMOFORM	UG/KG	8.10E+04	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
STYRENE	UG/KG	1.60E+06	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
1,1,2,2-TETRACHLOROETHANE	UG/KG	3.20E+03	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
O-XYLENE	UG/KG	1.60E+07	NO	1 UJ	2 J	1.3 UJ	1.1 UJ	1.1 UJ
BENZYL BROMIDE	UG/KG	NA		5.2 UJ	5.3 UJ	6.3 UJ	5.4 UJ	5.3 UJ

SUMMARY OF VALIDATED ANALYTICAL RESULTS
SEDGWICK TRENCH AREA

SAMPLE ID:		5/8/2001		5040TR-SB	5065TR-SBDUP01	5054TR-SB	5059TR-SB	5065TR-SB
SAMPLE DEPTH:		REGION III	Result	4.5'-5.5'	4.5'-5.5'	3'-5'	9'-10'	2.5'-4'
LAB SAMPLE ID:		Residential	Exceeds	159223	159227	159224	159225	159226
TYPE or LOCATION:		RBC	RBC?	Trench Bottom	Dup 5040 Trench Bottom	Trench Bottom	Trench Bottom	Trench Bottom
SAMPLING DATE:		*(Adjusted Down by factor of 10)*		4/5/2001	4/5/2001	4/5/2001	4/5/2001	4/5/2001
ISOPROPYLBENZENE	UG/KG	NA		1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
BENZYL CHLORIDE	UG/KG	3.80E+03	NO	5.2 UJ	5.3 UJ	6.3 UJ	5.4 UJ	5.3 UJ
ACROLEIN	UG/KG	1.60E+05	NO	5.2 U	5.3 U	6.3 U	5.4 U	5.3 U
1,3-DICHLOROBENZENE	UG/KG	2.30E+05	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
1,4-DICHLOROBENZENE	UG/KG	2.70E+04	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
1,2-DICHLOROBENZENE	UG/KG	7.00E+05	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
1,2-DIBROMO-3-CHLOROPROPANE	UG/KG	4.60E+02	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
1,2,4-TRICHLOROBENZENE	UG/KG	7.80E+04	NO	1 UJ	1.1 UJ	1.3 UJ	1.1 UJ	1.1 UJ
1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	UG/KG	2.30E+08	NO	1 U	1.1 U	1.3 U	1.1 U	1.1 U
VOC Tentatively Identified Compounds								
No AUES List VOC TICs Identified								
Semivolatile Organic Compounds - SW8270C								
PHENYL ISOCYANATE	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
PHENOL	UG/KG	4.70E+06	NO	82 U	73 U	76 U	81 U	74 U
2-CHLOROPHENOL	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
1,3-DICHLOROBENZENE	UG/KG	2.30E+05	NO	82 U	73 U	76 U	81 U	74 U
1,4-DICHLOROBENZENE	UG/KG	2.70E+04	NO	82 U	73 U	76 U	81 U	74 U
1,2-DICHLOROBENZENE	UG/KG	7.00E+05	NO	82 U	73 U	76 U	81 U	74 U
BENZYL ALCOHOL	UG/KG	2.30E+06	NO	82 U	73 U	76 U	81 U	74 U
BIS (2-CHLOROISOPROPYL)ETHER	UG/KG	9.10E+03	NO	82 U	73 U	76 U	81 U	74 U
2-METHYLPHENOL	UG/KG	3.90E+05	NO	82 U	73 U	76 U	81 U	74 U
HEXACHLOROETHANE	UG/KG	7.80E+02	NO	82 U	73 U	76 U	81 U	74 U
N-NITROSO-DI-N-PROPYLAMINE	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
4-METHYLPHENOL	UG/KG	3.90E+04	NO	82 U	73 U	76 U	81 U	74 U
NITROBENZENE	UG/KG	3.90E+03	NO	82 U	73 U	76 U	81 U	74 U
ISOPHORONE	UG/KG	6.70E+05	NO	82 U	73 U	76 U	81 U	74 U
2-NITROPHENOL	UG/KG	6.30E+04	NO	82 U	73 U	76 U	81 U	74 U
2,4-DIMETHYLPHENOL	UG/KG	1.60E+05	NO	82 U	73 U	76 U	81 U	74 U
BIS (2-CHLOROETHOXY) METHANE	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
2,4-DICHLOROPHENOL	UG/KG	2.30E+04	NO	82 U	73 U	76 U	81 U	74 U
1,2,4-TRICHLOROBENZENE	UG/KG	7.80E+04	NO	82 U	73 U	76 U	81 U	74 U
NAPHTHALENE	UG/KG	1.60E+05	NO	82 U	73 U	76 U	81 U	74 U
BENZOIC ACID	UG/KG	3.10E+07	NO	250 U	220 U	230 U	240 U	220 U
4-CHLOROANILINE	UG/KG	3.10E+04	NO	82 U	73 U	76 U	81 U	74 U
PHENYL ISOTHIOCYANATE	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
HEXACHLOROBUTADIENE	UG/KG	1.60E+00	<PQL	82 U	73 U	76 U	81 U	74 U
O-CHLORONITROBENZENE	UG/KG	2.60E+04	NO	82 U	73 U	76 U	81 U	74 U
4-CHLORO-3-METHYLPHENOL	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
2-METHYLNAPHTHALENE	UG/KG	1.60E+05	NO	82 U	73 U	76 U	81 U	74 U
HEXACHLOROCYCLOPENTADIENE	UG/KG	5.50E+04	NO	82 U	73 U	76 U	81 U	74 U
2,4,6-TRICHLOROPHENOL	UG/KG	5.80E+04	NO	82 U	73 U	76 U	81 U	74 U
2,4,5-TRICHLOROPHENOL	UG/KG	7.80E+05	NO	82 U	73 U	76 U	81 U	74 U
2-CHLORONAPHTHALENE	UG/KG	6.30E+05	NO	82 U	73 U	76 U	81 U	74 U

SUMMARY OF VALIDATED ANALYTICAL RESULTS
SEDGWICK TRENCH AREA

SAMPLE ID:		5/8/2001		5040TR-SB	5065TR-SBDUP01	5054TR-SB	5059TR-SB	5065TR-SB
SAMPLE DEPTH:		REGION III	Result	4.5'-5.5'	4.5'-5.5'	3'-5'	9'-10'	2.5'-4'
LAB SAMPLE ID:		Residential	Exceeds	159223	159227	159224	159225	159226
TYPE or LOCATION:		RBC	RBC?	Trench Bottom	Dup 5040 Trench Bottom	Trench Bottom	Trench Bottom	Trench Bottom
SAMPLING DATE:		*(Adjusted Down by factor of 10)*		4/5/2001	4/5/2001	4/5/2001	4/5/2001	4/5/2001
2-NITROANILINE	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
ACENAPHTHYLENE	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
DIMETHYLPHTHALATE	UG/KG	7.80E+07	NO	82 U	73 U	76 U	81 U	74 U
2,6-DINITROTOLUENE	UG/KG	7.80E+03	NO	82 U	73 U	76 U	81 U	74 U
ACENAPHTHENE	UG/KG	4.70E+05	NO	82 U	73 U	76 U	81 U	74 U
3-NITROANILINE	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
2,4-DINITROPHENOL	UG/KG	1.60E+04	NO	250 U	220 U	230 U	240 U	220 U
DIBENZOFURAN	UG/KG	3.10E+04	NO	82 U	73 U	76 U	81 U	74 U
2,4-DINITROTOLUENE	UG/KG	1.60E+04	NO	82 U	73 U	76 U	81 U	74 U
4-NITROPHENOL	UG/KG	6.30E+04	NO	82 U	73 U	76 U	81 U	74 U
FLUORENE	UG/KG	3.10E+05	NO	82 U	73 U	76 U	81 U	74 U
4-CHLOROPHENYL-PHENYLETHER	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
DIETHYLPHTHALATE	UG/KG	6.30E+06	NO	82 U	73 U	76 U	81 U	74 U
4-NITROANILINE	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
4,6-DINITRO-2-METHYLPHENOL	UG/KG	7.80E+02	NO	82 U	73 U	76 U	81 U	74 U
N-NITROSODIPHENYLAMINE	UG/KG	1.30E+05	NO	82 U	73 U	76 U	81 U	74 U
4-BROMOPHENYL-PHENYLETHER	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
HEXACHLOROBENZENE	UG/KG	4.00E+02	NO	82 U	73 U	76 U	81 U	74 U
PENTACHLOROPHENOL	UG/KG	5.30E+03	NO	82 U	73 U	76 U	81 U	74 U
PHENANTHRENE	UG/KG	NA		82 U	73 U	270	81 U	74 U
ANTHRACENE	UG/KG	2.30E+06	NO	82 U	73 U	75 J	81 U	74 U
CARBAZOLE	UG/KG	3.20E+04	NO	82 U	73 U	76 U	81 U	74 U
DI-N-BUTYLPHTHALATE	UG/KG	7.80E+05	NO	10 UB	73 U	76 U	81 U	74 U
FLUORANTHENE	UG/KG	3.10E+05	NO	82 U	73 U	650	81 U	74 U
PYRENE	UG/KG	2.30E+05	NO	82 U	73 U	450	81 U	74 U
BUTYLBENZYLPHTHALATE	UG/KG	1.60E+06	NO	82 U	73 U	76 U	81 U	74 U
PHENYL HYDRAZINE	UG/KG	NA		82 U	73 U	76 U	81 U	74 U
3,3-DICHLOROBENZIDINE'	UG/KG	1.40E+03	NO	82 U	73 U	76 U	81 U	74 U
BENZO [A] ANTHRACENE	UG/KG	8.70E+02	NO	82 U	73 U	340	81 U	74 U
CHRYSENE	UG/KG	8.70E+04	NO	82 U	73 U	160	81 U	74 U
BIS (2-ETHYLHEXYL) PHTHALATE	UG/KG	4.60E+04	NO	82 U	73 U	51 J	81 U	74 U
DI-N-OCTYLPHTHALATE	UG/KG	1.60E+05	NO	82 U	73 U	76 U	81 U	74 U
BENZO [B] FLUORANTHENE	UG/KG	8.70E+02	NO	82 U	73 U	300	81 U	74 U
BENZO [K] FLUORANTHENE	UG/KG	8.70E+03	NO	82 U	73 U	130	81 U	74 U
BENZO [A] PYRENE	UG/KG	8.70E+01	YES	82 U	73 U	140	81 U	74 U
INDENO [1,2,3-CD] PYRENE	UG/KG	8.70E+02	NO	82 U	73 U	120	81 U	74 U
DIBENZ [A,H] ANTHRACENE	UG/KG	8.70E+01	NO	82 U	73 U	34 J	81 U	74 U
BENZO [G,H,I] PERYLENE	UG/KG	NA		82 U	73 U	97	81 U	74 U

SVOC Tentatively Identified Compounds

No AUES List SVOC TICs Identified

SUMMARY OF VALIDATED ANALYTICAL RESULTS
SEDGWICK TRENCH AREA

SAMPLE ID:		5/8/2001		5040TR-SB	5065TR-SBDUP01	5054TR-SB	5059TR-SB	5065TR-SB
SAMPLE DEPTH:		REGION III	Result	4.5'-5.5'	4.5'-5.5'	3'-5'	9'-10'	2.5'-4'
LAB SAMPLE ID:		Residential	Exceeds	159223	159227	159224	159225	159226
TYPE or LOCATION:		RBC	RBC?	Trench Bottom	Dup 5040 Trench Bottom	Trench Bottom	Trench Bottom	Trench Bottom
SAMPLING DATE:		*(Adjusted Down by factor of 10)*		4/5/2001	4/5/2001	4/5/2001	4/5/2001	4/5/2001
ICP Scan Metals - SW6010B								
ALUMINUM	MG/KG	7.80E+03	YES	13100	16100	18800	12600	14800
ANTIMONY	MG/KG	3.10E+00	NO	1.2 UJ	1.1 UJ	1 UJ	1.1 UJ	0.97 UJ
ARSENIC	MG/KG	4.30E-01	YES	2.2	0.62	1.1	1.3	0.7
BARIUM	MG/KG	5.50E+02	NO	62.4	75.4	85.4	66.5	74.6
BERYLLIUM	MG/KG	1.60E+01	NO	1.1	1.6	2.1	1.6	1.5
CADMIUM	MG/KG	7.80E+00	NO	0.59 U	0.55 U	0.52 U	0.57 U	0.49 U
CALCIUM	MG/KG	NA		171	296	448	265	306
CHROMIUM	MG/KG	2.30E+01	YES	26.5	20.6	20.3	26.4	21.4
COBALT	MG/KG	1.60E+02	NO	10.9	18	15.5	21.1	14.4
COPPER	MG/KG	3.10E+02	NO	31.4	29.2	38.2	34.1	27.9
IRON	MG/KG	2.30E+03	YES	26800	19600	18000	24200	19400
LEAD	MG/KG	4.00E+02	NO	11.1	10.1	5	12.8	7.4
MAGNESIUM	MG/KG	NA		5010	7490	7440	6170	7410
MANGANESE	MG/KG	1.10E+03	NO	177 J	602 J	438 J	460 J	384 J
NICKEL	MG/KG	1.60E+02	NO	22.5	32.4	32.1	29.3	29.4
PHOSPHORUS	MG/KG	1.60E-01	YES	213	220	502	234	217
POTASSIUM	MG/KG	NA		3820	6010	5700	4750	6020
SELENIUM	MG/KG	3.90E+01	NO	0.59 U	0.55 U	0.52 U	0.57 U	0.49 U
SILICON	MG/KG	NA		2340	2280	2320	2410	2110
SILVER	MG/KG	3.90E+01	NO	0.59 U	0.55 U	0.52 U	0.57 U	0.49 U
SODIUM	MG/KG	NA		58.6 U	57.5	55.9	57.3 U	53.7
STRONTIUM	MG/KG	4.70E+03	NO	2.5	4.2	7.9	2.3	3.9
SULFUR	MG/KG	NA		116	18.9	51	98.8	21
THALLIUM	MG/KG	5.50E-01	<PQL	1.2 U	1.1 U	1 U	1.1 U	0.97 U
TIN	MG/KG	4.70E+03	NO	2.3 U	2.2 U	2.1 U	2.3 U	1.9 U
TITANIUM	MG/KG	3.10E+04	NO	835	922	930	899	923
VANADIUM	MG/KG	5.50E+01	NO	39.8	24	23.1	32.8	23.4
ZINC	MG/KG	2.30E+03	NO	67.9	92.7	96.7	80.4	91.9
GFAA/CVAA Metals								
MERCURY	MG/KG	NA		0.06 U	0.05 U	0.05 U	0.05	0.04 U
Hexavalent Chromium	MG/KG	2.30E+01	NO	0.488 U	0.436 U	0.449 U	0.466 U	0.432 U

SUMMARY OF VALIDATED ANALYTICAL RESULTS
SEDGWICK TRENCH AREA

SAMPLE ID:		5/8/2001		5040TR-SB	5065TR-SBDUP01	5054TR-SB	5059TR-SB	5065TR-SB
SAMPLE DEPTH:		REGION III	Result	4.5'-5.5'	4.5'-5.5'	3'-5'	9'-10'	2.5'-4'
LAB SAMPLE ID:		Residential	Exceeds	159223	159227	159224	159225	159226
TYPE or LOCATION:		RBC	RBC?	Trench Bottom	Dup 5040 Trench Bottom	Trench Bottom	Trench Bottom	Trench Bottom
SAMPLING DATE:		*(Adjusted Down by factor of 10)*		4/5/2001	4/5/2001	4/5/2001	4/5/2001	4/5/2001
IC Scan - EPA 300M								
BROMIDE	MG/KG	NA		1.22 U	1.07 U	1.1 U	1.17 U	1.08 U
CHLORIDE	MG/KG	NA		20.2	7.51	9	8.34	8.17
FLUORIDE	MG/KG	NA		1.22 R	1.07 R	1.1 R	1.17 R	1.08 R
NITRATE-N	MG/KG	1.30E+04	NO	1.22 U	1.69	1.1 U	1.17 U	1.68
NITRITE-N	MG/KG	7.80E+02	NO	1.22 UJ	1.07 UJ	1.1 UJ	1.17 UJ	1.08 UJ
PHOSPHATE-P	MG/KG	NA		1.22 R	1.07 R	1.1 R	1.17 R	1.08 R
SULFATE	MG/KG	NA		52.8 J	12.5 J	69.1 J	67.7 J	13.5 J
Mustard and Mustard Degradation Products								
MUSTARD	UG/KG			200 U	Not Analyzed	200 U	200 U	200 U
1,4-OXATHIANE	UG/KG	NA		102 U	87 U	90 U	101 U	87 U
1,4-DITHIANE	UG/KG	7.80E+01	<PQL	99 U	84 U	87 U	97 U	84 U
THIODIGLYCOL	UG/KG	NA		1061 U	940 U	971 U	1043 U	940 U
Lewisite Degradation Products								
TOTAL CVAA & CVAO	UG/KG	NA		10 U	9 U	9 U	10 U	9 U
ADAMSITE*								
Other Parameters								
2,4,6-TRINITROTOLUENE	UG/KG	3.90E+00	<PQL	180 U	180 U	180 U	180 U	180 U
AMMONIA-N	MG/KG	NA		1.21 UJ	1.09 UJ	1.12 UJ	1.16 UJ	1.06 UJ
CYANIDE	MG/KG	1.60E+02	NO	0.61 U	0.54 U	0.56 U	0.58 U	0.53 U

*ECBC's method was to run samples based on the initial arsenic content. ECBC did n these samples for Adamsite since the arsenic concentration was so low.

QUALITY ASSURANCE SUMMARY REPORT FOR

SOIL SAMPLES ASSOCIATED WITH SPRING VALLEY SEDGWICK STREET RESIDENTIAL AND TRENCH SAMPLING (FINAL WORK PLAN, *MARCH 30, 2001*)

INTRODUCTION

This data validation summary report covers environmental soil samples collected from the following Spring Valley Sedgwick Street locations in Washington, DC: 5040, 5054, 5059, and 5065 Sedgwick Street. These are included in laboratory Sample Delivery Group 159223. The samples, collected April 5, 2001, are the interval representing the bottom of the Sedgwick Trench. All samples were analyzed for Full Scan Parameters including volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), mustard and mustard degradation products, adamsite, lewisite degradation products, trinitrotoluene, metals, ions (bromide, chloride, fluoride, nitrate, nitrite, phosphate and sulfate) and selected wet chemistry parameters (ammonia and total cyanide). VOC and SVOC analyses included tentatively identified compounds (TICs).

All work was performed in accordance with the Work Plan (WP) prepared by Parsons ES (Final, March 30, 2001). The WP included a Quality Assurance Project Plan (QAPjP) which was prepared and approved for use to ensure generation of legally defensible data. Southwest Research Institute (SwRI) of San Antonio, Texas, following procedures outlined in the QAPjP and the WMP, performed the majority of the analyses. SwRI did not perform mustard and adamsite analyses. Those were performed by the Edgewood Chemical and Biological Command (ECBC).

A summary of the samples collected is presented in Table 1 (Attachment 1). A glossary of the validation qualifiers is presented in Attachment 2.

SUMMARY OF VALIDATED ANALYTICAL RESULTS
SEDGWICK TRENCH AREA

SAMPLE ID:				5040TR-SB	5065TR-SBDUP01	5054TR-SB	5059TR-SB	5065TR-SB
SAMPLE DEPTH:		REGION III	Result	4.5'-5.5'	4.5'-5.5'	3'-5'	9'-10'	2.5'-4'
LAB SAMPLE ID:		Residential	Exceeds	159223	159227	159224	159225	159226
TYPE or LOCATION:		RBC	RBC?	Trench Bottom	Dup 5040 Trench Bottom	Trench Bottom	Trench Bottom	Trench Bottom
SAMPLING DATE:		5/8/2001		4/5/2001	4/5/2001	4/5/2001	4/5/2001	4/5/2001
VOC Tentatively Identified Compounds								
1-NONENE, 4,6,8-TRIMETHYL-	UG/KG						3 NJ	
BENZENE, (1-METHYLETHENYL)-	UG/KG			1 NJ	0.8 NJ	1 NJ		
BUTANE, 1,1-OXYBIS-'	UG/KG			1 NJ		0.9 NJ		
CYCLOTETRASILOXANE, OCTAMETH	UG/KG				1 NJ	3 NJ	7 NJ	
FURAN, TETRAHYDRO-	UG/KG				1 NJ			1 NJ
PROPANE, OCTAFLUORO-	UG/KG				2 NJ			2 NJ
UNKNOWN	UG/KG				4 J		3 J	0.9 J
SVOC Tentatively Identified Compounds								
1-EICOSANOL	UG/KG						160 NJ	
1-NONADECANOL	UG/KG				110 NJ			110 NJ
1-OCTADECENE	UG/KG					480 NJ		
BENZO[E] PYRENE	UG/KG					46 NJ		
UNKNOWN HYDROCARBON	UG/KG				150 J			150 J

Bochnowicz, Frank NAB02

From: Thomas Bachovchin [Thomas.Bachovchin@parsons.com]
Sent: Wednesday, May 08, 2002 2:21 PM
To: 'Peloquin, Michael MAJ NAB02'
Cc: Frank. Bochnowicz@nab02. usace. army. mil (E-mail); Leland. H. Reeser@nab02. usace. army. mil (E-mail); James.W.Baron@nab02.usace.army.mil (E-mail)
Subject: RE: May partnering meeting

Mike,

One other thing is the Final presentation of the AUES List sampling results. The CDC and Sedgwick reports have been sent Final to Jim and Frank. The 3819 (Telecki) and other OU-4 properties report will go out today or tomorrow. This may be more than you want to get into at the meeting, but it also might be a way to get final buy-off from regulators as to how these have been presented and the conclusions resulting.

I am not certain whether your items 1 and 2 below impact those documents.

Thanks.

-----Original Message-----
From: Peloquin, Michael MAJ NAB02
Sent: Wednesday, May 08, 2002 1:15 PM
To: Bethany Bridgham; Bruce Whisenant; Christopher Evans; Edward Hughes; Frank Vavra; Gary Schilling; Gerald Pollis; Gregory Nielson; Jon Durham; Jorge Abud; Ken Shuster; Laura Frazier; Leland Reeser; Mark Baker; Michael Peloquin; Michael Rogers; Richard Albright; Robert Hill; Sherri Anderson-Hudgins; Stukas.Tom@epamail.epa.gov; Susan Platt; Terry Slonecker; Theodore Henry; Wilson Walters; abjackson@starpower.net; 'Beumel, Greg'; Dorothy Zolandz; Doug Garman; 'dperkins@iiaa.org'; 'drrobins@llgm.com'; Geza Teleki; Jim Girard (Dr.); Jim Sweeney; 'jpb@gdllaw.com'; Karen Egbert; Kent Slowinski; 'Liebenthal, Andres'; Lucy Lather; 'mleone@ANTH.umd.edu'; 'pdenby@bellatlantic.net'; Rich Albright; 'ssshap@starpower.net'; 'whall@winston.com'; 'woodway2@mindspring.com'; Bachovchin, Thomas; Bishop, Edward
Subject: FW: May partnering meeting

All:
Votes are in and the next partnering meeting will be 22 May.
Here is a list of proposed topics for discussion. Please review and add to/comment on it by 14 May so I can get the agenda out shortly thereafter.

Agenda Topics:

1. Thallium Issue - Presentation/discussion on how to address the elevated thallium results from the 1995 RI.
2. Adjusted Background Results - Recalculation using only EPA's data collected in 1999.
3. Test Pit 23 Characterization on 4801 Glenbrook property - status of arsenic overexcavation. Issues with other metals should be resolved by the time of the Partnering Meeting, but if not, they can be discussed also.
4. 4835 Glenbrook Rd. Risk Assessment - No unacceptable risk. Elevated grids will be addressed under current Non-TCRA and concurrent with any follow-up geophys investigation.
5. General status of overall work on 4801 Glenbrook
6. Update on OU4 AU TCRA (resolve any EPA, DC Health and AU comments on the R.A.D. document not finalized during the 8 May "on-board" meeting
7. Update on OU5 Residential TCRA
8. Update on the draft SSS and appendices for the Sedgwick properties
9. Indoor air monitoring status update
10. Presentation by Rich/Ken/Terry on recent research efforts

Michael D. Peloquin
Major, Corps of Engineers
Deputy District Engineer for Spring Valley

410-962-0157 (Baltimore voice)
410-962-9312 (Balt. fax)
202-686-3359 (DC voice)
202-686-3596 (DC fax)

> -----Original Message-----
> From: Peloquin, Michael MAJ NAB02
> Sent: Friday, April 26, 2002 2:36 PM
> To: Bethany Bridgham; Bruce Whisenant; Christopher Evans; Edward Bishop;
> Edward Hughes; Frank Vavra; Gary Schilling; Gerald Pollis; Gregory
> Nielson; Jon Durham; Jorge Abud; Ken Shuster; Laura Frazier; Leland
> Reeser; Mark Baker; Michael Peloquin; Michael Rogers; Richard Albright;
> Robert Hill; Sherri Anderson-Hudgins; Stukas.Tom@epamail.epa.gov; Susan
> Platt; Terry Slonecker; Theodore Henry; 'Thomas Bachovchin'; Wilson
> Walters
> Subject: May partnering meeting
>
> All:
> Despite our on-board review meetings last week and next week, we still
> need to schedule a regular partnering meeting in mid-May to cover all the
> stuff not addressed in the recent meetings. I would like to hold the
> meeting 21, 22 or 23 May and need your input. Please respond, indicating
> your first and second choice.
>
> Also, please identify topics or specific issues you would like to see
> addressed at the meeting.
>
> Thanks,
>
> Michael D. Peloquin
> Major, Corps of Engineers
> Deputy District Engineer for Spring Valley
> 410-962-0157 (Baltimore voice)
> 410-962-9312 (Balt. fax)
> 202-686-3359 (DC voice)
> 202-686-3596 (DC fax)
>
>

SPRING VALLEY

Partner Meeting
Spring Valley Resident Office

PURPOSE OF MEETING: Partnering Meeting

LOCATION: Spring Valley Resident Office

DATE: May 22, 2002

TIME: 10:00 a.m. – 4:00 p.m.

Discussion of New Boundaries and POIs

Rich Albright, Greg Nielson, and Frank Vavra discussed a recent meeting of the regulators and CENAB personnel.

Rich Albright handed out copies of photos of ordnance items he uncovered from research. One of the documents referenced is "History of the Chemical Warfare Service in the United States" by Lt. Col Bancroft.

Rich Albright presented a summary of the report he distributed, "Draft Comments on the Corps of Engineers Selection of Points of Interest and Boundary Delineation for the Spring Valley DERP/FUDS Site", May 2002. His summary included:

- Expansion of FUDS boundary west of Zone 9 and north of Zone 6
- Additional POIs based upon the plan view of 1918 buildings. He also supplied a list of the buildings.
- He feels POI 7 requires additional investigation because he has uncovered information there was significant CWM testing within this POI.
- He stated the 1918 Manual of Gas Shell Storage required a pre-dug 4' deep hole for disposal of leaking shells.
- The area previously identified as an airstrip is actually an area composed of linear trenches.

- The circular testing area was an area for smoke candle testing. It is also his opinion 3-4 million candles were loaded with toxic smoke at AUES.
- He recommends including all shell loading plants.
- He believes there is another large persistency test area to the west of POI 16.
- He believes there a number of additional burial pits.
- He wants the anomalies investigated near the debris field on 4835 Glenbrook.
- The area of Dalecarlia Reservoir requires additional geophysical investigation.
- His summary of the DC report is that there are still many unknowns that require additional investigation.

Greg Nielson explained the next geophysics effort will be focused on areas agreed to by the partners. He will develop the prioritization guidelines and coordinate these with the partners. It will then be distributed to the public. This will be based upon the current prioritization scheme.

MAJ Peloquin would like to develop a Spring Valley Master Plan that would condense available information and integrate DC DOH, EPA, and CENAB prioritizations that would serve as a guide for future investigations and activities on the Spring Valley FUDS.

Glenbrook Road Activities

Update at 4801 Glenbrook Road

MAJ Peloquin reported work is starting on the separation wall and backfilling the pit. The VCS will be removed shortly followed by the removal of the access road and turn over of the property to the landscape contractor.

Right of Entry for 4825

The ROE is currently being addressed at the Dept of the Army level. Work is complete for this fiscal year. When access is again gained, the pit will be excavated, and the other areas of interest investigated (driveway, front yard).

There was discussion on the items found under the concrete retaining wall. Greg Nielson will send copies of photos of the glassware to Rich Albright.

4835 Human Health Risk Assessment

Lan Reeser reported the risk assessment for this property is complete and did not identify an unacceptable risk. However, there are approximately five grids with arsenic above 20 ppm that will be removed. Greg Nielson reported consensus from the partners will be obtained on the geophysical anomalies to be removed prior to initiating intrusive investigations.

OU5 Sampling Plan

Status/Results

MAJ Peloquin provided the results of sampling to date to Rich Albright. He will email the results to Ken Shuster and Frank Vavra. MAJ Peloquin will meet with Rich Albright to discuss prioritization of additional sampling.

MAJ Peloquin discussed the grid sample results for OU-5 and OU-4.

Van Ness Reservoir

MAJ Peloquin pointed out the Van Ness Reservoir and stated composite samples were taken today in each of 9 one-half acre lots. Rich Albright requested a boring sample for arsenic be performed in one of the garden lots. Parsons will review exactly where borings in this area have already been taken.

Sample Result Reporting

MAJ Peloquin stated the group needs to come to a conclusion on how to report the results of the AUES List of compounds. Tom Bachovchin explained these are chemical compounds where one or more indicators are above the RBC and, therefore, the result is reported as the potential compound. Frank Vavra suggested reviewing the fate and transport of the chemicals, stoichiometry, and also reviewing the relative toxicity of the compound compared to the indicators. Rich Albright stated this needs to be put in context to the historical area. Ed Bishop stated Parsons will also discuss other potential sources of the indicator compound.

CTA vs CSA Sampling

Drew Rak provided an explanation of the sampling in the CTA in four quadrants compared to the CSA with half lots compared to the EPA soil screening guidance. The sampling was based upon the criteria that CWM testing occurred within the CTA but not in the CSA.

Parsons and Drew Rak will retrieve the statistical discussion on the CTA and CSA sampling.

Removals

AU lots TCRA

These lots were addressed during the geophysics review meeting. Lots were defined as pink, yellow, or red. The pink are arsenic removal grids without anomalies for intrusive investigation. The red are arsenic removal grids with anomalies for intrusive investigation. The yellow are grids with anomalies (only) for intrusive investigation. The pink grids will be removed under HTRW conditions. The red and yellow grids will be addressed under the site-wide locally approved work plan and AU lot annex. Removal actions on the pink grids are scheduled to begin on or about June 3 with intrusive investigations in yellow and red grids likely beginning in mid-July.

Residential TCRA

Ed Hughes updated the group on the status of the pending TCRA removal action at 7 residential properties. The update included scheduling considerations (preliminary actions in June, removals starting in July/August and the goal for completion in September). Ed H mentioned about the need for cooperation from the Partnering group in support of the aggressive removal schedule, especially for issues such as the adjusted action level (43ppm) near large trees or other sensitive items, crawl space remediation options (if required) and decisions about continuing removal activities onto adjacent properties. The partners indicated concurrence with this request.

Discussion of Sedgwick Trench Investigation

Status of SSS

Ed Bishop reported the SSS will go out final tomorrow. Work will start on the site-wide local approved work plan and associated annexes. Greg Nielson stated we plan to start work mid-July. He is meeting with the property owners this evening to discuss the work plans.

Air monitoring plan revisions

Liza Finley described her concerns with the air monitoring. The methods used had levels of detection that were too low to meet the RBCs. The EPA methods that will meet the RBCs are not suitable for indoor use in residences. Her recommendation is to put the air monitoring on hold until a suitable method is determined. Greg Nielson stated the Corps' recommendation was to finalize the current work effort. However, since that effort was inconclusive, a new effort was needed. Discussion followed.

Recommendation is to use size selection to determine particulates < 10 um or < 2.5 um. It was recommended to sample 6 houses with high, low, or background levels of arsenic in soil. Ed Bishop recommended sampling for PM_{10} arsenic, mustard, and arsine. He

will work with Liza Finley (CENAB) and Pat Flores (EPA). There will be a conference call with the above personnel, DC DOH, and an EPA toxicologist (Frank Vavra will supply a name) to determine the best methods for sampling. We will use 10^{-5} as the RBC.

On the issue of swipe samples, the group recommended collecting dust samples rather than swipe samples. Dust samples were collected by ATSDR. Drew Rak asked about collecting vacuum cleaner bags.

Miscellaneous Issues

Adjusted background results

Drew Rak explained the results of recalculation of the background data. There were some discrepancies with the data from field duplicates, and a transcription error. He presented a summary of the combined 1993/94 and 1999 data to the 1999 data. Some metals were higher and some were lower. However, in general, the results are not vastly different. He recommends continuing to use the corrected combined 1993/94 and 1999 data The group concurred.

Scientific Advisory Panel

The Scientific Advisory Panel meets May 29, 2002. MAJ Peloquin will briefly present on the sampling results. ATSDR will also present.

Evergreen document

This is a document to capture all of the open items from RAB and partnering meetings. These items will be prioritized and addressed. Gary Schilling, CENAB, will be preparing this document.

Open Discussion

Greg Nielson stated the Donovan Chamber will be mobilized to the site within 3 months. He stated he is still awaiting an approval from the DC DOH on the use of the chamber on the Federal Property.

There has been a change in the security service. They are now using the Washington Aqueduct (WAD) security personnel at the Federal Facility with the DC Police at American University. In the future, an intrusion detection system (IDS) will be installed at the Federal Facility with on-site guard presence only during working hours. The IDS will be monitored during non-working hours by WAD security personnel. DC Police Special Operations Division (SOD) will continue to be used at intrusive investigations where OE/CWM are found.

Ed Hughes brought up the re-sampling of the Teleki property. Frank Vavra said the homeowner was not happy with the locations because they were in the homeowner's clean soil. Tom Bachovchin stated we took the samples with anomaly avoidance protocols. Any location change was the result of anomaly avoidance procedures. Parsons will summarize all sampling procedures and provide an analysis of where the surface samples were taken compared to the homeowner's map.

Short Term Taskers:

1. Greg Nielson – provide photos of glassware found within or near the concrete footer of the 4825 Glenbrook wall to Rich Albright

2. Greg Nielson – prepare a narrative describing general methodology for selecting future sites for geophysical investigation

3. Ed Bishop – take lead in setting up conference call with DC DOH, EPA, and CENAB to determine appropriate means for sampling/measuring indoor air quality

4. Frank Vavra – provide EPA POC to Ed Bishop so he can address #3 above

5. Gary Schilling – compile draft Evergreen List

6. Parsons – provide to CENAB, EPA, and DC DOH an analysis of where the Teleki property surface samples were taken compared to the homeowner's map

7. CENAB/Parsons – review boring samples collected near the Van Ness reservoir in the garden lots

8. Major Peloquin - . E-mail OU5 sampling results to Ken Shuster and Frank Vavra and meet with Rich Albright to discuss prioritization of additional sampling

Evergreen List:

1. Major Peloquin – Initiate master plan effort.

2. All partners – review DC DOH report on new POIs for incorporation into future master plan effort

3. CENAB – reevaluation of data collected to date and additional geophysics on the Dalecarlia Reservoir

Attendees

Name	Organization/Address
Major Mike Peloquin	CENAB
Lan Reeser	CENAB
Rich Albright	DCEHA
Frank Vavra	USEPA
Wilson Walters	USAESCH
Ken Shuster	USEPA
Ed Hughes	CENAB
Greg Nielson	CENAB
Jim Baron	CENAB
Ben Rooney	CENAB
Bethany Bridgham	AU
Frank Bochnowicz	CENAB
Drew Rak	CENAB
Mark Baker	CENAB
Liza Finley	CENAB
Tom Stukas	ATSDR
Terry Slonecker	USEPA
RAB Member	Not Otherwise Identified
Tom Bachovchin	Parsons ES
Ed Bishop	Parsons ES
Pete Crowley	Parsons ES

DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MD 21203-1715

March 15, 2001

REPLY TO
ATTENTION OF
Programs and Project
Management Division

Mr. and Mrs. Curtis Bohlen
4710 Quebec Street
Washington, D.C. 20016

Dear Mr. and Mrs. Bohlen:

I have enclosed the preliminary results of the arsenic sampling that we conducted on your property on February 2, 2001. I have also included a map identifying the samples' locations.

If you have any questions on this matter, please feel free to contact me, at 410-962-6782

Sincerely,

Patience N. Nwanna
Spring Valley OU4 Project Manager

Enclosure

Lot Number	Sample Type	Sample ID	Date Collected	Date Reviewed	Data Validated	PARAMETER Arsenic mg/kg	Qualifier
4710 Quebec	soil	OU4-4710QS-150,90	2/2/2001	2/12/2001		5.70	
	soil	OU4-4710QS-130,110	2/2/2001	2/12/2001		20.8	
	soil	OU4-4710QS-130,90	2/2/2001	2/12/2001		3.52	
	soil	OU4-4710QS-130,70	2/2/2001	2/12/2001		17.2	
	soil	OU4-4710QS-110,130	2/2/2001	2/12/2001		12.5	
	soil	OU4-4710QS-110,110	2/2/2001	2/12/2001		25.3	
	soil	OU4-4710QS-110,90	2/2/2001	2/12/2001		27.2	
	soil	OU4-4710QS-110,70	2/2/2001	2/12/2001		49.4	
	soil	OU4-4710QS-110,50	2/2/2001	2/12/2001		42.7	
	soil	OU4-4710QS-90,150	2/2/2001	2/12/2001		17.2	
	soil	OU4-4710QS-90,130	2/2/2001	2/12/2001		5.38	
	soil	OU4-4710QS-90,110	2/2/2001	2/12/2001		35.1	
	soil	OU4-4710QS-90,90	2/2/2001	2/12/2001		10.4	
	soil	OU4-4710QS-90,50	2/2/2001	2/12/2001		5.13	
	soil	OU4-4710QS-90,30	2/2/2001	2/12/2001		10.6	
	soil	OU4-4710QS-70,150	2/2/2001	2/12/2001		3.52	
	soil	OU4-4710QS-70,130	2/2/2001	2/12/2001		7.98	
	soil	OU4-4710QS-70,110	2/2/2001	2/12/2001		20.0	
	soil	OU4-4710QS-70,70	2/2/2001	2/12/2001		15.9	
	soil	OU4-4710QS-70,50	2/2/2001	2/12/2001		56.3	
	soil	OU4-4710QS-70,30	2/2/2001	2/12/2001		7.46	
	soil	OU4-4710QS-70,10	2/2/2001	2/12/2001		8.03	
	soil	OU4-4710QS-50,130	2/2/2001	2/12/2001		6.16	
	soil	OU4-4710QS-50,110	2/2/2001	2/12/2001		19.6	
	soil	OU4-4710QS-50,90	2/2/2001	2/12/2001		30.7	
	soil	OU4-4710QS-50,70	2/2/2001	2/12/2001		30.8	
	soil	OU4-4710QS-50,50	2/2/2001	2/12/2001		6.58	
	soil	OU4-4710QS-50,30	2/2/2001	2/12/2001		9.74	
	soil	OU4-4710QS-30,110	2/2/2001	2/12/2001		6.82	
	soil	OU4-4710QS-30,90	2/2/2001	2/12/2001		39.1	
	soil	OU4-4710QS-30,70	2/2/2001	2/12/2001		38.6	
	soil	OU4-4710QS-30,50	2/2/2001	2/12/2001		6.97	
	soil	OU4-4710QS-10,90	2/2/2001	2/12/2001		41.5	
	soil	OU4-4710QS-10,70	2/2/2001	2/12/2001		12.5	
	soil	OU4-4710QS-DUP01	2/2/2001	2/12/2001		21.3	
	soil	OU4-4710QS-DUP02	2/2/2001	2/12/2001		22.0	



>13 ppm, < 26 ppm
> 26 ppm, < 43 ppm
> 43 ppm

J - Result is estimated due to a minor QA/QC problem (see report for specific explanation).
U - Analyte not detected at the quantitation limit.
D - Sample was diluted due to matrix interferences.
B - Nondetect due to laboratory blank contamination.

SPRING VALLEY OU-4
4710 Quebec Street Grid Sampling Data
(PRELIMINARY / UNVALIDATED)

Lot Number	Sample Type	Sample ID	Date Collected	Date Reviewed	Data Validated	PARAMETER Arsenic mg/kg	Qualifier
4710 Quebec Grid	soil	OU4-4710QS-150,90	2/2/2001	2/12/2001		5.70	
	soil	OU4-4710QS-130,110	2/2/2001	2/12/2001		20.8	
	soil	OU4-4710QS-130,90	2/2/2001	2/12/2001		3.52	
	soil	OU4-4710QS-130,70	2/2/2001	2/12/2001		17.2	
	soil	OU4-4710QS-110,130	2/2/2001	2/12/2001		12.5	
	soil	OU4-4710QS-110,110	2/2/2001	2/12/2001		25.3	
	soil	OU4-4710QS-110,90	2/2/2001	2/12/2001		27.2	
	soil	OU4-4710QS-110,70	2/2/2001	2/12/2001		49.4	
	soil	OU4-4710QS-110,50	2/2/2001	2/12/2001		42.7	
	soil	OU4-4710QS-90,150	2/2/2001	2/12/2001		17.2	
	soil	OU4-4710QS-90,130	2/2/2001	2/12/2001		5.38	
	soil	OU4-4710QS-90,110	2/2/2001	2/12/2001		35.1	
	soil	OU4-4710QS-90,90	2/2/2001	2/12/2001		10.4	
	soil	OU4-4710QS-90,50	2/2/2001	2/12/2001		5.13	
	soil	OU4-4710QS-90,30	2/2/2001	2/12/2001		10.6	
	soil	OU4-4710QS-70,150	2/2/2001	2/12/2001		3.52	
	soil	OU4-4710QS-70,130	2/2/2001	2/12/2001		7.98	
	soil	OU4-4710QS-70,110	2/2/2001	2/12/2001		20.0	
	soil	OU4-4710QS-70,70	2/2/2001	2/12/2001		15.9	
	soil	OU4-4710QS-70,50	2/2/2001	2/12/2001		56.3	
	soil	OU4-4710QS-70,30	2/2/2001	2/12/2001		7.46	
	soil	OU4-4710QS-70,10	2/2/2001	2/12/2001		8.03	
	soil	OU4-4710QS-50,130	2/2/2001	2/12/2001		6.16	
	soil	OU4-4710QS-50,110	2/2/2001	2/12/2001		19.6	
	soil	OU4-4710QS-50,90	2/2/2001	2/12/2001		30.7	
	soil	OU4-4710QS-50,70	2/2/2001	2/12/2001		30.8	
	soil	OU4-4710QS-50,50	2/2/2001	2/12/2001		6.58	
	soil	OU4-4710QS-50,30	2/2/2001	2/12/2001		9.74	
	soil	OU4-4710QS-30,110	2/2/2001	2/12/2001		6.82	
	soil	OU4-4710QS-30,90	2/2/2001	2/12/2001		39.1	
	soil	OU4-4710QS-30,70	2/2/2001	2/12/2001		38.6	
	soil	OU4-4710QS-30,50	2/2/2001	2/12/2001		6.97	
	soil	OU4-4710QS-10,90	2/2/2001	2/12/2001		41.5	
	soil	OU4-4710QS-10,70	2/2/2001	2/12/2001		12.5	

[ ] >13 ppm

J - Result is estimated due to a minor QA/QC problem (see report for specific explanation).
U - Analyte not detected at the quantitation limit.
D - Sample was diluted due to matrix interferences.
B - Nondetect due to laboratory blank contamination.

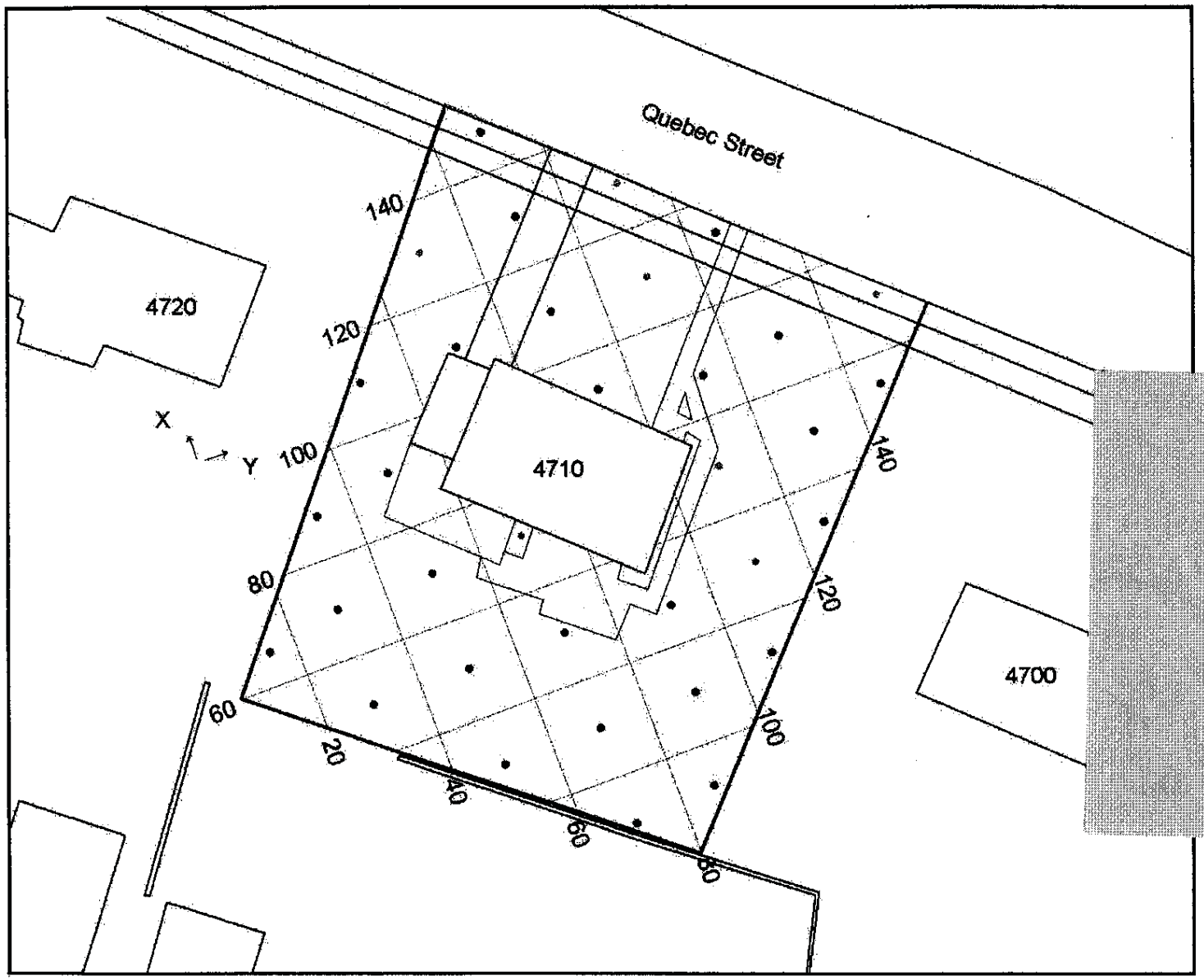


Figure 1-6
Grid Sampling Plan
4710 Quebec Street

Spring Valley Operable Unit 3
Washington D.C.

Legend

Property Line
Sample Points
< 13 ppm
> 13 ppm AND < 26 ppm
> 26 ppm
Roads/Residences
20ft Grid

Results given to Mr Curtis Bohlen over the phone on 2/1/02

Scale:	1 : 240
Created By:	Parsons ES
File:	Y:\Projects\Fed\Ulcos\sp\figs\sprfigs.APR
Date:	01/29/2001
Figure Number:	X-X
Page Number:	X-X

PARSONS ENGINEERING SCIENCE

DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MD 21203-1715

May 15, 2001

REPLY TO
ATTENTION OF
Programs and Project
Management Division

Mr. Geza Teleki
3819 48th Street
Washington, D.C. 20016

Dear Mr. Teleki:

Enclosed are the preliminary results of the arsenic sampling that we conducted on your property on February 7 and 8, 2001. These results have been validated in accordance with standards set by the U.S. Army Corps of Engineers and the U.S. Environmental Protection Agency (EPA). The results for your property are within the range of arsenic levels that are expected to occur in this area.

Please note that arsenic is a naturally occurring element that is widely distributed in the environment. Because of this, some arsenic is expected to be found in virtually all soil. This level is sometimes referred to as "background," and it varies from area to area. To ascertain the background level for your area, the EPA took soil samples in August and September 1999. The sample results showed that background levels of arsenic in the soil in your area ranges in value from 3.3 mg/kg to 18 mg/kg. The results for the samples we took from your property fall within this range.

If you have any questions regarding these results, please feel free to contact me at 410-962-6782.

Sincerely,

Patience N. Nwanna
Spring Valley OU4 Project Manager

Enclosure

Appendix 3

Appendix 3

While ROE language and notification have evolved over the years of the Spring Valley project, USACE has never intentionally sampled a property in Spring Valley without the property owner's knowledge and consent. The following attachments are provided in support of this USACE position:

- **Attachment O:** Signed Right-of-Entry for 3819 48th Street. Included in this attachment is the cover letter accompanying the ROE that was sent to the property owner for signature. It should be noted that neither the ROE nor the cover letter limited the planned sampling to just arsenic. It should also be noted that the ROE form signed by the property owner had not been updated before sending so is misdated as 2000 instead of 2001 like the cover letter. Regardless of this clerical error, the ROE was in effect for 18 months from the date of owner approval and, thus, was active at the time of AUES List sampling in February 2001.
- **Attachment P:** Signed ROE for 4625 Rockwood Parkway, dated May 25, 2000.
- **Attachment Q:** Signed ROE for 4633 Rockwood Parkway, dated September 10, 2000. Attached with this ROE is the letter sent by USACE showing its efforts to keep the property owner informed of the sampling plan for arsenic, which was the initial impetus for obtaining this ROE.
- **Attachment R:** Signed ROE for 4710 Quebec Street, dated May 22, 2000.
- **Attachment S:** USACE e-mail dated January 12, 2001 demonstrating USACE's plans for notifying property owners about impending sampling events. This e-mail also notes that the owner of 3819 48th Street was already aware of the planned sampling event.
- **Attachment T:** Letter dated February 5, 2001 to the owners of 4633 Rockwood Parkway informing them that in addition to the arsenic sampling, three surface samples from their property and 4625 Rockwood (another OU4 AUES residential property) will be "analyzed for a complete suite of contaminants….to verify that there are not elevated levels of other contaminants in this area."
- **Attachment U:** USACE e-mail dated February 6, 2001 acknowledging that the property owner of 4710 Quebec Street agreed to the USACE plan to conduct additional sampling on their property, and instructing that a telephone call be placed to the owner to explain the planned sampling. AUES List sampling was conducted on this property on February 8, 2001.
- **Attachment V:** Summary memorandum dated May 24, 2002 prepared by Parsons in follow-up to partnership discussions at the May 22, 2002 Partnering meeting. This memo describes the sampling activities at 3819 48th Street on February 7 and 8, 2001 and notes the presence of the property owner during sampling and the concerns he expressed. The description is supported by the logbook field notes made on those two dates.

3819 48th Street, NW.
Washington, DC 20016-2301

DEPARTMENT OF THE ARMY

RIGHT-OF-ENTRY

This Right-of-Entry sets forth the arrangements by which the United States Government (the "Government") will conduct certain operations relating to the investigation of the Camp American University (Spring Valley) site on the lot of the homeowner (s) whose signature (s) appear (s) below (the "Owner"). The Owner, by this instrument, in consideration of the potential assistance and advantages to be derived by the owner, does hereby grant to the Government a right-of-entry upon the following terms and conditions:

1. The Owner hereby grants to the Government the right to enter the lot located at the address identified above at any time during daylight hours of the investigation to inspect and survey the lot. The purpose of this right-of-entry is to permit the Government to perform surface and subsurface soil sampling. The investigation will include a physical walk-through of the lot, and a survey of the lot using such non-intrusive equipment as it determined appropriate by the Government. If intrusive measures are required to complete a satisfactory investigation, these shall be subject to the provisions of Paragraph 4 below.

2. The Owner may revoke this right-of-entry at any time by notice delivered to the Government at its Spring Valley Resident Office, 5201 Little Falls Road, NW., Washington, DC (behind Sibley Memorial Hospital), telefax No. (202) 686-3596. This right-of-entry shall expire without further action by the owner on the earlier of (a) completion of the investigation, or (b) 18 months from the date of execution of this MOU by the Owner. Owner will use its best efforts to notify the Government at any time during the investigation if owner will be away for an extended period of time.

3. The Government will use its best efforts to give the Owner at least 24 hours prior notice of the non-intrusive inspection, such notice to be delivered either by telephone, mail, or to the Owner's front door. Owner hereby grants the Government a right of ingress and egress to the lot for purposes of the non-intrusive inspection, provided, however, that entry into any enclosed structures shall occur only with the further permission of the Owner.

4. If the Government determines, in its best judgement, that an intrusive inspection of the Owner's lot is necessary and appropriate, the Government shall give the Owner at least 72 hours prior written notice of its determination with a plan or drawing showing where on the Owner's lot the Government proposes to conduct subsurface exploratory work, and the methods by which it proposes to conduct its exploration. Such methods may include, but not be limited to, surface and subsurface soil sampling, test borings, and the drilling of monitoring wells for ground water testing.

5. The Government shall promptly notify the Owner of the results of any inspection or investigation of Owner's lot. If the Government determines, based on such inspection or investigation, that it will be necessary to remove any buried materials or soil, the Government shall give the Owner at least 72 hours prior written notice of its determination with a plan or drawing showing where on the Owner's lot the Government proposes to conduct removal operations and the methods by which it proposes to conduct the removal work. The Government shall obtain the Owner's permission before beginning any removal operations.

6. Data gathered during any inspection of the lot by the Government, and any written summaries or evaluations of such data, shall promptly by made available for review and copying by the Owner or Owner's agents, subject to the Freedom of Information Act. However, the Owner will not need to make a formal, written Freedom of Information Act request to obtain these documents.

7. Without prejudice to any other rights the Owner may have, the Government is responsible, in accordance with applicable law, for the acts and omissions of its employees and agents which cause injuries to persons or damages to property, including any claims arising from such injuries or damages, caused by or arising from the inspections or removal actions, unless such injuries or losses are caused by the Owner's negligence. The Government represents that funds have generally been available for such purposes and that it will seek on an annual basis from Congress such funds as may be required for these purposes.

8. The Government may use private contractors to assist in or conduct the inspections, tests, and other response actions. The Government will ensure that independent contractors participating in the investigation and possible response actions on the Owner's property are required to carry levels of insurance coverage that are appropriate for the activities to be conducted on the property. The Owner shall have the right to review and copy, at the Government's expense, any contract between the Government and such private contractors.

9. All tools, equipment, and other property taken upon the lot by the Government shall remain the property of the Government and shall be removed by the Government as soon as reasonably possible with the completion of the work covered by this right-of-entry.

10. The Government shall have the right to patrol the lot during the period of this right-of-entry.

11. Subject to the availability of funds, the Government shall, at its sole election, either (1) restore the premises to the same condition as that existing at the time of entering, or (2) pay to the Owner a sum of money representing the actual cost of restoration. Interim restoration will be considered on a case by case basis if requested by the Owner. The Government represents that funds have generally been available for such purposes and that it will seek on an annul basis from Congress such funds as may be required for these purposes.

12. Nothing in this instrument shall be deemed to waive any rights of any kinds the Owner now has, or may hereinafter have, to assert any claim against the Government or any other person or entity, including, without limitation, claims with respect to any and all past events and activities of the Government or of any other person or entity.

WITNESS MY HAND AND SEAL this 5th day of February 2000.

(OWNER)

GEZA TELEKI
(OWNER)

3819 48th St, NW
(ADDRESS)

202 362-1993
(TELEPHONE)

THE UNITED STATES OF AMERICA

JAMES S. TURKEL
Chief, Real Estate Division
U.S. Army Corps of Engineers
Baltimore District
P.O. Box 1715, Baltimore, MD 21203-1715
Telephone: (410) 962-3000

DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U. S. ARMY CORPS OF ENGINEERS
P. O. BOX 1715
BALTIMORE, MD 21203-1715

REPLY TO
ATTENTION OF

January 30, 2001

Real Estate Division
Special Projects Support Branch

Ms. Geza Teleki
3819 48th Street, NW.
Washington, DC 20016-2301

Dear Ms. Geza:

As you may be aware, the Baltimore District, U.S. Army Corps of Engineers has been conducting an exhaustive investigation of the Spring Valley area of Washington, DC to determine the presence of possible buried munitions, remnants thereof, or associated materiel. These efforts have focused on a formerly used defense site known as American University Experiment Station/Camp Leach.

Although the initial Spring Valley Project field work was concluded in 1996, document reviews, analyses and recent additional field work have occurred in order to ensure every possible precaution is taken to protect residents of the area and the environment. Based on these efforts, we have determined it necessary to conduct limited additional investigations in the vicinity of our recent field work. Your property is one of those on which we would like to conduct additional investigations. This investigation will include an additional survey of your property to take surface soil samples and possibly subsurface soil samples. All work will be coordinated in advance with you.

Weather permitting, we anticipate the investigation will begin in February. To do so, we first need your signature on the enclosed Right of Entry. This Right of Entry is the same document that has been used during previous investigations in the Spring Valley area. Please sign and return two copies of the Right of Entry to this office in the envelope provided. Once the agreement has been fully executed by the government, a copy will be returned to you for your records.

We greatly appreciate your cooperation in allowing us to proceed with this important work. If you have any questions at any time, or would like one of our representatives to meet with you to discuss this matter, please feel free to call either Major Brian Plaisted at 202-686-3359 or Ms. Melissa Jones at 410-962-5166.

Sincerely,

SIGNED.

James S. Turkel
Chief, Real Estate Division

DEUTSCH/CENAB-RE-S/md/20994

PENN/CENAB-RE

TURKEL/CENAB-RE

Enclosures

1526 0806

March 26, 2001

Real Estate Division
Special Projects Support Branch

Mr. Geza Teleki
3819 48th Street, NW.
Washington, DC 20016-2301

Dear Mr. Teleki:

Enclosed is a fully executed copy of Department of the Army Right-of-Entry for Survey and Exploration in connection with the Camp American University (Spring Valley), Washington, DC.

Thank you for your cooperation. If you have any questions, please feel free to call either Major Brian Plaisted at (202) 686-3359 or Ms. Melissa Jones at (410) 962-5166.

Sincerely,

James S. Turkel
Chief, Real Estate Division

Enclosure

me

DEUTSCH/CENAB-RE-S/md/20994

PENN/CENAB-RE

TURKEL/CENAB-RE

4625 Rockwood Parkway, NW.
Washington, DC 20016-3206

DEPARTMENT OF THE ARMY

RIGHT-OF-ENTRY

This Right-of-Entry sets forth the arrangements by which the United States Government (the "Government") will conduct certain operations relating to the investigation of the Camp American University (Spring Valley) site on the lot of the homeowner (s) whose signature (s) appear (s) below (the "Owner"). The Owner, by this instrument, in consideration of the potential assistance and advantages to be derived by the owner, does hereby grant to the Government a right-of-entry upon the following terms and conditions:

1. The Owner hereby grants to the Government the right to enter the lot located at the address identified above at any time during daylight hours of the investigation to inspect and survey the lot. The purpose of this right-of-entry is to permit the Government to perform surface and subsurface soil sampling. The investigation will include a physical walk-through of the lot, and a survey of the lot using such non-intrusive equipment as it determined appropriate by the Government. If intrusive measures are required to complete a satisfactory investigation, these shall be subject to the provisions of Paragraph 4 below.

2. The Owner may revoke this right-of-entry at any time by notice delivered to the Government at its Spring Valley Resident Office, 5201 Little Falls Road, NW., Washington, DC (behind Sibley Memorial Hospital), telefax No. (202) 686-3596. This right-of-entry shall expire without further action by the owner on the earlier of (a) completion of the investigation, or (b) 18 months from the date of execution of this MOU by the Owner. Owner will use its best efforts to notify the Government at any time during the investigation if owner will be away for an extended period of time.

3. The Government will use its best efforts to give the Owner at least 24 hours prior notice of the non-intrusive inspection, such notice to be delivered either by telephone, mail, or to the Owner's front door. Owner hereby grants the Government a right of ingress and egress to the lot for purposes of the non-intrusive inspection, provided, however, that entry into any enclosed structures shall occur only with the further permission of the Owner.

4. If the Government determines, in its best judgement, that an intrusive inspection of the Owner's lot is necessary and appropriate, the Government shall give the Owner at least 72 hours prior written notice of its determination with a plan or drawing showing where on the Owner's lot the Government proposes to conduct subsurface exploratory work, and the methods by which it proposes to conduct its exploration. Such methods may include, but not be limited to, surface and subsurface soil sampling, test borings, and the drilling of monitoring wells for ground water testing. The Government shall obtain the Owner's written permission before beginning any intrusive inspection.

5. The Government shall promptly notify the Owner of the results of any inspection or investigation of Owner's lot. If the Government determines, based on such inspection or investigation, that it will be necessary to remove any buried materials, the Government shall give the Owner at least 72 hours prior written notice of its determination with a plan or drawing showing where on the owner's lot the Government proposes to conduct removal operations and the methods by which it proposes to conduct the removal work. The Government shall obtain the Owner's permission before beginning any removal operations.

6. Data gathered during any inspection of the lot by the Government, and any written summaries or evaluations of such data, shall promptly be made available for review and copying by the Owner's agents, subject to make a Freedom of Information Act. However, the Owner will not need to make a formal, written Freedom of Information Act request to obtain these documents.

7. Without prejudice to any other rights the Owner may have, the Government is responsible, in accordance with applicable law, for the acts and omissions of its employees and agents which cause injuries to persons or damages to property, including any claims arising from such injuries or damages, caused by or arising from the inspections or removal actions, unless such injuries or losses are caused by the Owner's negligence. The Government represents that funds have generally been available for such purposes and that it will seek on an annual basis from Congress such funds as may be required for these purposes.

8. The Government may use private contractors to assist in or conduct the inspections, tests, and other response actions. The Government will ensure that independent contractors participating in the investigation and possible response actions on the Owner's property are required to carry levels of insurance coverage that are appropriate for the activities to be conducted on the property. The Owner shall have the right to review and copy, at the Government's expense, any contract between the Government and such private contractors.

9. All tools, equipment, and other property taken upon the lot by the Government shall remain the property of the Government and shall be removed by the Government as soon as reasonably possible consistent with the completion of the work covered by this right-of-entry.

10. The Government shall have the right to patrol the lot during the period of this right-of-entry.

11. Subject to the availability of funds, the Government shall, at its sole election, either (1) restore the premises to the same condition as that existing at the time of entering, or (2) pay to the Owner a sum of money representing the actual cost of restoration. Interim restoration will be considered on a case by case basis if requested by the Owner. The Government represents that funds have generally been available for such purposes and that it will seek on an annual basis from Congress such funds as may be required or these purposes.

12. Nothing in this instrument shall be deemed to waive any rights of any kinds the Owner now has, or may hereinafter have, to assert any claim against the Government or any other person or entity, including, without limitation, claims with respect to any and all past events and activities of the Government or of any other person or entity.

WITNESS MY HAND AND SEAL this 25 day of May 2000.

p.p. Jodi Praf
(OWNER)

(OWNER)

4625 Rockwood Pkwy, NW
(ADDRESS)

202 - 364 6590
(TELEPHONE)

THE UNITED STATES OF AMERICA

James S Turkel
JAMES S. TURKEL
Chief, Real Estate Division
U.S. Army Corps of Engineers
Baltimore District
P.O. Box 1715, Baltimore, MD 21203-1715
Telephone: (410) 962-3000

DEPARTMENT OF THE ARMY

RIGHT-OF-ENTRY

This Right-of-Entry sets forth the arrangements by which the United States Government (the "Government") will conduct certain operations relating to the investigation of the Camp American University (Spring Valley) site on the lot of the homeowner (s) whose signature (s) appear (s) below (the "Owner"). The Owner, by this instrument, in consideration of the potential assistance and advantages to be derived by the owner, does hereby grant to the Government a right-of-entry upon the following terms and conditions:

1. The Owner hereby grants to the Government the right to enter the lot located at the address identified above at any time during daylight hours of the investigation to inspect and survey the lot. The purpose of this right-of-entry is to permit the Government to confirm the absence of buried munitions, remnants thereof, and associated material. The investigation will include a physical walk-through of the lot, and a survey of the lot using such non-intrusive equipment as it determined appropriate by the Government. This non-intrusive equipment may include a magnetometer, a ground conductivity meter, and ground penetrating radar. If intrusive measures are required to complete a satisfactory investigation, these shall be subject tot he provisions of Paragraph 4 below.

2. The Owner may revoke this right-of-entry at any time by notice delivered to the Government at its Spring Valley Resident Office, 5201 Little Falls Road, NW., Washington, DC (behind Sibley Memorial Hospital), telefax No. (202) 686-3596. This right-of-entry shall expire without further action by the owner on the earlier of (a) completion of the investigation, or (b) 18 months from the date of execution of this MOU by the Owner. Owner will use its best efforts to notify the Government at any time during the investigation if owner will be away for an extended period of time.

3. The Government will use its best efforts to give the Owner at least 24 hours prior notice of the non-intrusive inspection, such notice to be delivered either by telephone, mail, or to the Owner's front door. Owner hereby grants the Government a right of ingress and egress to the lot for purposes of the non-intrusive inspection, provided, however, that entry into any enclosed structures shall occur only with the further permission of the Owner.

4. If the Government determines, in its best judgement, that an intrusive inspection of the Owner's lot is necessary and appropriate, the Government shall give the Owner at least 72 hours prior written notice of its determination with a plan or drawing showing where on the Owner's lot the Government proposes to conduct subsurface exploratory work, and the methods by which it proposes to conduct its exploration. Such methods may include, but not be limited to, surface and subsurface soil sampling, test borings for the purpose of subsurface magnetometer equipment readings, and the drilling of monitoring wells for ground water testing. The Government shall obtain the Owner's written permission before beginning any intrusive inspection.

5. The Government shall promptly notify the Owner of the results of any inspection or investigation of Owner's lot. If the Government determines, based on such inspection or investigation, that it will be necessary to remove any buried materials, the Government shall give the Owner at least 72 hours prior written notice of its determination with a plan or drawing showing where on the owner's lot the Government proposes to conduct removal operations and the methods by which it proposes to conduct the removal work. The Government shall obtain the Owner's permission before beginning any removal operations.

6. Data gathered during any inspection of the lot by the Government, and any written summaries or evaluations of such data, shall promptly be made available for review and copying by the Owner's agents, subject to make a Freedom of Information Act. However, the Owner will not need to make a formal, written Freedom of Information Act request to obtain these documents.

7. Without prejudice to any other rights the Owner may have, the Government is responsible, in accordance with applicable law, for the acts and omissions of its employees and agents which cause injuries to persons or damages to property, including any claims arising from such injuries or damages, caused by or arising from the inspections or removal actions, unless such injuries or losses are caused by the Owner's negligence. The Government represents that funds have generally been available for such purposes and that it will seek on an annual basis from Congress such funds as may be required for these purposes.

8. The Government may use private contractors to assist in or conduct the inspections, tests, and other response actions. The Government will ensure that independent contractors participating in the investigation and possible response actions on the Owner's property are required to carry levels of insurance coverage that are appropriate for the activities to be conducted on the property. The Owner shall have the right to review and copy, at the Government's expense, any contract between the Government and such private contractors.

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10. The Government shall have the right to patrol the lot during the period of this right-of-entry.

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12. Nothing in this instrument shall be deemed to waive any rights of any kinds the Owner now has, or may hereinafter have, to assert any claim against the Government or any other person or entity, including, without limitation, claims with respect to any and all past events and activities of the Government or of any other person or entity.

WITNESS MY HAND AND SEAL this 10th day of September 2000.

(OWNER)

(OWNER)

4633 Rockwood Parkway, NW
Washington DC 20016
(ADDRESS)

202-362-1964
(TELEPHONE)

THE UNITED STATES OF AMERICA

JAMES S. TURKEL
Chief, Real Estate Division
U.S. Army Corps of Engineers
Baltimore District
P.O. Box 1715, Baltimore, MD 21203-1715
Telephone: (410) 962-3000

DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MD 21203-1715

REPLY TO
ATTENTION OF
Programs and Project
Management Division

Dear Resident,

I have enclosed a summary sheet detailing the plans for the arsenic sampling to be conducted on your property. Susan McQuilkin will call to coordinate the specific dates for the sampling activities. Please sign below to allow us to conduct the sampling. The signed copy can be returned in the enclosed envelope.

If you have any questions on this matter, please feel free to contact Susan McQuilkin at (703) 218-1093.

Sincerely,

Brian D. Plaisted
Major, Corps of Engineers
Deputy District Engineer
for Spring Valley

Enclosure

Property Owner Approval

I have reviewed the attached summary sheet outlining the plans for the arsenic sampling to take place on my property. I approve of the implementation of these plans.

Signed _____

Printed Name Scott Greenberg Cynthia Welsh

Property 4633 Rockwood Pkwy, NW

4710 Quebec Street, NW.
Washington, DC 20016-3227

DEPARTMENT OF THE ARMY

RIGHT-OF-ENTRY

This Right-of-Entry sets forth the arrangements by which the United States Government (the "Government") will conduct certain operations relating to the investigation of the Camp American University (Spring Valley) site on the lot of the homeowner (s) whose signature (s) appear (s) below (the "Owner"). The Owner, by this instrument, in consideration of the potential assistance and advantages to be derived by the owner, does hereby grant to the Government a right-of-entry upon the following terms and conditions:

1. The Owner hereby grants to the Government the right to enter the lot located at the address identified above at any time during daylight hours of the investigation to inspect and survey the lot. The purpose of this right-of-entry is to permit the Government to perform surface and subsurface soil sampling. The investigation will include a physical walk-through of the lot, and a survey of the lot using such non-intrusive equipment as it determined appropriate by the Government. If intrusive measures are required to complete a satisfactory investigation, these shall be subject to the provisions of Paragraph 4 below.

2. The Owner may revoke this right-of-entry at any time by notice delivered to the Government at its Spring Valley Resident Office, 5201 Little Falls Road, NW., Washington, DC (behind Sibley Memorial Hospital), telefax No. (202) 686-3596. This right-of-entry shall expire without further action by the owner on the earlier of (a) completion of the investigation, or (b) 18 months from the date of execution of this MOU by the Owner. Owner will use its best efforts to notify the Government at any time during the investigation if owner will be away for an extended period of time.

3. The Government will use its best efforts to give the Owner at least 24 hours prior notice of the non-intrusive inspection, such notice to be delivered either by telephone, mail, or to the Owner's front door. Owner hereby grants the Government a right of ingress and egress to the lot for purposes of the non-intrusive inspection, provided, however, that entry into any enclosed structures shall occur only with the further permission of the Owner.

4. If the Government determines, in its best judgement, that an intrusive inspection of the Owner's lot is necessary and appropriate, the Government shall give the Owner at least 72 hours prior written notice of its determination with a plan or drawing showing where on the Owner's lot the Government proposes to conduct subsurface exploratory work, and the methods by which it proposes to conduct its exploration. Such methods may include, but not be limited to, surface and subsurface soil sampling, test borings, and the drilling of monitoring wells for ground water testing. The Government shall obtain the Owner's written permission before beginning any intrusive inspection.

5. The Government shall promptly notify the Owner of the results of any inspection or investigation of Owner's lot. If the Government determines, based on such inspection or investigation, that it will be necessary to remove any buried materials, the Government shall give the Owner at least 72 hours prior written notice of its determination with a plan or drawing showing where on the owner's lot the Government proposes to conduct removal operations and the methods by which it proposes to conduct the removal work. The Government shall obtain the Owner's permission before beginning any removal operations.

6. Data gathered during any inspection of the lot by the Government, and any written summaries or evaluations of such data, shall promptly be made available for review and copying by the Owner's agents, subject to make a Freedom of Information Act. However, the Owner will not need to make a formal, written Freedom of Information Act request to obtain these documents.

7. Without prejudice to any other rights the Owner may have, the Government is responsible, in accordance with applicable law, for the acts and omissions of its employees and agents which cause injuries to persons or damages to property, including any claims arising from such injuries or damages, caused by or arising from the inspections or removal actions, unless such injuries or losses are caused by the Owner's negligence. The Government represents that funds have generally been available for such purposes and that it will seek on an annual basis from Congress such funds as may be required for these purposes.

8. The Government may use private contractors to assist in or conduct the inspections, tests, and other response actions. The Government will ensure that independent contractors participating in the investigation and possible response actions on the Owner's property are required to carry levels of insurance coverage that are appropriate for the activities to be conducted on the property. The Owner shall have the right to review and copy, at the Government's expense, any contract between the Government and such private contractors.

9. All tools, equipment, and other property taken upon the lot by the Government shall remain the property of the Government and shall be removed by the Government as soon as reasonably possible consistent with the completion of the work covered by this right-of-entry.

10. The Government shall have the right to patrol the lot during the period of this right-of-entry.

11. Subject to the availability of funds, the Government shall, at its sole election, either (1) restore the premises to the same condition as that existing at the time of entering, or (2) pay to the Owner a sum of money representing the actual cost of restoration. Interim restoration will be considered on a case by case basis if requested by the Owner. The Government represents that funds have generally been available for such purposes and that it will seek on an annual basis from Congress such funds as may be required or these purposes.

12. Nothing in this instrument shall be deemed to waive any rights of any kinds the Owner now has, or may hereinafter have, to assert any claim against the Government or any other person or entity, including, without limitation, claims with respect to any and all past events and activities of the Government or of any other person or entity.

WITNESS MY HAND AND SEAL this 22 day of May 2000.

_____	Curtis Bohler
(OWNER)	(OWNER)
_____	202-362-0094
(ADDRESS)	(TELEPHONE)

THE UNITED STATES OF AMERICA

James S. Turkel

JAMES S. TURKEL
Chief, Real Estate Division
U.S. Army Corps of Engineers
Baltimore District
P.O. Box 1715, Baltimore, MD 21203-1715
Telephone: (410) 962-3000

Hughes, Edward T NAB02

From: Plaisted, Brian D MAJ NAB02
Sent: Friday, January 12, 2001 11:10 AM
To: Jones, Melissa J NAB02; Deutsch, Marion NAB02
Cc: Rogers, Michael J NAB02; Reeser, Leland H NAB02; 'McQuilkin, Susan'
Subject: Additional ROEs for OU-4 Sampling

Melissa & Marion,

Attached is a spreadsheet with 6 additional properties in the vicinity of OU-4 where we will need to do sampling. For two of them I have the names of the property owners. Those property owners are aware of the sampling. I will be sending letters on Tuesday to the others explaining the details. I want to sample these with the additional sampling that we will do in February, so I would like to send out the ROEs in the next week or so. Thanks.

Brian Plaisted



OU-4 Phase 2.xls

Property	Name	Phone	Remarks
4900 Quebec	Roger Gerstenfeld		Check name spelling
4705 Quebec			
4711 Quebec			
3700 University Blvd			
3819 48th Street	Geza Teleki		Check name spelling
4900 Indian Lane			

DEPARTMENT OF THE ARMY
BALTIMORE DISTRICT, U.S. ARMY CORPS OF ENGINEERS
P.O. BOX 1715
BALTIMORE, MD 21203-1715

February 5, 2001

REPLY TO
ATTENTION OF
Programs and Project
Management Division

Mr. and Mrs. Scott Greenburg
4633 Rockwood Parkway, NW
Washington, DC 20016

Dear Mr. and Mrs. Greenburg,

This letter is to follow-up on my letter from December with the details of how we plan to conduct the additional sampling at your property. All six properties along Rockwood Parkway that border the university will be sampled over a 20-foot grid. A sample will be taken every 20 feet and analyzed for arsenic. In addition, at 4625 and 4633 Rockwood three surface sample locations will be analyzed for a complete suite of contaminants. This is to verify that there are not elevated levels of other contaminants in this area.

We began sampling at other properties on February 1, 2001. Susan McQuilkin from Parsons ES will be contacting you to set up a sampling date. I appreciate your patience in this matter. If you have questions regarding the sampling you can reach me at 202-686-3359.

Sincerely,

Brian D. Plaisted

Brian D. Plaisted
Major, U.S. Army
Deputy District Engineer
for Spring Valley

Hughes, Edward T NAB02

From: Plaisted, Brian D MAJ NAB02
Sent: Tuesday, February 06, 2001 10:41 AM
To: Reeser, Leland H NAB02
Subject: 4710 Quebec Street

Lan,

I got a call from Susan McQuilkin and Mrs. Bohlen from 4710 Quebec Street has approved the addtional sampling that we wanted, but she wanted to talk to some about the rationale for why the additional sampling is needed. Can you or one of your guys call her at 202-362-0094? Thanks.

Brian Plaisted

DRAFT

PARSONS

Memo

To: Major Peloquin, CENAB

From: Tom Bachovchin, Parsons

CC:

Date: 5/24/02

Re: 3819 48th Street Sampling

The following summarizes the sampling that was performed on Geza Teleki's property at 3819 48th Street.

Originally, this property was an OU-4 procedure, including surface quadrant composite sampling for arsenic only and a single boring for arsenic only. As described below, additional sampling was also performed.

Feb 7, 2001. James Taylor of Parsons arrives to place the boring. The proposed location was in the front yard based on the original OU-4 logic, i.e., a fill area if available. Our map (prior to the newer OU-5 info with detailed groundscars) at the time showed the only non cut area to be in the front yard. That's where we proposed to take it. However, using anomaly avoidance protocols, we could never find a clear area. Based on that and after conferring with Mr. Teleki who further explained that there was construction debris in that area, we placed it in the backyard where he wanted it. He pointed to a location he described as undisturbed, and that's where it went in.

James prepared to take the random surface samples, but Mr. Teleki had concerns about the surface soil 0-6 inch interval because he had brought in new topsoil for landscaping. James returned to the trailer and conferred with Maj. Plaisted and Lan Reeser (by phone) and the decision was made to sample 0-6 inches and 12-18 inches (see log book documentation of this situation). That is, for the 6 random sub-sample locations per quadrant, there would be a 0-6 inch sample and a 12-18 inch sample. The 0-6 and the 12-18 were taken from the same sub-sample location.

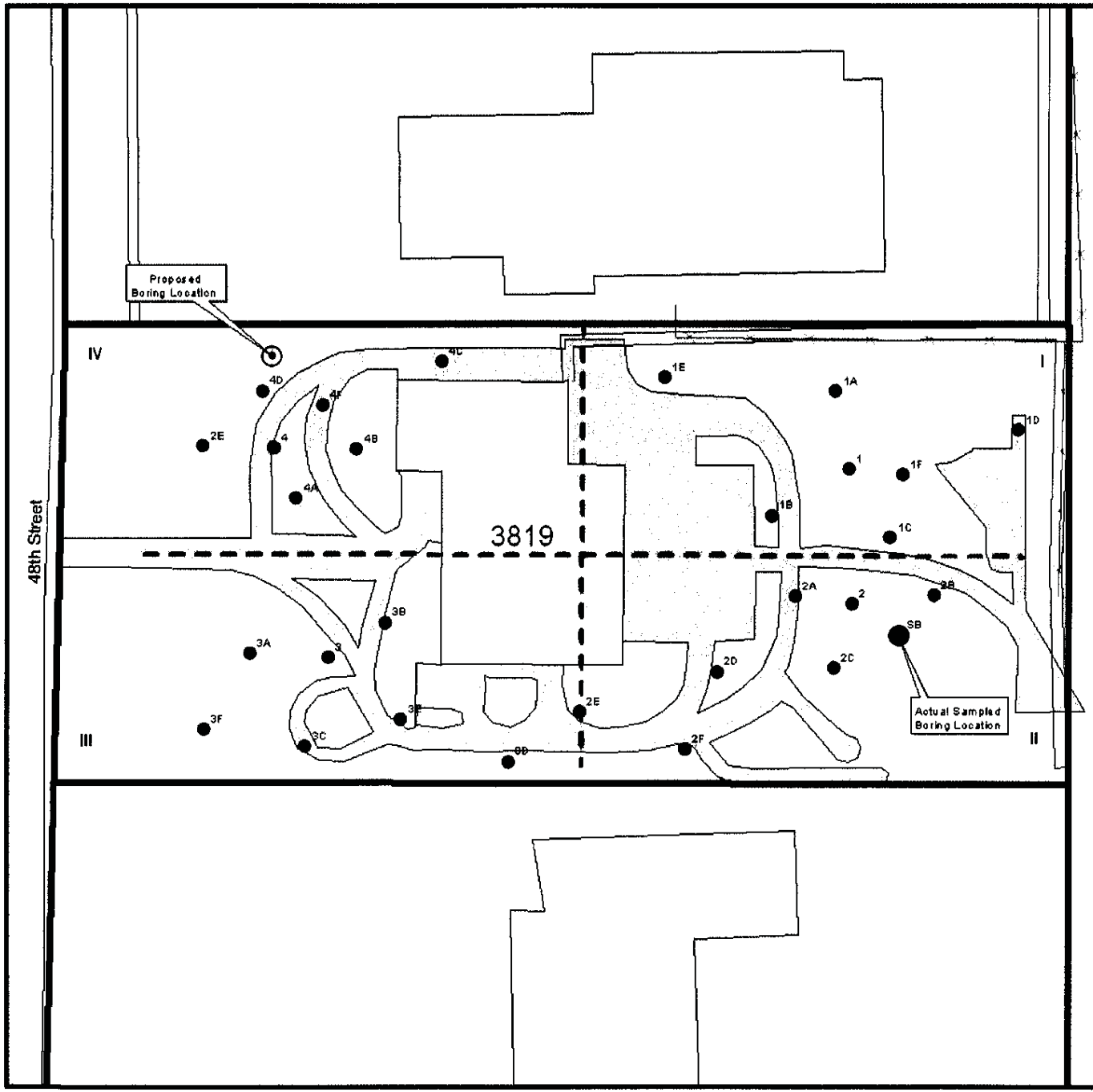
Feb 8, 2001. James placed the flags randomly in each quadrant to take the samples (for the OU-4 work, those sub-sample locations were surveyed, so we have

the exact locations plotted on the map). At some point Mr. Teleki had some input on some of those random locations and James accommodated his requests to move flags for whatever reason. For the 12-18 inch interval, anomaly avoidance protocols applied, so some of the sub-sample location flags had to be moved to find a clear spot. James is certain no flags were moved more than1-2 feet from the original locations. Mr. Teleki never complained or indicated his concern with moved flags.

In addition to the standard OU-4 level sampling, this property was selected for the full AUES List sampling. On the same day, Feb 8th, James collected one sample from each of the 4 quadrants for the AUES List parameters. These were random locations with discrete samples collected at the 1-foot level. *Note that there is a slight error in the Final Report of Results for these recently sent to Jim Baron and copied to you. I mistakenly called these 12-18 inch samples. They were collected at the bottom of the 1-foot level (actually, with the amount of dirt, it is realistically a ~9-15 inch sample). I can clean this up when responding to the comments Jim has or when we firm up Frank's suggestions of further reviewing the relative toxicities or Stoichiometry, etc.*

Attachments:

Map
Log Book Field Notes



3819 48th St

Spring Valley Operable Unit 4
Washington D.C.

Legend

Borings
- Composite Sub-Sample Locations (One at 0-6" and one at 12-18")
- AUES List Sample (12")
- Subsurface Boring 6'
- Proposed Boring Location
- Retaining Wall
- Fence
- Roads
- Quadrant
- Buildings
- Parcels
- Walkway/Patio

N
W E
S

20 0 20 Feet

1 Inch = 20 feet

Scale:	1 : 200
Created By:	Parsons
File:	Y:\Projects\Fed\Usace\springva\springva.APR
Date:	05/22/2002
Figure Number:	X-X
Page Number:	X-X

PARSONS

Logbook Input on 3819 48th Street Sampling, Page 1

(34)

07 Feb. 01

0655 – on site at Feb. property. w/ staff dr at 4710 wk & 3819 48th St. HFA outside on site

0730 prepare sample kit & Ex equip

0810 called Mr. Lane about the grid layout for 4710 wk it turns out it is upside down need to redo it. Also talked to the Surveyors he will be on site at 0830. got a call from 4609. She informed me that the main gate ~~on site 4710 wk~~ informed the P.S. that we will be sampling today as soon as the survey is layed out on grid at 4710 wk.

0900 starting to clear living area at 3619. P.O. owner.

0910 got a refusal. P.O. informs us that our locate is in construction wobble.

0915 starting new location. move living locate to back of the house to an area that apparently has not been developed by the P.O.

0930 CPJA laying grid at 4710 wk. There is a question about grid numbering. Ed will investigate. O.C. Tech also on site to do the Surveys.

1010 We have cleared the living locate to 6' in native S.V. Soil.

1015 – 3819-SB-1
2:00 ½

Transcription of Logbook Notes for 3819 48th Street Sampling

Note: The writer is James Taylor of Parsons. As Sample Team Leader, he is overseeing 2 teams sampling concurrently. In various notations below, he is responding to cell phone calls from the other site and writing information about the other property.

This is a verbatim transcript of the logbook notes. Abbreviations are presented at the end of this transcript.

Page 24 **07 Feb. 01**

0655 Onsite at Fed. property, Will start SX at 4710 WL and 3819 48th Street. HFA contractor on site.

0730 Preparing sample kit and SX equip.

0810 Called Marianne about the grid layout for 4710WL; it turns out it is upside down, need to redo it. Also talked to the surveyors. He will be onsite at 0830. Got a call from 4604. She informed me that the main gates…are open (unfinished thought)

On site 4710 WL, informed the P.O. that we will be sampling today as soon as the surveyors layout the grid at 4710WL.

0900 Starting to clear boring location at 3819. P.O. home.

0910 Got a refusal. P.O. informs us that our locate is in construction rubble.

0925 Starting new location. Move boring location to back of the house to an area that apparently has not been developed by the P.O.

0930 CPJA laying grid at 4710 WL. There is a question about grid numbering. EC will investigate. Col. Tech. also onsite to do the borings.

1010 We have cleared the boring location to 6' in native S.V. soil.

1015 -3819-SB-1

R:100%

PID:0.0

Brown silty clay with some top soil.

1020 -SB-2 [Dup04]* JOT
PID:0.0
R:80%
Brown to yellow brown, with greenish tinge, silty sand with trace mica.

1025 -SB-3

R:100
P.D.: 0.0

Brown to yellow brown silty sand with some remnant structures.

1030 -SB-4

R: 100%
P.D.:0.0

SAA, probably native soil.

1035 -SB-5

P.D.:0.0
R:100%

Brown to rusty brown silty sand with mica

1040 -SB-6

P.D.:0.0
R:100%

SAA

1050 Have finished the subsurface SX at

3819 48th. Will head to 4710 WL to continue grid SX. Calling Marianne to clarify the grid coordinates.

1100 Collecting SX – OU4-3819-EB04.
Continuing to Sx perimeter grids. (at 4710 WL)

1155 GPL courier on site. JT heading over to AU trailer to deliver SX.

1220 Back at 4710WL. JT will start the additional non-grid sampling at 4710 WL with HFA.

1240 Collecting sample OU4-4710 WL-4-SB-A(1) – brown silty soil

1250 Starting to collect OU4-4710 WL-4-SB-B. The boring is located to the (right-if back is to house) left of the driveway when facing the lot from Woodway Lane.

1330 - -4-SB-B

brown silty soil

1400 Spoke to MAJ Plaisted (at Fed Prop trailer) about 3819 48th. P.O. expressed some reservations about sampling his top soil as opposed to a 1' below. MAJ P. suggested it might make sense to get the SX at a deeper level. Will call Lan R.-CENAB to confer.

1415 Conference call with Lan Reeser. → We

should take a 2nd composite at the 12-18" interval and composite for each quadrant (for arsenic—these aren't AUES samples). Essentially we will have 2 samples from each sub location within the quadrant, (0-6") and (12-18").

1420 Back at 4710 WL continuing to sample grids.

1700 Have ended sampling at 4710 WL for the day.

1730 OU4-4710 WL-EB01

1735 OU4-4710 WL-EB02

1810 JT leaving site for the day. We still have about 8.5 rows to complete the sampling at 4710 WL.

Signature of James Taylor

Page 28 **02/08/01**

0710 Arriving at Fed. Property. We will sample 3819 48th quadrant and non-quadrant samples and continue to sample 4710 WL. CPJA, Columbia Technologies and HFA onsite.

0745 Preparing sampling equipment. We will also be taking encore (special VOC sampling device) SX at 4710 QS and 3819 48th street.

0815 Heading out to site. EC/MH will collect (0-6") sample and JT with HFA and Col. Tech will collect the 12-18" samples.

0920 -3819-3 (12-18") (arsenic, not AUES)

brown to yellow brown silty to sandy clay with trace mica

0945 -3819-2 (12-18") (arsenic, not AUES)

brown to yellow brown silty sand

0946 P.O. outside talking to contractors (and James—this is not second hand info). He is concerned about his 6 year old son, 'cause his cat and dog died of cancer. He mentioned that the ridge between AU and UA is artificial and that it had been sampled and was hot. He is not impressed with the way the Army has handled this issue. He will call MAJ Plaisted in 3 weeks to check on the outcome of the sampling.

1010 3819-1 (12-18") (arsenic, not AUES)

brown to tan silty sand

1030 3819-4 (12-18") (arsenic, not AUES)

brown silty clay with quartz crystals

1040 Have finished the quadrant SX. EC/MH will head to 4710 WL and start SX and JT/HFA will do the non-quadrant SX. Col. Tech is done for the day.

1055 CPJA on site to survey flags.

1100 -3819-4 (12") (additional/other samples) (AUES Sample – realistically a 9"-15" sample)

brown silty sand to be sent to SWRI.

1135 -3819-3 (AUES Sample)

brown silty sand with mica

1205 -3819-2 (AUES Sample)

brown to yellow brown silty sand

1245 -3819-1 (AUES Sample)

brown to yellow brown silty sand

1255 Have finished sampling at 3819. Informed P.O. we were done SX. He will call MAJ P. and Susan M. with questions.

1410 Heading to 4710QS to collect additional samples/resample with encore samplers.

Page 30 **02/08/01**

1415 4710QS-4

brown silty soil

1430 4710 QS-3

brown to reddish brown silty soil

1445 4710 QS-1

B.S.S. with trace mica

1500 Have finished sampling at 4710 QS. Will head to 4710 WL to continue grid SX.

1630 Have finished sampling at 4710 WL for the day.

1616 EB02-

1620 EB04

1640 EC/MH off site for the day.

1710 JT heading to FedEx to ship samples to SWRI. Will call Tom B. to update him.

1740 Call Tom B. We reportedly got some perimeter hits at 4710 WL. Will head back to Fed. Property to get COCs for Tom. B. Will fax detailed sheets for Tom B. Printer at Fed. property malfunctioning. Will fax from home.

1748 Done for the day. JT leaving Fed property.

Signature of James Taylor

Abbreviations:

P.O. – Property Owner
PID – Photo ionization detector
R% - percent recovery
SAA – same as above
-3819-SB-1 – Partial sample ID
SX – Sample or Sampling
UA – University Avenue
EB – Equipment Blank

Parsons personnel:
EC – Eric Cheng
JT/JOT – James Taylor
MH – Monica Harrington
Susan M – Susan McQuilkin
Tom B – Tom Bachovchin

MAJ P. – Major Plaisted (USACE)
Lan R – Lan Reeser (USACE)
CPJA – Surveyors
HFA – Anomaly Aviodance/UXO Contractor
Columbia Technologies – Geoprobe Contractor
GPL – Haz Waste Lab Contractor
SWRI – Southwest Research Institute-Lab Contractor

Appendix 4

Appendix 4

This appendix responds to comments provided by DC DOH on 23 specific chemicals. Some of DC DOH chemical-specific comments were made in the main body of the report, and some were made in the attachments. USACE has reviewed each of the 23 compounds identified by DC DOH in its comments; the resulting USACE responses are grouped into the following categories:

- Ubiquitous Chemicals
- Hydrocarbons and Combustion Products
- Natural Products
- Analytical Artifacts
- Other Chemicals

USACE maintains the following with regard to the compounds in question:

- 8 of the 23 compounds are likely to have originated as naturally occurring contaminants, or have a large number of industrial sources not associated with the AUES.
- 9 of the 23 compounds are either hydrocarbon constituents of fuels or are products of incomplete wood combustion in fireplaces and woodstoves.
- 3 of the 23 compounds are components of food items.
- 2 of the 23 compounds are almost certainly analytical artifacts.
- The remaining compound is a potential contaminant in a widely used adhesive component.
- None of the 23 compounds listed are experimental chemical warfare agents, and only two could be a precursor compound to a potential agent. Finally, all chemicals are present at levels likely to correspond to a *de minimis* risk.

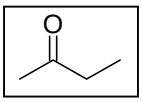
It is worth noting that USACE found several statements by DC DOH that mischaracterize the content of the standard references utilized to discuss the toxicity and potential health impacts of various compounds. The toxicological, production, and occurrence information used to address these chemical-specific comments by DC DOH in the following sections was collected primarily from the following sources:

- EPA Region III Risk-Based Concentration Table (October 2002 and April 2003). Available on line at http://www.epa.gov/reg3hwmd/risk/index.htm
- Hazardous Chemical Desk Reference (Sax, N. I.; Lewis, R. J., Van Nostrand Reinhold, NY, 1987
- Merck Index, (Merck & Co., Inc., Whitehouse Station, NJ)
- EPA, Office of Pollution Prevention and Toxics, Chemical Fact Sheets. Available on line at http://www.epa.gov/opptintr/chemfact/

Ubiquitous Chemicals

Of the 23 compounds listed in DC DOH's Tab B, 8 are likely either to have originated as naturally occurring chemicals or to have large potential sources not associated with the AUES. Furthermore, these chemicals appear likely to be ubiquitous contaminants in an urban residential environment.

2-Butanone

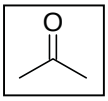


2-Butanone (CAS Registry No. 78-93-3), also known as Methyl Ethyl Ketone (MEK), occurs in the environment at low levels as a natural product (produced by some trees and found in small amounts in some fruits and vegetables). It occurs naturally and has been found in a number of foods and beverages, including Swiss cheese, cream, barley, bread, honey, oranges, black tea, rum, non-alcoholic beverages, and ice cream. It is also released to the air from car and truck exhausts. 2-Butanone is produced in large quantities for use in paints and other coatings, in adhesives, and as a cleaning agent. It is also found in cigarette smoke. Annual production in the United States in the late 1980s was on the order of 500-700 million pounds.

Tab B in the DC DOH report comments that 2-butanone is "toxic by ingestion and dermal, affects peripheral nervous system," citing *Hazardous Chemical Desk Reference* (Sax, N. I.; Lewis, R. J., Van Nostrand Reinhold, New York, 1987). This statement by DC DOH mischaracterizes the content of that reference. A complete reading of Sax and Lewis shows that 2-butanone is "moderately toxic by ingestion, skin contact, and intraperitoneal routes." The moderate toxicity is reflected in EPA Region III's risk-based concentration for residential soil. 2-Butanone was detected at levels ranging from 0.003 to 0.030 mg/kg at the OU4 residential properties, whereas EPA Region III has established a risk-based concentration for residential soil at 46,900 mg/kg. Because 2-butanone is a non-carcinogen, USACE screened the concentrations detected at OU4 using an adjusted risk-based concentration of 4,600 mg/kg.

2-Butanone is not listed on the AUES list of chemicals, and has never been considered either an experimental chemical warfare agent or an agent precursor compound. It is used extensively in industry and is potentially of natural origin. Given its use in consumer products, it is likely to be a ubiquitous contaminant in an urban residential environment.

Acetone



Acetone (CAS Registry No. 67-64-1) is a manufactured chemical that is also found naturally in the environment. It occurs naturally in plants and trees at low concentrations. Low levels of acetone are normally present in the body from the breakdown of fat; the body can use it in normal processes to make sugar and fat. It is present in vehicle exhaust, tobacco smoke, and landfill sites. Acetone is used to make plastic, fibers, drugs, and other chemicals. It is also sold commercially as a solvent and in such consumer products as nail polish remover. The reported total production volume of acetone in the United States was 2.3 billion pounds in 1990. Industrial processes contribute more acetone to the environment than natural processes.

Acetone was detected at levels ranging from 0.027 to 0.120 mg/kg, whereas EPA Region III has established a risk-based concentration for residential soil at 7,800 mg/kg. Because acetone is a non-carcinogen, USACE screened the concentrations detected at OU4 using an adjusted risk-based concentration of 780 mg/kg.

Acetone is not listed on the AUES list of chemicals and has never been considered an experimental chemical warfare agent, although it can be an agent precursor compound. It is used extensively in industry and is potentially of natural origin. Given its use in consumer products, it is likely to be a ubiquitous contaminant in an urban residential environment.

Carbon Disulfide

Carbon disulfide (CS_2, CAS Registry No. 75-15-0) is a natural product of anaerobic biodegradation. It is also used to manufacture viscose rayon, cellophane, carbon tetrachloride, dyes, and rubber. Some solvents, waxes, and cleaners contain carbon disulfide. It is also used as an insecticide. In 1985, commercial production was estimated to be 315 million pounds.

Carbon disulfide was detected at levels ranging from 0.008 to 0.170 mg/kg, whereas EPA Region III has established a risk-based concentration for residential soil at 7,800 mg/kg. Because carbon disulfide is a non-carcinogen, USACE screened the concentrations detected at OU4 using an adjusted risk-based concentration of 780 mg/kg.

Carbon disulfide is listed on the AUES list of chemicals, but it has never been considered either an experimental chemical warfare agent or an agent precursor compound. It is used extensively in industry, is potentially of natural origin, and is likely to be a ubiquitous contaminant in an urban residential environment.

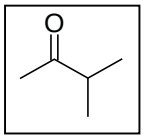
Chloromethane

Chloromethane (CH_3Cl, CAS Registry No. 74-87-3), also known as methyl chloride, is both an anthropogenic and naturally occurring chemical. Anthropogenic sources include industrial production, polyvinyl chloride burning, and wood burning; natural sources include the oceans, microbial fermentation, and biomass fires (e.g., forest fires, grass fires). Other sources of exposure to methyl chloride include cigarette smoke, polystyrene insulation, aerosol propellants, and chlorinated swimming pools. Chloromethane is produced industrially; 994 million pounds were produced in 1994.

Chloromethane was detected at levels ranging from 0.001 to 0.007 mg/kg, whereas EPA Region III has established a risk-based concentration for residential soil at 49 mg/kg. Because chloromethane is a carcinogen, USACE screened the concentrations detected at OU4 using an unadjusted risk-based concentration of 49 mg/kg. (Note: In 2003, the EPA eliminated the risk-based concentration for chloromethane in soil.)

Chloromethane is not listed on the AUES list of chemicals and has never been considered either an experimental chemical warfare agent or an agent precursor compound. It is used extensively in industry, is potentially of natural origin, and is likely to be a ubiquitous contaminant in an urban residential environment.

3-Methyl-2-Butanone

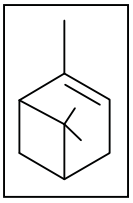


3-methyl-2-butanone (CAS Registry No. 563-80-4) is also known as Methyl Isopropyl Ketone (MIPK). The analysis indicates that there is sufficient evidence to make a tentative identification of MIPK as present in some of the samples. MIPK is used as an intermediate in the synthesis of other chemicals and as an industrial solvent. It may also find some use as a solvent in specialty coatings applications, such as nitrocellulose lacquers. It can be used as an MEK substitute. No production data for MIPK were readily available.

The MIPK concentration was estimated at levels ranging from 0.002 to 0.040 mg/kg; EPA Region III has not established a risk-based concentration for MIPK. Given its structural similarity to MEK, it likely corresponds to a *de minimis* risk.

MIPK is not listed on the AUES list of chemicals and has never been considered either an experimental chemical warfare agent or an agent precursor compound. It is used extensively in industry and is likely to be a ubiquitous contaminant in an urban residential environment.

2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene



2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene (CAS Registry No. 80-56-8) is also known as α-pinene. The analysis indicates that there is sufficient evidence to make a tentative identification of α-pinene as present in some of the samples. α-Pinene is a monoterpene that is a major component of wood turpentine; it is obtained from the resinous sap of pine trees by steam distillation. Terpenes are widely used as solvents for paints, protective coatings, polishes, and waxes; flavorings; deodorants; and medicines (as in the treatment of acne). α-Pinene is continuously emitted into the atmosphere from all plants, mainly from conifers. Estimates of biogenic and anthropogenic emissions indicate that all human exposure to α-pinene is essentially from biogenic sources. No production data for α-pinene were readily available.

The α-pinene concentration was estimated at levels ranging from 0.010 to 0.080 mg/kg; EPA Region III has not established a risk-based concentration for α-pinene. Based on toxicity data for laboratory mammals (LD_{50} of 3,700 mg/kg), this concentration is not anticipated to present any adverse health effects. In addition, α-pinene is recognized as a food additive by the U.S. Food and Drug Administration.

α-Pinene is not listed on the AUES list of chemicals, although turpentine is listed (α-pinene is a component of turpentine). α-Pinene has never been considered either an experimental chemical warfare agent or an agent precursor compound. It is of natural origin, is used extensively in industry, and is likely to be a ubiquitous contaminant in an urban residential environment.

Dichlorodifluoromethane

The DC DOH's Tab B lists "dichlorofluoromethane," whereas the USACE report indicates that dichlorodifluoromethane (CCl_2F_2, CAS Registry No. 75-71-8) was found in samples from the site. Dichlorodifluoromethane is also known as CFC-12. Because it is an ozone-depleting chemical, production of CFC-12 was halted on 1 January 1996. However, prior to being banned, it was used as a refrigerant in domestic and automobile air conditioners, aerosol propellant, foam-blowing agent, and solvent, as well as in the manufacture of fluoropolymers. Peak annual production in the United States was over 500 million pounds.

The CFC-12 concentration was estimated at levels ranging from 0.067 to 0.160 mg/kg; EPA Region III has established a risk-based concentration for CFC-12 in residential soil at 16,000 mg/kg. Because CFC-12 is a non-carcinogen, USACE screened the concentrations detected at OU4 using an adjusted risk-based concentration of 1,600 mg/kg. As an indicator of the non-toxic nature of CFC-12, it is noted that existing stocks continue to be used as propellants in bronchial dilator pharmaceutical preparations.

CFC-12 is not listed on the AUES list of chemicals and has never been considered either an experimental chemical warfare agent or an agent precursor compound. It is almost certainly unrelated to AUES activities; the compound was only discovered in the late 1920s and the first patent application for the manufacture of CFC-12 was filed on 5 April 1930 (Midgley et al., *Manufacture of aliphatic fluoro compounds*, U.S. Patent 1,930,129). It has been used extensively in industry and consumer products and is likely to be a ubiquitous contaminant in an urban residential environment.

Carbonyl Sulfide

Carbonyl sulfide (COS, CAS Registry No. 463-58-1) is also known as carbon oxide sulfide. The analysis indicates that there is sufficient evidence to make a tentative identification of carbonyl sulfide as present in some of the samples. Carbonyl sulfide is a gas at normal temperatures and pressures. It is used as an intermediate in the synthesis of organic sulfur compounds and alkyl carbonates. The compound can be released to the atmosphere naturally from marshes, soils, and deciduous and coniferous trees. It can also be released to the ambient environment as a result of the combustion of sulfur-containing fuels. Anthropogenic emissions have been estimated to be less than one-third of natural emissions.

The carbonyl sulfide concentration was estimated at levels ranging from 0.006 to 0.010 mg/kg; EPA Region III has not established a risk-based concentration for carbonyl sulfide. Based on data summarized by the EPA's Office Pollution Prevention and Toxics (1994), this concentration in soil is not anticipated to present any adverse health effects.

Carbonyl sulfide is not listed on the AUES list of chemicals and has never been considered either an experimental chemical warfare agent or an agent precursor compound. It is used extensively in industry, is potentially of natural origin, and is likely to be a ubiquitous contaminant in an urban residential environment.

Hydrocarbons and Combustion Products

Of the 23 compounds listed in DC DOH's Tab B, 9 are either hydrocarbon constituents of fuels—such as gasoline (octane, *E*-2-octene, 3-methyleneheptane)—or are aldehydes (acetaldehyde, hexanal, 5-methylhexanal, octanal, pentanal, 14 octadecenal). Aldehydes are formed as a result of incomplete wood combustion in fireplaces, woodstoves, forest fires, and wildfires. They are also produced during pulp and paper production and emitted from stationary internal combustion engines and turbines, vehicle exhaust, and wastewater processing. The analysis indicates that there is sufficient evidence to make a tentative identification of these compounds as present in some of the samples.

These compounds are not listed on the AUES list of chemicals and they have never been considered either an experimental chemical warfare agent or an agent precursor compound. They are mostly of natural origin and used to a minor degree in industry; some are components of gasoline and other fuels. They are likely to be a ubiquitous contaminant in an urban residential environment. Estimated concentrations are given in Table App.4-1.

Table App.4-1: Estimated Concentrations of Hydrocarbons and Combustion Products

Compound	Synonym	CAS Registry No.	Estimated concentration (µg/kg)
Octane		111-65-9	8-20
E-2-octene	Trans-2-octene	13389-42-9	7-60
3-methyleneheptane	2-ethyl-1-hexene	1632-16-2	6-10
Acetaldehyde		75-07-0	4-40
Hexanal		66-25-1	10-100
5-methylhexanal		1860-39-5	3-10
Octanal		124-13-0	4-20
Pentanal isomer 1		NA	3-30
14 octadecenal		NA	180

In Tab B, DC DOH states that acetaldehyde "causes respiratory paralysis" and cites the Ninth Edition of the Merck Index. This statement mischaracterizes the content of that reference and fails to take into account the concentration of the chemical reported at the OU4 properties. The Merck Index entry for acetaldehyde notes that "large doses may cause death by respiratory paralysis" and provides an oral LD_{50} of 1.9 g/kg in laboratory rats; this roughly corresponds to a dose of 140 g for 70 kg human. At soil concentrations of 0.040 mg/kg, acute poisoning would require consumption of over 3,000 metric tons of soil. Although children are potentially more susceptible, they would still need to consume many times their body weight in contaminated soil in order to experience toxic effects. EPA Region III does not list an RBC for acetaldehyde in soil, likely because it is essentially non-toxic by ingestion as demonstrated by its use as a flavoring agent. Acetaldehyde is a by-product of yeast production and is a naturally occurring compound in wine, bread, soy sauce, and other yeast-fermented products.

Tab B in the DC DOH report states that octane is an "asphyxiant and blister agent" and cites Sax and Lewis. This statement mischaracterizes the content of the reference. Sax and Lewis write that octane "may act as a simple asphyxiant." Elsewhere, the reference describes the action of a simple asphyxiant as "excluding O_2 from the lungs. The effect of simple asphyxiant gases is proportional to the extent to which they diminish the amount (partial pressure) of O_2 in the air that is breathed." Parts per million levels in soil will not significantly diminish the amount of oxygen in the air that is breathed. Similarly, Sax and Lewis write that "human dermal exposure to undiluted octane for five hours resulted in blister formation." This effect is unrelated to the class of chemical warfare agents classified as blister agents and is very unlikely to occur at the levels found in the samples.

Tab B of the DC DOH's comments states that hexanal is "toxic [by] ingestion and inhalation, (acrid smoke)," citing Sax and Lewis. This statement mischaracterizes the content of that reference. Sax and Lewis write that hexanal is "mildly toxic" and "when heated to decomposition, it emits acrid smoke and fumes." The oral LD_{50} for hexanal in laboratory rats is 4,890 mg/kg, which corresponds to a dose of 342 grams (0.8 lb) for an adult human. At soil concentrations on the order of 0.100 mg/kg, acute poisoning would require consumption of over 3,000 metric tons of soil.

Natural Products

Of the 23 compounds listed in Tab B of the DC DOH's comments, 3 are major components of a number of food items, are likely to have originated as naturally occurring contaminants, or have large potential sources that are not associated with the AUES.

Hexadecanoic Acid

Hexadecanoic acid (CAS Registry No. 57-10-3) is also known as palmitic acid. The analysis indicates that there is sufficient evidence to make a tentative identification of this compound as present in some of the samples.

The DC DOH's Tab B confuses "hexadecanoic acid" with "decanoic acid." The DC DOH material on hexadecanoic acid indicates that "decanoic acid is a poison (acrid smoke)." Decanoic acid (chemical formula $C_{10}H_{20}O_2$) is a different chemical compound than hexadecanoic acid (chemical formula $C_{16}H_{32}O_2$). Sax and Lewis have an entry under "palmitic acid" that indicates that it is a poison by the intravenous route; the substance is essentially non-toxic by the oral route. Sax and Lewis also write that when heated to decomposition, it emits acrid smoke and irritating fumes; the relevance of smoke generation, as cited in the DC DOH report, to parts per billion levels in soil is unclear. Palm oil contains 44 percent palmitic acid esters; other natural

oils contain significant quantities of palmitic acid esters. Enzymatic digestion of the oil produces the free acid.

The palmitic acid concentration was estimated at levels ranging from 0.089 to 0.670 mg/kg. EPA Region III has not established a risk-based concentration for palmitic acid, most likely because it is essentially non-toxic and is a major component of many food items.

Palmitic acid is not listed on the AUES list of chemicals and has never been considered either an experimental chemical warfare agent or an agent precursor compound. It is of natural origin, is used extensively in industry, and is likely to be a ubiquitous component of the environment.

Oleic Acid

Oleic Acid (CAS Registry No. 112-80-1) is also known as Z-9- octadecenoic acid. The analysis indicates that there is sufficient evidence to make a tentative identification of this compound as present in some of the samples.

The DC DOH's Tab B states that oleic acid is a "poison and skin irritant," citing Sax and Lewis. This statement mischaracterizes the content of that reference. Sax and Lewis write that oleic acid is a "poison by intravenous route;" they also cite toxicological data for laboratory rats indicating an intravenous LD_{50} of 2,400 µg/kg versus an oral LD_{50} of 74 g/kg; this indicates that oleic acid is 30,000 times less toxic by ingestion. Olive oil contains 55-85 percent oleic acid esters. Extra virgin olive oil can have up to 1 percent free oleic acid, virgin between 1 and 3 percent free oleic acid. Other natural oils contain significant quantities of oleic acid esters. Enzymatic digestion of these oils produces the free acid.

The oleic acid concentration was estimated at levels ranging from 0.130 to 4.20 mg/kg; EPA Region III has not established a risk-based concentration for oleic acid, most likely because it is essentially non-toxic and is a major component of many food items.

Oleic acid is listed on the AUES list of chemicals, but it has never been considered either an experimental chemical warfare agent or an agent precursor compound. It is of natural origin, is used extensively in industry, and is likely to be a ubiquitous component of the environment.

1-Eicosanol

The analysis indicates that there is sufficient evidence to make a tentative identification of 1-eicosanol (CAS Registry No. 629-96-9) as present in some of the samples. 1-Eicosanol is used by plants and animals to make wax, which is a mixture of esters of long-chain alcohols and long-chain carboxylic acids. The alcohol has been found in the secretions from the abdominal tips of queen bees, and beeswax samples have included eicosyl hexadecanoate and eicosyl octadecanoate. It is also present in plant waxes, including Jojoba wax.

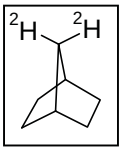
The 1-eicosanol concentration was estimated at levels ranging from 0.190 to 0.200 mg/kg. EPA Region III has not established a risk-based concentration for 1-eicosanol, most likely because it is essentially non-toxic and is a major component of a number of natural products.

1-Eicosanol is not listed on the AUES list of chemicals and has never been considered either an experimental chemical warfare agent or an agent precursor compound.

Analytical Artifacts

Of the 23 compounds listed in the DC DOH's Tab B, 2 are likely to be analytical artifacts—false positives—because they are not present in the soil samples collected from the OU4 residential locations. These compounds are unlikely to be present in the soil at AUES.

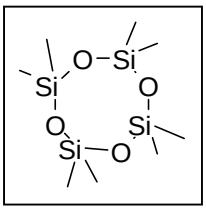
Bicyclo[2.2.1]heptane-7,7-d



Bicyclo[2.2.1]heptane-7,7-d is almost certainly a misidentified substance or an analytical artifact. The analysis indicates that this is a tentatively identified compound (TIC). In practice, TICs result from analyses using gas chromatography/mass spectrometry (GC/MS) when a compound not on the target analyte list is detected. The instrument compares the pattern of ions produced in the MS part of the instrument with a computer library and tentatively identifies the compound with the library spectrum that provides the best match. In this case, the best match apparently was an isotopically-labeled compound that is unlikely to occur outside a laboratory. It almost certainly would not result from AUES activities, as isotopically labeled compounds did not become common research tools until well after World War II. Isotopically labeled compounds have never been considered either experimental chemical warfare agents or agent precursor compounds.

It is possible that identification could be made by an analyst reviewing the reconstructed ion chromatogram from the data package. However, it is very likely that this is a monoterpene (similar in structure to α-pinene) of some sort; a more specific identification may not be possible. Given that the concentration of this compound is estimated at 0.006 to 0.050 mg/kg, further effort at identification may not be reasonable.

Octamethylcyclotetrasiloxane

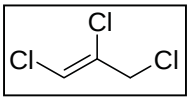


Octamethylcyclotetrasiloxane (CAS Registry No. 556-67-2) is an analytical artifact. Traditional polysiloxane-type GC column stationary phases degrade at elevated temperatures. The degradation process is well documented and consists of the thermal rearrangement of the siloxane backbone to produce cyclosiloxanes, such as octamethylcyclotetrasiloxane. These compounds are volatile and elute from the column as column "bleed". The estimated concentrations reported (0.003 to 0.010 mg/kg) are typical of column bleed; the likelihood that this substance was present in the samples as taken is very small. Where octamethylcyclotetrasiloxane is a suspected contaminant, the analysis must be performed using an extra-low bleed capillary column to avoid this potential for interference.

Other Chemicals

There was only one chemical that could not be characterized within the other groups listed above.

1,2,3-Trichloropropene



The analysis indicates that there is sufficient evidence to make a tentative identification of 1,2,3-trichloropropene (CAS Registry No.96-19-5) or a similar compound as present in some of the samples. 1,2,3-Trichloropropene is generally found as a contaminant of epichlorohydrin, which is used in turn to manufacture glycerin and unmodified epoxy resins.

The 1,2,3-trichloropropene concentration was estimated at levels ranging from 0.100 to 0.280 mg/kg, whereas EPA Region 3 has established a risk-based concentration for residential soil at 390 mg/kg. Because 1,2,3-trichloropropene is a non-carcinogen, USACE screened the concentrations detected at OU4 using an adjusted risk-based concentration of 39 mg/kg.

1,2,3-trichloropropene is not listed on the AUES list of chemicals; 1,2,3-trichloropropane, which is on the list, is a different substance. 1,2,3-Trichloropropene has never been considered an experimental chemical warfare agent, although it can be an agent precursor compound.

Sampling Procedure Supporting Memoranda

Spring Valley Operable Unit 5
Washington, DC

Prepared for US Army Corps of Engineers (USACE)
Prepared by Parsons

Selection of Appropriate Sampling Methodology for the Comprehensive Sampling Area

BACKGROUND

A comprehensive soil sampling operation will be conducted as part of the Spring Valley Operable Unit 5 investigation. The area investigated has been divided into two distinct areas: the central testing area (CTA), where field testing of Chemical Warfare Materiel (CWM) has been documented, and the rest of the Spring Valley acreage, designated the Comprehensive Sampling Area (CSA). Surficial soil sampling for arsenic will be performed in each area. However, each area has different sampling procedures based on the assumption that the CSA will contain lower arsenic concentrations than the CTA.

PROBLEM

In general accordance with the EPA's *Soil Screening Guidance, 1996*, each CTA site or exposure area (EA) is to be divided into four quadrants. Each quadrant will have one soil sample comprising six sub-samples, i.e., six (6) random locations within the quadrant are composited into one sample for the quadrant. Because the CSA is expected to have lower arsenic concentrations, a more limited sampling effort is to be conducted to screen for potential contamination. For the CSA, each EA is to be divided, as evenly as possible, into two halves. The question to be resolved is how many sub-samples must be collected per half to retain the statistical power of the CTA procedure. (A detailed description of the quadrant sampling methodology is provided in the *Work Management Plan, Final, Spring Valley OU-4, August 14, 2000, Parsons Engineering Science*.)

SOLUTION

Because arsenic concentrations in soil vary spatially within an EA, increasing the number of sub-samples in each composite sample has the effect of increasing the ability of the measured sample arsenic concentration to accurately represent the overall average arsenic concentration within the EA.

Arsenic concentrations in the composite soil samples are compared to a soil screening level (SSL). In this case, the SSL for arsenic in surface soil was determined to be 12.6 mg/kg, which is the 95^{th} percentile of the background distribution. If the mean contaminant concentration on an EA exceeds the SSL, a decision is made to investigate

with additional intensive (grid) sampling. If the mean concentration is less than the SSL, a decision is made to not investigate further.

Because all sample data include uncertainty, errors can be made in the decision to investigate further or not investigate further any given EA. The rate of these errors can be controlled, however. Deciding to not investigate further when the true average concentration in an EA exceeds the SSL (additional investigation is warranted) is called a Type I error. Deciding to investigate further when the correct decision would be to not investigate further is a Type II error. Type II errors cause additional expense, but are typically of less concern than Type I errors. USEPA Soil Screening Guidance Technical Background Document Part 4 (EPA Document Number: EPA/540/R-95/128) (EPA, 1996) establishes the following goals for Type I and Type II decision error rates:

- Type I: Less than 0.05 (5%) probability of not investigating further when "true mean" of the EA is 2 times the SSL.

- Type II: Less than 0.2 (20%) probability of investigating further when "true mean" of the EA is 0.5 * SSL.

The "gray region" from 0.5 SSL to 2 SSL represents the range of contaminant concentrations levels near the SSL, where uncertainty in the data (i.e., the variability) can make the decision "too close to call." By specifying the upper edge of the gray region as twice the SSL, it is possible that exposure areas with mean values slightly higher than the SSL may be screened from further study. However, an upper and lower value is required to determine the power and significance of the test. While the gray region discussed in the EPA Guidance (1996) is based on a risk-based decision criteria and the decision criteria of 12.6 mg/kg is based on the distribution of the background data, a similar rationale was used in this study. Please note that the EPA Soil Screening Guidance decision error rates meet the USACE's goal of being more conservative than the minimums recommended in *EPA's Guidance for Data Usability in Risk Assessment.*

The purpose of this exercise was to identify the minimum number of sub-samples per composite sample in a CSA site that would limit the Type I error rate to 5% or less and the Type II error rate to 20% or less.

In order to do this, existing data from outside the CTA were used to estimate the coefficient of variation (CV) for arsenic concentrations in the study area. The data from six EAs on Rockwood Parkway that had been quadrant sampled and then had follow-on grid sampling, were used. The mean value and standard deviation of the samples from these six EAs are 19.8 mg/ kg and 34.4 mg/kg, respectively. Therefore, the CV is 1.73. Additionally, as with other data collected in the region, the arsenic concentrations in soil followed a log-normal distribution.

Using information from this field data, 5,000 computer simulations using the Monte Carlo process were used to estimate the percentage of Type I and Type II errors that

would be expected for a range of sub-sample values. 1,000 simulations were used in the EPA Guidance calculations, however, with the EAs divided into 2 sectors (as opposed to 4 or more), additional simulations were required to achieve stable, reproducible results for this analysis. Because the sub-samples were drawn randomly, the calculated sample results incorporate the distribution of arsenic values that could be expected to occur naturally through sampling.

To quantify the Type I error, the mean of the population was assumed to be 2* decision criteria of 12.6 mg/kg (= 25.2 mg/kg). The standard deviation for a population with this mean was estimated using the CV from the field data (1.73). Therefore, the standard deviation for the simulated populations was set equal to 43.6 mg/kg (= 1.73 * 25.2). These parameters were used to generate random samples from a log-normal population that represented a distribution of arsenic concentrations. For each simulation, two averaged composite samples (one for each half of the EA) were randomly generated using from 4 to 12 sub-samples. The maximum of these two values was compared with the decision criteria of 12.6 mg/kg. If this value was greater than 12.6 mg/kg, the decision was made to "further investigate." If this value was less than 12.6 mg/kg, the decision was made to "not investigate further". The Type I error was calculated by determining the proportion of the 5,000 simulations in which the decision was made to "not investigate further."

To quantify the Type II error, the mean of the population was assumed to be 0.5* decision criteria of 12.6 mg/kg (= 6.3 mg/kg). The standard deviation was estimated using the coefficient of variance from the field data (1.73). Therefore, the standard deviation for the simulated populations was set equal to 10.9 mg/kg (= 1.73 * 6.3). As discussed above, simulated maximum values were compared to 12.6 mg/kg, with maximum values greater than the SSL requiring further investigations. Values less than 12.6 mg/kg are not studied further. The Type II error was calculated by determining the proportion of the 5,000 simulations in which the decision was made to "further investigate."

A summary of the results of the Max Test as applied to the simulations is provided in the Table 1. As expected, increasing the number of sub-samples per composite sample reduces the incidence of both Type I and Type II errors. The Type I error column indicates the proportion of time that the decision is made to not conduct further investigations (i.e., the max is less than the decision criteria of 12.6 mg/kg), given that the true mean of the sample population used in the simulation is 2* decision criteria of 12.6 mg/kg. This number must be less than 5% for this project. For example, with five (5) sub-samples, 4.6% of the time the decision is erroneously made to not investigate further when the true concentration is at 2* decision criteria of 12.6 mg/kg. The Type II error column indicates the percentage of time that the decision is made to conduct further study when the true concentration at the site is less than 0.5* decision criteria of 12.6 mg/kg. This must be less than 20% for this project.

Table 1 shows that a minimum of five (5) sub-samples composited into one sample per EA half will meet the project goals for Type I and Type II errors.

Table 1. Summary of Simulation Results

(N^1=2; CV^2 = 1.73; 5,000 simulations)

Number of Sub-Samples per Composite Sample	Percentage of Random Samples Resulting in Type I error Mean = 2*SSL	Percentage of Random Samples Resulting in Type II error Mean = 0.5*SSL
4	6.8	16.9
5	**4.6**	**14.9**
6	3.1	13.1
7	2.6	12.9
8	1.6	10.8
9	1.2	10.6
10	1	9
11	0.6	8.9
12	0.6	8.3

[1] – Each EA was divided into N sectors (2 halves).

[2] – The CV value was obtained from the Rockwood Parkway 6 dataset.

It should be noted that a relatively recent recalculation of the 95th percentile of the background distribution revealed that this value should be 12.9 mg/kg instead of 12.6 mg/kg. The recalculation was based on a field duplicate sample result that was incorrectly included in the dataset. The above analysis was performed using the updated value of 12.9 mg/kg and the result was the same conclusion as for the 12.6 mg/kg value. For the sake of consistency, the decision criteria of 12.6 mg/kg was used in this study and will be continue to be used for the project.

Spring Valley Operable Unit 4
Washington, DC

ANALYSIS OF EFFECT OF DIFFERENT SAMPLING METHODOLOGIES ON FURTHER ACTION DECISIONS

Parsons performed quadrant soil screening at numerous residences or exposure areas (EAs) of the Spring Valley neighborhood of Washington, DC, for the Spring Valley Operable Unit 4 RI/FS project. The quadrant sampling method utilized to composite subsamples into samples for analysis deviated slightly from the method specified in the EPA Soil Screening Guidance User's Guide (User's Guide). Each of the EAs were divided as evenly as possible into four quadrants. In each quadrant, six subsamples were randomly collected and composited into a single sample for each quadrant and submitted for analysis. This resulted in four samples per EA, one per quadrant. The User's Guide states six samples should be collected by compositing 4 subsamples, with one subsample randomly selected from each quadrant. This results in six samples representing the entire EA rather than the alternate procedure used that results in four samples representing the EA and provides additional information about the spatial distribution among the quadrants.

Parsons evaluated the data collected to date to determine the following:

1. Does the difference in sample compositing methodology (User's Guide versus alternate method) result in a different screening decision?

2. If so, which method is more conservative or protective of human health?

3. If the alternative procedure could result in decisions to "walk away" from an EA without further investigation (i.e., fail to identify an EA with a level above the soil screening level (SSL) when the level exist) when the User's Guide methodology would result in a decision to investigate further, could the screening decision criteria for the alternate method be adjusted such that it would be as conservative (protective)?

The alternate procedure utilized has the advantage of yielding more information about the spatial distribution of contaminant within the EA. Contaminant concentrations in soil are seldom found to be spatially uniform across an EA. Thus, this alternative method intuitively should be more protectively conservative when decision rules are based on the maximum observed concentration. That is, by compositing samples within the quadrant rather than across the EA, a single high quadrant will not be diluted by the remaining quadrants. However, fewer samples used to make the estimates of the average concentration of a contaminant over the entire EA may result in a higher variance, thereby reducing the statistical power to discern differences from the Soil Screening Level (SSL).

Six EAs on Rockwood Parkway had been quadrant sampled and then grid sampled (with from 20 to 42 non-composited samples equally spaced on 20 foot centers across each EA). It was assumed these were representative of the actual population of concentrations in the EA. Next, Parsons statistically re-sampled these gridded EAs one thousand times by both the User's Guide method and the alternate procedure. This resulted in one thousand

possible combinations (for each method) of 6 total samples (User's Guide) or 4 total samples (alternative method). The Chen test (one of the tests recommended in the EPA Guidance) was applied to each of these possible combinations to identify the likelihood of decisions to investigate further or walk away (no further investigation) by either method. The results are summarized in Table 1.

The SSL for arsenic for the Spring Valley site is 12.6 parts-per-million (95th percentile of the background concentration). For four of the six EAs, including those with the highest arsenic levels, application of the alternate procedure compositing method resulted in the same decision (investigate further or walk away) as the User's Guide method 100% of the time. In two EAs, however, application of the alternate procedure could have resulted in a higher probability that the decision would be to walk away. This observation was confirmed with theoretical lognormal concentration distributions. The attempt was made to counter this tendency toward a higher probability of making the walk away decision by artificially adjusting the SSL downward in the Chen test. It was determined that by reducing the SSL from 12.6 to 12.1 (4%) with the alternate procedure compositing method, the results were at least as conservative as those obtained using the SSL of 12.6 and the User's Guide compositing method. In simulations using theoretical lognormal concentration distributions of arsenic, it was found that the reduction in SSL required to be equally conservative did not exceed 4 %, and in some cases was as small as 0.5%.

Next, the Chen test was applied to 39 of the 42 EAs quadrant sampled in the initial phase of the residential sampling using only the alternate procedure. The Chen test indicated that 10 of the 39 required further investigation. We then adjusted the SSL from 12.6 to 12.1 in the Chen test and applied it to the same data from the 39 EAs. The results were identical, with 10 sites requiring further investigation. Thus, the adjustment to the Chen test to achieve an equal probability of deciding to not investigate further did not result in any changes in decision for the 39 Spring Valley sites.

In conclusion, the alternative method did not affect the result of the decision on whether further investigation was required. However, this could change if there is a wide variation of concentrations within an EA. Such properties may be better sampled using the User's Guide method. However, the alternative method provides important information on the spatial distribution of contaminant concentrations within an exposure area.

Based upon the results to date, we recommend continuing with the alternative procedure. Any property with any result greater than 12.6 ppm will receive additional investigation. Data from the remaining properties will be analyzed with the Chen test with the SSL artificially lowered to 12.1 ppm. In addition, as additional grid results for properties become available, it is recommended that the analysis reported above be performed periodically to confirm the value of the SSL for the alternative method.

TABLE 1
Comparison of Results for Gridded Rockwood Parkway EAs
Based on Grid Sampling on Rockwood Parkway

EA	Probability of making the decision to "walk away" based on the Chen test.		
	User's Guide Method	Alternate Method	
	SSL = 12.6	SSL = 12.6	SSL = 12.1
4621 Rockwood	0%	0%	0%
4625 Rockwood	0%	0%	0%
4629 Rockwood	23%	61%	11%
4633 Rockwood	1%	3%	1%
4637 Rockwood	0%	0%	0%
4641 Rockwood	0%	0%	0%