US Army Corps
of Engineers
Baltimore District

Maryland Port
Administration

Baltimore Harbor Anchorages and Channels, Maryland

Integrated Feasibility Report and Environmental Impact Statement

Technical Appendices

APPENDIX F - CHEMICAL DATA RESULTS

March 1997

CHEMICAL DATA SUMMARY OF BALTIMORE ANCHORAGES AND CHANNELS

PARAMETERS	METHODS	UNITS	TCLP REGULATORY LEVEL	SAMPLING AREAS SL1	AA2	AA3	AA4 C01	AA4 C02	TC5	TC8	CC7
TCLP METALS											
Arsenic	SW846 6010	µg/l	5000	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Barium	SW846 6010	µg/l	100000	312	300	351	319	324	450	528	458
Cadium	SW846 6010	µg/l	1000	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Chromium	SW846 6010	µg/l	5000	BQL	28.9	BQL	BQL	24.1	BQL	BQL	28.2
Lead	SW846 6010	µg/l	5000	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Mercury	SW846 7470	µg/l	200	BQL	0.105	BQL	BQL	BQL	BQL	BQL	BQL
Selenium	SW846 6010	µg/l	1000	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Silver	SW846 6010	µg/l	5000	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
ELUTRIATE PROCEDURES			BACKGROUND BAY WATER LEVELS								
METALS											
Arsenic	MCAWW 206.2	µg/l	BQL	BQL	7.01	12.8	4.8	4.12	27.5	BQL	11.8
Barium	MCAWW 200.7	µg/l	21.7	58.4	165	307	273	23.1	20.1	261	26.3
Cadium	MCAWW 200.7	µg/l	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Chromium	MCAWW 200.7	µg/l	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	9.28
Copper	MCAWW 200.7	µg/l	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Iron	MCAWW 200.7	µg/l	269	472	155	338	BQL	BQL	BQL	1350	88.9
Lead	MCAWW 239.2	µg/l	2.58	0.921	BQL	3.04	2.2	BQL	BQL	0.921	BQL
Mercury	MCAWW 245.1	µg/l	0.181	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Nickel	MCAWW 200.7	µg/l	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Selenium	MCAWW 270.2	µg/l	BQL	BQL	2.58	BQL	BQL	BQL	BQL	BQL	BQL
Silver	MCAWW 272.2	µg/l	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Zinc	MCAWW 200.7	µg/l	22.4	11.8	37.3	44.7	64.4	20.4	22.5	93.5	16.8
SEMIVOLATILE ORGANIC COMPOUNDS											
bis(2-Ethylhexyl)phthalate	40CFR136 625	µg/l	BQL	BQL	BQL	BQL	BQL	BQL	BQL	2.68	BQL
Di-n-butylphthalate	40CFR136 625	µg/l	3.3	2.82	BQL	BQL	2.85	2.97	BQL	BQL	BQL
Fluoranthene	40CFR136 625	µg/l	BQL	2.74	BQL	2.68	BQL	BQL	BQL	BQL	BQL
CHLORINATED PESTICIDES AND PCB's	40CFR136 608	µg/l	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
WET CHEMISTRY											
Oil and Grease	MCAWW 413.1	mg/l	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL
Phosphorus	MCAWW 365.2	mg/l	0.071	BQL	0.201	0.55	BQL	BQL	1.38	BQL	0.132
Total Kjeldahl Nitrogen	MCAWW 351.3	mg/l	1.22	6.79	10.3	0.21	BQL	BQL	16.7	BQL	25.9
Total Organic Carbon	MCAWW 415.1	mg/l	3.75	25.6	12.1	14.1	71.4	72.6	93	27.4	27.4

BQL – Below Quantitation Limits
SW846 – EPA Test Methods for Evaluating Solid Waste
MCAWWA – EPA Methods for Chemical Analysis of Water and Wastes

CHEMICAL DATA SUMMARY OF BALTIMORE ANCHORAGES AND CHANNELS

PARAMETERS	METHODS	UNITS	SAMPLING AREAS										
			SIL1	AA2	AA3	AA4 C01	AA4 C02	TC5	TC6	CC7	TC6--EB23 Liquid Mud	CC7-EB29 Liquid Mud	CC7-EB27 Liquid Mud
METALS													
Arsenic	SW846 7060	mg/kg	5.35	11.6	11.4	16	14.4	21.8	8.39	7.58	25.6	--	--
Barium	SW846 6010	mg/kg	10.4	113	54.3	50.3	51.6	47.8	57.8	88	151	--	--
Cadium	SW846 6010	mg/kg	BQL	1.55	1.6	BQL	BQL	BQL	BQL	BQL	3.17	--	--
Chromium	SW846 6010	mg/kg	42.4	107	77	119	110	55.4	69	103	255	--	--
Copper	SW846 6010	mg/kg	23.4	64.4	45.2	67.1	59	30.2	36.6	140	179	--	--
Lead	SW846 6010	mg/kg	10.4	51.5	42.9	59.1	58.5	22	23.4	106	134	--	--
Iron	SW846 6010	mg/kg	21000	40500	41000	45900	46600	41000	47700	46800	41200	--	--
Mercury	SW846 7471	mg/kg	0.12	0.227	0.239	0.238	0.213	0.161	0.127	0.849	0.612	--	--
Nickel	SW846 6010	mg/kg	19.3	34.6	35.2	36.2	33.7	33.7	37.7	27.9	37.5	--	--
Selenium	SW846 7740	mg/kg	BQL	BQL	BQL	BQL	BQL	1.11	BQL	3.34	1.52	--	--
Silver	SW846 7761	mg/kg	BQL	BQL	BQL	BQL	BQL	0.585	BQL	0.568	0.516	--	--
Zinc	SW846 6010	mg/kg	60.9	210	162	237	237	120	141	238	458	--	--
SEMIVOLATILE ORGANIC COMPOUNDS													
2--Methyhaphthalene	SW846 8270	µg/kg	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	120	--	--
Anthracene	SW846 8270	µg/kg	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	222	--	--
Benzoic acid	SW846 8270	µg/kg	BQL	BQL	202	BQL	BQL	BQL	BQL	BQL	BQL	--	--
Benzo[a]pyrene	SW846 8270	µg/kg	217	786	708	BQL	BQL	518	BQL	BQL	BQL	--	--
bis(Ethyhexyl)phthalate	SW846 8270	µg/kg	BQL	293	177	564	BQL	BQL	1390	562	1900	--	--
di-n-Butylphthalate	SW846 8270	µg/kg	BQL	BQL	BQL	312	163	250	351	195	335	--	--
Fluoranthene	SW846 8270	µg/kg	BQL	247	163	310	319	BQL	118	BQL	715	--	--
Naphthalene	SW846 8270	µg/kg	BQL	BQL	BQL	108	135	BQL	BQL	BQL	152	--	--
Phenanthrene	SW846 8270	µg/kg	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	369	--	--
Pyrene	SW846 8270	µg/kg	BQL	282	194	298	369	BQL	BQL	BQL	774	--	--
VOLATILE ORGANIC COMPOUNDS													
2--Butanone	SW846 8240	µg/kg	--	--	--	--	--	--	--	--	--	256	BQL
Acetone	SW846 8240	µg/kg	--	--	--	--	--	--	--	--	--	23.2	73.3
Carbon Disulfide	SW846 8240	µg/kg	--	--	--	--	--	--	--	--	--	39.8	46.2
CHLORINATED PESTICIDES AND PCB's	SW846 8080	µg/kg	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	BQL	--	--
WET CHEMISTRY													
Oil & Grease	MCAWW 413.1	mg/l	BQL		1140	1270	1070	BQL	BQL	1490	2270	--	--
pH	SW846 9045		6.78	6.6	--	--	--	--	--	--	--	--	--
Phosphorus	MCAWW 365.2	mg/kg	520	300	989	555	933	867	355	478	716	--	--
Percent Solids	MCAWW 160.3	%	64	42.5	40.4	38.8	38.8	40.5	50.8	43.7	29.9	19.1	34.2
Total Kjeldahl Nitrogen	MCAWW 351.3	mg/kg	1220	4150	2760	3130	2600	2950	884	2820	2960	--	--
Total Organic Carbon	MCAWW 415.1	mg/kg	12400	22700	22400	16900	17400	16700	14900	16700	25900	--	--

-- Not Analyzed
BQL -- Below Quantitation Limits
SW846 -- EPA Test Methods for Evaluating Solid Waste
MCAWWA -- EPA Methods for Chemical Analysis of Water and Wastes

SUMMARY OF LABORATORY RESULTS

BALTIMORE ANCHORAGES AND HARBOR STUDY

GP Work Order # 9404168

SAMPLE ANALYSIS REPORT

Prepared For:

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201

BALTIMORE HARBOR

Prepared By:

GP Environmental Services, Inc.
202 Perry Parkway
Gaithersburg, Maryland 20877

May 11, 1994

for Albert Ellis, Laboratory Director

GP ENVIRONMENTAL SERVICES
ANALYTICAL RESULTS

Project: BALTIMORE HARBOR

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201
Atten: /

GP ENVIRONMENTAL SERVICES
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by: CB

SAMPLE IDENTIFICATION

GP ID	Client ID
9404168-01A	TC5-EB17
9404168-01B	
9404168-01C	
9404168-02A	TC5-EB17 ELUTRIATE
9404168-03A	TC5-EB18
9404168-03B	
9404168-04A	TC5-EB18 ELUTRIATE
9404168-05A	TC5-EB19
9404168-06A	TC5-EB19 ELUTRIATE
9404168-07A	TC5-EB20
9404168-07B	
9404168-07C	
9404168-07D	
9404168-08A	TC5-EB20 ELUTRIATE
9404168-09A	TC5-CO1
9404168-10A	CC7-EB27
9404168-10B	
9404168-10C	
9404168-10D	

GP ENVIRONMENTAL SERVICES
ANALYTICAL RESULTS

SAMPLE IDENTIFICATION

GP ID	Client ID
9404168-11A	CC7-EB27 ELUTRIATE
9404168-12A	CC7-EB27 TRIP BLANK
9404168-12B	
9404168-13A	CC7-EB28
9404168-13B	
9404168-13C	
9404168-14A	CC7-EB28 ELUTRIATE
9404168-15A	CC7-EB29
9404168-15B	
9404168-15C	
9404168-15D	
9404168-15E	
9404168-15F	
9404168-16A	CC7-EB29 ELUTRIATE
9404168-17A	CC7-EB30
9404168-17B	
9404168-17C	
9404168-18A	CC7-EB30 ELUTRIATE
9404168-19A	CC7-C01

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404168-09A
Client ID: TC5-C01
Collected: 04/20/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 05/04/94
Prepared: 05/03/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	815.0	
1,2-Dichlorobenzene	BQL	815.0	
1,3-Dichlorobenzene	BQL	815.0	
1,4-Dichlorobenzene	BQL	815.0	
2,4,5-Trichlorophenol	BQL	815.0	
2,4,6-Trichlorophenol	BQL	815.0	
2,4-Dichlorophenol	BQL	815.0	
2,4-Dimethylphenol	BQL	815.0	
2,4-Dinitrophenol	BQL	4080.0	
2,4-Dinitrotoluene	BQL	815.0	
2,6-Dinitrotoluene	BQL	815.0	
2-Chloronaphthalene	BQL	815.0	
2-Chlorophenol	BQL	815.0	
2-Methylnaphthalene	BQL	815.0	
2-Methylphenol	BQL	815.0	
2-Nitroaniline	BQL	4080.0	
2-Nitrophenol	BQL	815.0	
3,3'-Dichlorobenzidine	BQL	1630.0	
3-Nitroaniline	BQL	4080.0	
4,6-Dinitro-2-methylphenol	BQL	4080.0	
4-Bromophenyl-phenylether	BQL	815.0	
4-Chloro-3-methylphenol	BQL	1630.0	
4-Chloroaniline	BQL	1630.0	
4-Chlorophenyl phenyl ether	BQL	815.0	
4-Methylphenol	BQL	815.0	
4-Nitroaniline	BQL	4080.0	
4-Nitrophenol	BQL	4080.0	
Acenaphthene	BQL	815.0	
Acenaphthylene	BQL	815.0	
Anthracene	BQL	815.0	
Benzoic acid	BQL	4080.0	
Benzo[a]anthracene	BQL	815.0	
Benzo[a]pyrene	518.0	815.0	J

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404168-09A
Client ID: TC5-C01
Collected: 04/20/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 05/04/94
Prepared: 05/03/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	815.0	
Benzo[g,h,i]perylene	BQL	815.0	
Benzo[k]fluoranthene	BQL	815.0	
Benzyl alcohol	BQL	1630.0	
bis(2-Chloroethoxy) methane	BQL	815.0	
bis(2-Chloroethyl) ether	BQL	815.0	
bis(2-Chloroisopropyl) ether	BQL	815.0	
bis(2-Ethylhexyl)phthalate	BQL	815.0	
Butyl benzyl phthalate	BQL	815.0	
Chrysene	BQL	815.0	
di-n-Butylphthalate	250.0	815.0	J
di-n-Octylphthalate	BQL	815.0	
Dibenzofuran	BQL	815.0	
Dibenz[a,h]anthracene	BQL	815.0	
Diethylphthalate	BQL	815.0	
Dimethyl phthalate	BQL	815.0	
Fluoranthene	BQL	815.0	
Fluorene	BQL	815.0	
Hexachlorobenzene	BQL	815.0	
Hexachlorobutadiene	BQL	815.0	
Hexachlorocyclopentadiene	BQL	815.0	
Hexachloroethane	BQL	815.0	
Indeno[1,2,3-cd]pyrene	BQL	815.0	
Isophorone	BQL	815.0	
N-Nitroso-di-n-propylamine	BQL	815.0	
N-nitrosodiphenylamine	BQL	815.0	
Naphthalene	BQL	815.0	
Nitrobenzene	BQL	815.0	
Pentachlorophenol	BQL	4080.0	
Phenanthrene	BQL	815.0	
Phenol	BQL	815.0	
Pyrene	BQL	815.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404168-19A
Client ID: CC7-C01
Collected: 04/21/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 05/04/94
Prepared: 05/03/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	756.0	
1,2-Dichlorobenzene	BQL	756.0	
1,3-Dichlorobenzene	BQL	756.0	
1,4-Dichlorobenzene	BQL	756.0	
2,4,5-Trichlorophenol	BQL	756.0	
2,4,6-Trichlorophenol	BQL	756.0	
2,4-Dichlorophenol	BQL	756.0	
2,4-Dimethylphenol	BQL	756.0	
2,4-Dinitrophenol	BQL	3780.0	
2,4-Dinitrotoluene	BQL	756.0	
2,6-Dinitrotoluene	BQL	756.0	
2-Chloronaphthalene	BQL	756.0	
2-Chlorophenol	BQL	756.0	
2-Methylnaphthalene	BQL	756.0	
2-Methylphenol	BQL	756.0	
2-Nitroaniline	BQL	3780.0	
2-Nitrophenol	BQL	756.0	
3,3'-Dichlorobenzidine	BQL	1510.0	
3-Nitroaniline	BQL	3780.0	
4,6-Dinitro-2-methylphenol	BQL	3780.0	
4-Bromophenyl-phenylether	BQL	756.0	
4-Chloro-3-methylphenol	BQL	1510.0	
4-Chloroaniline	BQL	1510.0	
4-Chlorophenyl phenyl ether	BQL	756.0	
4-Methylphenol	BQL	756.0	
4-Nitroaniline	BQL	3780.0	
4-Nitrophenol	BQL	3780.0	
Acenaphthene	BQL	756.0	
Acenaphthylene	BQL	756.0	
Anthracene	BQL	756.0	
Benzoic acid	BQL	3780.0	
Benzo[a]anthracene	BQL	756.0	
Benzo[a]pyrene	BQL	756.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404168-19A
Client ID: CC7-C01
Collected: 04/21/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 05/04/94
Prepared: 05/03/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	756.0	
Benzo[g,h,i]perylene	BQL	756.0	
Benzo[k]fluoranthene	BQL	756.0	
Benzyl alcohol	BQL	1510.0	
bis(2-Chloroethoxy) methane	BQL	756.0	
bis(2-Chloroethyl) ether	BQL	756.0	
bis(2-Chloroisopropyl) ether	BQL	756.0	
bis(2-Ethylhexyl)phthalate	562.0	756.0	J
Butyl benzyl phthalate	BQL	756.0	
Chrysene	BQL	756.0	
di-n-Butylphthalate	195.0	756.0	J
di-n-Octylphthalate	BQL	756.0	
Dibenzofuran	BQL	756.0	
Dibenz[a,h]anthracene	BQL	756.0	
Diethylphthalate	BQL	756.0	
Dimethyl phthalate	BQL	756.0	
Fluoranthene	BQL	756.0	
Fluorene	BQL	756.0	
Hexachlorobenzene	BQL	756.0	
Hexachlorobutadiene	BQL	756.0	
Hexachlorocyclopentadiene	BQL	756.0	
Hexachloroethane	BQL	756.0	
Indeno[1,2,3-cd]pyrene	BQL	756.0	
Isophorone	BQL	756.0	
N-Nitroso-di-n-propylamine	BQL	756.0	
N-nitrosodiphenylamine	BQL	756.0	
Naphthalene	BQL	756.0	
Nitrobenzene	BQL	756.0	
Pentachlorophenol	BQL	3780.0	
Phenanthrene	BQL	756.0	
Phenol	BQL	756.0	
Pyrene	BQL	756.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404168-10C
Client ID: CC7-EB27
Collected: 04/21/94
Dilution: 1

Matrix: SOIL
Method: 8240s
Units: ug/Kg

Analyst: LW
Analyzed: 05/03/94
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,1,1-Trichloroethane	BQL	14.6	
1,1,2,2-Tetrachloroethane	BQL	14.6	
1,1,2-Trichloroethane	BQL	14.6	
1,1-Dichloroethane	BQL	14.6	
1,1-Dichloroethene	BQL	14.6	
1,2-Dichloroethane	BQL	14.6	
1,2-Dichloropropane	BQL	14.6	
2-Butanone	BQL	29.2	
2-Chloroethylvinyl ether	BQL	29.2	
2-Hexanone	BQL	29.2	
4-Methyl-2-pentanone	BQL	29.2	
Acetone	73.3	29.2	
Benzene	BQL	14.6	
Bromodichloromethane	BQL	14.6	
Bromoform	BQL	14.6	
Bromomethane	BQL	29.2	
Carbon Disulfide	46.2	14.6	
Carbon tetrachloride	BQL	14.6	
Chlorobenzene	BQL	14.6	
Chloroethane	BQL	29.2	
Chloroform	BQL	14.6	
Chloromethane	BQL	29.2	
cis-1,3-Dichloropropene	BQL	14.6	
Dibromochloromethane	BQL	14.6	
Ethylbenzene	BQL	14.6	
Methylene chloride	BQL	14.6	
Styrene	BQL	14.6	
Tetrachloroethene	BQL	14.6	
Toluene	BQL	14.6	
trans-1,2-Dichloroethene	BQL	14.6	
trans-1,3-Dichloropropene	BQL	14.6	
Trichloroethene	BQL	14.6	
Vinyl Acetate	BQL	29.2	
Vinyl chloride	BQL	29.2	
Xylenes	BQL	14.6	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404168-12A
Client ID: CC7-EB27 TRIP BLANK
Collected: 04/21/94
Dilution: 1

Matrix: WATER
Method: 8240W
Units: ug/L

Analyst: HY
Analyzed: 05/01/94
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,1,1-Trichloroethane	BQL	5.00	
1,1,2,2-Tetrachloroethane	BQL	5.00	
1,1,2-Trichloroethane	BQL	5.00	
1,1-Dichloroethane	BQL	5.00	
1,1-Dichloroethene	BQL	5.00	
1,2-Dichloroethane	BQL	5.00	
1,2-Dichloropropane	BQL	5.00	
2-Butanone	BQL	10.0	
2-Chloroethylvinyl ether	BQL	10.0	
2-Hexanone	BQL	10.0	
4-Methyl-2-pentanone	BQL	10.0	
Acetone	BQL	10.0	
Benzene	BQL	5.00	
Bromodichloromethane	BQL	5.00	
Bromoform	BQL	5.00	
Bromomethane	BQL	10.0	
Carbon Disulfide	BQL	5.00	
Carbon tetrachloride	BQL	5.00	
Chlorobenzene	BQL	5.00	
Chloroethane	BQL	10.0	
Chloroform	1.43	5.00	J
Chloromethane	BQL	10.0	
cis-1,3-Dichloropropene	BQL	5.00	
Dibromochloromethane	BQL	5.00	
Ethylbenzene	BQL	5.00	
Methylene chloride	2.49	5.00	J
Styrene	BQL	5.00	
Tetrachloroethene	BQL	5.00	
Toluene	BQL	5.00	
trans-1,2-Dichloroethene	BQL	5.00	
trans-1,3-Dichloropropene	BQL	5.00	
Trichloroethene	BQL	5.00	
Vinyl Acetate	BQL	10.0	
Vinyl chloride	BQL	10.0	
Xylenes	BQL	5.00	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404168-15E
Client ID: CC7-EB29
Collected: 04/21/94
Dilution: 1

Matrix: SOIL
Method: 8240s
Units: ug/Kg

Analyst: LW
Analyzed: 05/04/94
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,1,1-Trichloroethane	BQL	26.2	
1,1,2,2-Tetrachloroethane	BQL	26.2	
1,1,2-Trichloroethane	BQL	26.2	
1,1-Dichloroethane	BQL	26.2	
1,1-Dichloroethene	BQL	26.2	
1,2-Dichloroethane	BQL	26.2	
1,2-Dichloropropane	BQL	26.2	
2-Butanone	266.0	52.4	
2-Chloroethylvinyl ether	BQL	52.4	
2-Hexanone	BQL	52.4	
4-Methyl-2-pentanone	BQL	52.4	
Acetone	23.2	52.4	J
Benzene	BQL	26.2	
Bromodichloromethane	BQL	26.2	
Bromoform	BQL	26.2	
Bromomethane	BQL	52.4	
Carbon Disulfide	39.8	26.2	
Carbon tetrachloride	BQL	26.2	
Chlorobenzene	BQL	26.2	
Chloroethane	BQL	52.4	
Chloroform	BQL	26.2	
Chloromethane	BQL	52.4	
cis-1,3-Dichloropropene	BQL	26.2	
Dibromochloromethane	BQL	26.2	
Ethylbenzene	BQL	26.2	
Methylene chloride	BQL	26.2	
Styrene	BQL	26.2	
Tetrachloroethene	BQL	26.2	
Toluene	BQL	26.2	
trans-1,2-Dichloroethene	BQL	26.2	
trans-1,3-Dichloropropene	BQL	26.2	
Trichloroethene	BQL	26.2	
Vinyl Acetate	BQL	52.4	
Vinyl chloride	BQL	52.4	
Xylenes	BQL	26.2	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404168-09A
Client ID: TC5-C01
Collected: 04/20/94
Dilution: 10

Matrix: SOIL
Method: SW846 8080
Units: ug/Kg

Analyst: LN
Analyzed: 05/10/94
Prepared: 05/03/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	91.1	
4,4'-DDE	BQL	33.1	
4,4'-DDT	BQL	99.2	
Aldrin	BQL	33.1	
alpha-BHC	BQL	24.9	
Aroclor 1016	BQL	414.0	
Aroclor 1221	BQL	414.0	
Aroclor 1232	BQL	414.0	
Aroclor 1242	BQL	538.0	
Aroclor 1248	BQL	827.0	
Aroclor 1254	BQL	827.0	
Aroclor 1260	BQL	827.0	
beta-BHC	BQL	49.6	
Chlordane	BQL	116.0	
delta-BHC	BQL	74.6	
Dieldrin	BQL	16.5	
Endosulfan I	BQL	116.0	
Endosulfan II	BQL	33.1	
Endosulfan sulfate	BQL	546.0	
Endrin	BQL	49.6	
Endrin aldehyde	BQL	190.0	
gamma-BHC (Lindane)	BQL	33.1	
Heptachlor	BQL	24.9	
Heptachlor epoxide	BQL	687.0	
Methoxychlor	BQL	1460.0	
Toxaphene	BQL	1980.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404168-19A
Client ID: CC7-C01
Collected: 04/21/94
Dilution: 10

Matrix: SOIL
Method: SW846 8080
Units: ug/Kg

Analyst: LN
Analyzed: 05/10/94
Prepared: 05/03/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	84.4	
4,4'-DDE	BQL	30.6	
4,4'-DDT	BQL	92.0	
Aldrin	BQL	30.6	
alpha-BHC	BQL	23.1	
Aroclor 1016	BQL	383.0	
Aroclor 1221	BQL	383.0	
Aroclor 1232	BQL	383.0	
Aroclor 1242	BQL	498.0	
Aroclor 1248	BQL	766.0	
Aroclor 1254	BQL	766.0	
Aroclor 1260	BQL	766.0	
beta-BHC	BQL	46.0	
Chlordane	BQL	107.0	
delta-BHC	BQL	69.1	
Dieldrin	BQL	15.3	
Endosulfan I	BQL	107.0	
Endosulfan II	BQL	30.6	
Endosulfan sulfate	BQL	506.0	
Endrin	BQL	46.0	
Endrin aldehyde	BQL	176.0	
gamma-BHC (Lindane)	BQL	30.6	
Heptachlor	BQL	23.1	
Heptachlor epoxide	BQL	636.0	
Methoxychlor	BQL	1350.0	
Toxaphene	BQL	1840.0	

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404168-09
Client ID: TC5-C01

Matrix: SOIL
Collected: 04/20/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Arsenic	SW846 7060	21.8	1.04	mg/Kg	1	04/28/94	04/29/94 FU
Lead	SW846 7421	22.0	0.296	mg/Kg	1	04/28/94	04/29/94 FU
Mercury	SW846 7471	0.161	0.079	mg/Kg	1	05/02/94	05/02/94 DH
Selenium	SW846 7740	1.11	0.741	mg/Kg	1	04/28/94	04/29/94 FU
Silver	SW846 7761	0.585	0.247	mg/Kg	1	04/28/94	04/29/94 FU
Barium	SW846 6010	47.8	6.12	mg/Kg	1	04/28/94	04/29/94 MB
Cadmium	SW846 6010	BQL	1.58	mg/Kg	1	04/28/94	04/29/94 MB
Chromium	SW846 6010	55.4	4.10	mg/Kg	1	04/28/94	04/29/94 MB
Copper	SW846 6010	30.2	8.05	mg/Kg	1	04/28/94	04/29/94 MB
Iron	SW846 6010	41000.0	136.0	mg/Kg	5	04/28/94	04/29/94 MB
Nickel	SW846 6010	33.7	14.2	mg/Kg	1	04/28/94	04/29/94 MB
Zinc	SW846 6010	120.0	5.23	mg/Kg	1	04/28/94	04/29/94 MB

GP ID: 9404168-19
Client ID: CC7-C01

Matrix: SOIL
Collected: 04/21/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Arsenic	SW846 7060	7.58	0.961	mg/Kg	1	04/28/94	04/29/94 FU
Lead	SW846 7421	106.0	1.37	mg/Kg	5	04/28/94	04/29/94 FU
Mercury	SW846 7471	0.849	0.073	mg/Kg	1	05/02/94	05/02/94 DH
Selenium	SW846 7740	3.34	0.686	mg/Kg	1	04/28/94	04/29/94 FU
Silver	SW846 7761	0.568	0.229	mg/Kg	1	04/28/94	04/29/94 FU
Barium	SW846 6010	88.0	5.68	mg/Kg	1	04/28/94	04/29/94 MB
Cadmium	SW846 6010	BQL	1.46	mg/Kg	1	04/28/94	04/29/94 MB
Chromium	SW846 6010	103.0	3.80	mg/Kg	1	04/28/94	04/29/94 MB
Copper	SW846 6010	140.0	7.46	mg/Kg	1	04/28/94	04/29/94 MB
Iron	SW846 6010	46800.0	126.0	mg/Kg	5	04/28/94	04/29/94 MB
Nickel	SW846 6010	27.9	13.2	mg/Kg	1	04/28/94	04/29/94 MB
Zinc	SW846 6010	238.0	4.85	mg/Kg	1	04/28/94	04/29/94 MB

GP ENVIRONMENTAL SERVICES
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9404168-09 Matrix: SOIL
Client ID: TC5-C01 Collected: 04/20/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	BQL	618.0	mg/Kg			05/04/94 CM
Phosphorus, Total	MCAWW 365.2	867.0	15.8	mg/Kg	5		05/06/94 VM
Percent Solids	MCAWW 160.3	40.5		%			05/03/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	2950.0	11.8	mg/Kg	1		05/05/94 JS
Total Organic Carbon	MCAWW 415.1	18700.0	988.0	mg/kg	1		05/04/94 VHM

GP ID: 9404168-10 Matrix: SOIL
Client ID: CC7-EB27 Collected: 04/21/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	34.2		%			05/03/94 MG

GP ID: 9404168-15 Matrix: SOIL
Client ID: CC7-EB29 Collected: 04/21/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Percent Solids	MCAWW 160.3	19.1		%			05/03/94 MG

GP ID: 9404168-19 Matrix: SOIL
Client ID: CC7-C01 Collected: 04/21/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	1490.0	572.0	mg/Kg			05/04/94 CM
Phosphorus, Total	MCAWW 365.2	478.0	7.89	mg/Kg	2		05/06/94 VM
Percent Solids	MCAWW 160.3	43.7		%			05/03/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	2820.0	10.5	mg/Kg	1		05/05/94 JS
Total Organic Carbon	MCAWW 415.1	16700.0	897.0	mg/kg	1		05/04/94 VHM

GP ENVIRONMENTAL SERVICES

Possible notes and definitions for this report:

BQL = Below Quantitation Limit

J = An estimated value, below method detection limit

B = Indicates that the compound was found in the associated blank

E = Indicates that the concentration exceeded the calibration range of the instrument

U = Indicates that the compound was analyzed for but not detected, number indicates the detection limit

D = Indicates that the compound was found in a analysis at a secondary dilution factor

* = Value obtained from a 1:5 dilution

+ = Value obtained from a 1:10 dilution

= Value obtained from a 1:20 dilution

^ = Value obtained from a 1:50 dilution

~ = Value obtained from a 1:100 dilution

! = Value obtained from a 1:250 dilution

@ = Value obtained from a 1:125 dilution (Medium Level)

$ = Value obtained from a 1:1000 dilution

& = Value obtained from a 1:10000 dilution

N = Flashpoint not observed; heated to specified limit

R = Flammable at room temperature

TNTC = Too numerous to count

B.P. = Detection limit taken from boiling point

F.F. = Sample gave off flammable fumes

04-168

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference

1 of 1 Pgs.

Project: BALTIMORE HARBOR
Client: COE
Send Results To: Bob Miller
Address: CENAB-EN-HT PO BOX 1715
BALTIMORE MD 21203
Phone: (410) 962-6744

Turnaround Time
# of Container: SEE BELOW
Container Type: 16 oz / ½ gal / 4 oz / 40 ml
Preservative Used: — / — / — / HCl
Type of Analysis

Sample ID#	Date APR 94	Time	Sample Matrix	Sampler's Initials	See List A below	Eutrophic	Volatiles EPA 8260	Trip Blank							CLIENT COMMENTS
TC5-EB17	20	1015	S/W	JM	3	1									29.7 - 45.0
TC5-EB18	20	1130	S/W	JM	2	1									34.6 - 44.6
TC5-EB19	20	1345	S/W	JM	1	1									40.0 - 45.0
TC5-EB20	20	1515	S/W	JM	4	1									28.5 - 45.0
CC7-EB27	21	0730	S/W	RM	2	1	2	2							29.9 - 45.0
CC7-EB28	21	0830	S/W	RM	3	1									30.0 - 45.0
CC7-EB29	21	0900	S/W	RM	4	1	2								32.1 - 45.0
CC7-EB30	21	0930	S/W	RM	3	1									35.8 - 45.0

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Robert Miller	21 Apr 94 1610	M. Miles 4/21/94 1510	M. Miles 4/21/94	[illegible]	4/22/94 9:00 am

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
			LIST A: TKN / TOT PHOS / pH / O&G / SVOA / PEST / PCB / METALS	5°C 5°C

GT ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No. 94-04169

Client Name BALT COE

Date Received 4/21/94

Time Received 3:10p

Received By M. Miller

Carrier Name M. Miller

Prepared (Logged In) By [illegible] / 4/22/94 (Initials / Date)

Project BALT COE

Site BALT HARBOR

VOA Holding Blank I.D. No. _____

	YES	NO
Airbill/Manifest Present? No. _____	—	N/A
Shipping Container in Good Condition?	✓	—
Custody Seals Present on Shipping Container? Condition: Good ✓ Broken ____	✓	—
Chain-of-Custody Present?	✓	—
Chain-of-Custody Agrees with Sample Labels?	✓	—
Chain-of-Custody Signed?	✓	—
Packing Present in Shipping Container? Type of Packing foam	✓	—
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____	—	N/A
Total Number of Sample Bottles 36		
Total Number of Samples 8		
Samples Intact?	✓	—
Sufficient Sample Volume for Indicated Test?	✓	—

	YES	NO
Trip Blanks Received? No. of Sets _____	—	N/A
VOA Vials Have Zero Headspace?	✓	N/A
Preservatives Added to Sample?	✓	—
pH Check Required? Performed By? _____	—	N/A
Ice Present in Shipping Container?	✓	—

Container#	Temperature
1	8°C
2	5°C

Project Manager Contacted?
Name: FRIEDLANDER
Date Contacted: 4/22/94

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: _____

GP Work Order # 9404059

SAMPLE ANALYSIS REPORT

Prepared For:

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201

BALTIMORE HARBOR

Prepared By:

GP Environmental Services, Inc.
202 Perry Parkway
Gaithersburg, Maryland 20877

May 13, 1994

Albert Ellis by MH.

Albert Ellis, Laboratory Director

GP ENVIRONMENTAL SERVICES
ANALYTICAL RESULTS

Project: BALTIMORE HARBOR

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201
Atten: /

GP ENVIRONMENTAL SERVICES
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by:

SAMPLE IDENTIFICATION

GP ID	Client ID
9404059-01A	SL1-EB01-S1
9404059-02A	SL1-EB01-S2
9404059-03A	SL1-EB01-S3
9404059-04A	SL1-EB02-S1
9404059-05A	SL1-EB02-S2
9404059-06A	SL1-EB02-S3
9404059-07A	SL1-EB03-S1
9404059-08A	SL1-EB03-S2
9404059-09A	SL1-EB03-S3
9404059-10A	SL1-EB04-S1
9404059-11A	SL1-EB04-S2
9404059-12A	SL1-EB04-S3
9404059-13A	SL1C01
9404059-14A	AA2-EB05-S1
9404059-15A	AA2-EB05-S2
9404059-16A	AA2-EB05-S3
9404059-17A	AA2-EB06-S1
9404059-18A	AA2-EB06-S2
9404059-19A	AA2-EB06-S3
9404059-20A	AA2-EB07-S1

SAMPLE IDENTIFICATION

GP ID	Client ID
9404059-21A	AA2-EB07-S2
9404059-22A	AA2-EB07-S3
9404059-23A	AA2-EB08-S1
9404059-24A	AA2-EB08-S2
9404059-25A	AA2-EB08-S3
9404059-26A	AA2C01
9404059-27A	AA3-EB09-S1
9404059-28A	AA3-EB09-S2
9404059-29A	AA3-EB09-S3
9404059-30A	AA3-EB10-S1
9404059-31A	AA3-EB10-S2
9404059-32A	AA3-EB10-S3
9404059-33A	AA3-EB11-S1
9404059-34A	AA3-EB11-S2
9404059-35A	AA3-EB11-S3
9404059-36A	AA3-EB12-S1
9404059-37A	AA3-EB12-S2
9404059-38A	AA3-EB12-S3
9404059-39A	AA3C01

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404059-13A
Client ID: SL1C01
Collected: 04/06/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 04/18/94
Prepared: 04/14/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	515.0	
1,2-Dichlorobenzene	BQL	515.0	
1,3-Dichlorobenzene	BQL	515.0	
1,4-Dichlorobenzene	BQL	515.0	
2,4,5-Trichlorophenol	BQL	515.0	
2,4,6-Trichlorophenol	BQL	515.0	
2,4-Dichlorophenol	BQL	515.0	
2,4-Dimethylphenol	BQL	515.0	
2,4-Dinitrophenol	BQL	2570.0	
2,4-Dinitrotoluene	BQL	515.0	
2,6-Dinitrotoluene	BQL	515.0	
2-Chloronaphthalene	BQL	515.0	
2-Chlorophenol	BQL	515.0	
2-Methylnaphthalene	BQL	515.0	
2-Methylphenol	BQL	515.0	
2-Nitroaniline	BQL	2570.0	
2-Nitrophenol	BQL	515.0	
3,3'-Dichlorobenzidine	BQL	1030.0	
3-Nitroaniline	BQL	2570.0	
4,6-Dinitro-2-methylphenol	BQL	2570.0	
4-Bromophenyl-phenylether	BQL	515.0	
4-Chloro-3-methylphenol	BQL	1030.0	
4-Chloroaniline	BQL	1030.0	
4-Chlorophenyl phenyl ether	BQL	515.0	
4-Methylphenol	BQL	515.0	
4-Nitroaniline	BQL	2570.0	
4-Nitrophenol	BQL	2570.0	
Acenaphthene	BQL	515.0	
Acenaphthylene	BQL	515.0	
Anthracene	BQL	515.0	
Benzoic acid	BQL	2570.0	
Benzo[a]anthracene	BQL	515.0	
Benzo[a]pyrene	217.0	515.0	J

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404059-13A
Client ID: SL1C01
Collected: 04/06/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 04/18/94
Prepared: 04/14/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	515.0	
Benzo[g,h,i]perylene	BQL	515.0	
Benzo[k]fluoranthene	BQL	515.0	
Benzyl alcohol	BQL	1030.0	
bis(2-Chloroethoxy) methane	BQL	515.0	
bis(2-Chloroethyl) ether	BQL	515.0	
bis(2-Chloroisopropyl) ether	BQL	515.0	
bis(2-Ethylhexyl)phthalate	BQL	515.0	
Butyl benzyl phthalate	BQL	515.0	
Chrysene	BQL	515.0	
di-n-Butylphthalate	BQL	515.0	
di-n-Octylphthalate	BQL	515.0	
Dibenzofuran	BQL	515.0	
Dibenz[a,h]anthracene	BQL	515.0	
Diethylphthalate	BQL	515.0	
Dimethyl phthalate	BQL	515.0	
Fluoranthene	BQL	515.0	
Fluorene	BQL	515.0	
Hexachlorobenzene	BQL	515.0	
Hexachlorobutadiene	BQL	515.0	
Hexachlorocyclopentadiene	BQL	515.0	
Hexachloroethane	BQL	515.0	
Indeno[1,2,3-cd]pyrene	BQL	515.0	
Isophorone	BQL	515.0	
N-Nitroso-di-n-propylamine	BQL	515.0	
N-nitrosodiphenylamine	BQL	515.0	
Naphthalene	BQL	515.0	
Nitrobenzene	BQL	515.0	
Pentachlorophenol	BQL	2570.0	
Phenanthrene	BQL	515.0	
Phenol	BQL	515.0	
Pyrene	BQL	515.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404059-26A
Client ID: AA2C01
Collected: 04/06/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 04/18/94
Prepared: 04/14/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	776.0	
1,2-Dichlorobenzene	BQL	776.0	
1,3-Dichlorobenzene	BQL	776.0	
1,4-Dichlorobenzene	BQL	776.0	
2,4,5-Trichlorophenol	BQL	776.0	
2,4,6-Trichlorophenol	BQL	776.0	
2,4-Dichlorophenol	BQL	776.0	
2,4-Dimethylphenol	BQL	776.0	
2,4-Dinitrophenol	BQL	3880.0	
2,4-Dinitrotoluene	BQL	776.0	
2,6-Dinitrotoluene	BQL	776.0	
2-Chloronaphthalene	BQL	776.0	
2-Chlorophenol	BQL	776.0	
2-Methylnaphthalene	BQL	776.0	
2-Methylphenol	BQL	776.0	
2-Nitroaniline	BQL	3880.0	
2-Nitrophenol	BQL	776.0	
3,3'-Dichlorobenzidine	BQL	1550.0	
3-Nitroaniline	BQL	3880.0	
4,6-Dinitro-2-methylphenol	BQL	3880.0	
4-Bromophenyl-phenylether	BQL	776.0	
4-Chloro-3-methylphenol	BQL	1550.0	
4-Chloroaniline	BQL	1550.0	
4-Chlorophenyl phenyl ether	BQL	776.0	
4-Methylphenol	BQL	776.0	
4-Nitroaniline	BQL	3880.0	
4-Nitrophenol	BQL	3880.0	
Acenaphthene	BQL	776.0	
Acenaphthylene	BQL	776.0	
Anthracene	BQL	776.0	
Benzoic acid	BQL	3880.0	
Benzo[a]anthracene	BQL	776.0	
Benzo[a]pyrene	786.0	776.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404059-26A
Client ID: AA2C01
Collected: 04/06/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 04/18/94
Prepared: 04/14/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	776.0	
Benzo[g,h,i]perylene	BQL	776.0	
Benzo[k]fluoranthene	BQL	776.0	
Benzyl alcohol	BQL	1550.0	
bis(2-Chloroethoxy) methane	BQL	776.0	
bis(2-Chloroethyl) ether	BQL	776.0	
bis(2-Chloroisopropyl) ether	BQL	776.0	
bis(2-Ethylhexyl)phthalate	293.0	776.0	J
Butyl benzyl phthalate	BQL	776.0	
Chrysene	BQL	776.0	
di-n-Butylphthalate	BQL	776.0	
di-n-Octylphthalate	BQL	776.0	
Dibenzofuran	BQL	776.0	
Dibenz[a,h]anthracene	BQL	776.0	
Diethylphthalate	BQL	776.0	
Dimethyl phthalate	BQL	776.0	
Fluoranthene	247.0	776.0	J
Fluorene	BQL	776.0	
Hexachlorobenzene	BQL	776.0	
Hexachlorobutadiene	BQL	776.0	
Hexachlorocyclopentadiene	BQL	776.0	
Hexachloroethane	BQL	776.0	
Indeno[1,2,3-cd]pyrene	BQL	776.0	
Isophorone	BQL	776.0	
N-Nitroso-di-n-propylamine	BQL	776.0	
N-nitrosodiphenylamine	BQL	776.0	
Naphthalene	BQL	776.0	
Nitrobenzene	BQL	776.0	
Pentachlorophenol	BQL	3880.0	
Phenanthrene	BQL	776.0	
Phenol	BQL	776.0	
Pyrene	282.0	776.0	J

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404059-39A
Client ID: AA3C01
Collected: 04/07/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 04/18/94
Prepared: 04/14/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	818.0	
1,2-Dichlorobenzene	BQL	818.0	
1,3-Dichlorobenzene	BQL	818.0	
1,4-Dichlorobenzene	BQL	818.0	
2,4,5-Trichlorophenol	BQL	818.0	
2,4,6-Trichlorophenol	BQL	818.0	
2,4-Dichlorophenol	BQL	818.0	
2,4-Dimethylphenol	BQL	818.0	
2,4-Dinitrophenol	BQL	4090.0	
2,4-Dinitrotoluene	BQL	818.0	
2,6-Dinitrotoluene	BQL	818.0	
2-Chloronaphthalene	BQL	818.0	
2-Chlorophenol	BQL	818.0	
2-Methylnaphthalene	BQL	818.0	
2-Methylphenol	BQL	818.0	
2-Nitroaniline	BQL	4090.0	
2-Nitrophenol	BQL	818.0	
3,3'-Dichlorobenzidine	BQL	1640.0	
3-Nitroaniline	BQL	4090.0	
4,6-Dinitro-2-methylphenol	BQL	4090.0	
4-Bromophenyl-phenylether	BQL	818.0	
4-Chloro-3-methylphenol	BQL	1640.0	
4-Chloroaniline	BQL	1640.0	
4-Chlorophenyl phenyl ether	BQL	818.0	
4-Methylphenol	BQL	818.0	
4-Nitroaniline	BQL	4090.0	
4-Nitrophenol	BQL	4090.0	
Acenaphthene	BQL	818.0	
Acenaphthylene	BQL	818.0	
Anthracene	BQL	818.0	
Benzoic acid	202.0	4090.0	J
Benzo[a]anthracene	BQL	818.0	
Benzo[a]pyrene	708.0	818.0	J

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404059-39A
Client ID: AA3C01
Collected: 04/07/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: IM
Analyzed: 04/18/94
Prepared: 04/14/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	818.0	
Benzo[g,h,i]perylene	BQL	818.0	
Benzo[k]fluoranthene	BQL	818.0	
Benzyl alcohol	BQL	1640.0	
bis(2-Chloroethoxy) methane	BQL	818.0	
bis(2-Chloroethyl) ether	BQL	818.0	
bis(2-Chloroisopropyl) ether	BQL	818.0	
bis(2-Ethylhexyl)phthalate	177.0	818.0	J
Butyl benzyl phthalate	BQL	818.0	
Chrysene	BQL	818.0	
di-n-Butylphthalate	BQL	818.0	
di-n-Octylphthalate	BQL	818.0	
Dibenzofuran	BQL	818.0	
Dibenz[a,h]anthracene	BQL	818.0	
Diethylphthalate	BQL	818.0	
Dimethyl phthalate	BQL	818.0	
Fluoranthene	163.0	818.0	J
Fluorene	BQL	818.0	
Hexachlorobenzene	BQL	818.0	
Hexachlorobutadiene	BQL	818.0	
Hexachlorocyclopentadiene	BQL	818.0	
Hexachloroethane	BQL	818.0	
Indeno[1,2,3-cd]pyrene	BQL	818.0	
Isophorone	BQL	818.0	
N-Nitroso-di-n-propylamine	BQL	818.0	
N-nitrosodiphenylamine	BQL	818.0	
Naphthalene	BQL	818.0	
Nitrobenzene	BQL	818.0	
Pentachlorophenol	BQL	4090.0	
Phenanthrene	BQL	818.0	
Phenol	BQL	818.0	
Pyrene	194.0	818.0	J

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404059-13A
Client ID: SL1C01
Collected: 04/06/94
Dilution: 1

Matrix: SOIL
Method: SW846 8080
Units: ug/Kg

Analyst: PH
Analyzed: 05/18/94
Prepared: 04/14/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	5.76	
4,4'-DDE	BQL	2.09	
4,4'-DDT	BQL	6.27	
Aldrin	BQL	2.09	
alpha-BHC	BQL	1.58	
Aroclor 1016	BQL	26.1	
Aroclor 1221	BQL	26.1	
Aroclor 1232	BQL	26.1	
Aroclor 1242	BQL	34.0	
Aroclor 1248	BQL	52.3	
Aroclor 1254	BQL	52.3	
Aroclor 1260	BQL	52.3	
beta-BHC	BQL	3.14	
Chlordane	BQL	7.32	
delta-BHC	BQL	4.71	
Dieldrin	BQL	1.04	
Endosulfan I	BQL	7.32	
Endosulfan II	BQL	2.09	
Endosulfan sulfate	BQL	34.5	
Endrin	BQL	3.14	
Endrin aldehyde	BQL	12.0	
gamma-BHC (Lindane)	BQL	2.09	
Heptachlor	BQL	1.58	
Heptachlor epoxide	BQL	43.4	
Methoxychlor	BQL	92.0	
Toxaphene	BQL	125.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404059-26A
Client ID: AA2C01
Collected: 04/06/94
Dilution: 1

Matrix: SOIL
Method: SW846 8080
Units: ug/Kg

Analyst: PH
Analyzed: 05/18/94
Prepared: 04/14/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	8.67	
4,4'-DDE	BQL	3.15	
4,4'-DDT	BQL	9.45	
Aldrin	BQL	3.15	
alpha-BHC	BQL	2.37	
Aroclor 1016	BQL	39.4	
Aroclor 1221	BQL	39.4	
Aroclor 1232	BQL	39.4	
Aroclor 1242	BQL	51.2	
Aroclor 1248	BQL	78.7	
Aroclor 1254	BQL	78.7	
Aroclor 1260	BQL	78.7	
beta-BHC	BQL	4.72	
Chlordane	BQL	11.0	
delta-BHC	BQL	7.10	
Dieldrin	BQL	1.57	
Endosulfan I	BQL	11.0	
Endosulfan II	BQL	3.15	
Endosulfan sulfate	BQL	52.0	
Endrin	BQL	4.72	
Endrin aldehyde	BQL	18.1	
gamma-BHC (Lindane)	BQL	3.15	
Heptachlor	BQL	2.37	
Heptachlor epoxide	BQL	65.4	
Methoxychlor	BQL	138.0	
Toxaphene	BQL	189.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404059-39A
Client ID: AA3C01
Collected: 04/07/94
Dilution: 1

Matrix: SOIL
Method: SW846 8080
Units: ug/Kg

Analyst: PH
Analyzed: 05/18/94
Prepared: 04/14/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	9.22	
4,4'-DDE	BQL	3.35	
4,4'-DDT	BQL	10.0	
Aldrin	BQL	3.35	
alpha-BHC	BQL	2.52	
Aroclor 1016	BQL	41.9	
Aroclor 1221	BQL	41.9	
Aroclor 1232	BQL	41.9	
Aroclor 1242	BQL	54.4	
Aroclor 1248	BQL	83.8	
Aroclor 1254	BQL	83.8	
Aroclor 1260	BQL	83.8	
beta-BHC	BQL	5.02	
Chlordane	BQL	11.7	
delta-BHC	BQL	7.55	
Dieldrin	BQL	1.68	
Endosulfan I	BQL	11.7	
Endosulfan II	BQL	3.35	
Endosulfan sulfate	BQL	55.3	
Endrin	BQL	5.02	
Endrin aldehyde	BQL	19.3	
gamma-BHC (Lindane)	BQL	3.35	
Heptachlor	BQL	2.52	
Heptachlor epoxide	BQL	69.5	
Methoxychlor	BQL	147.0	
Toxaphene	BQL	201.0	

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404059-13 Matrix: SOIL
Client ID: SL1C01 Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
Arsenic	SW846 7060	5.35	0.656	mg/Kg	1	04/12/94	04/13/94	FU
Lead	SW846 7421	10.4	0.188	mg/Kg	1	04/12/94	04/13/94	FU
Mercury	SW846 7471	0.120	0.078	mg/Kg	1	04/14/94	04/14/94	MGP
Selenium	SW846 7740	BQL	0.469	mg/Kg	1	04/12/94	04/13/94	FU
Silver	SW846 7761	BQL	0.156	mg/Kg	1	04/12/94	04/13/94	RA
Barium	SW846 6010	38.7	2.89	mg/Kg	1	04/12/94	04/14/94	AR
Cadmium	SW846 6010	BQL	0.659	mg/Kg	1	04/12/94	04/14/94	AR
Chromium	SW846 6010	42.4	2.46	mg/Kg	1	04/12/94	04/14/94	AR
Copper	SW846 6010	23.4	4.97	mg/Kg	1	04/12/94	04/14/94	AR
Iron	SW846 6010	21000.0	57.2	mg/Kg	5	04/12/94	04/14/94	AR
Nickel	SW846 6010	19.3	6.97	mg/Kg	1	04/12/94	04/14/94	AR
Zinc	SW846 6010	60.9	1.83	mg/Kg	1	04/12/94	04/14/94	AR

GP ID: 9404059-26 Matrix: SOIL
Client ID: AA2C01 Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
Arsenic	SW846 7060	11.6	0.988	mg/Kg	1	04/12/94	04/13/94	FU
Lead	SW846 7421	51.5	1.41	mg/Kg	5	04/12/94	04/13/94	FU
Mercury	SW846 7471	0.227	0.118	mg/Kg	1	04/14/94	04/14/94	MGP
Selenium	SW846 7740	BQL	0.706	mg/Kg	1	04/12/94	04/13/94	FU
Silver	SW846 7761	BQL	0.235	mg/Kg	1	04/12/94	04/13/94	RA
Barium	SW846 6010	113.0	4.35	mg/Kg	1	04/12/94	04/14/94	AR
Cadmium	SW846 6010	1.55	0.993	mg/Kg	1	04/12/94	04/14/94	AR
Chromium	SW846 6010	107.0	3.71	mg/Kg	1	04/12/94	04/14/94	AR
Copper	SW846 6010	64.4	7.48	mg/Kg	1	04/12/94	04/14/94	AR
Iron	SW846 6010	40500.0	86.1	mg/Kg	5	04/12/94	04/14/94	AR
Nickel	SW846 6010	34.6	10.5	mg/Kg	1	04/12/94	04/14/94	AR
Zinc	SW846 6010	210.0	2.75	mg/Kg	1	04/12/94	04/14/94	AR

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404059-39
Client ID: AA3C01

Matrix: SOIL
Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
Arsenic	SW846 7060	11.4	1.04	mg/Kg	1	04/12/94	04/13/94	FU
Lead	SW846 7421	42.9	1.48	mg/Kg	5	04/12/94	04/13/94	FU
Mercury	SW846 7471	0.239	0.124	mg/Kg	1	04/12/94	04/14/94	MGP
Selenium	SW846 7740	BQL	0.742	mg/Kg	1	04/12/94	04/13/94	FU
Silver	SW846 7761	BQL	0.248	mg/Kg	1	04/12/94	04/13/94	RA
Barium	SW846 6010	54.3	4.57	mg/Kg	1	04/12/94	04/14/94	AR
Cadmium	SW846 6010	1.60	1.04	mg/Kg	1	04/12/94	04/14/94	AR
Chromium	SW846 6010	77.0	3.90	mg/Kg	1	04/12/94	04/14/94	AR
Copper	SW846 6010	45.2	7.87	mg/Kg	1	04/12/94	04/14/94	AR
Iron	SW846 6010	41000.0	90.6	mg/Kg	5	04/12/94	04/14/94	AR
Nickel	SW846 6010	35.2	11.0	mg/Kg	1	04/12/94	04/14/94	AR
Zinc	SW846 6010	162.0	2.90	mg/Kg	1	04/12/94	04/14/94	AR

GP ENVIRONMENTAL SERVICES
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9404059-13 Matrix: SOIL
Client ID: SL1C01 Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	BQL	391.0	mg/Kg			04/18/94 CM
Phosphorus, Total	MCAWW 365.2	520.0	7.81	mg/Kg			05/06/94 VM
Percent Solids	MCAWW 160.3	64.0		%			04/19/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	1220.0	7.89	mg/Kg	1		04/26/94 VHM
Total Organic Carbon	MCAWW 415.1	12400.0	334.0	mg/kg	1		05/04/94 VHM

GP ID: 9404059-26 Matrix: SOIL
Client ID: AA2C01 Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Phosphorus, Total	MCAWW 365.2	300.0	5.88	mg/Kg			05/06/94 VM
Percent Solids	MCAWW 160.3	42.5		%			04/19/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	4150.0	10.6	mg/Kg	1		04/26/94 VHM
Total Organic Carbon	MCAWW 415.1	22700.0	896.0	mg/kg	1		05/04/94 VHM

GP ID: 9404059-39 Matrix: SOIL
Client ID: AA3C01 Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	1140.0	619.0	mg/Kg			04/18/94 CM
Phosphorus, Total	MCAWW 365.2	989.0	13.8	mg/Kg			05/06/94 VM
Percent Solids	MCAWW 160.3	40.4		%			04/19/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	2760.0	11.9	mg/Kg	1		04/26/94 VHM
Total Organic Carbon	MCAWW 415.1	22400.0	961.0	mg/kg	1		05/04/94 VHM

GP ENVIRONMENTAL SERVICES

Possible notes and definitions for this report:

BQL = Below Quantitation Limit

J = An estimated value, below method detection limit

B = Indicates that the compound was found in the associated blank

E = Indicates that the concentration exceeded the calibration range of the instrument

U = Indicates that the compound was analyzed for but not detected, number indicates the detection limit

D = Indicates that the compound was found in a analysis at a secondary dilution factor

* = Value obtained from a 1:5 dilution

+ = Value obtained from a 1:10 dilution

= Value obtained from a 1:20 dilution

^ = Value obtained from a 1:50 dilution

~ = Value obtained from a 1:100 dilution

! = Value obtained from a 1:250 dilution

@ = Value obtained from a 1:125 dilution (Medium Level)

$ = Value obtained from a 1:1000 dilution

& = Value obtained from a 1:10000 dilution

N = Flashpoint not observed; heated to specified limit

R = Flammable at room temperature

TNTC = Too numerous to count

B.P. = Detection limit taken from boiling point

F.F. = Sample gave off flammable fumes

04-059

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St., Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date APR94	Time	Sample Matrix	Sampler's Initials	Elutriate	TCL SVOC/PEST/PCB/Metals/TKN/TOT PHOS, pH, OGG	TCL SVOC/PEST/PCB/Metals/TKN/TOT PHOS, pH, OGG								CLIENT COMMENTS
Turnaround Time															
# of Container					1	1	1								
Container Type					½ gal	16 oz	8 oz								
Preservative Used					—	—	—								
SL1-EB01-S1	Ø6	113Ø	$	JM		X									3.Ø – 18.Ø
SL1-EB01-S2	Ø6	113Ø	$	JM			X								3.Ø – 18.Ø
SL1-EB01-S3	Ø6	Ø935	W	JM	X										
SL1-EB02-S1	Ø6	123Ø	$	JM		X									35.8 – 46.2
SL1-EB02-S2	Ø6	123Ø	$	JM			X								35.8 – 46.2
SL1-EB02-S3	Ø6	1ØØ5	W	JM	X										
SL1-EB03-S1	Ø6	13ØØ	$	JM		X									31.Ø9 – 41.Ø9
SL1-EB03-S2	Ø6	13ØØ	$	JM			X								31.Ø9 – 41.Ø9
SL1-EB03-S3	Ø6	ØØØØ	W	JM	X										
SL1-EB04-S1	Ø6	131Ø	$	JM		X									39.Ø – 45.7
SL1-EB04-S2	Ø6	131Ø	$	JM			X								39.Ø – 45.7
SL1-EB04-S3	Ø6	1Ø45	W	JM	X										

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	Ø6 Apr 94 1ØØØ	[signature]	[signature]	[signature]	4/7/94 11:34
Relinquished By:	**Date/Time**	**Received By:**	**Date/Time** / **Shipper:**	**Airbill No.:**	
[signature]	4/7/94 6	[signature]	4/8/94 9:50 am		
Relinquished By:	**Date/Time**	**Received By:**	**Lab Comments:**		**Temp:**

ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Turnaround Time														
# of Container	1	1	1											
Container Type	16 oz	8 oz	½ gal											
Preservative Used	—	—	—											
Type of Analysis	TKN/Tot Phos/pH OEG/SVOA/PCB/METALS	TKN/Tot Phos/pH OEG/SVOA/PCB/METALS	Elutriate											

Sample ID#	Date APR 94	Time	Sample Matrix	Sampler's Initials	TKN/Tot Phos/pH OEG/SVOA/PCB/METALS	TKN/Tot Phos/pH OEG/SVOA/PCB/METALS	Elutriate	CLIENT COMMENTS
A3-EB11-$3	~~13~~ 07	1300	W	JM			X	DATE IS "07"
A3-EB11-$1	07	1330	$	JM	X			40.25 – 45.0
A3-EB11-$2	07	1330	$	JM		X		40.25 – 45.0
A3-EB12-$3	07	1310	W	JM			X	
A3-EB12-$1	07	1320	$	JM	X			30.7 – 45.0
A3-EB12-$2	07	1320	$	JM		X		30.7 – 45.0
A4-EB13-$3	07	1355	W	JM			X	
A4-EB-13-$0	07	1355	W	JM			X	
A4-EB-13-$1	07	1405	$	JM	X			40.7 – 45.0
A4-EB-13-$2	07	1405	$	JM		X		40.7 – 45.0
A4-EB13-$4	07	1405	$	JM	X			40.7 – 45.0
A4-EB13-$5	07	1405	$	JM		X		40.7 – 45.0

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	07 APR 94 / 1930	C. Kirkland	Robert Miller	M. Miles	4/8/94 / 1535
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
M. Miles	4/8/94 / 3P				
Relinquished By:	Date/Time	Received By:	Lab Comments:		Temp:
		C. Thomas 4/11/94 8:30 AM			5°C

P ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date Apr 94	Time	Sample Matrix	Sampler's Initials	Explosives	TCL/SVOC/Pest/TOC PCB/Metals/TPH/O&G TOC plus Lipids	TCL/SVOC/Pest/TOC PCB/Metals/TPH/O&G TOC plus Lipids								CLIENT COMMENTS
Turnaround Time															
# of Container						1	1								
Container Type						½ gal	16 oz	8 oz							
Preservative Used						—	—	—							
AA2-EB05-S1	Ø6	1435	$	JM		X									43.Ø - 45.Ø
AA2-EB05-S2	Ø6	1435	$	JM			X								43.Ø - 45.Ø
AA2-EB05-S3	Ø6	1425	W	JM	X										
AA2-EB06-S1	Ø6	1415	$	JM		X									33.1 - 45.Ø
AA2-EB06-S2	Ø6	1415	$	JM			X								33.1 - 45.Ø
AA2-EB06-S3	Ø6	135Ø	W	JM	X										
AA2-EB07-S1	Ø6	15ØØ	$	JM		X									43.83 - 45.Ø
AA2-EB07-S2	Ø6	15ØØ	$	JM			X								43.83 - 45.Ø
AA2-EB07-S3	Ø6	1445	W	JM	X										
AA2-EB08-S1	Ø6	153Ø	$	JM		X									31.3 - 44.2
AA2-EB08-S2	Ø6	153Ø	$	JM			X								31.3 - 44.2
AA2-EB08-S3	Ø6	151Ø	W	JM	X										

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	Ø6 Apr 94 1ØØØ	Robert Miller	Robert Miller	M. Miles	4/7/94 11-50
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
M. Miles	4/7/94 6	[signature]	4/8/94 9:00		
Relinquished By:	Date/Time	Received By:	Lab Comments:		
					Tel 2°C

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date APR 94	Time	Sample Matrix	Sampler's Initials	Elutriate	TCL/SVOC/Pest/Tox/PCB/Metals/TKN/TOT phos/pH/O&G	TCL/SVOC/Pest/Tox/PCB/Metals/TKN/TOT phos/pH/O&G								CLIENT COMMENTS
Turnaround Time															
# of Container						1	1	1							
Container Type						1 gal	16 oz	8 oz							
Preservative Used						—	—	—							
AA3-EB09-S1	Ø6	16ØØ	$	JM		X									44.2 – 45.Ø
AA3-EB09-S2	Ø6	16ØØ	$	JM			X								44.2 – 45.Ø
AA3-EB09-S3	Ø6	154Ø	W	JM	X										
~~AA3-EB09-S4~~	NOT USED														
~~AA3-EB09-S5~~	NOT USED														
~~AA3-EB09-S6~~	NOT USED														
AA3-EB10-S1	Ø6	163Ø	$	JM		X									35.4 – 45.Ø
AA3-EB10-S2	Ø6	163Ø	$	JM			X								35.4 – 45.Ø
AA3-EB10-S3	Ø6	161Ø	W	JM	X										
~~AA3-EB10-S4~~	NOT USED														
~~AA3-EB10-S5~~	NOT USED														
~~AA3-EB10-S6~~	NOT USED														

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	Ø6 APR 94 1ØØØ	Robert Miller	Robert Miller	M - Miles	4/7/94 11:30am
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
M - Miles	4/7/94 6r	[signature]	4/8/94 9:50am		
Relinquished By:	Date/Time	Received By:	Lab Comments:		Temp: 2°C

GP ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No. 9404059

Client Name USACE

Date Received 4/7/94

Time Received 11:30 AM

Received By A.M.K.

Carrier Name A.M.K.

Prepared (Logged In) By RG (Initials), 4/8/94 (Date)

Project Bath Harbor

Site BART.

VOA Holding Blank I.D. No. _____

	YES	NO
Airbill/Manifest Present? No. _____		NA
Shipping Container in Good Condition?	✓	
Custody Seals Present on Shipping Container? Condition: Good ✓ Broken ____	✓	
Chain-of-Custody Present?	✓	
Chain-of-Custody Agrees with Sample Labels?	✓	
Chain-of-Custody Signed?	✓	
Packing Present in Shipping Container? Type of Packing Foam	✓	
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____		NA
Total Number of Sample Bottles 30		
Total Number of Samples 30		
Samples Intact?	✓	
Sufficient Sample Volume for Indicated Test?	✓	

	YES	NO
Trip Blanks Received? No. of Sets _____		NA
VOA Vials Have Zero Headspace?		NA
Preservatives Added to Sample?		NA
pH Check Required? Performed By? _____		NA
Ice Present in Shipping Container?	✓	

Container#	Temperature
1	2°C

Project Manager Contacted?
Name: FRIEDLANDER
Date Contacted: 4/8/94

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: Jed and okayed by A.F. 4/12/94 labeling okayed by A.F. 4/12/94 RG.

GP Work Order # 9404071
9404073

SAMPLE ANALYSIS REPORT

Prepared For:

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201

BALTIMORE HARBOR

Prepared By:

GP Environmental Services, Inc.
202 Perry Parkway
Gaithersburg, Maryland 20877

June 07, 1994

for Albert Ellis, Laboratory Director

GP ENVIRONMENTAL SERVICES
ANALYTICAL RESULTS

Project: BALTIMORE HARBOR

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201
Atten: /

GP ENVIRONMENTAL SERVICES
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by: CB

SAMPLE IDENTIFICATION

GP ID	Client ID
9404071-01A	AA4-EB13-S3
9404071-02A	AA4-EB13-S1
9404071-03A	AA4-EB13-S2
9404071-04A	AA4-EB14-S3
9404071-05A	AA4-EB14-S1
9404071-06A	AA4-EB14-S2
9404071-07A	AA4-EB15-S3
9404071-08A	AA4-EB15-S1
9404071-09A	AA4-EB15-S2
9404071-10A	AA4-EB16-S3
9404071-11A	AA4-EB16-S1
9404071-12A	AA4-EB16-S2
9404071-13A	AA4-CO1
9404071-14A	AA4-EB13-S6
9404071-15A	AA4-EB13-S4
9404071-16A	AA4-EB13-S5
9404071-17A	AA4-EB14-S6
9404071-18A	AA4-EB14-S4
9404071-19A	AA4-EB14-S5
9404071-20A	AA4-EB15-S6
9404071-21A	AA4-EB15-S4
9404071-22A	AA4-EB15-S5
9404071-23A	AA4-EB16-S6
9404071-24A	AA4-EB16-S4
9404071-25A	AA4-EB16-S5
9404071-26A	AA4-CO2
9404073-01A	TC5-EB17-S3
9404073-02A	TC5-EB18-S1

SAMPLE IDENTIFICATION

GP ID	Client ID
9404073-03A	TC5-EB18-S2
9404073-04A	TC5-EB18-S3
9404073-05A	TC5-EB19-S1
9404073-06A	TC5-EB19-S2
9404073-07A	TC5-EB19-S3
9404073-08A	TC5-EB20-S1
9404073-09A	TC5-EB20-S2
9404073-10A	TC5-EB20-S3
9404073-12A	TC6-EB21-S1
9404073-13A	TC6-EB21-S2
9404073-14A	TC6-EB21-S3
9404073-15A	TC6-EB22-S1
9404073-16A	TC6-EB22-S2
9404073-17A	TC6-EB22-S3
9404073-18A	TC6-EB23-S1
9404073-19A	TC6-EB23-S2
9404073-20A	TC6-EB23-S3
9404073-21A	TC6-EB24-S1
9404073-22A	TC6-EB24-S2
9404073-23A	TC6-EB24-S3
9404073-24A	TC6-EB25-S1
9404073-25A	TC6-EB25-S2
9404073-26A	TC6-EB25-S3
9404073-27A	TC6-EB26-S1
9404073-28A	TC6-EB26-S2
9404073-29A	TC6-EB26-S3
9404073-30A	TC6-C01
9404073-31A	TC6-EB23-S7
9404073-32A	TC6-EB24-S4/5/6/7/8/9

SAMPLE IDENTIFICATION

GP ID	Client ID
9404073-32B	
9404073-32C	
9404073-32D	
9404073-32E	
9404073-32F	
9404073-32G	
9404073-32H	
9404073-32I	
9404073-32J	
9404073-32K	
9404073-32L	
9404073-32M	
9404073-32N	
9404073-33A	CC7-EB27-S1
9404073-34A	CC7-EB27-S2
9404073-35A	CC7-EB27-S3
9404073-36A	CC7-EB28-S1
9404073-37A	CC7-EB28-S2
9404073-38A	CC7-EB28-S3
9404073-39A	CC7-EB29-S1
9404073-40A	CC7-EB29-S2
9404073-41A	CC7-EB29-S3
9404073-42A	CC7-EB30-S1
9404073-43A	CC7-EB30-S2
9404073-44A	CC7-EB30-S3

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404071-13A
Client ID: AA4-C01
Collected: 04/07/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: YY
Analyzed: 05/03/94
Prepared: 04/18/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	851.0	
1,2-Dichlorobenzene	BQL	851.0	
1,3-Dichlorobenzene	BQL	851.0	
1,4-Dichlorobenzene	BQL	851.0	
2,4,5-Trichlorophenol	BQL	851.0	
2,4,6-Trichlorophenol	BQL	851.0	
2,4-Dichlorophenol	BQL	851.0	
2,4-Dimethylphenol	BQL	851.0	
2,4-Dinitrophenol	BQL	4260.0	
2,4-Dinitrotoluene	BQL	851.0	
2,6-Dinitrotoluene	BQL	851.0	
2-Chloronaphthalene	BQL	851.0	
2-Chlorophenol	BQL	851.0	
2-Methylnaphthalene	BQL	851.0	
2-Methylphenol	BQL	851.0	
2-Nitroaniline	BQL	4260.0	
2-Nitrophenol	BQL	851.0	
3,3'-Dichlorobenzidine	BQL	1700.0	
3-Nitroaniline	BQL	4260.0	
4,6-Dinitro-2-methylphenol	BQL	4260.0	
4-Bromophenyl-phenylether	BQL	851.0	
4-Chloro-3-methylphenol	BQL	1700.0	
4-Chloroaniline	BQL	1700.0	
4-Chlorophenyl phenyl ether	BQL	851.0	
4-Methylphenol	BQL	851.0	
4-Nitroaniline	BQL	4260.0	
4-Nitrophenol	BQL	4260.0	
Acenaphthene	BQL	851.0	
Acenaphthylene	BQL	851.0	
Anthracene	BQL	851.0	
Benzoic acid	BQL	4260.0	
Benzo[a]anthracene	BQL	851.0	
Benzo[a]pyrene	BQL	851.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404071-13A
Client ID: AA4-C01
Collected: 04/07/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: YY
Analyzed: 05/03/94
Prepared: 04/18/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	851.0	
Benzo[g,h,i]perylene	BQL	851.0	
Benzo[k]fluoranthene	BQL	851.0	
Benzyl alcohol	BQL	1700.0	
bis(2-Chloroethoxy) methane	BQL	851.0	
bis(2-Chloroethyl) ether	BQL	851.0	
bis(2-Chloroisopropyl) ether	BQL	851.0	
bis(2-Ethylhexyl)phthalate	564.0	851.0	J
Butyl benzyl phthalate	BQL	851.0	
Chrysene	BQL	851.0	
di-n-Butylphthalate	312.0	851.0	J
di-n-Octylphthalate	BQL	851.0	
Dibenzofuran	BQL	851.0	
Dibenz[a,h]anthracene	BQL	851.0	
Diethylphthalate	BQL	851.0	
Dimethyl phthalate	BQL	851.0	
Fluoranthene	310.0	851.0	J
Fluorene	BQL	851.0	
Hexachlorobenzene	BQL	851.0	
Hexachlorobutadiene	BQL	851.0	
Hexachlorocyclopentadiene	BQL	851.0	
Hexachloroethane	BQL	851.0	
Indeno[1,2,3-cd]pyrene	BQL	851.0	
Isophorone	BQL	851.0	
N-Nitroso-di-n-propylamine	BQL	851.0	
N-nitrosodiphenylamine	BQL	851.0	
Naphthalene	106.0	851.0	J
Nitrobenzene	BQL	851.0	
Pentachlorophenol	BQL	4260.0	
Phenanthrene	BQL	851.0	
Phenol	BQL	851.0	
Pyrene	296.0	851.0	J

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404071-26A
Client ID: AA4-C02
Collected: 04/07/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: YY
Analyzed: 05/03/94
Prepared: 04/18/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	851.0	
1,2-Dichlorobenzene	BQL	851.0	
1,3-Dichlorobenzene	BQL	851.0	
1,4-Dichlorobenzene	BQL	851.0	
2,4,5-Trichlorophenol	BQL	851.0	
2,4,6-Trichlorophenol	BQL	851.0	
2,4-Dichlorophenol	BQL	851.0	
2,4-Dimethylphenol	BQL	851.0	
2,4-Dinitrophenol	BQL	4260.0	
2,4-Dinitrotoluene	BQL	851.0	
2,6-Dinitrotoluene	BQL	851.0	
2-Chloronaphthalene	BQL	851.0	
2-Chlorophenol	BQL	851.0	
2-Methylnaphthalene	BQL	851.0	
2-Methylphenol	BQL	851.0	
2-Nitroaniline	BQL	4260.0	
2-Nitrophenol	BQL	851.0	
3,3'-Dichlorobenzidine	BQL	1700.0	
3-Nitroaniline	BQL	4260.0	
4,6-Dinitro-2-methylphenol	BQL	4260.0	
4-Bromophenyl-phenylether	BQL	851.0	
4-Chloro-3-methylphenol	BQL	1700.0	
4-Chloroaniline	BQL	1700.0	
4-Chlorophenyl phenyl ether	BQL	851.0	
4-Methylphenol	BQL	851.0	
4-Nitroaniline	BQL	4260.0	
4-Nitrophenol	BQL	4260.0	
Acenaphthene	BQL	851.0	
Acenaphthylene	BQL	851.0	
Anthracene	BQL	851.0	
Benzoic acid	BQL	4260.0	
Benzo[a]anthracene	BQL	851.0	
Benzo[a]pyrene	BQL	851.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404071-26A
Client ID: AA4-C02
Collected: 04/07/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: YY
Analyzed: 05/03/94
Prepared: 04/18/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	851.0	
Benzo[g,h,i]perylene	BQL	851.0	
Benzo[k]fluoranthene	BQL	851.0	
Benzyl alcohol	BQL	1700.0	
bis(2-Chloroethoxy) methane	BQL	851.0	
bis(2-Chloroethyl) ether	BQL	851.0	
bis(2-Chloroisopropyl) ether	BQL	851.0	
bis(2-Ethylhexyl)phthalate	BQL	851.0	
Butyl benzyl phthalate	BQL	851.0	
Chrysene	BQL	851.0	
di-n-Butylphthalate	163.0	851.0	J
di-n-Octylphthalate	BQL	851.0	
Dibenzofuran	BQL	851.0	
Dibenz[a,h]anthracene	BQL	851.0	
Diethylphthalate	BQL	851.0	
Dimethyl phthalate	BQL	851.0	
Fluoranthene	319.0	851.0	J
Fluorene	BQL	851.0	
Hexachlorobenzene	BQL	851.0	
Hexachlorobutadiene	BQL	851.0	
Hexachlorocyclopentadiene	BQL	851.0	
Hexachloroethane	BQL	851.0	
Indeno[1,2,3-cd]pyrene	BQL	851.0	
Isophorone	BQL	851.0	
N-Nitroso-di-n-propylamine	BQL	851.0	
N-nitrosodiphenylamine	BQL	851.0	
Naphthalene	135.0	851.0	J
Nitrobenzene	BQL	851.0	
Pentachlorophenol	BQL	4260.0	
Phenanthrene	BQL	851.0	
Phenol	BQL	851.0	
Pyrene	369.0	851.0	J

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404073-30A
Client ID: TC6-C01
Collected: 04/08/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: YY
Analyzed: 05/03/94
Prepared: 04/18/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	650.0	
1,2-Dichlorobenzene	BQL	650.0	
1,3-Dichlorobenzene	BQL	650.0	
1,4-Dichlorobenzene	BQL	650.0	
2,4,5-Trichlorophenol	BQL	650.0	
2,4,6-Trichlorophenol	BQL	650.0	
2,4-Dichlorophenol	BQL	650.0	
2,4-Dimethylphenol	BQL	650.0	
2,4-Dinitrophenol	BQL	3250.0	
2,4-Dinitrotoluene	BQL	650.0	
2,6-Dinitrotoluene	BQL	650.0	
2-Chloronaphthalene	BQL	650.0	
2-Chlorophenol	BQL	650.0	
2-Methylnaphthalene	BQL	650.0	
2-Methylphenol	BQL	650.0	
2-Nitroaniline	BQL	3250.0	
2-Nitrophenol	BQL	650.0	
3,3'-Dichlorobenzidine	BQL	1300.0	
3-Nitroaniline	BQL	3250.0	
4,6-Dinitro-2-methylphenol	BQL	3250.0	
4-Bromophenyl-phenylether	BQL	650.0	
4-Chloro-3-methylphenol	BQL	1300.0	
4-Chloroaniline	BQL	1300.0	
4-Chlorophenyl phenyl ether	BQL	650.0	
4-Methylphenol	BQL	650.0	
4-Nitroaniline	BQL	3250.0	
4-Nitrophenol	BQL	3250.0	
Acenaphthene	BQL	650.0	
Acenaphthylene	BQL	650.0	
Anthracene	BQL	650.0	
Benzoic acid	BQL	3250.0	
Benzo[a]anthracene	BQL	650.0	
Benzo[a]pyrene	BQL	650.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404073-30A
Client ID: TC6-C01
Collected: 04/08/94
Dilution: 1

Matrix: SOIL
Method: 8270
Units: ug/Kg

Analyst: YY
Analyzed: 05/03/94
Prepared: 04/18/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	650.0	
Benzo[g,h,i]perylene	BQL	650.0	
Benzo[k]fluoranthene	BQL	650.0	
Benzyl alcohol	BQL	1300.0	
bis(2-Chloroethoxy) methane	BQL	650.0	
bis(2-Chloroethyl) ether	BQL	650.0	
bis(2-Chloroisopropyl) ether	BQL	650.0	
bis(2-Ethylhexyl)phthalate	1390.0	650.0	
Butyl benzyl phthalate	BQL	650.0	
Chrysene	BQL	650.0	
di-n-Butylphthalate	351.0	650.0	J
di-n-Octylphthalate	BQL	650.0	
Dibenzofuran	BQL	650.0	
Dibenz[a,h]anthracene	BQL	650.0	
Diethylphthalate	BQL	650.0	
Dimethyl phthalate	BQL	650.0	
Fluoranthene	118.0	650.0	J
Fluorene	BQL	650.0	
Hexachlorobenzene	BQL	650.0	
Hexachlorobutadiene	BQL	650.0	
Hexachlorocyclopentadiene	BQL	650.0	
Hexachloroethane	BQL	650.0	
Indeno[1,2,3-cd]pyrene	BQL	650.0	
Isophorone	BQL	650.0	
N-Nitroso-di-n-propylamine	BQL	650.0	
N-nitrosodiphenylamine	BQL	650.0	
Naphthalene	BQL	650.0	
Nitrobenzene	BQL	650.0	
Pentachlorophenol	BQL	3250.0	
Phenanthrene	BQL	650.0	
Phenol	BQL	650.0	
Pyrene	BQL	650.0	

α = Value obtained from a 1:10000 dilution

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404073-31A
Client ID: TC6-EB23-S7
Collected: 04/08/94
Dilution: 1

Matrix: SLUDGE
Method: 8270
Units: ug/Kg

Analyst: YY
Analyzed: 05/03/94
Prepared: 04/18/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	1100.0	
1,2-Dichlorobenzene	BQL	1100.0	
1,3-Dichlorobenzene	BQL	1100.0	
1,4-Dichlorobenzene	BQL	1100.0	
2,4,5-Trichlorophenol	BQL	1100.0	
2,4,6-Trichlorophenol	BQL	1100.0	
2,4-Dichlorophenol	BQL	1100.0	
2,4-Dimethylphenol	BQL	1100.0	
2,4-Dinitrophenol	BQL	5530.0	
2,4-Dinitrotoluene	BQL	1100.0	
2,6-Dinitrotoluene	BQL	1100.0	
2-Chloronaphthalene	BQL	1100.0	
2-Chlorophenol	BQL	1100.0	
2-Methylnaphthalene	120.0	1100.0	J
2-Methylphenol	BQL	1100.0	
2-Nitroaniline	BQL	5530.0	
2-Nitrophenol	BQL	1100.0	
3,3'-Dichlorobenzidine	BQL	2210.0	
3-Nitroaniline	BQL	5530.0	
4,6-Dinitro-2-methylphenol	BQL	5530.0	
4-Bromophenyl-phenylether	BQL	1100.0	
4-Chloro-3-methylphenol	BQL	2210.0	
4-Chloroaniline	BQL	2210.0	
4-Chlorophenyl phenyl ether	BQL	1100.0	
4-Methylphenol	BQL	1100.0	
4-Nitroaniline	BQL	5530.0	
4-Nitrophenol	BQL	5530.0	
Acenaphthene	BQL	1100.0	
Acenaphthylene	BQL	1100.0	
Anthracene	222.0	1100.0	J
Benzoic acid	BQL	5530.0	
Benzo[a]anthracene	BQL	1100.0	
Benzo[a]pyrene	BQL	1100.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404073-31A
Client ID: TC6-EB23-S7
Collected: 04/08/94
Dilution: 1

Matrix: SLUDGE
Method: 8270
Units: ug/Kg

Analyst: YY
Analyzed: 05/03/94
Prepared: 04/18/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	1100.0	
Benzo[g,h,i]perylene	BQL	1100.0	
Benzo[k]fluoranthene	BQL	1100.0	
Benzyl alcohol	BQL	2210.0	
bis(2-Chloroethoxy) methane	BQL	1100.0	
bis(2-Chloroethyl) ether	BQL	1100.0	
bis(2-Chloroisopropyl) ether	BQL	1100.0	
bis(2-Ethylhexyl)phthalate	1900.0	1100.0	
Butyl benzyl phthalate	BQL	1100.0	
Chrysene	BQL	1100.0	
di-n-Butylphthalate	335.0	1100.0	J
di-n-Octylphthalate	BQL	1100.0	
Dibenzofuran	BQL	1100.0	
Dibenz[a,h]anthracene	BQL	1100.0	
Diethylphthalate	BQL	1100.0	
Dimethyl phthalate	BQL	1100.0	
Fluoranthene	715.0	1100.0	J
Fluorene	BQL	1100.0	
Hexachlorobenzene	BQL	1100.0	
Hexachlorobutadiene	BQL	1100.0	
Hexachlorocyclopentadiene	BQL	1100.0	
Hexachloroethane	BQL	1100.0	
Indeno[1,2,3-cd]pyrene	BQL	1100.0	
Isophorone	BQL	1100.0	
N-Nitroso-di-n-propylamine	BQL	1100.0	
N-nitrosodiphenylamine	BQL	1100.0	
Naphthalene	152.0	1100.0	J
Nitrobenzene	BQL	1100.0	
Pentachlorophenol	BQL	5530.0	
Phenanthrene	369.0	1100.0	J
Phenol	BQL	1100.0	
Pyrene	774.0	1100.0	J

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404073-32L
Client ID: TC6-EB24-S4/5/6/7/8/9
Collected: 04/08/94
Dilution: 1

Matrix: WATER
Method: 8270
Units: ug/L

Analyst: MB
Analyzed: 04/28/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	11.0	
1,2-Dichlorobenzene	BQL	11.0	
1,3-Dichlorobenzene	BQL	11.0	
1,4-Dichlorobenzene	BQL	11.0	
2,4,5-Trichlorophenol	BQL	11.0	
2,4,6-Trichlorophenol	BQL	11.0	
2,4-Dichlorophenol	BQL	11.0	
2,4-Dimethylphenol	BQL	11.0	
2,4-Dinitrophenol	BQL	55.0	
2,4-Dinitrotoluene	BQL	11.0	
2,6-Dinitrotoluene	BQL	11.0	
2-Chloronaphthalene	BQL	11.0	
2-Chlorophenol	BQL	11.0	
2-Methylnaphthalene	BQL	11.0	
2-Methylphenol	BQL	11.0	
2-Nitroaniline	BQL	55.0	
2-Nitrophenol	BQL	11.0	
3,3'-Dichlorobenzidine	BQL	22.0	
3-Nitroaniline	BQL	55.0	
4,6-Dinitro-2-methylphenol	BQL	55.0	
4-Bromophenyl-phenylether	BQL	11.0	
4-Chloro-3-methylphenol	BQL	22.0	
4-Chloroaniline	BQL	22.0	
4-Chlorophenyl phenyl ether	BQL	11.0	
4-Methylphenol	BQL	11.0	
4-Nitroaniline	BQL	55.0	
4-Nitrophenol	BQL	55.0	
Acenaphthene	BQL	11.0	
Acenaphthylene	BQL	11.0	
Anthracene	BQL	11.0	
Benzoic acid	BQL	55.0	
Benzo[a]anthracene	BQL	11.0	
Benzo[a]pyrene	BQL	11.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404073-32L
Client ID: TC6-EB24-S4/5/6/7/8/9
Collected: 04/08/94
Dilution: 1

Matrix: WATER
Method: 8270
Units: ug/L

Analyst: MB
Analyzed: 04/28/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
Benzo[b]fluoranthene	BQL	11.0	
Benzo[g,h,i]perylene	BQL	11.0	
Benzo[k]fluoranthene	BQL	11.0	
Benzyl alcohol	BQL	22.0	
bis(2-Chloroethoxy) methane	BQL	11.0	
bis(2-Chloroethyl) ether	BQL	11.0	
bis(2-Chloroisopropyl) ether	BQL	11.0	
bis(2-Ethylhexyl)phthalate	BQL	11.0	
Butyl benzyl phthalate	BQL	11.0	
Chrysene	BQL	11.0	
di-n-Butylphthalate	5.21	11.0	BJ
di-n-Octylphthalate	BQL	11.0	
Dibenzofuran	BQL	11.0	
Dibenz[a,h]anthracene	BQL	11.0	
Diethylphthalate	BQL	11.0	
Dimethyl phthalate	BQL	11.0	
Fluoranthene	BQL	11.0	
Fluorene	BQL	11.0	
Hexachlorobenzene	BQL	11.0	
Hexachlorobutadiene	BQL	11.0	
Hexachlorocyclopentadiene	BQL	11.0	
Hexachloroethane	BQL	11.0	
Indeno[1,2,3-cd]pyrene	BQL	11.0	
Isophorone	BQL	11.0	
N-Nitroso-di-n-propylamine	BQL	11.0	
N-nitrosodiphenylamine	BQL	11.0	
Naphthalene	BQL	11.0	
Nitrobenzene	BQL	11.0	
Pentachlorophenol	BQL	55.0	
Phenanthrene	BQL	11.0	
Phenol	BQL	11.0	
Pyrene	BQL	11.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404071-13A
Client ID: AA4-C01
Collected: 04/07/94
Dilution: 1

Matrix: SOIL
Method: SW846 8080
Units: ug/Kg

Analyst: PH
Analyzed: 05/18/94
Prepared: 04/18/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	9.59	
4,4'-DDE	BQL	3.48	
4,4'-DDT	BQL	10.4	
Aldrin	BQL	3.48	
alpha-BHC	BQL	2.63	
Aroclor 1016	BQL	43.6	
Aroclor 1221	BQL	43.6	
Aroclor 1232	BQL	43.6	
Aroclor 1242	BQL	56.6	
Aroclor 1248	BQL	87.1	
Aroclor 1254	BQL	87.1	
Aroclor 1260	BQL	87.1	
beta-BHC	BQL	5.23	
Chlordane	BQL	12.2	
delta-BHC	BQL	7.85	
Dieldrin	BQL	1.74	
Endosulfan I	BQL	12.2	
Endosulfan II	BQL	3.48	
Endosulfan sulfate	BQL	57.5	
Endrin	BQL	5.23	
Endrin aldehyde	BQL	20.0	
gamma-BHC (Lindane)	BQL	3.48	
Heptachlor	BQL	2.63	
Heptachlor epoxide	BQL	72.3	
Methoxychlor	BQL	153.0	
Toxaphene	BQL	209.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404071-26A
Client ID: AA4-C02
Collected: 04/07/94
Dilution: 1

Matrix: SOIL
Method: SW846 8080
Units: ug/Kg

Analyst: PH
Analyzed: 05/18/94
Prepared: 04/18/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	9.59	
4,4'-DDE	BQL	3.48	
4,4'-DDT	BQL	10.4	
Aldrin	BQL	3.48	
alpha-BHC	BQL	2.63	
Aroclor 1016	BQL	43.6	
Aroclor 1221	BQL	43.6	
Aroclor 1232	BQL	43.6	
Aroclor 1242	BQL	56.6	
Aroclor 1248	BQL	87.1	
Aroclor 1254	BQL	87.1	
Aroclor 1260	BQL	87.1	
beta-BHC	BQL	5.23	
Chlordane	BQL	12.2	
delta-BHC	BQL	7.85	
Dieldrin	BQL	1.74	
Endosulfan I	BQL	12.2	
Endosulfan II	BQL	3.48	
Endosulfan sulfate	BQL	57.5	
Endrin	BQL	5.23	
Endrin aldehyde	BQL	20.0	
gamma-BHC (Lindane)	BQL	3.48	
Heptachlor	BQL	2.63	
Heptachlor epoxide	BQL	72.3	
Methoxychlor	BQL	153.0	
Toxaphene	BQL	209.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404073-30A
Client ID: TC6-C01
Collected: 04/08/94
Dilution: 1

Matrix: SOIL
Method: SW846 8080
Units: ug/Kg

Analyst: PVH
Analyzed: 05/18/94
Prepared: 04/18/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	7.38	
4,4'-DDE	BQL	2.68	
4,4'-DDT	BQL	8.04	
Aldrin	BQL	2.68	
alpha-BHC	BQL	2.02	
Aroclor 1016	BQL	33.5	
Aroclor 1221	BQL	33.5	
Aroclor 1232	BQL	33.5	
Aroclor 1242	BQL	43.6	
Aroclor 1248	BQL	67.0	
Aroclor 1254	BQL	67.0	
Aroclor 1260	BQL	67.0	
beta-BHC	BQL	4.02	
Chlordane	BQL	9.38	
delta-BHC	BQL	6.04	
Dieldrin	BQL	1.34	
Endosulfan I	BQL	9.38	
Endosulfan II	BQL	2.68	
Endosulfan sulfate	BQL	44.2	
Endrin	BQL	4.02	
Endrin aldehyde	BQL	15.4	
gamma-BHC (Lindane)	BQL	2.68	
Heptachlor	BQL	2.02	
Heptachlor epoxide	BQL	55.6	
Methoxychlor	BQL	118.0	
Toxaphene	BQL	161.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404073-31A
Client ID: TC6-EB23-S7
Collected: 04/08/94
Dilution: 1

Matrix: SLUDGE
Method: SW846 8080
Units: ug/Kg

Analyst: PVH
Analyzed: 05/18/94
Prepared: 04/18/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	12.2	
4,4'-DDE	BQL	4.42	
4,4'-DDT	BQL	13.3	
Aldrin	BQL	4.42	
alpha-BHC	BQL	3.33	
Aroclor 1016	BQL	55.3	
Aroclor 1221	BQL	55.3	
Aroclor 1232	BQL	55.3	
Aroclor 1242	BQL	71.9	
Aroclor 1248	BQL	110.0	
Aroclor 1254	BQL	110.0	
Aroclor 1260	BQL	110.0	
beta-BHC	BQL	6.63	
Chlordane	BQL	15.5	
delta-BHC	BQL	9.97	
Dieldrin	BQL	2.21	
Endosulfan I	BQL	15.5	
Endosulfan II	BQL	4.42	
Endosulfan sulfate	BQL	73.0	
Endrin	BQL	6.63	
Endrin aldehyde	BQL	25.4	
gamma-BHC (Lindane)	BQL	4.42	
Heptachlor	BQL	3.33	
Heptachlor epoxide	BQL	91.8	
Methoxychlor	BQL	194.0	
Toxaphene	BQL	265.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404073-32I
Client ID: TC6-EB24-S4/5/6/7/8/9
Collected: 04/08/94
Dilution: 1

Matrix: WATER
Method: SW846 8080
Units: ug/L

Analyst: PVH
Analyzed: 04/19/94
Prepared: 04/15/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	0.126	
4,4'-DDE	BQL	0.046	
4,4'-DDT	BQL	0.138	
Aldrin	BQL	0.046	
alpha-BHC	BQL	0.034	
Aroclor 1016	BQL	0.575	
Aroclor 1221	BQL	0.575	
Aroclor 1232	BQL	0.575	
Aroclor 1242	BQL	0.748	
Aroclor 1248	BQL	1.15	
Aroclor 1254	BQL	1.15	
Aroclor 1260	BQL	1.15	
beta-BHC	BQL	0.069	
Chlordane	BQL	0.161	
delta-BHC	BQL	0.104	
Dieldrin	BQL	0.023	
Endosulfan I	BQL	0.161	
Endosulfan II	BQL	0.046	
Endosulfan sulfate	BQL	0.759	
Endrin	BQL	0.069	
Endrin aldehyde	BQL	0.264	
gamma-BHC (Lindane)	BQL	0.046	
Heptachlor	BQL	0.034	
Heptachlor epoxide	BQL	0.954	
Methoxychlor	BQL	2.02	
Toxaphene	BQL	2.76	

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404071-13
Client ID: AA4-C01

Matrix: SOIL
Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
Arsenic	SW846 7060	16.0	1.08	mg/Kg	1	04/18/94	04/19/94	FU
Lead	SW846 7421	59.1	1.55	mg/Kg	5	04/18/94	04/20/94	FU
Mercury	SW846 7471	0.238	0.031	mg/Kg	1	04/15/94	04/15/94	MGP
Selenium	SW846 7740	BQL	0.773	mg/Kg	1	04/18/94	04/19/94	FU
Silver	SW846 7761	BQL	0.258	mg/Kg	1	04/18/94	04/19/94	FU
Barium	SW846 6010	50.3	6.39	mg/Kg	1	04/18/94	04/19/94	MB
Cadmium	SW846 6010	BQL	1.64	mg/Kg	1	04/18/94	04/19/94	MB
Chromium	SW846 6010	119.0	4.28	mg/Kg	1	04/18/94	04/19/94	MB
Copper	SW846 6010	67.1	8.40	mg/Kg	1	04/18/94	04/25/94	MB
Iron	SW846 6010	45900.0	141.0	mg/Kg	5	04/18/94	04/19/94	MB
Nickel	SW846 6010	36.2	14.8	mg/Kg	1	04/18/94	04/19/94	MB
Zinc	SW846 6010	237.0	5.46	mg/Kg	1	04/18/94	04/19/94	MB

GP ID: 9404071-26
Client ID: AA4-C02

Matrix: SOIL
Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
Arsenic	SW846 7060	14.4	1.08	mg/Kg	1	04/18/94	04/19/94	FU
Lead	SW846 7421	58.5	1.55	mg/Kg	5	04/18/94	04/20/94	FU
Mercury	SW846 7471	0.213	0.031	mg/Kg	1	04/15/94	04/15/94	MGP
Selenium	SW846 7740	BQL	0.773	mg/Kg	1	04/18/94	04/19/94	FU
Silver	SW846 7761	BQL	0.258	mg/Kg	1	04/18/94	04/19/94	FU
Barium	SW846 6010	51.6	6.39	mg/Kg	1	04/18/94	04/19/94	MB
Cadmium	SW846 6010	BQL	1.64	mg/Kg	1	04/18/94	04/19/94	MB
Chromium	SW846 6010	110.0	4.28	mg/Kg	1	04/18/94	04/19/94	MB
Copper	SW846 6010	59.0	8.40	mg/Kg	1	04/18/94	04/25/94	MB
Iron	SW846 6010	46600.0	141.0	mg/Kg	5	04/18/94	04/19/94	MB
Nickel	SW846 6010	33.7	14.8	mg/Kg	1	04/18/94	04/19/94	MB
Zinc	SW846 6010	232.0	5.46	mg/Kg	1	04/18/94	04/19/94	MB

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404073-30
Client ID: TC6-C01

Matrix: SOIL
Collected: 04/08/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
Arsenic	SW846 7060	8.39	0.827	mg/Kg	1	04/18/94	04/19/94	FU
Lead	SW846 7421	23.4	0.236	mg/Kg	1	04/18/94	04/20/94	FU
Mercury	SW846 7471	0.127	0.024	mg/Kg	1	04/15/94	04/15/94	MGP
Selenium	SW846 7740	BQL	0.590	mg/Kg	1	04/18/94	04/19/94	FU
Silver	SW846 7761	BQL	0.197	mg/Kg	1	04/18/94	04/19/94	FU
Barium	SW846 6010	57.8	4.88	mg/Kg	1	04/18/94	04/19/94	MB
Cadmium	SW846 6010	BQL	1.26	mg/Kg	1	04/18/94	04/19/94	MB
Chromium	SW846 6010	69.0	3.27	mg/Kg	1	04/18/94	04/19/94	MB
Copper	SW846 6010	36.6	6.42	mg/Kg	1	04/18/94	04/19/94	MB
Iron	SW846 6010	47700.0	108.0	mg/Kg	5	04/18/94	04/19/94	MB
Nickel	SW846 6010	37.7	11.3	mg/Kg	1	04/18/94	04/19/94	MB
Zinc	SW846 6010	141.0	4.17	mg/Kg	1	04/18/94	04/19/94	MB

GP ID: 9404073-31
Client ID: TC6-EB23-S7

Matrix: SLUDGE
Collected: 04/08/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
Arsenic	SW846 7060	25.8	1.40	mg/Kg	1	04/18/94	04/19/94	FU
Lead	SW846 7421	134.0	2.01	mg/Kg	5	04/18/94	04/20/94	FU
Mercury	SW846 7471	0.612	0.040	mg/Kg	1	04/15/94	04/15/94	MGP
Selenium	SW846 7740	1.52	1.00	mg/Kg	1	04/18/94	04/19/94	FU
Silver	SW846 7761	0.516	0.334	mg/Kg	1	04/18/94	04/19/94	FU
Barium	SW846 6010	151.0	8.29	mg/Kg	1	04/18/94	04/19/94	MB
Cadmium	SW846 6010	3.17	2.13	mg/Kg	1	04/18/94	04/19/94	MB
Chromium	SW846 6010	255.0	5.56	mg/Kg	1	04/18/94	04/19/94	MB
Copper	SW846 6010	179.0	10.9	mg/Kg	1	04/18/94	04/19/94	MB
Iron	SW846 6010	41200.0	184.0	mg/Kg	5	04/18/94	04/19/94	MB
Nickel	SW846 6010	37.5	19.3	mg/Kg	1	04/18/94	04/19/94	MB
Zinc	SW846 6010	458.0	7.08	mg/Kg	1	04/18/94	04/19/94	MB

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404073-32 Matrix: WATER
Client ID: TC6-EB24-S4/5/6/7/8/9 Collected: 04/08/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
Arsenic	SW846 7060	BQL	2.10	ug/L	1	04/18/94	04/19/94	FU
Lead	SW846 7421	2.46	0.600	ug/L	1	04/18/94	04/20/94	FU
Mercury	SW846 7471	0.056	0.024	ug/L	1	04/15/94	04/15/94	MGP
Selenium	SW846 7740	BQL	1.50	ug/L	1	04/18/94	04/19/94	FU
Silver	SW846 7761	BQL	0.500	ug/L	1	04/18/94	04/19/94	FU
Barium	SW846 6010	BQL	12.4	ug/L	1	04/18/94	04/19/94	MB
Cadmium	SW846 6010	BQL	3.19	ug/L	1	04/18/94	04/19/94	MB
Chromium	SW846 6010	BQL	8.31	ug/L	1	04/18/94	04/19/94	MB
Copper	SW846 6010	BQL	16.3	ug/L	1	04/18/94	04/19/94	MB
Iron	SW846 6010	170.0	54.9	ug/L	1	04/18/94	04/19/94	MB
Nickel	SW846 6010	BQL	28.8	ug/L	1	04/18/94	04/19/94	MB
Zinc	SW846 6010	14.6	10.6	ug/L	1	04/18/94	04/19/94	MB

GP ENVIRONMENTAL SERVICES
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9404071-13 Matrix: SOIL
Client ID: AA4-C01 Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	1270.0	646.0	mg/Kg			04/18/94 CM
Phosphorus, Total	MCAWW 365.2	555.0	8.31	mg/Kg	2		05/06/94 VM
Percent Solids	MCAWW 160.3	38.8		%			04/19/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	3130.0	9.69	mg/Kg	1		04/20/94 VHM
Total Organic Carbon	MCAWW 415.1	18900.0	920.0	mg/kg	1		05/05/94 VHM

GP ID: 9404071-26 Matrix: SOIL
Client ID: AA4-C02 Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	1070.0	644.0	mg/Kg			04/18/94 CM
Phosphorus, Total	MCAWW 365.2	933.0	19.0	mg/Kg	5		05/06/94 VM
Percent Solids	MCAWW 160.3	38.8		%			04/19/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	2600.0	13.7	mg/Kg	1		04/20/94 VHM
Total Organic Carbon	MCAWW 415.1	17400.0	742.0	mg/kg	1		05/05/94 VHM

GP ID: 9404073-30 Matrix: SOIL
Client ID: TC6-C01 Collected: 04/08/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	BQL	492.0	mg/L			04/21/94 CM
Phosphorus, Total	MCAWW 365.2	355.0	4.80	mg/Kg	2		05/06/94 VM
Percent Solids	MCAWW 160.3	50.8		%			04/19/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	884.0	6.23	mg/Kg	1		04/20/94 VHM
Total Organic Carbon	MCAWW 415.1	14900.0	455.0	mg/kg	1		05/05/94 VHM

GP ID: 9404073-31 Matrix: SLUDGE
Client ID: TC6-EB23-S7 Collected: 04/08/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	2270.0	836.0	mg/L			04/21/94 CM
Phosphorus, Total	MCAWW 365.2	716.0	13.9	mg/Kg	1		05/06/94 VM
Percent Solids	MCAWW 160.3	29.9		%			04/19/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	2960.0	10.8	mg/Kg	1		04/20/94 VHM
Total Organic Carbon	MCAWW 415.1	25900.0	836.0	mg/kg	1		05/05/94 VHM

GP ENVIRONMENTAL SERVICES
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9404073-32 Matrix: WATER
Client ID: TC6-EB24-S4/5/6/7/8/9 Collected: 04/08/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	BQL	5.21	mg/L			04/21/94 CM
Total Organic Carbon	MCAWW 415.1	BQL	1.00	mg/L	1		04/13/94 MC
Phosphorus, Total	MCAWW 365.2	BQL	0.010	mg/L	1		04/23/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	0.348	0.100	mg/L	1		04/20/94 VHM

GP ENVIRONMENTAL SERVICES

Possible notes and definitions for this report:

BQL = Below Quantitation Limit

J = An estimated value, below method detection limit

B = Indicates that the compound was found in the associated blank

E = Indicates that the concentration exceeded the calibration range of the instrument

U = Indicates that the compound was analyzed for but not detected, number indicates the detection limit

D = Indicates that the compound was found in a analysis at a secondary dilution factor

* = Value obtained from a 1:5 dilution

+ = Value obtained from a 1:10 dilution

= Value obtained from a 1:20 dilution

^ = Value obtained from a 1:50 dilution

~ = Value obtained from a 1:100 dilution

! = Value obtained from a 1:250 dilution

@ = Value obtained from a 1:125 dilution (Medium Level)

$ = Value obtained from a 1:1000 dilution

& = Value obtained from a 1:10000 dilution

N = Flashpoint not observed; heated to specified limit

R = Flammable at room temperature

TNTC = Too numerous to count

B.P. = Detection limit taken from boiling point

F.F. = Sample gave off flammable fumes

04-071

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date	Time	Sample Matrix	Sampler's Initials	TKN/TOT PHOS O&G/SVOA/PCB/METALS	TKN/TOT PHOS O&G/SVOA/PCB/METALS	ELUTRIATE	CLIENT COMMENTS
Turnaround Time								
# of Container					1	1	1	
Container Type					16 oz	8 oz	½ gal	
Preservative Used					—	—	—	
AA3-EB11-$3	APR 94 ~~Ø3~~	13ØØ	W	JM			X	DATE IS "Ø7"
AA3-EB11-$1	Ø7	133Ø	$	JM	X			4Ø.25 – 45.Ø
AA3-EB11-$2	Ø7	133Ø	$	JM		X		4Ø.25 – 45.Ø
AA3-EB12-$3	Ø7	131Ø	W	JM			X	
AA3-EB12-$1	Ø7	132Ø	$	JM	X			3Ø.7 – 45.Ø
AA3-EB12-$2	Ø7	132Ø	$	JM		X		3Ø.7 – 45.Ø
AA4-EB13-$3	Ø7	1355	W	JM			X	
AA4-EB-13-$6	Ø7	1355	W	JM			X	
AA4-EB-13-$1	Ø7	14Ø5	$	JM	X			4Ø.7 – 45.Ø
AA4-EB-13-$2	Ø7	14Ø5	$	JM		X		4Ø.7 – 45.Ø
AA4-EB13-$4	Ø7	14Ø5	$	JM	X			4Ø.7 – 45.Ø
AA4-EB13-$5	Ø7	14Ø5	$	JM		X		4Ø.7 – 45.Ø

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	Ø7 APR 94 / 193Ø	C. Kirkland	Robert Miller	M. Miles	4/8/94 / 1535

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
M. Miles	4/8/94 / 3P				

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
		[signature] 8:00 AM		1

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: BALTIMORE HARBOR
Client: USACE – BALTIMORE DISTRICT
Send Results To: Robert Miller
Address: CENAB-EN-HT/10 S. Howard
BALTIMORE, MD 21201
Phone: (410) 962-6744

Sample ID#	Date APR 94	Time	Sample Matrix	Sampler's Initials	TCN/TOT PHAS/pH OAG/SVOA/PEST PCB/METALS	TCN/TOT PHAS/pH OAG/SVOA/PEST PCB/METALS ELUTRIATE	CLIENT COMMENTS
Turnaround Time							
# of Container					1	1	1
Container Type					16 oz	8 oz	½ gal
Preservative Used					–	–	–
AA4-EB14-$3	07	1415	W	JM		X	
AA4-EB14-$6	07	1415	W	JM		X	
AA4-EB14-$1	07	1425	$	JM	X		38.8 – 45.0
AA4-EB14-$2	07	1425	$	JM	X		38.8 – 45.0
AA4-EB14-$4	07	1425	$	JM	X		38.8 – 45.0
AA4-EB14-$5	07	1425	$	JM	X		38.8 – 45.0
AA4-EB15-$3	07	1440	W	JM		X	
AA4-EB15-$6	07	1440	W	JM		X	
AA4-EB15-$1	07	1450	$	JM	X		35.0 – 45.0
AA4-EB15-$2	07	1450	$	JM	X		35.0 – 45.0
AA4-EB15-$4	07	1450	$	JM	X		35.0 – 45.0
AA4-EB15-$5	07	1450	$	JM	X		35.0 – 45.0

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	07 APR 94 1930	C. Kirkland	Robert Miller	M. Miles	4/8/94 1230

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
M. Miles	4/8/94 1300				

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
		[signature] 4/8/94 8:00 AM		4°C

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: BALTIMORE HARBOR
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT/10 S. Howard
BALTIMORE, MD 21201
Phone: (410) 962-6744

Sample ID#	Date APR 94	Time	Sample Matrix	Sampler's Initials	TKN/TOT PHOS/pH/ OEG/SVOA/PEST/ PCB/METALS	TKN/TOT PHOS/pH/ OEG/SVOA/PEST/ PCB/METALS	E. Intrinsic	CLIENT COMMENTS
Turnaround Time								
# of Container					1	1	1	
Container Type					1 Liter	8 oz	½ Gal	
Preservative Used					—	—	—	
AA4-EB16-$3	07	1515	W	JM			X	
AA4-EB16-$6	07	1515	W	JM			X	
AA4-EB16-$1	07	1530	$	JM	X			31.9 - 45.0
AA4-EB16-$2	07	1530	$	JM		X		31.9 - 45.0
AA4-EB16-$4	07	1530	$	JM	X			31.9 - 45.0
AA4-EB16-$5	07	1530	$	JM		X		31.9 - 45.0
		LAST			ITEM			

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	07 APR 94 1930	C. Kirkland	Robert Miller	M. Miles 4/8/94	4/8/94 1235

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
M. Miles	4/8/94 3P				

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
		C. Tyson 4/8/94 8:AM		

GP ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No. 9404071

Client Name ALT-CDE

Date Received 4/08/94

Time Received 1:25 PM

Received By M. MILES

Carrier Name M. MILES

Prepared (Logged In) By CL (Initials) 4/11/94 (Date)

Project

Site

VOA Holding Blank I.D. No.

	YES	NO
Airbill/Manifest Present? No.	—	X
Shipping Container in Good Condition?	X	—
Custody Seals Present on Shipping Container? Condition: Good ____ Broken ____	—	X
Chain-of-Custody Present?	X	—
Chain-of-Custody Agrees with Sample Labels?	X	—
Chain-of-Custody Signed?	X	—
Packing Present in Shipping Container? Type of Packing FOAM BAGS	X	—
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____	—	X
Total Number of Sample Bottles 33		
Total Number of Samples 30		
Samples Intact?	X	—
Sufficient Sample Volume for Indicated Test?	✓	—

	YES	NO
Trip Blanks Received? No. of Sets ____	—	X
VOA Vials Have Zero Headspace?	—	X
Preservatives Added to Sample?	—	X
pH Check Required? Performed By? ____	—	X
Ice Present in Shipping Container?	X	—

Container#	Temperature
1	4°C
1	4°C
1	4°C

Project Manager Contacted?
Name: FAXED
Date Contacted: 4/11/94

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 CL

Date 4/11/94

GP ENVIRONMENTAL SERVICES, INC.

04-073

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date (APR 94)	Time	Sample Matrix	Sampler's Initials	TCL SVOC/PEST/PCB TAL METALS/TBA TOT PHCS	pH/TOC/O&G	TCL SVOC/PEST/PCB TAL METALS/TBA TOT PHCS	pH/TOC/O&G ELUTRIATE							CLIENT COMMENTS
Turnaround Time															
# of Container					1		1		1						
Container Type					16 oz		8 oz		½ gal						
Preservative Used					—		—		—						
~~TC5-EB17-S1~~	~~Φ8~~ Φ9	NO SAMPLE COLLECTED													
~~TC5-EB17-S2~~	~~Φ8~~ 2	NO SAMPLE COLLECTED													
TC5-EB17-S3	Φ8	Φ75Φ	W	JM			X								
TC5-EB18-S1	Φ8	Φ83Φ	$	JM	X										33.72 - 45.Φ
TC5-EB18-S2	Φ8	Φ83Φ	$	JM		X									33.72 - 45.Φ
TC5-EB18-S3	Φ8	Φ815	W	JM			X								
TC5-EB19-S1	Φ8	Φ85Φ	$	JM	X										37.45 - 45.Φ
TC5-EB19-S2	Φ8	Φ85Φ	$	JM		X									37.45 - 45.Φ
TC5-EB19-S3	Φ8	Φ845	W	JM			X								
TC5-EB20-S1	Φ8	Φ935	$	JM	X										39.4 - 45.Φ
TC5-EB20-S2	Φ8	Φ935	$	JM		X									39.4 - 45.Φ
TC5-EB20-S3	Φ8	Φ925	W	JM			X								

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	Φ9 APR 94 1140			[signature]	4/9/94 11:40am

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:
		[signature] 4/11/94 8:AM	COOLER TEMP. 5°C

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Turnaround Time			
# of Container	1	1	1
Container Type	16 oz	8 oz	½ gal
Preservative Used	—	—	—
Type of Analysis	TCL SVOC/PEST/PCB; TAL Metals/TKN/TOC/pH; TCL SVOC/PEST/PCB; TAL Metals/TKN/TOC/pH; Acid/GC/MS; ELUTRIATE		

Sample ID#	Date (APR 94)	Time	Sample Matrix	Sampler's Initials	TCL SVOC/PEST/PCB	TAL Metals/TKN/TOC/pH	TCL SVOC/PEST/PCB	TAL Metals/TKN/TOC/pH	Acid/GC/MS	ELUTRIATE						CLIENT COMMENTS
TC6-EB21-S1	08	1025	S	JM	X											42.9 - 45.0
TC6-EB21-S2	08	1025	S	JM		X										42.9 - 45.0
TC6-EB21-S3	08	1015	W	JM			X									
TC6-EB22-S1	08	1050	S	JM	X											35.1 - 45.0
TC6-EB22-S2	08	1050	S	JM		X										35.1 - 45.0
TC6-EB22-S3	08	1040	W	JM			X									
TC6-EB23-S1	08	1110	S	JM	X											35.3 - 45.0
TC6-EB23-S2	08	1110	S	JM		X										35.3 - 45.0
TC6-EB23-S3	08	1100	W	JM			X									
TC6-EB24-S1	08	1230	S	JM	X											40.0 - 45.0
TC6-EB24-S2	08	1230	S	JM		X										40.0 - 45.0
TC6-EB24-S3	08	1215	W	JM			X									

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	09 APR 94 / 1140			[signature]	4/9/94 / 11:40 a.m.
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
Relinquished By:	Date/Time	Received By:	Lab Comments:		
		[signature] 4/11/94 8:AM			

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	APR 94 Date	Time	Sample Matrix	Sampler's Initials	TCL SVOC/PEST/PCB TAL METALS/TKN TOT PHOS pH/TOC O&G	TCL SVOC/PEST/PCB TAL METALS/TKN TOT PHOS pH/TOC O&G	ELUTRIATE	O&G (9071)	TOC (9060)	TKN (351.2)	TOT Phos (365.2)	METALS (6010)+ RCRA + Cu, Fe, Zn, Ni	PEST/PCB (8080)			CLIENT COMMENTS
Turnaround Time																
# of Container					1	1	1	3	3	1	1	3				
Container Type					16 oz	8 oz	½ gal	1 l. gl	½ l gl	1 l. pl	1 l pl	1 l gl				
Preservative Used					—	—	—	H_2SO_4	H_2SO_4	H_2SO_4	HNO_3	—				
TC6--EB25-S1	Φ8	132Φ	$	JM	X											22.4 - 41.4
TC6--EB25-S2	Φ8	132Φ	$	JM		X										22.4 - 41.4
TC6--EB25-S3	Φ8	131Φ	W	JM			X									
TC6--EB26-S1	Φ8	1345	$	JM	X											21.6 - 4Φ.6
TC6--EB26-S2	Φ8	1345	$	JM		X										21.6 - 4Φ.6
TC6--EB26-S3	Φ8	1335	W	JM			X									
TC6-EB23-$7	Φ8	1115	LIQUID MUD	JM	X											≈ 35.3 PETROLEUM CONTENT
TC6-EB24-$4	Φ8	12ΦΦ	W	JM				X								RINSATE
TC6-EB24-$5	Φ8	12ΦΦ	W	JM					X							RINSATE
TC6-EB24-$6	Φ8	12ΦΦ	W	JM						X						RINSATE
TC6-EB24-$7	Φ8	12ΦΦ	W	JM							X					RINSATE
TC6-EB24-$8	Φ8	12ΦΦ	W	JM								X				RINSATE

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	Φ9 APR 94 / 1140			[signature]	4/9/94 11:40am

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
		[signature] 4/9/94		°C

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date (APR 94)	Time	Sample Matrix	Sampler's Initials	TCL SVOC/PEST/PCB TAL METALS/TKN TOT PHOS	pH/TOC O&G	TCL SVOC/PEST/PCB TAL METALS/TKN TOT PHOS	pH/TOC O&G	ELUTRIATE	CLIENT COMMENTS
Turnaround Time										
# of Container					1		1		1	
Container Type					16 oz		8 oz		½ gal	
Preservative Used					—		—		—	
CC7-EB27-S1	Ø8	1445	$	JM	X					29.5 - 45.Ø
CC7-EB27-S2	Ø8	1445	$	JM		X				29.5 - 45.Ø
CC7-EB27-S3	Ø8	1435	W	JM			X			
CC7-EB28-S1	Ø8	151Ø	$	JM	X					3Ø.1 - 45.Ø
CC7-EB28-S2	Ø8	151Ø	$	JM		X				3Ø.1 - 45.Ø
CC7-EB28-S3	Ø8	15ØØ	W	JM			X			
CC7-EB29-S1	Ø8	1535	$	JM	X					45.Ø - 45.2
CC7-EB29-S2	Ø8	1535	$	JM		X				45.Ø - 45.2
CC7-EB29-S3	Ø8	152Ø	W	JM			X			
CC7-EB30-S1	Ø8	155Ø	$	JM	X					42.9 - 45.Ø
CC7-EB30-S2	Ø8	155Ø	$	JM		X				42.9 - 45.Ø
CC7-EB30-S3	Ø8	154Ø	W	JM			X			

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	Ø9 APR 94 1140			[signature]	4/9/94 11:40

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
		[signature] 4/11/94 8AM		3°C

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: BALTIMORE HARBOR
Client: USACE - Baltimore DISTRICT
Send Results To: Robert Miller
Address: CENAB-EN-HT/10 S. Howard
BALTIMORE MD 21201
Phone: (410) 962-6744

Sample ID#	Date (APR 94)	Time	Sample Matrix	Sampler's Initials	SVOA (8270)	CLIENT COMMENTS
Turnaround Time						
# of Container					3	
Container Type					1 gl	
Preservative Used					—	
TC6-EB24-$9	08	1200	W	JM	X	RINSATE
	LAST ITEM					

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	09 APR 94 1140			[signature]	4/9/94 11:40am

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
		[signature] 4/9/94		

GP ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No. 94-04-073

Client Name BALT-CAE

Date Received 4/09/94

Time Received 11:40A.

Received By A. Field.

Carrier Name Client

Prepared (Logged In) By CL / 4/11/94 (Initials / Date)

Project

Site

VOA Holding Blank I.D. No.

	YES	NO
Airbill/Manifest Present? No.	—	X
Shipping Container in Good Condition?	X	—
Custody Seals Present on Shipping Container? Condition: Good ____ Broken ____	—	X
Chain-of-Custody Present?	X	—
Chain-of-Custody Agrees with Sample Labels?	X	—
Chain-of-Custody Signed?	X	—
Packing Present in Shipping Container? Type of Packing BAGS	X	—
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____	—	X
Total Number of Sample Bottles		
Total Number of Samples		
Samples Intact?	X	—
Sufficient Sample Volume for Indicated Test?	X	—

	YES	NO
Trip Blanks Received? No. of Sets	—	X
VOA Vials Have Zero Headspace?	—	X
Preservatives Added to Sample?	—	X
pH Check Required? Performed By?	—	X
Ice Present in Shipping Container?	X	—

Container#	Temperature
1	5°C
4	5°C
1	6°C
1	3°C

Project Manager Contacted?
Name: Fecen
Date Contacted: 4/11/94

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 CL

Date 4/11/94

GP Work Order # 9404060
9404072
9404074
9404075

SAMPLE ANALYSIS REPORT

Prepared For:

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201

BALTIMORE HARBOR

Prepared By:

GP Environmental Services, Inc.
202 Perry Parkway
Gaithersburg, Maryland 20877

June 07, 1994

Albert Ellis, Laboratory Director

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ANALYTICAL RESULTS

Project: BALTIMORE HARBOR

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201
Atten: /

GP ENVIRONMENTAL SERVICES
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by: CB

SAMPLE IDENTIFICATION

GP ID	Client ID
9404060-01A	SL1-C01
9404060-01B	
9404060-01C	
9404060-01D	
9404060-01E	
9404060-01F	
9404060-01G	
9404060-02A	AA2-C01
9404060-02B	
9404060-02C	
9404060-02D	
9404060-02E	
9404060-02F	
9404060-02G	
9404060-03A	AA3-C01
9404060-03B	
9404060-03C	
9404060-03D	
9404060-03E	
9404060-03F	
9404060-03G	
9404072-01A	AA4-C01
9404072-01B	
9404072-01C	
9404072-01D	
9404072-01E	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ANALYTICAL RESULTS

SAMPLE IDENTIFICATION

GP ID	Client ID
9404072-01F	
9404072-01G	
9404072-02A	AA4-CO2
9404072-02B	
9404072-02C	
9404072-02D	
9404072-02E	
9404072-02F	
9404072-02G	
9404074-02A	TC6-CO1
9404074-02B	
9404074-02C	
9404074-02D	
9404074-02E	
9404074-02F	
9404074-02G	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ANALYTICAL RESULTS

SAMPLE IDENTIFICATION

GP ID	Client ID
9404075-01A	BH-SW01
9404075-01B	
9404075-01C	
9404075-01D	
9404075-01E	
9404075-01F	
9404075-01G	
9404075-01H	
9404075-01I	
9404075-01J	
9404075-01K	
9404075-01L	
9404075-01M	
9404075-01N	
9404075-01O	
9404075-01P	
9404075-01Q	
9404075-01R	
9404075-01S	
9404075-02A	BH-SW01-TB
9404075-02B	
9404075-02C	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404060-01D
Client ID: SL1-C01
Collected: 04/06/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/21/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	11.8	
1,2-Dichlorobenzene	BQL	11.8	
1,3-Dichlorobenzene	BQL	11.8	
1,4-Dichlorobenzene	BQL	11.8	
2,4,6-Trichlorophenol	BQL	11.8	
2,4-Dichlorophenol	BQL	11.8	
2,4-Dimethylphenol	BQL	11.8	
2,4-Dinitrophenol	BQL	58.8	
2,4-Dinitrotoluene	BQL	11.8	
2,6-Dinitrotoluene	BQL	11.8	
2-Chloronaphthalene	BQL	11.8	
2-Chlorophenol	BQL	11.8	
2-Nitrophenol	BQL	11.8	
3,3'-Dichlorobenzidine	BQL	23.5	
4,6-Dinitro-2-methylphenol	BQL	58.8	
4-Bromophenyl-phenylether	BQL	11.8	
4-Chloro-3-methylphenol	BQL	11.8	
4-Chlorophenyl phenyl ether	BQL	11.8	
4-Nitrophenol	BQL	58.8	
Acenaphthene	BQL	11.8	
Acenaphthylene	BQL	11.8	
Anthracene	BQL	11.8	
Benzidine	BQL	11.8	
Benzo(a)anthracene	BQL	11.8	
Benzo(a)pyrene	BQL	11.8	
Benzo(b)fluoranthene	BQL	11.8	
Benzo(g,h,i)perylene	BQL	11.8	
Benzo(k)fluoranthene	BQL	11.8	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404060-01D
Client ID: SL1-C01
Collected: 04/06/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/21/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
bis(2-Chloroethoxy) methane	BQL	11.8	
bis(2-Chloroethyl) ether	BQL	11.8	
bis(2-Chloroisopropyl) ether	BQL	11.8	
bis(2-Ethylhexyl)phthalate	BQL	11.8	
Butylbenzylphthalate	BQL	11.8	
Chrysene	BQL	11.8	
Di-n-butylphthalate	2.82	11.8	BJ
Di-n-octylphthalate	BQL	11.8	
Dibenz(a,h)anthracene	BQL	11.8	
Diethylphthalate	BQL	11.8	
Dimethylphthalate	BQL	11.8	
Fluoranthene	2.74	11.8	J
Fluorene	BQL	11.8	
Hexachlorobenzene	BQL	11.8	
Hexachlorobutadiene	BQL	11.8	
Hexachlorocyclopentadiene	BQL	11.8	
Hexachloroethane	BQL	11.8	
Indeno(1,2,3-cd)pyrene	BQL	11.8	
Isophorone	BQL	11.8	
N-Nitroso-di-n-dipropylamine	BQL	11.8	
N-nitrosodimethylamine	BQL	11.8	
N-nitrosodiphenylamine	BQL	11.8	
Naphthalene	BQL	11.8	
Nitrobenzene	BQL	11.8	
Pentachlorophenol	BQL	58.8	
Phenanthrene	BQL	11.8	
Phenol	BQL	11.8	
Pyrene	BQL	11.8	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404060-02D
Client ID: AA2-C01
Collected: 04/06/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/21/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	10.9	
1,2-Dichlorobenzene	BQL	10.9	
1,3-Dichlorobenzene	BQL	10.9	
1,4-Dichlorobenzene	BQL	10.9	
2,4,6-Trichlorophenol	BQL	10.9	
2,4-Dichlorophenol	BQL	10.9	
2,4-Dimethylphenol	BQL	10.9	
2,4-Dinitrophenol	BQL	54.4	
2,4-Dinitrotoluene	BQL	10.9	
2,6-Dinitrotoluene	BQL	10.9	
2-Chloronaphthalene	BQL	10.9	
2-Chlorophenol	BQL	10.9	
2-Nitrophenol	BQL	10.9	
3,3'-Dichlorobenzidine	BQL	21.7	
4,6-Dinitro-2-methylphenol	BQL	54.4	
4-Bromophenyl-phenylether	BQL	10.9	
4-Chloro-3-methylphenol	BQL	10.9	
4-Chlorophenyl phenyl ether	BQL	10.9	
4-Nitrophenol	BQL	54.4	
Acenaphthene	BQL	10.9	
Acenaphthylene	BQL	10.9	
Anthracene	BQL	10.9	
Benzidine	BQL	10.9	
Benzo(a)anthracene	BQL	10.9	
Benzo(a)pyrene	BQL	10.9	
Benzo(b)fluoranthene	BQL	10.9	
Benzo(g,h,i)perylene	BQL	10.9	
Benzo(k)fluoranthene	BQL	10.9	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404060-02D
Client ID: AA2-C01
Collected: 04/06/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/21/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
bis(2-Chloroethoxy) methane	BQL	10.9	
bis(2-Chloroethyl) ether	BQL	10.9	
bis(2-Chloroisopropyl) ether	BQL	10.9	
bis(2-Ethylhexyl)phthalate	BQL	10.9	
Butylbenzylphthalate	BQL	10.9	
Chrysene	BQL	10.9	
Di-n-butylphthalate	BQL	10.9	
Di-n-octylphthalate	BQL	10.9	
Dibenz(a,h)anthracene	BQL	10.9	
Diethylphthalate	BQL	10.9	
Dimethylphthalate	BQL	10.9	
Fluoranthene	2.68	10.9	J
Fluorene	BQL	10.9	
Hexachlorobenzene	BQL	10.9	
Hexachlorobutadiene	BQL	10.9	
Hexachlorocyclopentadiene	BQL	10.9	
Hexachloroethane	BQL	10.9	
Indeno(1,2,3-cd)pyrene	BQL	10.9	
Isophorone	BQL	10.9	
N-Nitroso-di-n-dipropylamine	BQL	10.9	
N-nitrosodimethylamine	BQL	10.9	
N-nitrosodiphenylamine	BQL	10.9	
Naphthalene	BQL	10.9	
Nitrobenzene	BQL	10.9	
Pentachlorophenol	BQL	54.4	
Phenanthrene	BQL	10.9	
Phenol	BQL	10.9	
Pyrene	BQL	10.9	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404060-03D
Client ID: AA3-C01
Collected: 04/06/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/21/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	10.3	
1,2-Dichlorobenzene	BQL	10.3	
1,3-Dichlorobenzene	BQL	10.3	
1,4-Dichlorobenzene	BQL	10.3	
2,4,6-Trichlorophenol	BQL	10.3	
2,4-Dichlorophenol	BQL	10.3	
2,4-Dimethylphenol	BQL	10.3	
2,4-Dinitrophenol	BQL	51.6	
2,4-Dinitrotoluene	BQL	10.3	
2,6-Dinitrotoluene	BQL	10.3	
2-Chloronaphthalene	BQL	10.3	
2-Chlorophenol	BQL	10.3	
2-Nitrophenol	BQL	10.3	
3,3'-Dichlorobenzidine	BQL	20.6	
4,6-Dinitro-2-methylphenol	BQL	51.6	
4-Bromophenyl-phenylether	BQL	10.3	
4-Chloro-3-methylphenol	BQL	10.3	
4-Chlorophenyl phenyl ether	BQL	10.3	
4-Nitrophenol	BQL	51.6	
Acenaphthene	BQL	10.3	
Acenaphthylene	BQL	10.3	
Anthracene	BQL	10.3	
Benzidine	BQL	10.3	
Benzo(a)anthracene	BQL	10.3	
Benzo(a)pyrene	BQL	10.3	
Benzo(b)fluoranthene	BQL	10.3	
Benzo(g,h,i)perylene	BQL	10.3	
Benzo(k)fluoranthene	BQL	10.3	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404060-03D
Client ID: AA3-C01
Collected: 04/06/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/21/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
bis(2-Chloroethoxy) methane	BQL	10.3	
bis(2-Chloroethyl) ether	BQL	10.3	
bis(2-Chloroisopropyl) ether	BQL	10.3	
bis(2-Ethylhexyl)phthalate	BQL	10.3	
Butylbenzylphthalate	BQL	10.3	
Chrysene	BQL	10.3	
Di-n-butylphthalate	BQL	10.3	
Di-n-octylphthalate	BQL	10.3	
Dibenz(a,h)anthracene	BQL	10.3	
Diethylphthalate	BQL	10.3	
Dimethylphthalate	BQL	10.3	
Fluoranthene	BQL	10.3	
Fluorene	BQL	10.3	
Hexachlorobenzene	BQL	10.3	
Hexachlorobutadiene	BQL	10.3	
Hexachlorocyclopentadiene	BQL	10.3	
Hexachloroethane	BQL	10.3	
Indeno(1,2,3-cd)pyrene	BQL	10.3	
Isophorone	BQL	10.3	
N-Nitroso-di-n-dipropylamine	BQL	10.3	
N-nitrosodimethylamine	BQL	10.3	
N-nitrosodiphenylamine	BQL	10.3	
Naphthalene	BQL	10.3	
Nitrobenzene	BQL	10.3	
Pentachlorophenol	BQL	51.6	
Phenanthrene	BQL	10.3	
Phenol	BQL	10.3	
Pyrene	BQL	10.3	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404072-01D
Client ID: AA4-C01
Collected: 04/07/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/22/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	10.1	
1,2-Dichlorobenzene	BQL	10.1	
1,3-Dichlorobenzene	BQL	10.1	
1,4-Dichlorobenzene	BQL	10.1	
2,4,6-Trichlorophenol	BQL	10.1	
2,4-Dichlorophenol	BQL	10.1	
2,4-Dimethylphenol	BQL	10.1	
2,4-Dinitrophenol	BQL	50.5	
2,4-Dinitrotoluene	BQL	10.1	
2,6-Dinitrotoluene	BQL	10.1	
2-Chloronaphthalene	BQL	10.1	
2-Chlorophenol	BQL	10.1	
2-Nitrophenol	BQL	10.1	
3,3'-Dichlorobenzidine	BQL	20.2	
4,6-Dinitro-2-methylphenol	BQL	50.5	
4-Bromophenyl-phenylether	BQL	10.1	
4-Chloro-3-methylphenol	BQL	10.1	
4-Chlorophenyl phenyl ether	BQL	10.1	
4-Nitrophenol	BQL	50.5	
Acenaphthene	BQL	10.1	
Acenaphthylene	BQL	10.1	
Anthracene	BQL	10.1	
Benzidine	BQL	10.1	
Benzo(a)anthracene	BQL	10.1	
Benzo(a)pyrene	BQL	10.1	
Benzo(b)fluoranthene	BQL	10.1	
Benzo(g,h,i)perylene	BQL	10.1	
Benzo(k)fluoranthene	BQL	10.1	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404072-01D
Client ID: AA4-C01
Collected: 04/07/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/22/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
bis(2-Chloroethoxy) methane	BQL	10.1	
bis(2-Chloroethyl) ether	BQL	10.1	
bis(2-Chloroisopropyl) ether	BQL	10.1	
bis(2-Ethylhexyl)phthalate	BQL	10.1	
Butylbenzylphthalate	BQL	10.1	
Chrysene	BQL	10.1	
Di-n-butylphthalate	2.85	10.1	BJ
Di-n-octylphthalate	BQL	10.1	
Dibenz(a,h)anthracene	BQL	10.1	
Diethylphthalate	BQL	10.1	
Dimethylphthalate	BQL	10.1	
Fluoranthene	BQL	10.1	
Fluorene	BQL	10.1	
Hexachlorobenzene	BQL	10.1	
Hexachlorobutadiene	BQL	10.1	
Hexachlorocyclopentadiene	BQL	10.1	
Hexachloroethane	BQL	10.1	
Indeno(1,2,3-cd)pyrene	BQL	10.1	
Isophorone	BQL	10.1	
N-Nitroso-di-n-dipropylamine	BQL	10.1	
N-nitrosodimethylamine	BQL	10.1	
N-nitrosodiphenylamine	BQL	10.1	
Naphthalene	BQL	10.1	
Nitrobenzene	BQL	10.1	
Pentachlorophenol	BQL	50.5	
Phenanthrene	BQL	10.1	
Phenol	BQL	10.1	
Pyrene	BQL	10.1	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404072-02D
Client ID: AA4-C02
Collected: 04/07/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/22/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	10.3	
1,2-Dichlorobenzene	BQL	10.3	
1,3-Dichlorobenzene	BQL	10.3	
1,4-Dichlorobenzene	BQL	10.3	
2,4,6-Trichlorophenol	BQL	10.3	
2,4-Dichlorophenol	BQL	10.3	
2,4-Dimethylphenol	BQL	10.3	
2,4-Dinitrophenol	BQL	51.6	
2,4-Dinitrotoluene	BQL	10.3	
2,6-Dinitrotoluene	BQL	10.3	
2-Chloronaphthalene	BQL	10.3	
2-Chlorophenol	BQL	10.3	
2-Nitrophenol	BQL	10.3	
3,3'-Dichlorobenzidine	BQL	20.6	
4,6-Dinitro-2-methylphenol	BQL	51.6	
4-Bromophenyl-phenylether	BQL	10.3	
4-Chloro-3-methylphenol	BQL	10.3	
4-Chlorophenyl phenyl ether	BQL	10.3	
4-Nitrophenol	BQL	51.6	
Acenaphthene	BQL	10.3	
Acenaphthylene	BQL	10.3	
Anthracene	BQL	10.3	
Benzidine	BQL	10.3	
Benzo(a)anthracene	BQL	10.3	
Benzo(a)pyrene	BQL	10.3	
Benzo(b)fluoranthene	BQL	10.3	
Benzo(g,h,i)perylene	BQL	10.3	
Benzo(k)fluoranthene	BQL	10.3	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404072-02D
Client ID: AA4-C02
Collected: 04/07/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/22/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
bis(2-Chloroethoxy) methane	BQL	10.3	
bis(2-Chloroethyl) ether	BQL	10.3	
bis(2-Chloroisopropyl) ether	BQL	10.3	
bis(2-Ethylhexyl)phthalate	BQL	10.3	
Butylbenzylphthalate	BQL	10.3	
Chrysene	BQL	10.3	
Di-n-butylphthalate	2.97	10.3	BJ
Di-n-octylphthalate	BQL	10.3	
Dibenz(a,h)anthracene	BQL	10.3	
Diethylphthalate	BQL	10.3	
Dimethylphthalate	BQL	10.3	
Fluoranthene	BQL	10.3	
Fluorene	BQL	10.3	
Hexachlorobenzene	BQL	10.3	
Hexachlorobutadiene	BQL	10.3	
Hexachlorocyclopentadiene	BQL	10.3	
Hexachloroethane	BQL	10.3	
Indeno(1,2,3-cd)pyrene	BQL	10.3	
Isophorone	BQL	10.3	
N-Nitroso-di-n-dipropylamine	BQL	10.3	
N-nitrosodimethylamine	BQL	10.3	
N-nitrosodiphenylamine	BQL	10.3	
Naphthalene	BQL	10.3	
Nitrobenzene	BQL	10.3	
Pentachlorophenol	BQL	51.6	
Phenanthrene	BQL	10.3	
Phenol	BQL	10.3	
Pyrene	BQL	10.3	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404074-02D
Client ID: TC6-C01
Collected: 04/09/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/27/94
Prepared: 04/22/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	10.6	
1,2-Dichlorobenzene	BQL	10.6	
1,3-Dichlorobenzene	BQL	10.6	
1,4-Dichlorobenzene	BQL	10.6	
2,4,6-Trichlorophenol	BQL	10.6	
2,4-Dichlorophenol	BQL	10.6	
2,4-Dimethylphenol	BQL	10.6	
2,4-Dinitrophenol	BQL	53.0	
2,4-Dinitrotoluene	BQL	10.6	
2,6-Dinitrotoluene	BQL	10.6	
2-Chloronaphthalene	BQL	10.6	
2-Chlorophenol	BQL	10.6	
2-Nitrophenol	BQL	10.6	
3,3'-Dichlorobenzidine	BQL	21.2	
4,6-Dinitro-2-methylphenol	BQL	53.0	
4-Bromophenyl-phenylether	BQL	10.6	
4-Chloro-3-methylphenol	BQL	10.6	
4-Chlorophenyl phenyl ether	BQL	10.6	
4-Nitrophenol	BQL	53.0	
Acenaphthene	BQL	10.6	
Acenaphthylene	BQL	10.6	
Anthracene	BQL	10.6	
Benzidine	BQL	10.6	
Benzo(a)anthracene	BQL	10.6	
Benzo(a)pyrene	BQL	10.6	
Benzo(b)fluoranthene	BQL	10.6	
Benzo(g,h,i)perylene	BQL	10.6	
Benzo(k)fluoranthene	BQL	10.6	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404074-02D
Client ID: TC6-C01
Collected: 04/09/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/27/94
Prepared: 04/22/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
bis(2-Chloroethoxy) methane	BQL	10.6	
bis(2-Chloroethyl) ether	BQL	10.6	
bis(2-Chloroisopropyl) ether	BQL	10.6	
bis(2-Ethylhexyl)phthalate	2.68	10.6	J
Butylbenzylphthalate	BQL	10.6	
Chrysene	BQL	10.6	
Di-n-butylphthalate	BQL	10.6	
Di-n-octylphthalate	BQL	10.6	
Dibenz(a,h)anthracene	BQL	10.6	
Diethylphthalate	BQL	10.6	
Dimethylphthalate	BQL	10.6	
Fluoranthene	BQL	10.6	
Fluorene	BQL	10.6	
Hexachlorobenzene	BQL	10.6	
Hexachlorobutadiene	BQL	10.6	
Hexachlorocyclopentadiene	BQL	10.6	
Hexachloroethane	BQL	10.6	
Indeno(1,2,3-cd)pyrene	BQL	10.6	
Isophorone	BQL	10.6	
N-Nitroso-di-n-dipropylamine	BQL	10.6	
N-nitrosodimethylamine	BQL	10.6	
N-nitrosodiphenylamine	BQL	10.6	
Naphthalene	BQL	10.6	
Nitrobenzene	BQL	10.6	
Pentachlorophenol	BQL	53.0	
Phenanthrene	BQL	10.6	
Phenol	BQL	10.6	
Pyrene	BQL	10.6	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404075-01F
Client ID: BH-SW01
Collected: 04/11/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/22/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	10.4	
1,2-Dichlorobenzene	BQL	10.4	
1,3-Dichlorobenzene	BQL	10.4	
1,4-Dichlorobenzene	BQL	10.4	
2,4,6-Trichlorophenol	BQL	10.4	
2,4-Dichlorophenol	BQL	10.4	
2,4-Dimethylphenol	BQL	10.4	
2,4-Dinitrophenol	BQL	52.1	
2,4-Dinitrotoluene	BQL	10.4	
2,6-Dinitrotoluene	BQL	10.4	
2-Chloronaphthalene	BQL	10.4	
2-Chlorophenol	BQL	10.4	
2-Nitrophenol	BQL	10.4	
3,3'-Dichlorobenzidine	BQL	20.8	
4,6-Dinitro-2-methylphenol	BQL	52.1	
4-Bromophenyl-phenylether	BQL	10.4	
4-Chloro-3-methylphenol	BQL	10.4	
4-Chlorophenyl phenyl ether	BQL	10.4	
4-Nitrophenol	BQL	52.1	
Acenaphthene	BQL	10.4	
Acenaphthylene	BQL	10.4	
Anthracene	BQL	10.4	
Benzidine	BQL	10.4	
Benzo(a)anthracene	BQL	10.4	
Benzo(a)pyrene	BQL	10.4	
Benzo(b)fluoranthene	BQL	10.4	
Benzo(g,h,i)perylene	BQL	10.4	
Benzo(k)fluoranthene	BQL	10.4	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404075-01F
Client ID: BH-SW01
Collected: 04/11/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 04/22/94
Prepared: 04/15/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
bis(2-Chloroethoxy) methane	BQL	10.4	
bis(2-Chloroethyl) ether	BQL	10.4	
bis(2-Chloroisopropyl) ether	BQL	10.4	
bis(2-Ethylhexyl)phthalate	BQL	10.4	
Butylbenzylphthalate	BQL	10.4	
Chrysene	BQL	10.4	
Di-n-butylphthalate	3.30	10.4	BJ
Di-n-octylphthalate	BQL	10.4	
Dibenz(a,h)anthracene	BQL	10.4	
Diethylphthalate	BQL	10.4	
Dimethylphthalate	BQL	10.4	
Fluoranthene	BQL	10.4	
Fluorene	BQL	10.4	
Hexachlorobenzene	BQL	10.4	
Hexachlorobutadiene	BQL	10.4	
Hexachlorocyclopentadiene	BQL	10.4	
Hexachloroethane	BQL	10.4	
Indeno(1,2,3-cd)pyrene	BQL	10.4	
Isophorone	BQL	10.4	
N-Nitroso-di-n-dipropylamine	BQL	10.4	
N-nitrosodimethylamine	BQL	10.4	
N-nitrosodiphenylamine	BQL	10.4	
Naphthalene	BQL	10.4	
Nitrobenzene	BQL	10.4	
Pentachlorophenol	BQL	52.1	
Phenanthrene	BQL	10.4	
Phenol	BQL	10.4	
Pyrene	BQL	10.4	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404075-01A
Client ID: BH-SW01
Collected: 04/11/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 624
Units: ug/L

Analyst: AD
Analyzed: 04/15/94
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,1,1-Trichloroethane	BQL	5.00	
1,1,2,2-Tetrachloroethane	BQL	5.00	
1,1,2-Trichloroethane	BQL	5.00	
1,1-Dichloroethane	BQL	5.00	
1,1-Dichloroethene	BQL	5.00	
1,2-Dichlorobenzene	BQL	10.0	
1,2-Dichloroethane	BQL	5.00	
1,2-Dichloropropane	BQL	5.00	
1,3-Dichlorobenzene	BQL	10.0	
1,4-Dichlorobenzene	BQL	10.0	
2-Chloroethylvinyl ether	BQL	10.0	
Benzene	BQL	5.00	
Bromodichloromethane	BQL	5.00	
Bromoform	BQL	5.00	
Bromomethane	BQL	10.0	
Carbon Tetrachloride	BQL	5.00	
Chlorobenzene	BQL	5.00	
Chloroethane	BQL	10.0	
Chloroform	BQL	5.00	
Chloromethane	BQL	10.0	
cis-1,3-Dichloropropene	BQL	5.00	
Dibromochloromethane	BQL	5.00	
Ethyl Benzene	BQL	5.00	
Methylene Chloride	1.37	5.00	BJ
Tetrachloroethene	BQL	5.00	
Toluene	BQL	5.00	
trans-1,2-Dichloroethene	BQL	5.00	
trans-1,3-Dichloropropene	BQL	5.00	
Trichloroethene	BQL	5.00	
Trichlorofluoromethane	BQL	10.0	
Vinyl Chloride	BQL	10.0	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404075-02A
Client ID: BH-SW01-TB
Collected: 04/11/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 624
Units: ug/L

Analyst: AD
Analyzed: 04/15/94
Prepared:

VOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,1,1-Trichloroethane	BQL	5.00	
1,1,2,2-Tetrachloroethane	BQL	5.00	
1,1,2-Trichloroethane	BQL	5.00	
1,1-Dichloroethane	BQL	5.00	
1,1-Dichloroethene	BQL	5.00	
1,2-Dichlorobenzene	BQL	10.0	
1,2-Dichloroethane	BQL	5.00	
1,2-Dichloropropane	BQL	5.00	
1,3-Dichlorobenzene	BQL	10.0	
1,4-Dichlorobenzene	BQL	10.0	
2-Chloroethylvinyl ether	BQL	10.0	
Benzene	BQL	5.00	
Bromodichloromethane	BQL	5.00	
Bromoform	BQL	5.00	
Bromomethane	BQL	10.0	
Carbon Tetrachloride	BQL	5.00	
Chlorobenzene	BQL	5.00	
Chloroethane	BQL	10.0	
Chloroform	1.37	5.00	J
Chloromethane	BQL	10.0	
cis-1,3-Dichloropropene	BQL	5.00	
Dibromochloromethane	BQL	5.00	
Ethyl Benzene	BQL	5.00	
Methylene Chloride	1.97	5.00	BJ
Tetrachloroethene	BQL	5.00	
Toluene	BQL	5.00	
trans-1,2-Dichloroethene	BQL	5.00	
trans-1,3-Dichloropropene	BQL	5.00	
Trichloroethene	BQL	5.00	
Trichlorofluoromethane	BQL	10.0	
Vinyl Chloride	BQL	10.0	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404060-01C
Client ID: SL1-C01
Collected: 04/06/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 608
Units: ug/L

Analyst: TS
Analyzed: 05/04/94
Prepared: 04/15/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	0.110	
4,4'-DDE	BQL	0.025	
4,4'-DDT	BQL	0.154	
Aldrin	BQL	0.011	
alpha-BHC	BQL	0.008	
Aroclor 1016	BQL	0.545	
Aroclor 1221	BQL	0.545	
Aroclor 1232	BQL	0.545	
Aroclor 1242	BQL	0.545	
Aroclor 1248	BQL	0.545	
Aroclor 1254	BQL	0.545	
Aroclor 1260	BQL	0.545	
beta-BHC	BQL	0.021	
Chlordane	BQL	0.153	
delta-BHC	BQL	0.005	
Dieldrin	BQL	0.035	
Endosulfan I	BQL	0.036	
Endosulfan II	BQL	0.047	
Endosulfan sulfate	BQL	0.136	
Endrin	BQL	0.033	
Endrin aldehyde	BQL	0.315	
Heptachlor	BQL	0.016	
Heptachlor epoxide	BQL	0.014	
Lindane (gamma-BHC)	BQL	0.011	
Toxaphene	BQL	1.09	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404060-02C
Client ID: AA2-C01
Collected: 04/06/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 608
Units: ug/L

Analyst: TS
Analyzed: 05/04/94
Prepared: 04/15/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	0.102	
4,4'-DDE	BQL	0.023	
4,4'-DDT	BQL	0.142	
Aldrin	BQL	0.010	
alpha-BHC	BQL	0.007	
Aroclor 1016	BQL	0.505	
Aroclor 1221	BQL	0.505	
Aroclor 1232	BQL	0.505	
Aroclor 1242	BQL	0.505	
Aroclor 1248	BQL	0.505	
Aroclor 1254	BQL	0.505	
Aroclor 1260	BQL	0.505	
beta-BHC	BQL	0.019	
Chlordane	BQL	0.141	
delta-BHC	BQL	0.005	
Dieldrin	BQL	0.032	
Endosulfan I	BQL	0.033	
Endosulfan II	BQL	0.043	
Endosulfan sulfate	BQL	0.126	
Endrin	BQL	0.030	
Endrin aldehyde	BQL	0.292	
Heptachlor	BQL	0.015	
Heptachlor epoxide	BQL	0.013	
Lindane (gamma-BHC)	BQL	0.010	
Toxaphene	BQL	1.01	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404075-01J
Client ID: BH-SW01
Collected: 04/11/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 608
Units: ug/L

Analyst: TS
Analyzed: 05/04/94
Prepared: 04/15/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	0.110	
4,4'-DDE	BQL	0.025	
4,4'-DDT	BQL	0.154	
Aldrin	BQL	0.011	
alpha-BHC	BQL	0.008	
Aroclor 1016	BQL	0.545	
Aroclor 1221	BQL	0.545	
Aroclor 1232	BQL	0.545	
Aroclor 1242	BQL	0.545	
Aroclor 1248	BQL	0.545	
Aroclor 1254	BQL	0.545	
Aroclor 1260	BQL	0.545	
beta-BHC	BQL	0.021	
Chlordane	BQL	0.153	
delta-BHC	BQL	0.005	
Dieldrin	BQL	0.035	
Endosulfan I	BQL	0.036	
Endosulfan II	BQL	0.047	
Endosulfan sulfate	BQL	0.136	
Endrin	BQL	0.033	
Endrin aldehyde	BQL	0.315	
Heptachlor	BQL	0.016	
Heptachlor epoxide	BQL	0.014	
Lindane (gamma-BHC)	BQL	0.011	
Toxaphene	BQL	1.09	

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404060-01
Client ID: SL1-C01

Matrix: WATER
Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
TCLP Silver	SW846 6010	BQL	34.8	ug/L	1	04/13/94	05/09/94 MB
TCLP Arsenic	SW846 6010	BQL	93.0	ug/L	1	04/13/94	05/09/94 MB
TCLP Barium	SW846 6010	312.0	110.0	ug/L	1	04/13/94	05/09/94 MB
TCLP Cadmium	SW846 6010	BQL	23.6	ug/L	1	04/13/94	05/09/94 MB
TCLP Chromium	SW846 6010	BQL	20.4	ug/L	1	04/13/94	05/09/94 MB
TCLP Mercury	SW846 7470	BQL	0.024	ug/L	1	05/13/94	05/13/94 DH
TCLP Lead	SW846 6010	BQL	139.0	ug/L	1	04/13/94	05/09/94 MB
TCLP Selenium	SW846 6010	BQL	165.0	ug/L	1	04/13/94	05/09/94 MB
Arsenic	MCAWW 206.2	BQL	2.10	ug/L	1	05/05/94	05/06/94 RA
Lead	MCAWW 239.2	0.921	0.600	ug/L	1	05/05/94	05/06/94 RA
Mercury	MCAWW 245.1	BQL	0.100	ug/L	1	04/21/94	04/21/94 MGP
Selenium	MCAWW 270.2	BQL	1.50	ug/L	1	05/05/94	05/06/94 FU
Silver	MCAWW 272.2	BQL	0.500	ug/L	1	05/05/94	05/06/94 FU
Barium	MCAWW 200.7	58.4	12.4	ug/L	1	05/05/94	05/06/94 MB
Cadmium	MCAWW 200.7	BQL	3.19	ug/L	1	05/05/94	05/06/94 MB
Chromium	MCAWW 200.7	BQL	8.31	ug/L	1	05/05/94	05/06/94 MB
Copper	MCAWW 200.7	BQL	16.3	ug/L	1	05/05/94	05/06/94 MB
Iron	MCAWW 200.7	472.0	54.9	ug/L	1	05/05/94	05/06/94 MB
Nickel	MCAWW 200.7	BQL	28.8	ug/L	1	05/05/94	05/06/94 MB
Zinc	MCAWW 200.7	11.8	10.6	ug/L	1	05/05/94	05/06/94 MB

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404060-02
Client ID: AA2-C01

Matrix: WATER
Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
TCLP Silver	SW846 6010	BQL	34.8	ug/L	1	04/13/94	05/09/94 MB
TCLP Arsenic	SW846 6010	BQL	93.0	ug/L	1	04/13/94	05/09/94 MB
TCLP Barium	SW846 6010	300.0	110.0	ug/L	1	04/13/94	05/09/94 MB
TCLP Cadmium	SW846 6010	BQL	23.6	ug/L	1	04/13/94	05/09/94 MB
TCLP Chromium	SW846 6010	28.9	20.4	ug/L	1	04/13/94	05/09/94 MB
TCLP Mercury	SW846 7470	0.105	0.100	ug/L	1	05/09/94	05/09/94 MGP
TCLP Lead	SW846 6010	BQL	139.0	ug/L	1	04/13/94	05/09/94 MB
TCLP Selenium	SW846 6010	BQL	165.0	ug/L	1	04/13/94	05/09/94 MB
Arsenic	MCAWW 206.2	7.01	2.10	ug/L	1	05/05/94	05/06/94 RA
Lead	MCAWW 239.2	BQL	0.600	ug/L	1	05/05/94	05/06/94 RA
Mercury	MCAWW 245.1	BQL	0.100	ug/L	1	04/21/94	04/21/94 MGP
Selenium	MCAWW 270.2	2.58	1.50	ug/L	1	05/05/94	05/06/94 FU
Silver	MCAWW 272.2	BQL	0.500	ug/L	1	05/05/94	05/06/94 FU
Barium	MCAWW 200.7	165.0	12.4	ug/L	1	05/05/94	05/06/94 MB
Cadmium	MCAWW 200.7	BQL	3.19	ug/L	1	05/05/94	05/06/94 MB
Chromium	MCAWW 200.7	BQL	8.31	ug/L	1	05/05/94	05/06/94 MB
Copper	MCAWW 200.7	BQL	16.3	ug/L	1	05/05/94	05/06/94 MB
Iron	MCAWW 200.7	155.0	54.9	ug/L	1	05/05/94	05/06/94 MB
Nickel	MCAWW 200.7	BQL	28.8	ug/L	1	05/05/94	05/06/94 MB
Zinc	MCAWW 200.7	37.3	10.6	ug/L	1	05/05/94	05/06/94 MB

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404060-03
Client ID: AA3-C01

Matrix: WATER
Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
TCLP Silver	SW846 6010	BQL	34.8	ug/L	1	04/13/94	05/09/94 MB
TCLP Arsenic	SW846 6010	BQL	93.0	ug/L	1	04/13/94	05/09/94 MB
TCLP Barium	SW846 6010	351.0	110.0	ug/L	1	04/13/94	05/09/94 MB
TCLP Cadmium	SW846 6010	BQL	23.6	ug/L	1	04/13/94	05/09/94 MB
TCLP Chromium	SW846 6010	BQL	20.4	ug/L	1	04/13/94	05/09/94 MB
TCLP Mercury	SW846 7470	BQL	0.100	ug/L	1	05/09/94	05/09/94 MGP
TCLP Lead	SW846 6010	BQL	139.0	ug/L	1	04/13/94	05/09/94 MB
TCLP Selenium	SW846 6010	BQL	165.0	ug/L	1	04/13/94	05/09/94 MB
Arsenic	MCAWW 206.2	12.8	2.10	ug/L	1	05/05/94	05/06/94 RA
Lead	MCAWW 239.2	3.04	0.600	ug/L	1	05/05/94	05/06/94 RA
Mercury	MCAWW 245.1	BQL	0.100	ug/L	1	04/21/94	04/21/94 MGP
Selenium	MCAWW 270.2	BQL	1.50	ug/L	1	05/05/94	05/06/94 FU
Silver	MCAWW 272.2	BQL	0.500	ug/L	1	05/05/94	05/06/94 FU
Barium	MCAWW 200.7	307.0	12.4	ug/L	1	05/05/94	05/06/94 MB
Cadmium	MCAWW 200.7	BQL	3.19	ug/L	1	05/05/94	05/06/94 MB
Chromium	MCAWW 200.7	BQL	8.31	ug/L	1	05/05/94	05/06/94 MB
Copper	MCAWW 200.7	BQL	16.3	ug/L	1	05/05/94	05/06/94 MB
Iron	MCAWW 200.7	338.0	54.9	ug/L	1	05/05/94	05/06/94 MB
Nickel	MCAWW 200.7	BQL	28.8	ug/L	1	05/05/94	05/06/94 MB
Zinc	MCAWW 200.7	44.7	10.6	ug/L	1	05/05/94	05/06/94 MB

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404072-01
Client ID: AA4-C01

Matrix: WATER
Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
TCLP Silver	SW846 6010	BQL	34.8	ug/L	1	05/06/94	05/09/94 MB
TCLP Arsenic	SW846 6010	BQL	93.0	ug/L	1	05/06/94	05/09/94 MB
TCLP Barium	SW846 6010	319.0	110.0	ug/L	1	05/06/94	05/09/94 MB
TCLP Cadmium	SW846 6010	BQL	23.6	ug/L	1	05/06/94	05/09/94 MB
TCLP Chromium	SW846 6010	BQL	20.4	ug/L	1	05/06/94	05/09/94 MB
TCLP Mercury	SW846 7470	BQL	0.100	ug/L	1	05/11/94	05/11/94 DH
TCLP Lead	SW846 6010	BQL	139.0	ug/L	1	05/06/94	05/09/94 MB
TCLP Selenium	SW846 6010	BQL	165.0	ug/L	1	05/06/94	05/09/94 MB
Arsenic	MCAWW 206.2	4.80	2.10	ug/L	1	05/05/94	05/06/94 RA
Lead	MCAWW 239.2	2.20	0.600	ug/L	1	05/05/94	05/06/94 RA
Mercury	MCAWW 245.1	BQL	0.100	ug/L	1	04/21/94	04/21/94 MGP
Selenium	MCAWW 270.2	BQL	15.0	ug/L	10	05/05/94	05/06/94 FU
Silver	MCAWW 272.2	BQL	0.500	ug/L	1	05/05/94	05/06/94 FU
Barium	MCAWW 200.7	273.0	12.4	ug/L	1	05/05/94	05/06/94 MB
Cadmium	MCAWW 200.7	BQL	3.19	ug/L	1	05/05/94	05/06/94 MB
Chromium	MCAWW 200.7	BQL	8.31	ug/L	1	05/05/94	05/06/94 MB
Copper	MCAWW 200.7	BQL	16.3	ug/L	1	05/05/94	05/06/94 MB
Iron	MCAWW 200.7	BQL	54.9	ug/L	1	05/05/94	05/06/94 MB
Nickel	MCAWW 200.7	BQL	28.8	ug/L	1	05/05/94	05/06/94 MB
Zinc	MCAWW 200.7	64.4	10.6	ug/L	1	05/05/94	05/06/94 MB

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404072-02
Client ID: AA4-CO2

Matrix: WATER
Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
TCLP Silver	SW846 6010	BQL	34.8	ug/L	1	05/06/94	05/09/94 MB
TCLP Arsenic	SW846 6010	BQL	93.0	ug/L	1	05/06/94	05/09/94 MB
TCLP Barium	SW846 6010	324.0	110.0	ug/L	1	05/06/94	05/09/94 MB
TCLP Cadmium	SW846 6010	BQL	23.6	ug/L	1	05/06/94	05/09/94 MB
TCLP Chromium	SW846 6010	24.1	20.4	ug/L	1	05/06/94	05/09/94 MB
TCLP Mercury	SW846 7470	BQL	0.100	ug/L	1	05/11/94	05/11/94 DH
TCLP Lead	SW846 6010	BQL	139.0	ug/L	1	05/06/94	05/09/94 MB
TCLP Selenium	SW846 6010	BQL	165.0	ug/L	1	05/06/94	05/09/94 MB
Arsenic	MCAWW 206.2	4.12	2.10	ug/L	1	05/05/94	05/06/94 RA
Lead	MCAWW 239.2	BQL	0.600	ug/L	1	05/05/94	05/06/94 RA
Mercury	MCAWW 245.1	BQL	0.100	ug/L	1	04/21/94	04/21/94 MGP
Selenium	MCAWW 270.2	BQL	1.50	ug/L	1	05/05/94	05/06/94 FU
Silver	MCAWW 272.2	BQL	0.500	ug/L	1	05/05/94	05/06/94 FU
Barium	MCAWW 200.7	23.1	12.4	ug/L	1	05/05/94	05/06/94 MB
Cadmium	MCAWW 200.7	BQL	3.19	ug/L	1	05/05/94	05/06/94 MB
Chromium	MCAWW 200.7	BQL	8.31	ug/L	1	05/05/94	05/06/94 MB
Copper	MCAWW 200.7	BQL	16.3	ug/L	1	05/05/94	05/06/94 MB
Iron	MCAWW 200.7	BQL	54.9	ug/L	1	05/05/94	05/06/94 MB
Nickel	MCAWW 200.7	BQL	28.8	ug/L	1	05/05/94	05/06/94 MB
Zinc	MCAWW 200.7	20.4	10.6	ug/L	1	05/05/94	05/06/94 MB

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404074-02 Matrix: WATER
Client ID: TC6-C01 Collected: 04/09/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
TCLP Silver	SW846 6010	BQL	34.8	ug/L	1	05/06/94	05/09/94 MB
TCLP Arsenic	SW846 6010	BQL	93.0	ug/L	1	05/06/94	05/09/94 MB
TCLP Barium	SW846 6010	528.0	110.0	ug/L	1	05/06/94	05/09/94 MB
TCLP Cadmium	SW846 6010	BQL	23.6	ug/L	1	05/06/94	05/09/94 MB
TCLP Chromium	SW846 6010	BQL	20.4	ug/L	1	05/06/94	05/09/94 MB
TCLP Mercury	SW846 7470	BQL	0.100	ug/L	1	05/11/94	05/11/94 DH
TCLP Lead	SW846 6010	BQL	139.0	ug/L	1	05/06/94	05/09/94 MB
TCLP Selenium	SW846 6010	BQL	165.0	ug/L	1	05/06/94	05/09/94 MB
Arsenic	MCAWW 206.2	BQL	2.10	ug/L	1	05/05/94	05/06/94 RA
Lead	MCAWW 239.2	0.921	0.600	ug/L	1	05/05/94	05/06/94 RA
Mercury	MCAWW 245.1	BQL	0.100	ug/L	1	04/21/94	04/21/94 MGP
Selenium	MCAWW 270.2	BQL	1.50	ug/L	1	05/05/94	05/06/94 FU
Silver	MCAWW 272.2	BQL	0.500	ug/L	1	05/05/94	05/06/94 FU
Barium	MCAWW 200.7	261.0	12.4	ug/L	1	05/05/94	05/06/94 MB
Cadmium	MCAWW 200.7	BQL	3.19	ug/L	1	05/05/94	05/06/94 MB
Chromium	MCAWW 200.7	BQL	8.31	ug/L	1	05/05/94	05/06/94 MB
Copper	MCAWW 200.7	BQL	16.3	ug/L	1	05/05/94	05/06/94 MB
Iron	MCAWW 200.7	1350.0	54.9	ug/L	1	05/05/94	05/06/94 MB
Nickel	MCAWW 200.7	BQL	28.8	ug/L	1	05/05/94	05/06/94 MB
Zinc	MCAWW 200.7	93.5	10.6	ug/L	1	05/05/94	05/06/94 MB

GP ID: 9404075-01 Matrix: WATER
Client ID: BH-SW01 Collected: 04/11/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Arsenic	MCAWW 206.2	BQL	2.10	ug/L	1	04/18/94	04/19/94 FU
Lead	MCAWW 239.2	2.58	0.600	ug/L	1	04/18/94	04/20/94 FU
Mercury	MCAWW 245.1	0.181	0.100	ug/L	1	04/26/94	04/26/94 MP
Selenium	MCAWW 270.2	BQL	1.50	ug/L	1	04/18/94	04/19/94 FU
Silver	MCAWW 272.2	BQL	0.500	ug/L	1	04/18/94	04/19/94 FU
Barium	MCAWW 200.7	21.7	12.4	ug/L	1	04/18/94	04/19/94 MB
Cadmium	MCAWW 200.7	BQL	3.19	ug/L	1	04/18/94	04/19/94 MB
Chromium	MCAWW 200.7	BQL	8.31	ug/L	1	04/18/94	04/19/94 MB
Copper	MCAWW 200.7	BQL	16.3	ug/L	1	04/18/94	04/19/94 MB
Iron	MCAWW 200.7	269.0	54.9	ug/L	1	04/18/94	04/19/94 MB
Nickel	MCAWW 200.7	BQL	28.8	ug/L	1	04/18/94	04/19/94 MB
Zinc	MCAWW 200.7	22.4	10.6	ug/L	1	04/18/94	04/19/94 MB

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9404060-01 Matrix: WATER
Client ID: SL1-C01 Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Total Organic Carbon	MCAWW 415.1	25.6	1.00	mg/L	1		04/15/94 VM
Phosphorus, Total	MCAWW 365.2	BQL	0.010	mg/L	1		05/01/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	8.79	0.100	mg/L	1		04/26/94 VHM

GP ID: 9404060-02 Matrix: WATER
Client ID: AA2-C01 Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Total Organic Carbon	MCAWW 415.1	12.1	1.00	mg/L	1		04/15/94 VM
Phosphorus, Total	MCAWW 365.2	0.201	0.010	mg/L	1		05/01/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	10.3	0.100	mg/L	1		04/26/94 VHM

GP ID: 9404060-03 Matrix: WATER
Client ID: AA3-C01 Collected: 04/06/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Total Organic Carbon	MCAWW 415.1	14.1	1.00	mg/L	1		04/15/94 VM
Phosphorus, Total	MCAWW 365.2	0.550	0.010	mg/L	1		05/01/94 MG
Total Kjeldahl Nitrogen	MCAWW 351.3	0.210	0.100	mg/L	1		04/26/94 VHM

GP ID: 9404072-01 Matrix: WATER
Client ID: AA4-C01 Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Total Organic Carbon	MCAWW 415.1	71.4	1.00	mg/L	1		05/10/94 VHM

GP ID: 9404072-02 Matrix: WATER
Client ID: AA4-C02 Collected: 04/07/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	BQL	8.33	mg/L			05/04/94 CM
Total Organic Carbon	MCAWW 415.1	72.6	1.00	mg/L	1		05/10/94 VHM

Project: BALTIMORE HARBOR

GP ENVIRONMENTAL SERVICES
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9404074-02 Matrix: WATER
Client ID: TC6-C01 Collected: 04/09/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	BQL	5.56	mg/L			05/05/94 CM
Total Organic Carbon	MCAWW 415.1	27.4	1.00	mg/L	1		05/10/94 VHM

GP ID: 9404075-01 Matrix: WATER
Client ID: BH-SW01 Collected: 04/11/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Phosphorus, Total	MCAWW 365.2	0.071	0.010	mg/L	1		05/06/94 VM
Total Kjeldahl Nitrogen	MCAWW 351.3	1.22	0.100	mg/L	1		05/05/94 JS
Oil and Grease, Gravimetric	MCAWW 413.1	BQL	5.15	mg/L			05/06/94 CM
Total Organic Carbon	MCAWW 415.1	3.75	1.00	mg/L	1		04/13/94 mc

GP ENVIRONMENTAL SERVICES

Possible notes and definitions for this report:

BQL = Below Quantitation Limit

J = An estimated value, below method detection limit

B = Indicates that the compound was found in the associated blank

E = Indicates that the concentration exceeded the calibration range of the instrument

U = Indicates that the compound was analyzed for but not detected, number indicates the detection limit

D = Indicates that the compound was found in a analysis at a secondary dilution factor

* = Value obtained from a 1:5 dilution

÷ = Value obtained from a 1:10 dilution

= Value obtained from a 1:20 dilution

^ = Value obtained from a 1:50 dilution

~ = Value obtained from a 1:100 dilution

! = Value obtained from a 1:250 dilution

@ = Value obtained from a 1:125 dilution (Medium Level)

$ = Value obtained from a 1:1000 dilution

& = Value obtained from a 1:10000 dilution

N = Flashpoint not observed; heated to specified limit

R = Flammable at room temperature

TNTC = Too numerous to count

B.P. = Detection limit taken from boiling point

F.F. = Sample gave off flammable fumes

Gaithersburg, Maryland 20877
(301) 926-6802

04-07P

1 of 3 Pgs.

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date (APR 94)	Time	Sample Matrix	Sampler's Initials	Pesticides/PPM OCG/SVOA/PCB/Metals	TKN/Phos/PHS/PAH OCG/SVOA/PCB/Metals	Elutriate	CLIENT COMMENTS
Turnaround Time								
# of Container					1	1	1	
Container Type					16 oz	8 oz	½ gal	
Preservative Used					—	—	—	
AA3-EB11-$3	07	1300	W	JM			X	DATE 13 '07"
AA3-EB11-$1	07	1330	$	JM	X			40.25 - 45.0
AA3-EB11-$2	07	1330	$	JM		X		40.25 - 45.0
AA3-EB12-$3	07	1310	W	JM			X	
AA3-EB12-$1	07	1320	$	JM	X			30.7 - 45.0
AA3-EB12-$2	07	1320	$	JM		X		30.7 - 45.0
AA4-EB13-$3	07	1355	W	JM			X	
AA4-EB-13-$0	07	1355	W	JM			X	
AA4-EB-13-$1	07	1405	$	JM	X			40.7 - 45.0
AA4-EB-13-$2	07	1405	$	JM		X		40.7 - 45.0
AA4-EB13-$4	07	1405	$	JM	X			40.7 - 45.0
AA4-EB13-$5	07	1405	$	JM		X		40.7 - 45.0

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	07 APR 94 1930	C. Kirkland	Robert Miller	M. Miles	4/8/94 1235
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
M. Miles	4/8/94 3P				
Relinquished By:	Date/Time	Received By:	Lab Comments:		Temp:
		C. [illegible] 8/4/94 8:20 AM			4°C

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference:

Project: Baltimore Harbor
Client: USACE – Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT/10 S. Howard
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date APR 94	Time	Sample Matrix	Sampler's Initials	TKN/TOT PHOS/PH OCG/SVOA/PEST	PCB/METALS	TKN/TOT PHOS/PH OCG/SVOA/PEST PCB/METALS	ELUTRIATE	CLIENT COMMENTS
Turnaround Time									
# of Container					1	1	1		
Container Type					16 oz	8 oz	½ gal		
Preservative Used					—	—	—		
AA4-EB14-$3	07	1415	W	JM			X		
AA4-EB14-$6	07	1415	W	JM			X		
AA4-EB14-$1	07	1425	$	JM	X				38.8 – 45.0
AA4-EB14-$2	07	1425	$	JM		X			38.8 – 45.0
AA4-EB14-$4	07	1425	$	JM	X				38.8 – 45.0
AA4-EB14-$5	07	1425	$	JM		X			38.8 – 45.0
AA4-EB15-$3	07	1440	W	JM			X		
AA4-EB15-$6	07	1440	W	JM			X		
AA4-EB15-$1	07	1450	$	JM	X				35.0 – 45.0
AA4-EB15-$2	07	1450	$	JM		X			35.0 – 45.0
AA4-EB15-$4	07	1450	$	JM	X				35.0 – 45.0
AA4-EB15-$5	07	1450	$	JM		X			35.0 – 45.0

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	07 APR 94 1930	C. Kirkland	Robert Miller	M. Miles	4/8/94 1230
Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:
M. Miles	4/8/94 30				
Relinquished By:	Date/Time	Received By:	Comments:		
		[signature] 4/8/94 8:00 AM			

T: JC

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference:

Project: BALTIMORE HARBOR
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT/10 S. Howard
BALTIMORE, MD 21201
Phone: (410) 962-6744

Sample ID#	Date APR94	Time	Sample Matrix	Sampler's Initials	TKN/TOT PHOS/PH/ O&G/SVOA/PCBT/ PCB/METALS	TKN/TOT PHOS/PH/ O&G/SVOA/PCBT/ PCB/METALS	% Moisture	CLIENT COMMENTS
AA4-EB16-$3	07	1515	W	JM			X	
AA4-EB16-$6	07	1515	W	JM			X	
AA4-EB16-$1	07	1530	$	JM	X			31.9 - 45.0
AA4-EB16-$2	07	1530	$	JM		X		31.9 - 45.0
AA4-EB16-$4	07	1530	$	JM	X			31.9 - 45.0
AA4-EB16-$5	07	1530	$	JM		X		31.9 - 45.0
		LAST			ITEM			

Turnaround Time			
# of Container	1	1	1
Container Type	16oz	8oz	1/2 gal
Preservative Used	—	—	—

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	07 APR 94 1930	C. Kirkland	Robert Miller	M. Miller 4/9/94	4/9/94 1235
Relinquished By: M. Miller	Date/Time 4/8/94 3p	Received By:	Date/Time	Shipper:	Airbill No.:
Relinquished By:	Date/Time	Received By: C. Kirkland 4/9/94 8:30 Am	Lab Comments:		Temp: 5.1c

GT ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No. 9404072

Client Name Bott. Coo

Date Received 4/08/94

Time Received 12:35P

Received By M. Miller

Carrier Name M. Miller

Prepared (Logged In) By CL / 4/11/94 (Initials / Date)

Project

Site

VOA Holding Blank I.D. No.

	YES	NO
Airbill/Manifest Present? No.	—	X
Shipping Container in Good Condition?	X	—
Custody Seals Present on Shipping Container? Condition: Good ____ Broken ____	—	X
Chain-of-Custody Present?	X	—
Chain-of-Custody Agrees with Sample Labels?	X	—
Chain-of-Custody Signed?	X	—
Packing Present in Shipping Container? Type of Packing Foam/Bags	X	—
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____	—	X
Total Number of Sample Bottles 21		
Total Number of Samples 3		
Samples Intact?	X	—
Sufficient Sample Volume for Indicated Test?	X	—

	YES	NO
Trip Blanks Received? No. of Sets	—	X
VOA Vials Have Zero Headspace?	—	X
Preservatives Added to Sample?	—	X
pH Check Required? Performed By?	—	X
Ice Present in Shipping Container?	—	X

Container#	Temperature
Fridge	4°C

Project Manager Contacted?
Name: Fred
Date Contacted: 4/11/94

Any NO response must be detailed in the comments section below. If items are not applicable to particular samples or contrac they should be marked N/A.

COMMENTS:

Checklist Completed by CL

Date 4/11/94

14.074

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Apr 94 Date	Time	Sample Matrix	Sampler's Initials	TCL SVOC/PEST/PCB TPH METALS/TKN TOT PHOS	pH/TOC/ORG	TCL SVOC/PEST/PCB TPH METALS/TKN TOT PHOS	pH/TOC/ORG	ELUTRIATE	CLIENT COMMENTS
Turnaround Time										
# of Container					1		1		1	
Container Type					16 oz		8 oz		½ gal	
Preservative Used					—		—		—	
~~TC5-EB17-S1~~	~~Φ8~~	NO SAMPLE COLLECTED								
~~TC5-EB17-S2~~	~~Φ8~~	NO SAMPLE COLLECTED								
TC5-EB17-S3	Φ8	Φ75Φ	W	JM			X			
TC5-EB18-S1	Φ8	Φ83Φ	$	JM	X					33.72 - 45.Φ
TC5-EB18-S2	Φ8	Φ83Φ	$	JM		X				33.72 - 45.Φ
TC5-EB18-S3	Φ8	Φ815	W	JM			X			
TC5-EB19-S1	Φ8	Φ85Φ	$	JM	X					37.45 - 45.Φ
TC5-EB19-S2	Φ8	Φ85Φ	$	JM		X				37.45 - 45.Φ
TC5-EB19-S3	Φ8	Φ845	W	JM			X			
TC5-EB20-S1	Φ8	Φ935	$	JM	X					39.4 - 45.Φ
TC5-EB20-S2	Φ8	Φ935	$	JM		X				39.4 - 45.Φ
TC5-EB20-S3	Φ8	Φ925	W	JM			X			

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	Φ9 Apr 94 1140			[signature]	4/9/94 11:40am

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:
		[signature] 4/11/94 8:14	COOLER TEMP. 5°C

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	APR 94 Date	Time	Sample Matrix	Sampler's Initials	TCL SVOC/PEST/PCB TAL METALS/TCN/TOT PHOS pH/TOC/O&G	TCL SVOC/PEST/PCB TAL METALS/TCN/TOT PHOS pH/TOC/O&G	ELUTRIATE	CLIENT COMMENTS
Turnaround Time								
# of Container					1	1	1	
Container Type					16 oz	8 oz	½ gal	
Preservative Used					—	—	—	
TC6-EB21-S1	Ø8	1Ø25	$	JM	X			42.9 – 45.Ø
TC6-EB21-S2	Ø8	1Ø25	$	JM		X		42.9 – 45.Ø
TC6-EB21-S3	Ø8	1Ø15	W	JM			X	
TC6-EB22-S1	Ø8	1Ø5Ø	$	JM	X			35.1 – 45.Ø
TC6-EB22-S2	Ø8	1Ø5Ø	$	JM		X		35.1 – 45.Ø
TC6-EB22-S3	Ø8	1Ø4Ø	W	JM			X	
TC6-EB23-S1	Ø8	111Ø	$	JM	X			35.3 – 45.Ø
TC6-EB23-S2	Ø8	111Ø	$	JM		X		35.3 – 45.Ø
TC6-EB23-S3	Ø8	11ØØ	W	JM			X	
TC6-EB24-S1	Ø8	123Ø	$	JM	X			4Ø.Ø – 45.Ø
TC6-EB24-S2	Ø8	123Ø	$	JM		X		4Ø.Ø – 45.Ø
TC6-EB24-S3	Ø8	1215	W	JM			X	

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	Ø9 APR 94 1145			[signature]	4/9/94 11:40am
Relinquished By:	Date/Time	Received By:	Date/Time / Shipper:	Airbill No.:	
Relinquished By:	Date/Time	Received By: 4/11/94 8:AM [signature]	Lab Comments:		

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date (APR 94)	Time	Sample Matrix	Sampler's Initials	TCL SVOC/PEST/PCB TAL METALS/TKN/TOT PHOS pH/TOC O&G	TCL SVOC/PEST/PCB TAL METALS/TKN/TOT PHOS pH/TOC O&G	ELUTRIATE	O&G (9071)	TOC (9060)	TKN (351.2) TOT PHOS (365.2)	METALS (6010)+ RCRA + CN, F, Cl, Zn, Ni	PEST/PCB (8080)			CLIENT COMMENTS
Turnaround Time															
# of Container					1	1	1	3	3	1	1	3			
Container Type					16 oz	8 oz	½ gal	1 l. gl	1 l gl	1 l. pl	1 l pl	1 l gl			
Preservative Used					—	—	—	H_2SO_4	H_2SO_4	H_2SO_4	HNO_3	—			
TC6-EB25-S1	08	1320	S	JM	X										22.4 - 41.4
TC6-EB25-S2	08	1320	S	JM		X									22.4 - 41.4
TC6-EB25-S3	08	1310	W	JM			X								
TC6-EB26-S1	08	1345	S	JM	X										21.6 - 40.6
TC6-EB26-S2	08	1345	S	JM		X									21.6 - 40.6
TC6-EB26-S3	08	1335	W	JM			X								
TC6-EB23-S7	08	1115	LIQUID MUD	JM	X										≈ 35.3 PETROLEUM CONTENT
TC6-EB24-S4	08	1200	W	JM				X							RINSATE
TC6-EB24-S5	08	1200	W	JM					X						RINSATE
TC6-EB24-S6	08	1200	W	JM						X					RINSATE
TC6-EB24-S7	08	1200	W	JM							X				RINSATE
TC6-EB24-S8	08	1200	W	JM								X			RINSATE

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	09 APR 94 / 1440			[signature]	4/9/94 11:40am

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
		[signature] 4/9/94		6°C

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference

Project: Baltimore Harbor
Client: USACE-Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT / 10 S. Howard St.
Baltimore, MD 21201
Phone: (410) 962-6744

Sample ID#	Date (MAR 94)	Time	Sample Matrix	Sampler's Initials	TCL SVOC/PCB/PEST TAL METALS/TCL OCB pH/TOC	TCL SVOC/PEST/PCB TAL METALS/Inland Water pH/TOC OCB	ULTRA ATE	CLIENT COMMENTS
Turnaround Time								
# of Container					1	1	1	
Container Type					16 oz	8 oz	1/2 gal	
Preservative Used					—	—	—	
CC7--EB27-S1	Φ8	1445	$	JM	X			29.5 - 45.Φ
CC7--EB27-S2	Φ8	1445	$	JM		X		29.5 - 45.Φ
CC7--EB27-S3	Φ8	1435	W	JM			X	
CC7--EB28-S1	Φ8	151Φ	$	JM	X			3Φ.1 - 45.Φ
CC7--EB28-S2	Φ8	151Φ	$	JM		X		3Φ.1 - 45.Φ
CC7--EB28-S3	Φ8	15ΦΦ	W	JM			X	
CC7--EB29-S1	Φ8	1535	$	JM	X			45.Φ - 45.2
CC7--EB29-S2	Φ8	1535	$	JM		X		45.Φ - 45.2
CC7--EB29-S3	Φ8	152Φ	W	JM			X	
CC7--EB30-S1	Φ8	155Φ	$	JM	X			42.9 - 45.Φ
CC7--EB30-S2	Φ8	155Φ	$	JM		X		42.9 - 45.Φ
CC7--EB30-S3	Φ8	154Φ	W	JM			X	

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
	Φ9 MAR 94 1140				4/9/94 11:40
Relinquished By:	**Date/Time**	**Received By:**	**Date/Time**	**Shipper:**	**Airbill No.:**
Relinquished By:	**Date/Time**	**Received By:**	**Lab Comments:**		**Temp**
		4/11/94 9AM			°C

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference

Project: BALTIMORE Harbor
Client USACE- Baltimore District
Send Results To: Robert Miller
Address: CENAB-EN-HT/10 S. Howard
Baltimore MD 21201
Phone: (410) 962-6744

Sample ID#	APR94 Date	Time	Sample Matrix	Sampler's Initials	Turnaround Time											CLIENT COMMENTS
					# of Container	3										
					Container Type	4L 9L										
					Preservative Used	—										
					Type of Analysis	SVOA (8270)										
TC6-EB24-$9	Ø8	12ØØ	W	JM		X										RINSATE
	LAST		ITEM													

041

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
	Ø9 APR 94 1145				4/9/94 11:40am

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
		4/9/94		20C

GT ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No. 94-04-074

Client Name BALT-CORE

Date Received 4/09/94

Time Received 11:40A.

Received By A. FRIED

Carrier Name CLIENT

Prepared (Logged In) By CL / 4/11/94 (Initials / Date)

Project

Site

VOA Holding Blank I.D. No.

	YES	NO
Airbill/Manifest Present? No.	—	X
Shipping Container in Good Condition?	X	—
Custody Seals Present on Shipping Container? Condition: Good ____ Broken ____	—	X
Chain-of-Custody Present?	X	—
Chain-of-Custody Agrees with Sample Labels?	X	—
Chain-of-Custody Signed?	X	—
Packing Present in Shipping Container? Type of Packing BAGS	X	—
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____	—	X
Total Number of Sample Bottles 21		
Total Number of Samples 3		
Samples Intact?	X	—
Sufficient Sample Volume for Indicated Test?	X	—

	YES	NO
Trip Blanks Received? No. of Sets ____	—	X
VOA Vials Have Zero Headspace?	—	X
Preservatives Added to Sample?	—	X
pH Check Required? Performed By? ____	—	X
Ice Present in Shipping Container?	—	X

Container#	Temperature
FRIG	4°C

Project Manager Contacted?
Name: FRIED.
Date Contacted: 4/11/94

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 CL

Date 4/11/94

04-075

P ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference

1 of 1 Pgs.

Project: BALT HARBOR
Client: COE - BALT
Send Results To: Bob Miller
Address: CENAB-EN-HT / 10 S. Howard
Baltimore MD 21201
Phone: (410) 962-6744

Sample ID#	Date APR 94	Time	Sample Matrix	Sampler's Initials	VOC	RCRA METALS Cu, Fe, Zn, Ni	TKN (351.2)	TOT PHOS (365.2)	SVOA (625)	PEST/PCB (608)	O&G (413.1)	TOC (415.1)				CLIENT COMMENTS
Turnaround Time																
# of Container					B	1	1	4	4	3	3					
Container Type					40ml	1l	1l	1l	1l	1l	500ml					
Preservative Used					HCl	HNO_3	H_2SO_4	–	–	H_2SO_4	H_2SO_4					
BH-SW01	11	1200	W	JM	X	X	X	X	X	X	X					
BH-SW01-TB	11	1200	W	JM	X											TRIP BLANK
		LA	ST		ITEM											

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
[signature]	11 APR 94 / 1230	M. Miller 1230	M. Miller 4/11/94 4:45	C. [signature]	4/12/94 8:AM
Relinquished By:	Date/Time	Received By:	Date/Time / Shipper:	Airbill No.:	
Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp: 3 °C	

0433

GJ ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No. 94-04-075

Client Name BATT-COE

Date Received 4/8/94

Time Received 12:30 PM

Received By M. M. [illegible]

Carrier Name Hand

Prepared (Logged In) By CL 4/12/94 (Initials / Date)

Project

Site

VOA Holding Blank I.D. No.

	YES	NO
Airbill/Manifest Present? No. —	—	X
Shipping Container in Good Condition?	X	—
Custody Seals Present on Shipping Container? Condition: Good X Broken	X	X CL
Chain-of-Custody Present?	X	—
Chain-of-Custody Agrees with Sample Labels?	X	—
Chain-of-Custody Signed?	X	—
Packing Present in Shipping Container? Type of Packing BUBBLE WRAP	X	—
Custody Seals on Sample Bottles? Condition: Good ___ Broken ___	—	X
Total Number of Sample Bottles 22		
Total Number of Samples 2		
Samples Intact?	X	—
Sufficient Sample Volume for Indicated Test?	X	—

	YES	NO
Trip Blanks Received? No. of Sets 3 VIALS	X	—
VOA Vials Have Zero Headspace?	X	—
Preservatives Added to Sample?	X	—
pH Check Required? Performed By? LABS	X	—
Ice Present in Shipping Container?	X	—

Container#	Temperature
1	3°C
1	4°C

Project Manager Contacted?
Name: FRED.
Date Contacted: 4/12/94

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: CL

Date 4/12/94

044

GP Work Order # 9404173

SAMPLE ANALYSIS REPORT

Prepared For:

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201

BALTIMORE HARBOR

Prepared By:

GP Environmental Services, Inc.
202 Perry Parkway
Gaithersburg, Maryland 20877

June 09, 1994

Albert Ellis, Laboratory Director

for

GP ENVIRONMENTAL SERVICES
ANALYTICAL RESULTS

Project: BALTIMORE HARBOR

CENAB, Engin. Div. ATTN: HTRW
10 S. Howard Street
Baltimore, MD 21201
Atten: /

GP ENVIRONMENTAL SERVICES
202 Perry Parkway
Gaithersburg, MD 20877

Atten: Client Services
Phone: (301) 926-6802

Certified by:

SAMPLE IDENTIFICATION

GP ID	Client ID
9404173-01A	TC5-C01
9404173-01B	
9404173-01C	
9404173-01D	
9404173-01E	
9404173-01F	
9404173-01G	
9404173-02A	CC7-C01
9404173-02B	
9404173-02C	
9404173-02D	
9404173-02E	
9404173-02F	
9404173-02G	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404173-01D
Client ID: TC5-C01
Collected: 04/20/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 05/13/94
Prepared: 05/12/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	20.0	
1,2-Dichlorobenzene	BQL	20.0	
1,3-Dichlorobenzene	BQL	20.0	
1,4-Dichlorobenzene	BQL	20.0	
2,4,6-Trichlorophenol	BQL	20.0	
2,4-Dichlorophenol	BQL	20.0	
2,4-Dimethylphenol	BQL	20.0	
2,4-Dinitrophenol	BQL	100.0	
2,4-Dinitrotoluene	BQL	20.0	
2,6-Dinitrotoluene	BQL	20.0	
2-Chloronaphthalene	BQL	20.0	
2-Chlorophenol	BQL	20.0	
2-Nitrophenol	BQL	20.0	
3,3'-Dichlorobenzidine	BQL	40.0	
4,6-Dinitro-2-methylphenol	BQL	100.0	
4-Bromophenyl-phenylether	BQL	20.0	
4-Chloro-3-methylphenol	BQL	20.0	
4-Chlorophenyl phenyl ether	BQL	20.0	
4-Nitrophenol	BQL	100.0	
Acenaphthene	BQL	20.0	
Acenaphthylene	BQL	20.0	
Anthracene	BQL	20.0	
Benzidine	BQL	20.0	
Benzo(a)anthracene	BQL	20.0	
Benzo(a)pyrene	BQL	20.0	
Benzo(b)fluoranthene	BQL	20.0	
Benzo(g,h,i)perylene	BQL	20.0	
Benzo(k)fluoranthene	BQL	20.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404173-01D
Client ID: TC5-C01
Collected: 04/20/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 05/13/94
Prepared: 05/12/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
bis(2-Chloroethoxy) methane	BQL	20.0	
bis(2-Chloroethyl) ether	BQL	20.0	
bis(2-Chloroisopropyl) ether	BQL	20.0	
bis(2-Ethylhexyl)phthalate	BQL	20.0	
Butylbenzylphthalate	BQL	20.0	
Chrysene	BQL	20.0	
Di-n-butylphthalate	BQL	20.0	
Di-n-octylphthalate	BQL	20.0	
Dibenz(a,h)anthracene	BQL	20.0	
Diethylphthalate	BQL	20.0	
Dimethylphthalate	BQL	20.0	
Fluoranthene	BQL	20.0	
Fluorene	BQL	20.0	
Hexachlorobenzene	BQL	20.0	
Hexachlorobutadiene	BQL	20.0	
Hexachlorocyclopentadiene	BQL	20.0	
Hexachloroethane	BQL	20.0	
Indeno(1,2,3-cd)pyrene	BQL	20.0	
Isophorone	BQL	20.0	
N-Nitroso-di-n-dipropylamine	BQL	20.0	
N-nitrosodimethylamine	BQL	20.0	
N-nitrosodiphenylamine	BQL	20.0	
Naphthalene	BQL	20.0	
Nitrobenzene	BQL	20.0	
Pentachlorophenol	BQL	100.0	
Phenanthrene	BQL	20.0	
Phenol	BQL	20.0	
Pyrene	BQL	20.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404173-02D
Client ID: CC7-C01
Collected: 04/21/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 05/13/94
Prepared: 05/12/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
1,2,4-Trichlorobenzene	BQL	20.0	
1,2-Dichlorobenzene	BQL	20.0	
1,3-Dichlorobenzene	BQL	20.0	
1,4-Dichlorobenzene	BQL	20.0	
2,4,6-Trichlorophenol	BQL	20.0	
2,4-Dichlorophenol	BQL	20.0	
2,4-Dimethylphenol	BQL	20.0	
2,4-Dinitrophenol	BQL	100.0	
2,4-Dinitrotoluene	BQL	20.0	
2,6-Dinitrotoluene	BQL	20.0	
2-Chloronaphthalene	BQL	20.0	
2-Chlorophenol	BQL	20.0	
2-Nitrophenol	BQL	20.0	
3,3'-Dichlorobenzidine	BQL	40.0	
4,6-Dinitro-2-methylphenol	BQL	100.0	
4-Bromophenyl-phenylether	BQL	20.0	
4-Chloro-3-methylphenol	BQL	20.0	
4-Chlorophenyl phenyl ether	BQL	20.0	
4-Nitrophenol	BQL	100.0	
Acenaphthene	BQL	20.0	
Acenaphthylene	BQL	20.0	
Anthracene	BQL	20.0	
Benzidine	BQL	20.0	
Benzo(a)anthracene	BQL	20.0	
Benzo(a)pyrene	BQL	20.0	
Benzo(b)fluoranthene	BQL	20.0	
Benzo(g,h,i)perylene	BQL	20.0	
Benzo(k)fluoranthene	BQL	20.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404173-02D
Client ID: CC7-C01
Collected: 04/21/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 625
Units: ug/L

Analyst: IM
Analyzed: 05/13/94
Prepared: 05/12/94

SEMIVOLATILE TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
bis(2-Chloroethoxy) methane	BQL	20.0	
bis(2-Chloroethyl) ether	BQL	20.0	
bis(2-Chloroisopropyl) ether	BQL	20.0	
bis(2-Ethylhexyl)phthalate	BQL	20.0	
Butylbenzylphthalate	BQL	20.0	
Chrysene	BQL	20.0	
Di-n-butylphthalate	BQL	20.0	
Di-n-octylphthalate	BQL	20.0	
Dibenz(a,h)anthracene	BQL	20.0	
Diethylphthalate	BQL	20.0	
Dimethylphthalate	BQL	20.0	
Fluoranthene	BQL	20.0	
Fluorene	BQL	20.0	
Hexachlorobenzene	BQL	20.0	
Hexachlorobutadiene	BQL	20.0	
Hexachlorocyclopentadiene	BQL	20.0	
Hexachloroethane	BQL	20.0	
Indeno(1,2,3-cd)pyrene	BQL	20.0	
Isophorone	BQL	20.0	
N-Nitroso-di-n-dipropylamine	BQL	20.0	
N-nitrosodimethylamine	BQL	20.0	
N-nitrosodiphenylamine	BQL	20.0	
Naphthalene	BQL	20.0	
Nitrobenzene	BQL	20.0	
Pentachlorophenol	BQL	100.0	
Phenanthrene	BQL	20.0	
Phenol	BQL	20.0	
Pyrene	BQL	20.0	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404173-01C
Client ID: TC5-C01
Collected: 04/20/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 608
Units: ug/L

Analyst: PH
Analyzed: 05/18/94
Prepared: 05/12/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	0.202	
4,4'-DDE	BQL	0.046	
4,4'-DDT	BQL	0.282	
Aldrin	BQL	0.020	
alpha-BHC	BQL	0.014	
Aroclor 1016	BQL	1.00	
Aroclor 1221	BQL	1.00	
Aroclor 1232	BQL	1.00	
Aroclor 1242	BQL	1.00	
Aroclor 1248	BQL	1.00	
Aroclor 1254	BQL	1.00	
Aroclor 1260	BQL	1.00	
beta-BHC	BQL	0.038	
Chlordane	BQL	0.280	
delta-BHC	BQL	0.010	
Dieldrin	BQL	0.064	
Endosulfan I	BQL	0.066	
Endosulfan II	BQL	0.086	
Endosulfan sulfate	BQL	0.250	
Endrin	BQL	0.060	
Endrin aldehyde	BQL	0.578	
Heptachlor	BQL	0.030	
Heptachlor epoxide	BQL	0.026	
Lindane (gamma-BHC)	BQL	0.020	
Toxaphene	BQL	2.00	

GP ENVIRONMENTAL SERVICES
ORGANIC ANALYSIS RESULTS

GP ID: 9404173-02C
Client ID: CC7-C01
Collected: 04/21/94
Dilution: 1

Matrix: WATER
Method: 40CFR136 608
Units: ug/L

Analyst: PH
Analyzed: 05/18/94
Prepared: 05/12/94

GC TARGET COMPOUNDS

Parameter	Result	Det.Lim.	Qualifier
4,4'-DDD	BQL	0.202	
4,4'-DDE	BQL	0.046	
4,4'-DDT	BQL	0.282	
Aldrin	BQL	0.020	
alpha-BHC	BQL	0.014	
Aroclor 1016	BQL	1.00	
Aroclor 1221	BQL	1.00	
Aroclor 1232	BQL	1.00	
Aroclor 1242	BQL	1.00	
Aroclor 1248	BQL	1.00	
Aroclor 1254	BQL	1.00	
Aroclor 1260	BQL	1.00	
beta-BHC	BQL	0.038	
Chlordane	BQL	0.280	
delta-BHC	BQL	0.010	
Dieldrin	BQL	0.064	
Endosulfan I	BQL	0.066	
Endosulfan II	BQL	0.086	
Endosulfan sulfate	BQL	0.250	
Endrin	BQL	0.060	
Endrin aldehyde	BQL	0.578	
Heptachlor	BQL	0.030	
Heptachlor epoxide	BQL	0.026	
Lindane (gamma-BHC)	BQL	0.020	
Toxaphene	BQL	2.00	

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404173-01
Client ID: TC5-C01

Matrix: WATER
Collected: 04/20/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
TCLP Silver	SW846 6010	BQL	34.8	ug/L	1	05/02/94	05/09/94	MB
TCLP Arsenic	SW846 6010	BQL	93.0	ug/L	1	05/02/94	05/09/94	MB
TCLP Barium	SW846 6010	450.0	110.0	ug/L	1	05/02/94	05/09/94	MB
TCLP Cadmium	SW846 6010	BQL	23.6	ug/L	1	05/02/94	05/09/94	MB
TCLP Chromium	SW846 6010	BQL	20.4	ug/L	1	05/02/94	05/09/94	MB
TCLP Mercury	SW846 7470	BQL	0.100	ug/L	1	05/09/94	05/09/94	MGP
TCLP Lead	SW846 6010	BQL	139.0	ug/L	1	05/02/94	05/09/94	MB
TCLP Selenium	SW846 6010	BQL	165.0	ug/L	1	05/02/94	05/09/94	MB
Arsenic	MCAWW 206.2	27.5	2.10	ug/L	1	05/05/94	05/06/94	RA
Lead	MCAWW 239.2	BQL	0.600	ug/L	1	05/05/94	05/06/94	RA
Mercury	MCAWW 245.1	BQL	0.100	ug/L	1	04/29/94	04/29/94	DH
Selenium	MCAWW 270.2	BQL	1.50	ug/L	1	05/05/94	05/06/94	FU
Silver	MCAWW 272.2	BQL	0.500	ug/L	1	05/05/94	05/06/94	FU
Barium	MCAWW 200.7	20.1	12.4	ug/L	1	05/05/94	05/06/94	MB
Cadmium	MCAWW 200.7	BQL	3.19	ug/L	1	05/05/94	05/06/94	MB
Chromium	MCAWW 200.7	BQL	8.31	ug/L	1	05/05/94	05/06/94	MB
Copper	MCAWW 200.7	BQL	16.3	ug/L	1	05/05/94	05/06/94	MB
Iron	MCAWW 200.7	BQL	54.9	ug/L	1	05/05/94	05/06/94	MB
Nickel	MCAWW 200.7	BQL	28.8	ug/L	1	05/05/94	05/06/94	MB
Zinc	MCAWW 200.7	22.5	10.6	ug/L	1	05/05/94	05/06/94	MB

GP ENVIRONMENTAL SERVICES
METALS ANALYSIS RESULTS

GP ID: 9404173-02
Client ID: CC7-C01

Matrix: WATER
Collected: 04/21/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed	By
TCLP Silver	SW846 6010	BQL	34.8	ug/L	1	05/02/94	05/09/94	MB
TCLP Arsenic	SW846 6010	BQL	93.0	ug/L	1	05/02/94	05/09/94	MB
TCLP Barium	SW846 6010	458.0	110.0	ug/L	1	05/02/94	05/09/94	MB
TCLP Cadmium	SW846 6010	BQL	23.6	ug/L	1	05/02/94	05/09/94	MB
TCLP Chromium	SW846 6010	28.2	20.4	ug/L	1	05/02/94	05/09/94	MB
TCLP Mercury	SW846 7470	BQL	0.100	ug/L	1	05/09/94	05/09/94	MGP
TCLP Lead	SW846 6010	BQL	139.0	ug/L	1	05/02/94	05/09/94	MB
TCLP Selenium	SW846 6010	BQL	165.0	ug/L	1	05/02/94	05/09/94	MB
Arsenic	MCAWW 206.2	11.8	2.10	ug/L	1	05/05/94	05/06/94	RA
Lead	MCAWW 239.2	BQL	0.600	ug/L	1	05/05/94	05/06/94	RA
Mercury	MCAWW 245.1	BQL	0.100	ug/L	1	04/29/94	04/29/94	DH
Selenium	MCAWW 270.2	BQL	1.50	ug/L	1	05/05/94	05/06/94	FU
Silver	MCAWW 272.2	BQL	0.500	ug/L	1	05/05/94	05/06/94	FU
Barium	MCAWW 200.7	26.3	12.4	ug/L	1	05/05/94	05/06/94	MB
Cadmium	MCAWW 200.7	BQL	3.19	ug/L	1	05/05/94	05/06/94	MB
Chromium	MCAWW 200.7	9.28	8.31	ug/L	1	05/05/94	05/06/94	MB
Copper	MCAWW 200.7	BQL	16.3	ug/L	1	05/05/94	05/06/94	MB
Iron	MCAWW 200.7	88.9	54.9	ug/L	1	05/05/94	05/06/94	MB
Nickel	MCAWW 200.7	BQL	28.8	ug/L	1	05/05/94	05/06/94	MB
Zinc	MCAWW 200.7	16.8	10.6	ug/L	1	05/05/94	05/06/94	MB

GP ENVIRONMENTAL SERVICES
WET CHEMISTRY ANALYSIS RESULTS

GP ID: 9404173-01
Client ID: TC5-C01

Matrix: WATER
Collected: 04/20/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	BQL	5.00	mg/L			05/13/94 CM
Total Organic Carbon	MCAWW 415.1	93.0	1.00	mg/L	1		05/10/94 VHM
Phosphorus, Total	MCAWW 365.2	1.38	0.020	mg/L	1		05/06/94 VM
Total Kjeldahl Nitrogen	MCAWW 351.3	16.7	0.100	mg/L	1		05/05/94 JS

GP ID: 9404173-02
Client ID: CC7-C01

Matrix: WATER
Collected: 04/21/94

Parameter	Method	Result	Det.Lim.	Units	Dil.	Prepared	Analyzed By
Oil and Grease, Gravimetric	MCAWW 413.1	BQL	5.00	mg/L			05/13/94 CM
Total Organic Carbon	MCAWW 415.1	24.7	1.00	mg/L	1		05/10/94 VHM
Phosphorus, Total	MCAWW 365.2	0.132	0.010	mg/L	1		05/06/94 VM
Total Kjeldahl Nitrogen	MCAWW 351.3	25.9	0.100	mg/L	1		05/05/94 JS

GP ENVIRONMENTAL SERVICES

Possible notes and definitions for this report:

BQL = Below Quantitation Limit

J = An estimated value, below method detection limit

B = Indicates that the compound was found in the associated blank

E = Indicates that the concentration exceeded the calibration range of the instrument

U = Indicates that the compound was analyzed for but not detected, number indicates the detection limit

D = Indicates that the compound was found in a analysis at a secondary dilution factor

* = Value obtained from a 1:5 dilution

+ = Value obtained from a 1:10 dilution

= Value obtained from a 1:20 dilution

^ = Value obtained from a 1:50 dilution

~ = Value obtained from a 1:100 dilution

! = Value obtained from a 1:250 dilution

@ = Value obtained from a 1:125 dilution (Medium Level)

$ = Value obtained from a 1:1000 dilution

& = Value obtained from a 1:10000 dilution

N = Flashpoint not observed; heated to specified limit

R = Flammable at room temperature

TNTC = Too numerous to count

B.P. = Detection limit taken from boiling point

F.F. = Sample gave off flammable fumes

04-173

GP ENVIRONMENTAL SERVICES, INC.

202 Perry Parkway
Gaithersburg, Maryland 20877
(301) 926-6802

Contract #/Billing Reference: _____

1 of 1 Pgs.

Project: BALTIMORE HARBOR
Client: COE
Send Results To: Bob Miller
Address: CENAB-EN-HT
PO BOX 1715
BALTIMORE MD 21203
Phone: (410) 962-6744

Sample ID#	Date APR 94	Time	Sample Matrix	Sampler's Initials	See list A, below	ELUTRIATE	VOLATILES EPA 8260	TRIP BLANK							CLIENT COMMENTS
Turnaround Time															
# of Container					SEE BELOW										
Container Type					16 oz	½ gal	4 oz	40 ml							
Preservative Used					—	—	—	HCl							
TC5-EB17	20	1015	S/W	JM	3	1									29.7 - 45.0
TC5-EB18	20	1130	S/W	JM	2	1									34.6 - 44.6
TC5-EB19	20	1345	S/W	JM	1	1									40.0 - 45.0
TC5-EB20	20	1515	S/W	JM	4	1									28.5 - 45.0
CC7-EB27	21	0730	S/W	RM	2	1	2	2							29.9 - 45.0
CC7-EB28	21	0830	S/W	RM	3	1									30.0 - 45.0
CC7-EB29	21	0900	S/W	RM	4	1	2								32.1 - 45.0
CC7-EB30	21	0930	S/W	RM	3	1									35.8 - 45.0

Relinquished By:	Date/Time	Received By:	Relinquished By:	Received for Laboratory By:	Date/Time
Moore / Robert Miller	21 Apr 94 / 610	M. Miles 1570	4/21/94 M. Miles	[illegible]	4/22/94 9:00 am

Relinquished By:	Date/Time	Received By:	Date/Time	Shipper:	Airbill No.:

Relinquished By:	Date/Time	Received By:	Lab Comments:	Temp:
			LIST A: TKN/TOT PHOS/pH/O&G/SVOA/PEST/PCB/METALS	°C °C

GP ENVIRONMENTAL SERVICES

SAMPLE RECEIPT CHECKLIST

W.O. No. 9464-173

Client Name BAEC - COE

Date Received 4/21/94

Time Received 3:10 P.M.

Received By M. MILES

Carrier Name M. MILES

Prepared (Logged In) By CL / 4/22/94 (Initials / Date)

Project

Site

VOA Holding Blank I.D. No.

	YES	NO
Airbill/Manifest Present? No.	—	X
Shipping Container in Good Condition?	X	—
Custody Seals Present on Shipping Container? Condition: Good X Broken	X	—
Chain-of-Custody Present?	X	—
Chain-of-Custody Agrees with Sample Labels?	X	—
Chain-of-Custody Signed?	X	—
Packing Present in Shipping Container? Type of Packing ICE	X	—
Custody Seals on Sample Bottles? Condition: Good ____ Broken ____	—	X
Total Number of Sample Bottles 14		
Total Number of Samples 2		
Samples Intact?	X	—
Sufficient Sample Volume for Indicated Test?	X	—

	YES	NO
Trip Blanks Received? No. of Sets	—	X
VOA Vials Have Zero Headspace?	—	X
Preservatives Added to Sample?	—	X
pH Check Required? Performed By?	—	X
Ice Present in Shipping Container?	X	—

Container#	Temperature
FRIG	4°C

Project Manager Contacted?
Name: FRIG
Date Contacted: 4/22/94

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: D. Hull to make these samples from Electricite.

Checklist Completed by CL

Date 4/22/94