



SPRING VALLEY FORMERLY USED DEFENSE SITE PROJECT
RAB Meeting

March 12, 2019
7:00 – 8:30 p.m.

UNDERCROFT MEETING ROOM
ST. DAVID'S EPISCOPAL CHURCH
5150 MACOMB ST. NW, WASHINGTON, DC

Agenda

- 7:00 p.m. I. Administrative Items**
Co-Chair Updates
 ▪ Introductions, Announcements
Task Group Updates
 ▪ TAPP Contractor
 ▪ RAB Membership
- 7:15 p.m. II. USACE Program Updates**
Groundwater Study
Site-Wide Remedial Action
 ▪ Discussion of Community Mailers
Glenbrook Road
- 8:05 p.m. III. Community Items**
- 8:10 p.m. IV. Open Discussion & Future RAB Agenda Development**
Upcoming Meeting Topics:
 ▪ (Suggestions?)

*Next meeting: May 14, 2019
- 8:20 p.m. V. Public Comments**
- 8:30 p.m. VI. Adjourn**

**Note: The RAB meets every odd month.*

SPRING VALLEY FORMERLY USED DEFENSE SITE

Restoration Advisory Board Meeting 12 March 2019

“The USACE Mission in Spring Valley is to identify, investigate and remove or remediate threats to human health, safety or to the environment resulting from past Department of Defense activities in the area.”

“The views, opinions and findings contained in this report are those of the authors(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation.”



AGENDA REVIEW

Co-Chair Updates

- Introduction, Announcements

Task Group Updates

- TAPP Contractor
- RAB Membership – Horace Mann Rep

USACE Updates

- Groundwater Study
- Site-Wide Remedial Action
 - Discussion of Community Mailers
- Glenbrook Road

Community Items

Open Discussion & Future RAB Agenda Development

Public Comments



CO-CHAIR UPDATES

Introductions



CO-CHAIR UPDATES

Announcements

Website Updates:

- January RAB meeting minutes
- January and February Monthly Site-Wide Project Updates
- Weekly 4825 Glenbrook Rd Project Updates with photos
- Updated RAB member roster
- December Partner meeting minutes
- Tenley Friendship Library added a link to our website to support the IR change:
<https://www.dclibrary.org/nod/e/62148>

Spring Valley FUDS March 2019 RAB Meeting

The screenshot shows the US Army Corps of Engineers website for the Spring Valley site. The navigation bar includes links for About, Business With Us, Missions, Locations, Careers, Media, and Contact, along with a search bar. The main content area features an 'Announcements' section with a heading for the 'Next Restoration Advisory Board Meeting - March 12, 2019'. The text states that the meeting is on Tuesday, March 12 at 7 pm, and is open to the public. It also includes a note about the church staff's request to refrain from using outside stairwells. Below this is a section for the 'Final Site-Wide Decision Document Now Available', which is complete and available for download. A link is provided to visit the Site-Wide section of the Spring Valley page. To the right of the announcements is a photo gallery with a 'Site-Wide' button. Below the announcements is a 'Spring Valley Overview' section with a paragraph describing the site's history and current use. To the right of the overview is a 'Project Efforts' section with links for Project Update, 4825 Glenbrook Road, Site-Wide, Groundwater, and Community Participation. Below this is a 'Partners' section with a link to History. To the right of the overview and project efforts is a 'Project Documents' section with a link to Project Documents. Below this is an 'Associated Organizations' section with links to the Agency for Toxic Substances and Disease Registry, American University, District Department of the Environment, and U.S. Environmental Protection Agency. At the bottom right is the US Army Corps of Engineers logo.

US Army Corps of Engineers Baltimore District

Home / Spring Valley

Announcements

Next Restoration Advisory Board Meeting - March 12, 2019

The next RAB meeting is scheduled to be held on **Tuesday, March 12 at 7 pm**. These meetings are open to the public. Currently, the RAB meets every other month for 60-90 minutes in the 'Undercroft' meeting room at St. David's Episcopal Church, 5150 Macomb Street NW, D.C.

(Please note - The St. David's Episcopal Church staff have asked that we refrain from using the outside stairwells as a safety precaution due to water issues, poor lighting, and lack of stairs with grips; and use the bell tower entrance (which has internal stairs and an elevator). There will be signs clearly posted to direct RAB meeting attendees to the new entrance. We thank you in advance for following the request of our hosts, the St. David's Episcopal Church.)

Final Site-Wide Decision Document Now Available:

The Final Site-Wide Decision Document is complete and is now available at the Information Repository and for download here on our site. The Decision Document outlines the selected remedies to address both unacceptable risks posed by soil contamination and unacceptable explosive hazards posed by the possible presence of munitions and explosives of concern (MEC).

[Click here to visit the Site-Wide section of the Spring Valley page where the Final Site-Wide Decision Document can be downloaded](#)

Spring Valley Overview

The Spring Valley Formerly Used Defense Site (FUDS) consists of approximately 660 acres in the northwest section of Washington, D.C. During the World War I-era, the site was known as the American University Experiment Station, and was used by the U.S. government for research and testing of chemical agents, equipment, and munitions. Today, the site encompasses approximately 1,600 private properties, including several embassies and foreign properties, as well as the American University and Wesley Seminary.

Project Efforts

- [Project Update](#)
- [4825 Glenbrook Road](#)
- [Site-Wide](#)
- [Groundwater](#)
- [Community Participation](#)
- [Partners](#)
- [History](#)

Project Documents

These are just a few of the project documents. More key documents can be found in the Information Repository at the Tenley-Friendship Branch Library.

- [Project Documents](#)

Associated Organizations

- [Agency for Toxic Substances and Disease Registry](#)
- [American University](#)
- [District Department of the Environment](#)
- [U.S. Environmental Protection Agency](#)

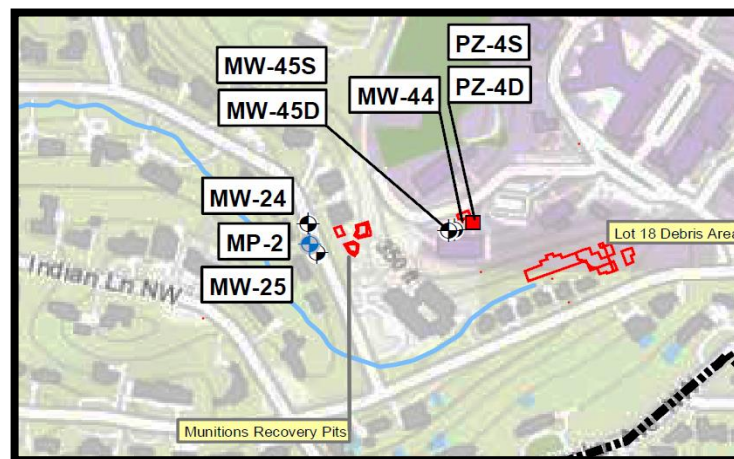
TASK GROUP UPDATES

- New TAPP Contractor
- RAB Membership
 - Marguerite Clarkson (Horace Mann Elementary School)



GROUNDWATER STUDY

USACE Updates



DISPUTE RESOLUTION

As a reminder, after receipt of the Draft Final Proposed Plan, DOEE submitted a request for Dispute Resolution under the DoD/District Memorandum of Agreement (DDMOA). The Dispute Resolution was paused at Tier 2 while the Army Corps and their Partners discuss potentially conducting additional groundwater data collection.

- **Nationwide DoD/EPA Policy Disagreement:**
 - EPA and DOEE position: groundwater must be restored to drinking water standards if groundwater could be used as drinking water source.
 - DoD position: CERCLA is risk based, cleanup decisions should be based on protection of human health and the environment. Prevention of exposure is an acceptable remedy.



SITE-WIDE REMEDIAL ACTION (RA)

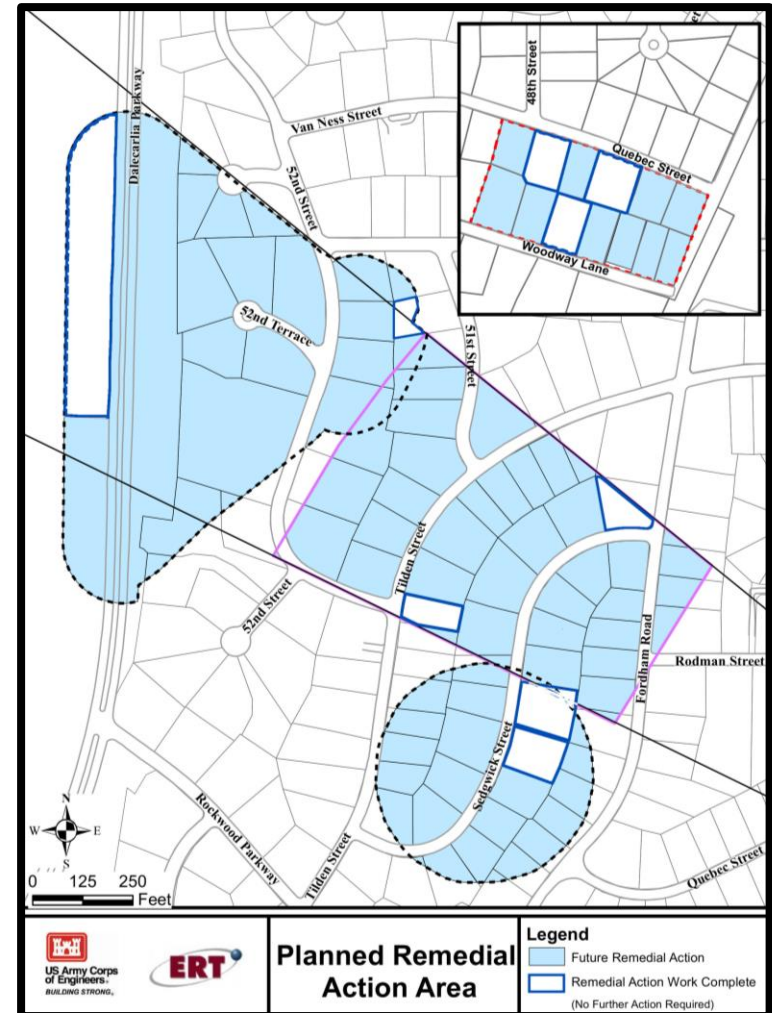
USACE Updates



SITE-WIDE REMEDIAL ACTION

Final survey effort at 92 residential properties and 13 Federal/City Lots:

- Rights-of-Entries received from 33 residential properties.
- 33 civil surveys and 33 arborist surveys have been completed.
- Geophysical clearing walkthroughs completed at 28 properties.
- Vegetation removed from 16 private properties and 7 City/Fed lots.
- Geophysical surveys completed at 9 private properties and 4 City/Fed lots off Dalecarlia Parkway.
- Initial anomaly removal at 5 private properties and 4 City/Fed lots off Dalecarlia Parkway.



SITE-WIDE REMEDIAL ACTION

The team continues to work with homeowners to approve of their landscape removal plans. Once the plans are approved by the homeowners and the Corps, the approved plants are removed.

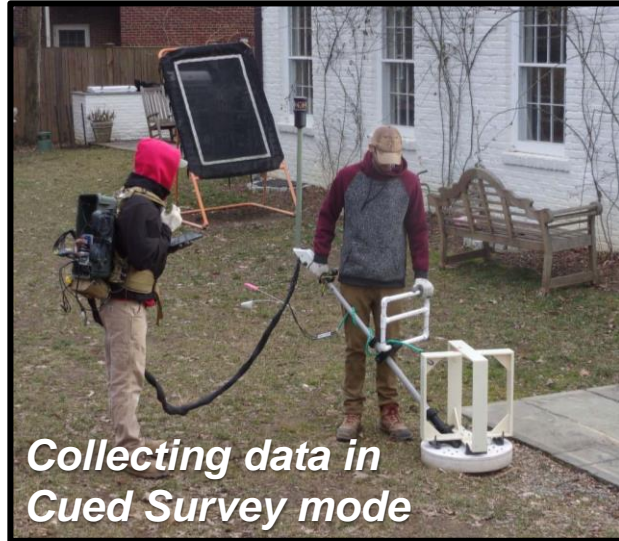


Immediately after plant removal, the team installs the blind seeds, and the geophysical survey begins. The team aims to minimize the amount of time between plant removal and restoration efforts.

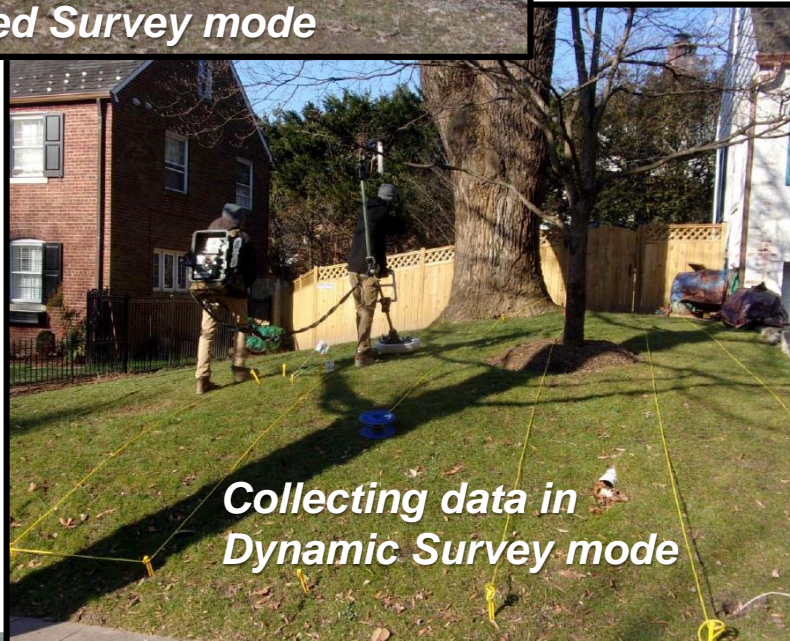


SITE-WIDE REMEDIAL ACTION

Geophysicists conducting surveys with the Man Portable Vector (MPV)



Weston team continued to work through much of the wet winter weather



SITE-WIDE REMEDIAL ACTION

Advanced Geophysical Classification (AGC): G858 Magnetometer

Initial AGC work along Dalecarlia Pkwy demonstrated that **individual metal targets selected from G858 Magnetometer data** alone resulted in either cultural debris or *"nothing found."* A detailed evaluation of target detection with the G858 resulted in unnecessary digs, and that *the MPV was more effective at detecting individual targets.*

A thorough review of past G858 results at SVFUDS confirmed that *the G858 was suitable for detecting potential burial pits* because it can detect metal deeper below the ground surface than the MPV.

These results were presented to the Regulatory Partners and they concurred that G858 data should continue to be used for burial pit detection, but with the MPV will be used for individual target selection to be characterize during the 'cued survey.'



SITE-WIDE REMEDIAL ACTION

Advance Geophysical Classification (AGC)

Process of Making the Anomaly Dig List:

- *Process MPV dynamic survey results.*
- *Process G858 survey results.*
- *Process MPV cued survey results.*
- *Draft the 'Classification Results' (or Dig List) from the cued survey.*
- *Weston Geophysicist reviews Dig List items above, and submits to Army Corps for approval.*
- *Army Corps Geophysicist reviews and approves Dig List items above.*
- *Dig List is submitted to EPA and DOEE, along with a Property-Specific Data Summary Report.*
- *Anomaly digs are performed at the private property or lot.*

Process of Finalizing Anomaly Dig Results:

- *The anomaly dig results are compared to the original Dig List to insure AGC results match the actual items dug from the property. This step creates a 'Dig Sheet.'*
- *The Army Corps Geophysicist reviews the Dig Sheet, and approves.*
- *The approved Dig Sheet is submitted to the Partners (EPA and DOEE) for review and confirmation that munition remediation is complete for that particular property or lot.*

An Army Corps Assurance Letter is provided to property owner.



SITE-WIDE REMEDIAL ACTION

Anomaly Excavations Completed at Five Private Properties



Checking a excavation location with a Schonstedt & Whites metal detector to ensure the metal anomaly was removed

Spring Valley FUDS March 2019 RAB Meeting



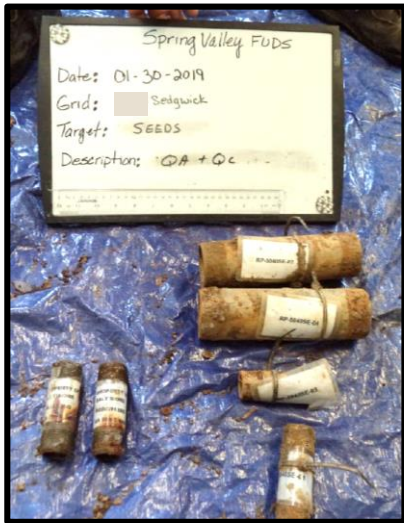
The team uses flags to mark excavation locations



Documenting recovered anomalies

SITE-WIDE REMEDIAL ACTION

Anomaly Excavations Finds



**Recovered
quality control
'blind seeds'**

**Recovered non-
hazardous
munition fragment**



Recovered Munition Projectile Fuze



**'Cultural
Debris'**



US Army Corps
of Engineers.

SITE-WIDE REMEDIAL ACTION

Munition Education and Awareness

The **'Land Use Control Implementation Plan,'** or **LUCIP** is finalized. The **LUCIP** entails continuing the 3Rs of the Explosive Safety Education Program (*Recognize, Retreat, Report*), and 5-year reviews to ensure that human health and the environment continue to be protected.

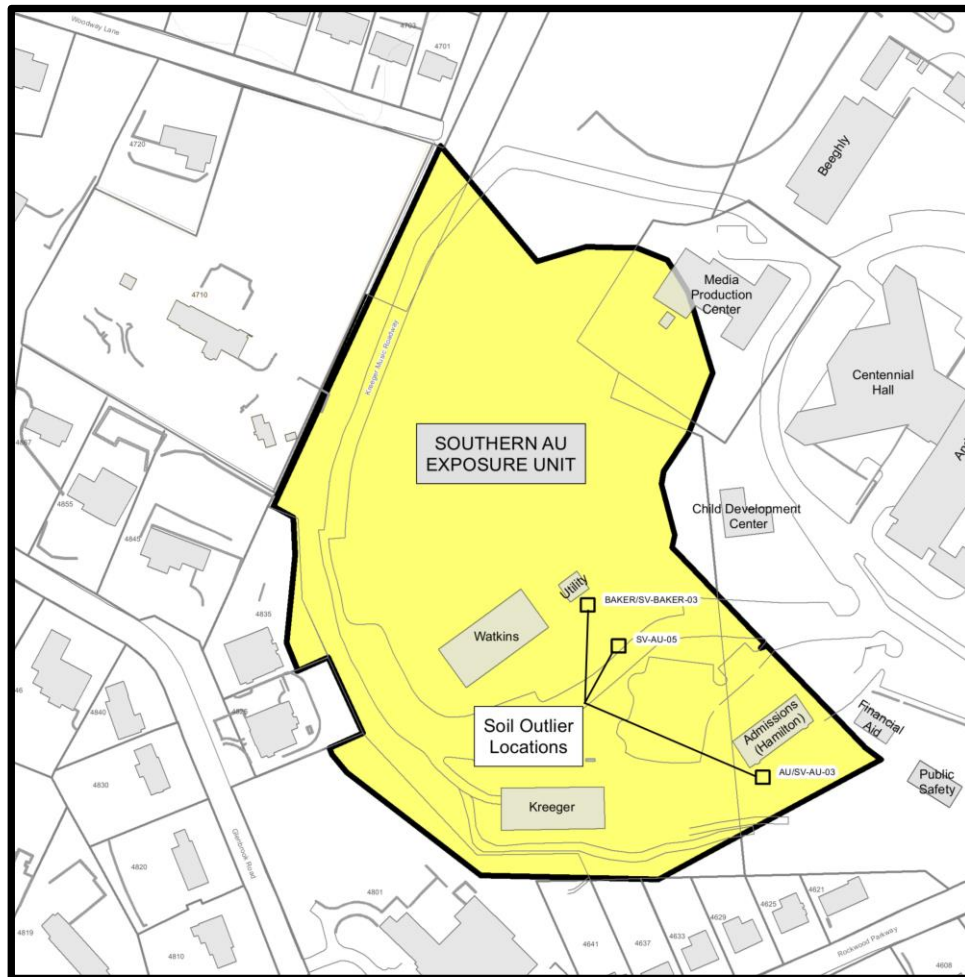


The team continues to prepare a FUDS information notice, along with a brochure about the 3Rs, to distribute to the community once they are reviewed by the Spring Valley Partners, the RAB and finalized. Initial distribution is anticipated this Spring. Then distributed annually every spring.

--- RAB DISCUSSION ---



SITE-WIDE REMEDIAL ACTION



Soil Excavation Areas

The hot spot soil removal at three locations within the southern area of the American University campus will likely begin after the former Public Safety Building excavations are completed.



Remedial Action - Tentative Schedule

Late-Winter 2019	Continue to finalize plant removal plans and approved plant removal; continue geophysical surveys; continue anomaly removal.
Early-Spring 2019	Finalize and distribute the Munitions Education and Awareness packet (first of future annual spring mailings).
Spring 2019	Begin restoration at Spaulding-Captain Rankin. Continue finalizing plant removal plans with subsequent groups in preparation for geophysical surveys; begin to obtain Rights-of-Entry from the next group of homeowners. Begin soil removal preparations for the southern AU campus exposure unit.

FORMER PUBLIC SAFETY BUILDING

Excavate under the foundation of AU's former Public Safety Building (PSB):

- The team continues to work with Washington Gas and DC to shut off the gas line that passes along the edge of the PSB foundation and cinder block walls.
- The slab and soil removal work is expected to begin after the gas line is shut off.
- Once the gas line shutoff has been completed, the team will mobilize to the site and work will take 2-4 months to complete.



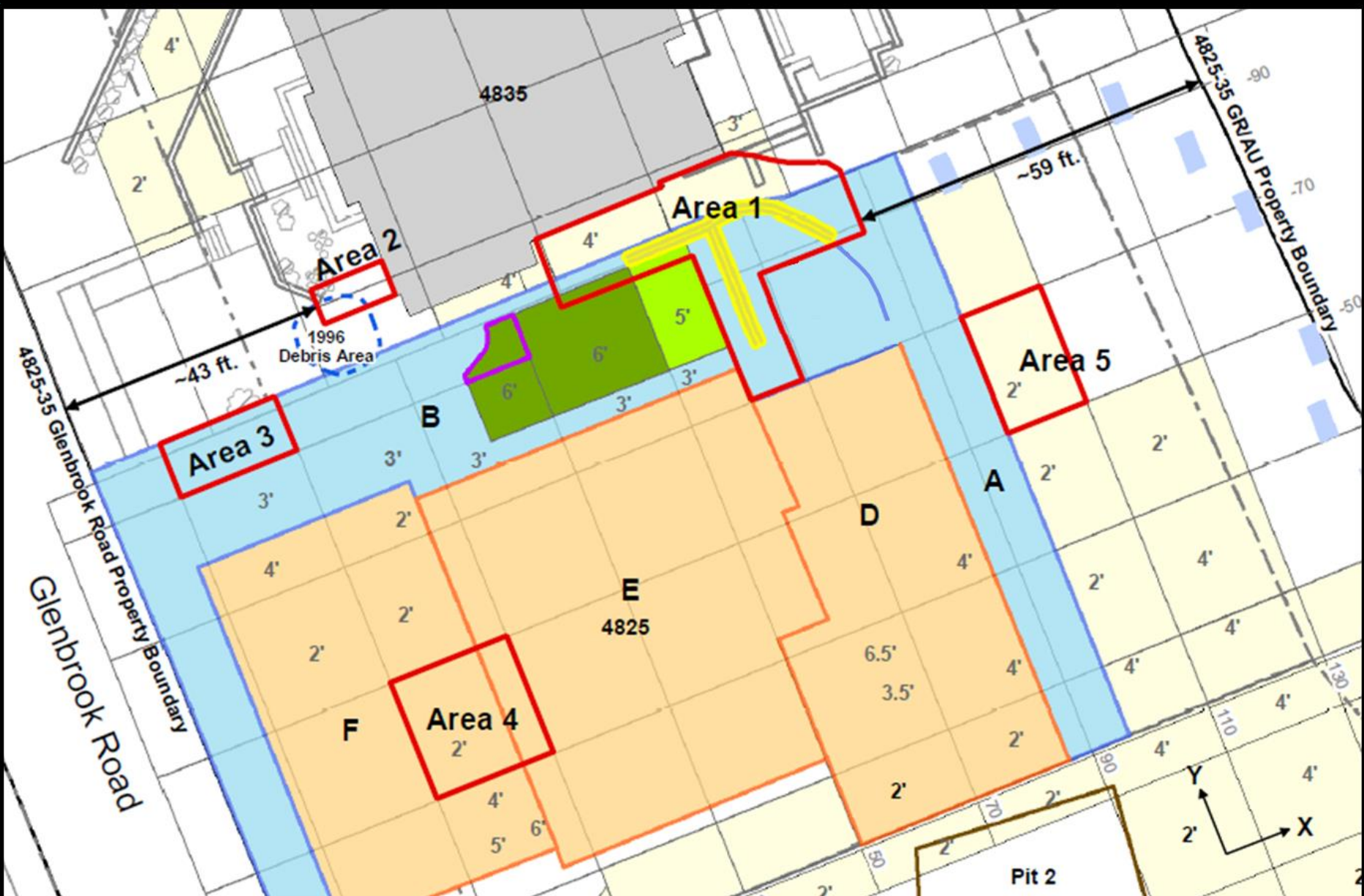
**US Army Corps
of Engineers.**

GLENBROOK ROAD

USACE UPDATES



AREAS 1, 2, AND 3 ARE COMPLETED PENDING SOIL SAMPLING CONFIRMATION



RECENT ACTIVITIES – 4825 GLENBROOK RD



Additional gravel was added to the entrance and muddy areas, to safely stabilize the work areas, and reduce erosion.

February site conditions along the shared property line, with a deep excavation area impacted by pooling rain water.



RECENT ACTIVITIES – 4825 GLENBROOK RD

Area 2 excavation was completed by hand digging due to prior encounters with glassware. The crews continued to safely recovered broken glassware while hand digging around the utilities and PVC pipes in Area 2. Some broken glassware was found mixed with concrete. No chemicals were detected by the air monitors.



Markers showing where the broken glassware was recovered.



RECENT ACTIVITIES – 4825 GLENBROOK RD



*Over-excavating
in Area 3*

The team took confirmation samples of Areas 1 and 2, and the Army Corps' geologist confirmed that the excavation team reached competent saprolite (bedrock). While waiting for the confirmation sampling results, the team completed excavation work in Area 3. Confirmation samples were taken and results are pending.



NEW SITE CONFIGURATION FOR AREA 4 EXCAVATION

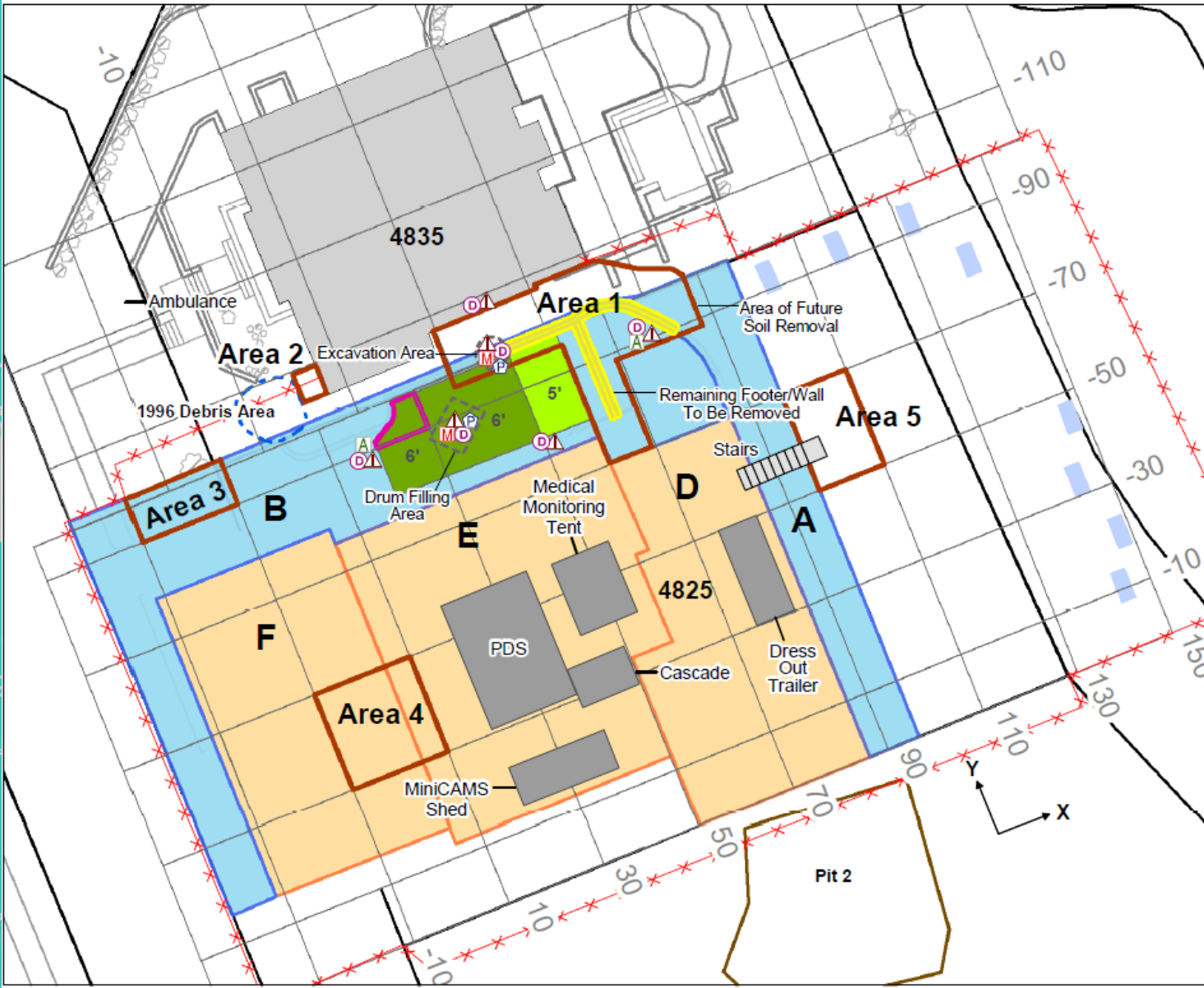


Figure 3
Site Layout Area 4
4825 Glenbrook Road

Spring Valley
 Washington, D.C.

Legend

- ⊙ DAAMS
- ⊠ Dust Monitor
- ⚠ Industrial Air Monitor
- Ⓜ Minicams
- Ⓟ PID
- ▭ Buildings/Structures
- ▭ Property Boundaries
- ▭ Area of Future Soil Removal
- ▭ 20' Grid
- ▭ Pit 2
- ⋯ 1996 APEX Tree Removal (Debris Area) Perimeter
- ⊠ Test Pits

Additional Low Probability Investigation

- ▭ Arsenic Soil
- ▭ Arsenic Grid Previously Removed [5'] (2009)
- ▭ Arsenic Grid Previously Removed [8'] (2009)
- ▭ Arsenic Exceedance to be Further Excavated

Excavated Areas

- ▭ Low-Probability
- ▭ Completed High-Probability

0 10 20 40 Feet
 1 inch = 20 feet

Scale:	1:240
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PARSONS

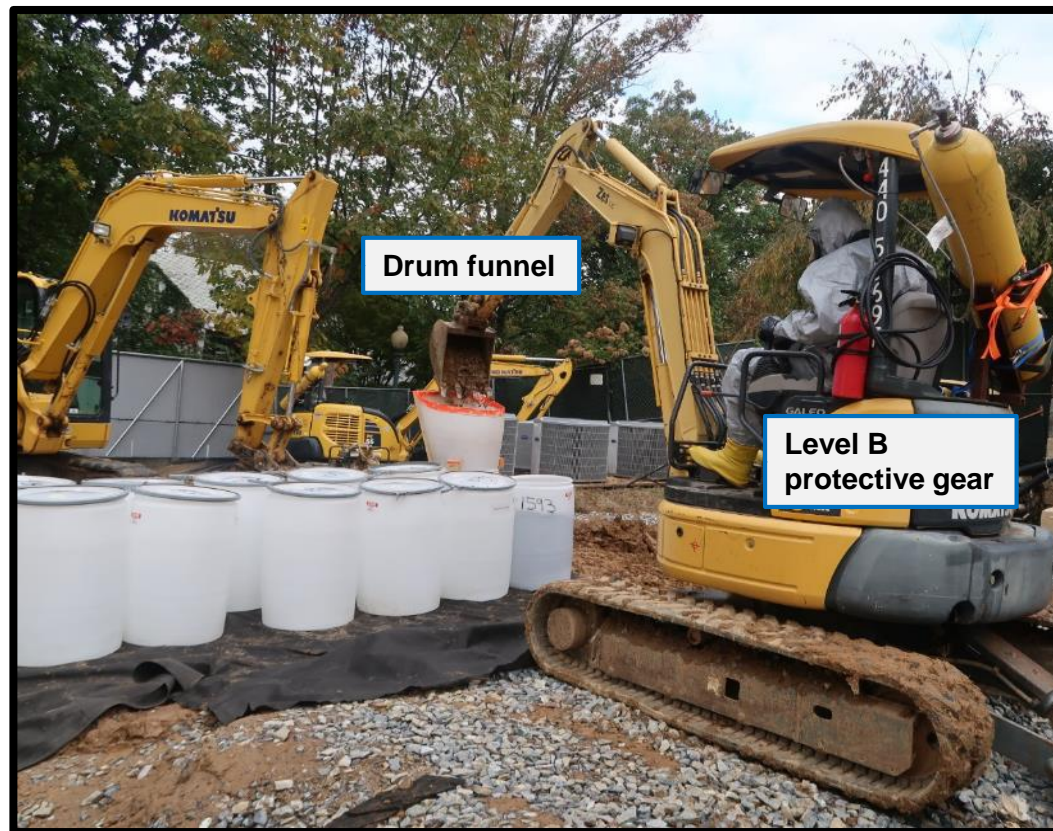


RECENT ACTIVITIES – 4825 GLENBROOK

As a reminder, the team completed this work in Level B protective gear.

Mechanical equipment is being used to excavate the soil and place it into drums. A drum funnel is used to control the soil as it is placed into the drums.

The excavation and drum filling will continue to be done in Level B protective gear with our additional weather restriction safety protocols.



Crew working in Level B gear using a mini-excavator to load soil into drums with a drum funnel



US Army Corps
of Engineers.

TENTATIVE SCHEDULE: GLENBROOK RD PROJECT AREA

Winter 2019	<p>Continue the soil removal operation along the 4825/4835 Glenbrook Road property line.</p> <p><i>Working hours:</i> Monday - Friday from 6:30 am to 5:00 pm. Heavy equipment operations do not begin until after 7:00 am.</p>
Spring/Summer 2019	<p>Potential completion of remedial activities at 4825 Glenbrook Road.</p> <p>Start of site restoration for Glenbrook Road sites – 4825 & 4835.</p>



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

Community Items



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

Open Discussion:

Reminders:

- The next RAB meeting will be
Tuesday, **May 14th, 2019**

Upcoming Agenda Items:

- Suggestions?



**US Army Corps
of Engineers.**

SPRING VALLEY FUDS RESTORATION ADVISORY BOARD AGENDA (continued...)

- **Public Comments**
- **Wrap-Up**



**U.S. Army Corps of Engineers
Spring Valley Restoration Advisory Board
St. David's Episcopal Church
Minutes of the March 2019 Meeting**

RESTORATION ADVISORY BOARD MEMBERS PRESENT AT THIS MEETING	
Dan Noble	Military Co-Chair/USACE, Spring Valley MMRP Manager
Greg Beumel	Community Co-Chair
Jennifer Baine	Community Member
Brian Barone	Agency Representative - Department of Energy & Environment
Paul Bermingham	Community Member
Mary Bresnahan	Community Member
Mary Kathryn Covert Steel	Community Member
Mary Douglas	Community Member
Paul Dueffert	Community Member
Steve Hirsh	Agency Representative - Environmental Protection Agency (EPA) Region III
Marguerite Clarkson	At Large Representative - Horace Mann Elementary School
William Krebs	Community Member
Lawrence Miller	Community Member
Malcolm Pritzker	Community Member
John Wheeler	Community Member
RESTORATION ADVISORY BOARD MEMBERS NOT PRESENT AT THIS MEETING	
Brenda Barber	USACE, Spring Valley Project Manager
Lee Monsein	Community Member
Tom Smith	Community Member
George Vassiliou	Community Member
ATTENDING PROJECT PERSONNEL	
Alex Zahl	USACE, Spring Valley Technical Manager
Rebecca Yahiel	Spring Valley Community Outreach Program

Whitney Gross	Spring Valley Community Outreach Program
Holly Hostetler	ERT, Inc.
HANDOUTS FROM THE MEETING	
I. Final Agenda for the March 12, 2019 RAB Meeting II. Army Corps of Engineers Presentation III. February 2019 Monthly Project Summary IV. December 2018 Corps' pondent V. Draft Spring Valley Formerly Used Defense Site 'Education and Awareness' Letter VI. Draft Spring Valley Formerly Used Defense Site '3Rs Safety Guide' Brochure	

AGENDA

Starting Time: The March 2019 Restoration Advisory Board (RAB) meeting began at 7:16 PM.

I. Administrative Items

A. Co-Chair Updates

Dan Noble, U. S. Army Corps of Engineers (USACE), Spring Valley Project Manager, welcomed everyone and opened the meeting.

1. Introductions

None

2. General Announcements

D. Noble reviewed website updates which included the January and February Site-Wide Monthly Project Updates, weekly 4825 Glenbrook Road updates and photos, updated RAB Member Roster, December Partner meeting minutes, and January RAB meeting minutes. The Tenley Friendship Library added a link to the USACE Baltimore website to support the IR change: <https://www.dclibrary.org/node/62148>

The February Partner meeting was canceled due to inclement weather. USACE Baltimore compiled a bulleted update on major topics and delivered the update to the Partners.

B. Task Group Updates

1. RAB Technical Assistance for Public Participation (TAPP) Consultant

D. Noble received the required formal letter requesting a TAPP Consultant for the RAB from Greg Beumel, Community Co-Chair. USACE Baltimore is conducting market research through government databases to compile a list of 6 to 8 small firm candidates in the DC/Maryland/Virginia area. USACE Baltimore will provide a summary of each candidate to the RAB. If the RAB agrees on a prospective candidate, USACE Baltimore will establish a contract with the selected company. If the RAB does not select any of the candidates on the list, USACE Baltimore will continue the search and provide a new list of candidates. D. Noble expects to have the first list of candidates ready to deliver to the RAB at the next RAB meeting.

2. New Horace Mann Elementary School Representative

G. Beumel introduced Marguerite Clarkson, new Horace Mann Elementary School Representative to the RAB.

Comment from Marguerite Clarkson, At Large Representative - Horace Mann Elementary School (HMES) - I am Marguerite Clarkson. I have been in Spring Valley since October of 2014. I am a consultant at Guidehouse, which is formerly PricewaterhouseCoopers Public Sector; our clients are federal agencies. Before going in to consulting I was a Fellow at the National Institutes of Health (NIH). I have a PHD in neuroscience and still connect with NIH. They are my client now, so I still stay connected with them. Besides that, I am a wife and a mom of two small kids. I am honored to be the Horace Mann Representative here.

Question from John Wheeler, Community Member - Your kids go to Horace Mann?

M. Clarkson explained that her son will attend HMES next year.

Comment from G. Beumel, Community Co-Chair - As you know, M. Clarkson is replacing Alma Gates, who has been on the RAB in a couple different roles for many years; a few more than I have been on the RAB. We would like to take this opportunity to thank Alma for her years of service and everything she has done. She has been dedicated for a long time. If she moves back into the Formerly Used Defense Site (FUDS), we will give her another opportunity. Thank you, Alma. If you would like to say anything, you may.

Comment from Alma Gates, Audience Member - I started back here [Ed. in the audience] about 17 years ago, so it is nice to still be with you and see my picture up there (Ed. the USACE Presentation slide #5).

Comment from G. Beumel, Community Co-Chair - Thank you.

II. USACE Program Updates

A. Groundwater Feasibility Study / Dispute Resolution

After receipt of the Draft Final Groundwater Proposed Plan (PP), Department of Energy & Environment (DOEE) submitted a formal request for Dispute Resolution under the Department of Defense (DoD)/District Memorandum of Agreement (DDMOA).

Brian Barone, Agency Representative - DOEE provided an update on the Dispute Resolution between USACE, DOEE, and Environmental Protection Agency (EPA).

DOEE and EPA do not want to rely solely on Land Use Controls (LUCs) as a remedy for the Spring Valley Groundwater issue. The Dispute Resolution process has paused at Tier 2 while USACE and the Partners discuss potentially conducting additional groundwater data collection. USACE agreed to move forward with a new round of sampling as a data gap study to identify any areas that may require more information for an assessment of remedial options at the site. The Groundwater data is now several years old at this point, therefore any decision made on remediation approaches would be based on old data. DOEE wants to see new data. Several stakeholders within DOEE, including the Department of Water Quality, spent the last two months in internal discussions concerning the design of the sampling plan. DOEE will meet with USACE and EPA to discuss the sampling plan prior to the writing of the sampling-plan draft. USACE will write the sampling plan and DOEE and EPA will review the draft. B. Barone briefly discussed the two main issues of the sampling plan with Todd Beckwith, USACE:

- DOEE wants to know the present-day levels of contamination in the area. The existing

sampling data is three years old. Additional information may be necessary. A plan may be developed to collect new information and another plan developed to backstop the sampling plan if needed. Some of the previous arsenic (As) levels were close to the Maximum Contaminant Level (MCL) drinking water standard. If the sampling is conducted and all As levels are found to be below the MCL, that scenario changes the remediation options for perchlorate, the other contaminant in the area.

- EPA has a standing As MCL for drinking water, but not for perchlorate. EPA is working to develop an MCL and expects to have a standard MCL for perchlorate by April 30. The approved MCL has been delayed several times; B. Barone is not confident that a perchlorate MCL standard will be developed by April 30. B. Barone would prefer to use a standard MCL rather than an interim standard to base a decision on groundwater.

Question from A. Gates, Audience Member - Brian, given you get a standard, what method will you use to clean up the perchlorate if it is above the standard?

B. Barone explained that USACE will conduct the clean-up, not DOEE. DOEE's requirements for a remedy will be part of the discussion with USACE. Institutional LUCs are an option, but B. Barone believed that DOEE and EPA agree that LUCs are not a good first approach. The Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) site directives state that LUCs should not be the first and only way to remedy a problem. Other remediation options should be implemented, and there are several different technologies available. That is why DOEE wants to sample to determine current levels and utilize additional geochemical parameters to help decide on the best remedy. Depending on site conditions, some technologies will work better than others. The plan needs to include a remediation that is known to be effective. The worst thing to do is spend a lot of money and not conduct the research up-front and have zero result. At this point, DOEE believes that Institutional LUCs are not enough.

Comment from A. Gates, Audience Member - Thank you.

Comment from Allen Hengst, Audience Member - Briefly, I do not think it will happen at the end of April, but it will certainly happen by December when you have a court order and you have to come up with a standard. Let us say the standard is lower than 15 parts per billion. You go out and test under the new standard and all the readings are below the standard. Then the issue of LUCs kind of becomes a moot point, because you would say, 'well, it is working.' But let us say they do the additional testing and it is over the new standard, which might very well be lower than 15 parts per billion. Then you are going to be back at Tier 2 and the Army does not want to clean it up. They do not care what the level is, they do not think you need to clean it up. So, you are headed for Tier 1 and then the lawsuit, I guess. Because they are never going to give in on this. It is not up to them. It is up to the DoD National, and they have sites all over the country with perchlorate that they do not want to clean up. So, that is where you are.

B. Barone confirmed that is where the Dispute Resolution process comes in to action.

Question from A. Hengst, Audience Member - The other thing is, when you get around to talking about the testing, one thing I have never seen in the groundwater tests is their individual dates. 'Oh, they tested the water here on April 30th,' or 'they tested the water here on November 4th and it had these readings.' But there is no information about the weather. Did this happen after a drought or did it happen after two weeks of solid rain? Is there a way that can be worked into the data so when they give us a reading for a well, let us say, next to Kreeger, they will say, 'oh it came out to this, but it had not rained in a month?'

B. Barone noted that was a very good question and explained that quarterly sampling is often conducted for groundwater sites that have an issue. The quarterly sampling mimics the seasons.

Question from A. Hengst, Audience Member - So, it could go on for a year before you will be able to stop?

B. Barone confirmed the testing could potentially be conducted for a year. If a site is well below a standard, the testing would not have to go on that long. If a site is borderline or has a trend that seems to be dropping, there may be the need to conduct a few follow-up sampling events to eliminate a possible seasonal effect. Groundwater elevation will affect sampling for some contaminants as well. Drought conditions and a drop in elevation could impact the levels of groundwater that intersect contaminated soil. These variables would be addressed by a possible two-step approach; collect one set of current data to be analyzed and then discuss how many additional rounds of sampling would be enough to make people comfortable that the contamination is going to remain below the standard.

Question from A. Hengst, Audience Member - So, it sounds like it is going to be a year's worth of quarterly testing?

B. Barone explained that the Partners will have to discuss that issue.

Comment from A. Hengst, Audience Member - The other thing is, you are not going to test all the wells in Spring Valley. You are probably going to focus on the hazardous ones, but right now the hazardous ones are based on 15 parts per billion. If it goes down to 10, or 5, or 2, or like in California where it is 1 part per billion, you are going to have a lot more wells that you will have to test. So, that is why you will want to wait until after the standard.

B. Barone explained that a large portion of the wells can be eliminated because those wells have been consistently well below the standard. There is a general area where levels are more elevated. All the more reason to take the time and do it right. If the first round of sampling is completed and a new standard comes out, another round of sampling can be conducted. B. Barone does not believe anyone wants to get to the point where the Partners say, 'this is all taken care of,' and then a new standard comes out and testing must be resumed.

Question from A. Hengst, Audience Member - So, the bottom line is you are talking about at least another year, if it were to come out April 30th for the testing?

B. Barone that is something that the Partners will need talk about but are not at that point yet.

Comment from Paul Dueffert, Community Member - Can I say, this is all speculative and I think we have spent enough time on it. Point of Order.

Comment from A. Hengst, Audience Member - It is not speculative that they are coming out with a new standard and your 15 parts per billion is going to be ancient history.

Comment from G. Beumel, Community Co-Chair - If it is ancient history, we have two people sitting in the room right now who will then direct us to the new standard, ok?

Comment from A. Hengst, Audience Member - Ok, but the earliest it could happen is April 30 and then you would have a year's worth of quarterly tests.

Comment from G. Beumel, Community Co-Chair - They cannot do a year's worth of quarterly tests until they start them.

Comment from A. Hengst, Audience Member - Ok, then there is going to be a big delay.

B. Site-Wide Remedial Action (RA)

1. 91 Residential Properties and 13 Federal/City Lots

Alex Zahl, USACE, Spring Valley Technical Manager briefly reviewed the Site-Wide Remedial Design (RD)/Remedial Action (RA).

- Right-of Entries (ROEs) received from 33 residential properties.
- 33 civil surveys and 33 arborist surveys have been completed.
- Geophysical clearing walkthroughs completed at 28 properties.
- Vegetation removed from 16 private properties and 7 City/Federal lots.
- Geophysical surveys completed at 9 private properties and 4 City/Federal lots off Dalecarlia Parkway.
- Initial anomaly removal at 5 private properties and 4 City/Federal lots off Dalecarlia Parkway.

Question from A. Hengst, Audience Member - So, you are saying that the ones in Area of Interest 13 are new?

A. Zahl explained that the three completed properties in Area of Interest 13 were the properties that participated in the pilot study.

Question from A. Hengst, Audience Member - But you have not done any new surveying in Area of Interest 13?

A. Zahl confirmed that new surveys have not yet been conducted in Area of Interest 13.

Question from A. Hengst, Audience Member - And you do not have Rights of Entry either?

A. Zahl and Rebecca Yahiel, Spring Valley Community Outreach Program explained that the team has performed several surveys in Area of Interest 13.

Question from A. Hengst, Audience Member - Long ago?

R. Yahiel explained that the team is currently working with homeowners in Area of Interest 13.

Question from A. Hengst, Audience Member - In Area of Interest 13?

A. Zahl confirmed this.

Question from A. Hengst, Audience Member - Do they include the property that did not allow the geophys [Ed. sic] 7 years ago?

R. Yahiel and A. Zahl explained that the team has not started communicating with any new homeowners in that area. As described at the last RAB meeting, the team is working with homeowners that requested to be prioritized. The Site-Wide Remediation now includes 92 properties because one property was sub-divided.

Question from A. Hengst, Audience Member - I do not have the address, but I believe it is to the left of that one right angle, on the bottom row, where they did not allow the geophys [Ed. sic] the last time, 10 years ago. They refused, even though there were anomalies.

A. Zahl explained that the property is in the same situation as discussed two months ago.

After obtaining the homeowner's approval for landscape clearing, the team removes the plants as

carefully as possible, spreads mulch to preserve the area, moves fences, and constructs temporary fences where necessary. Once the landscaping is cleared, the team installs double-blind seeds and the geophysical survey begins.

Geophysical surveys are conducted with the Man-Portable Vector (MPV). The MPV sends an electromagnetic signal into the ground to search for metal objects during the dynamic survey. If an object has the correct characteristics, the object will be added to the cued survey for further analysis. During the cued survey, the equipment can produce a 3-dimensional view of the item in the ground. Based on a magnetic impulse, the electromagnetic signal can determine shape, wall thickness, and depth of the item. If the item is tubular and appears to be a munition, the Advance Geophysical Classification (AGC) library can identify the type and size of the munition.

The survey team continued to work through much of the wet winter weather.

In the process of surveying the Dalecarlia Parkway lots, the conclusion was reached that the G-858 magnetometer has limitations. The team had been using the G-858 in coordination with the MPV to identify specific targets. Most of the targets selected by the G-858 alone resulted in 'nothing found', hot-rock (rock with magnetic materials), or cultural debris. The MPV was more effective at detecting individual targets. A thorough review of past G-858 results at the Spring Valley FUDS confirmed that the G-858 was suitable for detecting potential burial pits because the G-858 can detect larger masses at greater depths than the MPV. The Regulatory Partners agreed that the team should continue to utilize the G-858 for burial pit detection and rely on the MPV for individual target selection to reduce unnecessary excavations.

Question from William Krebs, Community Member - How many potential burial pits do we believe that there are remaining?

A. Zahl and D. Noble explained that two large burial pits were found on the 4801 Glenbrook Rd. property early in the process. Those pits were detected by both the G-858 and another magnetometer in use at that time. No new burial pits are expected.

Question from W. Krebs, Community Member - I was just wondering, are we just having this 'standing in a shed, waiting for a potential burial pit to be examined,' or do we discover it and then examine it?

D. Noble explained that the G-858 covers the complete property and searches for a potential burial pit.

Question from W. Krebs, Community Member - There is not a target of pits left?

D. Noble and A. Zahl confirmed there are no burial pit targets and explained that the team scans every property to ensure there are no existing burial pits.

2. Quality Assurance/Quality Control (QA/QC) Process for AGC

Process of Creating the Anomaly Excavation List:

- Process MPV dynamic survey results.
- Process G-858 survey results.
- Process MPV cued survey results.
- Draft the 'Classification Results' (Excavation List) from the cued survey. If a target cannot be identified, the target is excavated.
- Weston Solutions geophysicist reviews Excavation List and submits List to USACE for

approval.

- USACE geophysicist reviews and approves Excavation List.
- Excavation List submitted to EPA and DOEE, along with a Property-Specific Data Summary Report.
- Anomaly excavations performed at the private property or lot.

Process of Finalizing Anomaly Excavation Results:

- The anomaly excavation results are compared to the original Excavation List to ensure AGC results match items excavated from the property. This step creates an 'Excavation Sheet.' Each object removed from the ground is documented and photographed.
- USACE geophysicist reviews and approves the Excavation Sheet.
- The approved Excavation Sheet is submitted to EPA and DOEE for review and confirmation that munition remediation is complete for that property or lot.

A USACE Assurance Letter is provided to the property owner stating the property is completely remediated for munitions per the Site-Wide Decision Document (DD).

Question from Jerry Barton, Audience Member - What kind of precautions do you take when you dig?

A. Zahl explained that all members of the excavation team are qualified Unexploded Ordnance (UXO) technicians. Utilities are checked to prevent accidental line interruption. After the team removes a target from the excavation, the excavation hole is scanned with a Schonstedt metal detector (similar to the G-858) and a Whites metal detector to determine if another target is in the same excavation. The soil is placed on blue sheeting to minimize damage to the property. Detailed notes are made on each target found to ensure that the target's excavation location matches the position identified by the MPV.

Question from J. Barton, Audience Member - But these guys that are digging, cannot they be hurt?

A. Zahl reiterated that the excavation team is made up of qualified UXO technicians and is led by a senior UXO technician.

Question from J. Barton, Audience Member - That is a lot different from saying, 'dig.' Ok.

A. Zahl explained that most of the excavation team have had military training for UXO excavation. The team recovered the blind seeds, called industry standard objects (ISOs). The ISOs, used to confirm that the detection instruments are working properly, are labeled and appear rusty from being in the ground for a month or two. They have also excavated objects classified as munition debris (MD). The object is an MD fragment, part of a munition shell that exploded. Most munition objects excavated are considered MD. Cultural Debris makes up a large portion of objects found in excavations. Much of the Cultural Debris is excavated for quality control because the AGC cannot identify the items. They also found a fuzed projectile. The object contained no explosives, therefore classified MD. Each excavated target is photographed on a white board with detailed information on date, location, size, and description to match with the AGC results.

Question from J. Barton, Audience Member - This was in one of those properties?

A. Zahl confirmed this.

Comment from J. Barton, Audience Member - So that fits in pretty good with the little brochure.

At this time, 5 private properties have been excavated. No munitions other than MD were found. The team is now in the process of comparing the Excavation Lists to the Excavation Sheets for the objects found.

Question from Mary Douglas, Community Member - The letters you are drafting, I am just curious, do they hedge, or do they say, 'we have found, and we expect not to find, anything in this area that we have examined.'

A. Zahl explained that each property owner will receive a 5 to 10-page report describing the details of the excavation activities at that property. More importantly, the homeowner will receive a shorter Assurance Letter that states that USACE conducted geophysical surveys, removed anomalies, and determined that the property is fully remediated for any kind of munition concern, therefore the property is complete. USACE can only distribute the Assurance Letters with EPA and DOEE approval.

Question from M. Douglas, Community Member - And does that bring these properties up to the level of the rest of the neighborhood?

A. Zahl asked for clarification of the question.

Question from M. Douglas, Community Member - In terms of safety? I mean, the rest of us can get letters similar... [Ed. sentence trailed off]

A. Zahl confirmed that as each individual property is completed, that property is considered fully remediated. The 92 properties were selected because there is the possibility that munitions may be present on those properties. Half of the properties have already undergone geophysical investigation.

Question from M. Douglas, Community Member - Ok, but if somebody were selling their house and wanted a similar letter in a different part of the neighborhood that had not had this extra level of scrutiny, would they be able to get that one?

A. Zahl explained that the Site-Wide DD, based on a thorough Remedial Investigation and Feasibility Study, determined that the 92 properties are considered areas suspect of having munitions. The boundaries of the suspect areas were moved out to include a large buffer area that is not suspected of having munitions. If a property is not within the boundary of the 92 properties area, the property is not considered suspect for having munitions.

Steve Hirsh, Agency Representative - Environmental Protection Agency (EPA) Region III explained that this Assurance Letter is different from the arsenic letter that residents previously received, in that only the properties that had remediation work done will receive an Assurance Letter. For the arsenic sampling, everyone received a letter.

Comment from M. Douglas, Community Member - Ok, but we have not gotten a letter about munitions and ordnance.

S. Hirsh explained that homeowners will not receive the Assurance Letter unless their property is surveyed.

Question from Lawrence Miller, Community Member - So, if somebody is in the neighborhood but not in that survey area is there something they would show? So, if somebody says, 'hey, I heard there is [Ed. sic] problems in this area,' is there something they would show a potential buyer?

A. Zahl explained that there is a great deal of data available describing the selection of properties included in the group of 92 properties.

Comment from W. Krebs, Community Member - It is a letter we got in the 1990s.

Comment from L. Miller, Community Member - My letter was just about arsenic.

Comment from W. Krebs, Community Member - That is all we get.

Comment from L. Miller, Community Member - Right, I was raising the question, if somebody is close to but not in the munitions area and a potential buyer says, 'what is going, I know there is a bunch of stuff here, what is your house like?' And the answer is, 'we were not even in the area where they were concerned.' And you would go back and find something to show people as to how that area is delineated.

A. Zahl confirmed this and explained that the Site-Wide DD would be a good source for that verification.

S. Hirsh explained that there were 100 properties that were previously investigated; some of the properties are part of the group of 92 properties. Each of the 100 properties received a letter as well.

D. Noble confirmed this.

S. Hirsh noted that some homeowners will finish with two letters.

D. Noble confirmed this and noted that some homeowners will finish with 5 letters; the Arsenic Results letter, EPA Comfort Letter, Range-fan letter, First Geophysical Survey letter, and the Second Geophysical Survey letter. Eventually there will be a big Remedial Action Report and all the letters will be superseded by that report.

3. Site-Wide Land Use Control Implementation Plan (LUCIP)

At the last RAB meeting, USACE provided the RAB with the two draft mailing documents that USACE proposes to send out to homeowners; the Department of Defense (DoD) 3 Rs (Recognize, Retreat, Report) explosive safety program brochure and the FUDS Information Notice.

USACE distributed to the RAB a packet that contains:

- Copy of the strike-out version of the current version of the FUDS Information Notice to include changes to the document in response to comments from the RAB.
- Clean copy of the current version of the FUDS Information Notice.
- Packet that includes all comments from individual RAB members and the USACE responses to the comments.
- Clean copy of the revised 3Rs Brochure. One suggested change to the brochure is the new photo on the front of the brochure that is more pertinent to munitions than history. The photo shows an intact munition item found in Spring Valley.

In response to a RAB Member suggestion, USACE will publicize the Spring Valley FUDS time line and explanation of the timeline in an edition of the Corps' pondent.

D. Noble invited the RAB to review the new versions of the two documents and submit comments. USACE is not seeking comments at tonight's RAB meeting but requests comments be submitted before the next RAB meeting in May.

Comment from Jennifer Baine, Community Member - I meant to bring it, but DC water sent a

letter this week about replacing water mains. It is in particular our streets, so I am not sure if it went out to all of Spring Valley or just the streets, but it had a couple paragraphs about this remediation, so there was another distribution of this information. I do not know if you saw that or were aware.

D. Noble explained that USACE has been working with the project manager at DC Water. DC Water hired a specialty munitions contractor to accompany the water line contractor onsite during excavation operations. The addition of the munitions contractor was not suggested by USACE as necessary, but USACE agreed with the decision by DC Water. The USACE UXO specialists and DC Water UXO specialists meet at least weekly to communicate about the project.

Question from A. Hengst, Audience Member - I have some comments on the new brochure; three are negative and two are positive. Should we do the positive first?

G. Beumel explained that everyone will have an opportunity to review the documents and requested that the RAB submit their comments to USACE in writing rather than submitting comments during the meeting.

Question from A. Hengst, Audience Member - I reviewed it, ok? My positive comments: I like the new map. You have identified three significant borders; Massachusetts Avenue, Dalecarlia Parkway, and Loughboro Road. You could easily write Nebraska Avenue and draw an arrow to that and that would square it up. I do not know why you do not just write Nebraska Avenue in there. Secondly, I think it is good that you replaced, even though I loved the photo of the Livens gun battery, nobody knows what that is. So, you replaced it with another old munition. But, would it not be nice if you could put in small font underneath the munition what it is, like, 'a Livens projectile, Stokes mortar, 75mm,' so people know what they are looking at. I believe the one in the center here, where you have the USACE logo, is a Livens projectile, correct? The thing that you found in the garden of the president's office?

D. Noble confirmed the item was a piece of the Livens.

Comment from A. Hengst, Audience Member - Right. So, it would be nice if you could just label each of those. Ok, those are my positive comments.

Comment from Mary Kathryn Covert Steel, Community Member - I do not think people know what even those terms mean.

Comment from A. Hengst, Audience Member - Well, they can look up 75mm. This is a 75mm. When they Google it, they will see what a 75mm looked like when it was new and then they will look at this and they will go, 'oh my god, it is really different.' A Livens projector looks very different than that picture. The new one. And you can Google it, ok? Images.

Comment from M. K. Covert Steel, Community Member - Well, agree to disagree, because I think that is unnecessarily alarmist.

Comment from A. Hengst, Audience Member - Ok. Those are my positive comments. Here come my negative ones, and I am going to start with the least negative.

Comment from P. Dueffert, Community Member - Can we have those in writing? I am sorry, I am sorry, Point of Order.

Question from A. Hengst, Audience Member - Why?

Comment from P. Dueffert, Community Member - Because you interrupted her for one thing.

Comment from A. Hengst, Audience Member - No, I am accepting it. It is fine. She agrees to disagree. We disagree about that, ok?

Comment from P. Dueffert, Community Member - The Chairman invited us to submit comments in writing. I do not think it is productive.

Comment from A. Hengst, Audience Member - I am not going to submit comments. I am submitting comments right now. I have reviewed it. You made three important deletions as a result of the RAB feedback, ok? The least important is on this page, the center page, where you took out the words 'injury or death.' You now say that 'recognizing if you may have encountered a munition is the most important step in reducing risk,' period. You used to say, 'reducing risk of injury or death.' In the next column you said, 'avoid death or injury by recognizing.' You took out 'death or injury' completely. That is not good. Second worst thing, on the back page where you have this gray area that you have totally re-written on the left.

Comment from Malcolm Pritzker, Community Member - Mr. Chairman, Point of Order.

Comment from A. Hengst, Audience Member - Please let me make my comments, I am not interrupting anyone. I am going to be brief.

D. Noble pointed out that A. Hengst is not a member of the RAB.

Comment from A. Hengst, Audience Member - I am a member of the public, how do I get input into this?

D. Noble explained that there is a public comment period at the end of the RAB meeting.

Question from M. Pritzker, Community Member - Have you ever heard of Robert's Rules of Order?

Comment from A. Hengst, Audience Member - So, I will make my comments at the end. I will save them for the end. I will save my comments for the end.

Comment from M. Pritzker, Community Member - I have a right to have a Point of Order, if you will stop talking.

Comment from A. Hengst, Audience Member - I just thought it would be more in order to have it while we are talking about it, but I will say it at the end.

Comment from M. Pritzker, Community Member - That is wonderful. Everybody else here has been told and asked to make their comments in writing.

Comment from A. Hengst, Audience Member - I am not on the email list. I do not get your emails. I am giving you my comments at the public meeting.

Comment from M. Pritzker, Community Member - A public meeting means you are not the only public member.

Comment from A. Hengst, Audience Member - Right, they will be in the minutes, then everyone can read them. It will not be an internal thing that just the RAB reads, everybody in the world will read the comments that are in the minutes because they are posted on the internet. That is the comments that I want to make.

Comment from M. Pritzker, Community Member - Ok. Everybody else has been asked to make their comments in writing.

Comment from A. Hengst, Audience Member - I am not on that list. The public cannot read those comments.

G. Beumel pointed out that request was made just now.

Comment from A. Hengst, Audience Member - All I see is the results of your comments. I do not see the comments. I do not get to see the comments. I am a member of the public. I am a stakeholder too. I get to be involved too. Why do you not just take the comments now and then we can move on? There were three important deletions. You deleted three phrases as a result of the RAB comments, which were atrocious. It is a scandal that you deleted those three comments. But I will wait till the end because you do not want to hear them now.

Comment from Mary Bresnahan, Community Member - I really think the brochure is very nice. I think that the pictures are very good. Youngsters can look at these pictures and determine if they need to report anything. I happen to like the detail of it. Thank you.

Comment from G. Beumel, Community Co-Chair - Mary [Ed. Douglas], I am not going to expect you to look at all of your responses and agree with them right now, so please. We will all look at them.

Comment from P. Dueffert, Community Member - I would like to thank her for her comments, though, that were very thoughtful. I will say that the revised version is a vast improvement.

Comment from A. Hengst, Audience Member - The public does not get to see those comments. Only you get to see those comments, the insiders.

Comment from M. Bresnahan, Community Member - We are doing our job as insiders to get to see these, to make these comments, and to see. That is what we are supposed to do.

Question from A. Hengst, Audience Member - How come we do not get to see the comments? How come we cannot be involved in this? I want to see the comments that the RAB members make. Because I think those deletions are unforgivable.

D. Noble explained that USACE will find an area on the website to post the comments so the public can see the comments. USACE would like to hear back from the RAB members that made comments regarding the responses from USACE. In some cases, if USACE did not fully accept a comment or decided not to accept a comment, USACE tried to provide the reason why the comment was not accepted. USACE will provide the electronic version of the next draft to the RAB mailing list.

Comment from M. Douglas, Community Member - Dan, I just want to say thank you for this thorough response to my other comments. It is great.

Question from G. Beumel, Community Co-Chair - Do you have a deadline you would like to receive the comments by? How quickly, since you are talking about needing them?

D. Noble noted that the next RAB meeting is in two months. If USACE were to receive the comments in the next 30 days, USACE could make adjustments to the documents and have the documents ready ahead of the next RAB meeting. The RAB could then preview the documents before the meeting.

Whitney Gross, Spring Valley Community Outreach Program noted that the next meeting is May 14.

Question from Paul Bermingham, Community Member - Why not give us 30 days from today?

D. Noble confirmed the submission date for comments will be April 12.

4. Hotspot Removal of Contaminated Soil at Southern American University (AU) Campus

The hotspot soil removal at three locations within the southern area of the AU campus will likely begin after the former Public Safety Building excavations are completed.

5. Remedial Action Tentative Schedule

- Late Winter 2019 - Continue to finalize plant removal plans and approved plant removal, continue geophysical surveys, and continue anomaly removal.
- Early Spring 2019 - Finalize and distribute the Munitions Education and Awareness packet (first of future annual spring mailings).
- Spring 2019 - Begin restoration at Spaulding-Captain Rankin. Continue finalizing plant removal plans with subsequent groups in preparation for geophysical surveys; begin to obtain Right-of-Entries from the next group of homeowners. Begin soil removal preparations for the southern AU campus exposure unit.

6. Former Public Safety Building (PSB)

The team continues to work with Washington Gas and DC to shut off the gas line that runs through the site to complete the excavation. The gas line meter has been removed. The Washington Gas contractor will cut and bleed the remaining line and certify that the line is empty. The gas line will be left in place. Should the team run into the line during the excavation, the team will cut the exposed segment of the gas line and remove the pieces. The remaining segments of the gas line outside the excavation footprint will remain in the ground. USACE expects to be at work at the excavation by the next RAB meeting and will provide updates, photos, and a reminder of the size of the excavation expected according to the Site-Wide DD.

Question from J. Barton, Audience Member - I walk there a lot, will there be any danger to the public while you are digging?

D. Noble explained that there is a fence around the area that will prevent the public from entering the excavation site. Workers will be present during operations and a security guard will be onsite during off-hours, weekends, and holidays.

Question from W. Krebs, Community Member - I thought at the end of last year they were doing the Spaulding-Captain Rankin property?

D. Noble explained that the work at Spaulding-Captain Rankin is completed.

Question from W. Krebs, Community Member - Oh, this says, 'begin restoration' in spring 2019?

D. Noble confirmed this and explained that restoration of the Spaulding-Captain Rankin property refers to activities such as replanting the plants and replacing the grass. The remediation work is complete.

Comment from J. Wheeler, Community Member - The remediation is done, the restoration is all that is left.

D. Noble confirmed this and noted that USACE will stop reporting activities at the Spaulding-Captain Rankin property.

Question from M. Clarkson, At Large Representative - HMES - Is that Rockwood Parkway through

the trees? [Ed. photo on slide #17 of the presentation]

D. Noble confirmed this.

C. Glenbrook Road

D. Noble provided a brief update on 4825 Glenbrook Road and 4835 Glenbrook Road.

At the last RAB meeting USACE reported there were five areas that still required excavation at the Glenbrook Road sites.

Question from A. Hengst, Audience Member - Point of Order. I heard that Andrew Huff had left AU. Is he no longer on the RAB?

D. Noble confirmed this.

Question from A. Hengst, Audience Member - So who is the new RAB from AU?

D. Noble explained that USACE has not heard who the new RAB representative will be from AU. When the representative is identified USACE will share that information.

Question from A. Hengst, Audience Member - Maybe in May?

D. Noble confirmed that if the new representative is identified by May, the new representative might attend the next RAB meeting.

Question from A. Hengst, Audience Member - You know the only thing he ever asked was what was AUES. He wanted to know what AUES stood for, remember that? That was his big input.

D. Noble explained that he did not remember that.

Comment from A. Hengst, Audience Member - Well, maybe they will find somebody that knows a little bit more about the project than him.

D. Noble explained that the new AU representative to the RAB will be offered a RAB orientation briefing by USACE.

Comment from A. Hengst, Audience Member - Thanks.

Comment from J. Wheeler, Community Member - They have hired a replacement already for Linda Argo. He was filling in for Linda.

D. Noble confirmed this.

Comment from A. Hengst, Audience Member - And now he is gone.

D. Noble noted that the selection of the AU representative to the RAB is by the decision of AU.

1. Recent Activities

Excavation Areas 1, 2, and 3 [Ed. indicated on slide # 19 of the presentation] are completed, pending soil sampling confirmation. The team performed over-excavation in each area and collected confirmation samples for confirmation. Area 4 towards Glenbrook Road will be the next area to be completed. The team began excavations at Area 4 this week.

Site conditions were impacted along the shared property line due to pooling rain water. Site maintenance activities include pumping the rainwater out and adding additional gravel to the entrance and muddy areas to safely stabilize the work areas and reduce erosion.

The Area 2 excavation in the front corner of the 4835 Glenbrook Road property was completed by hand-excavation due to previous discoveries of glassware debris. The team continued to safely remove broken glassware while hand-excavating around the utilities, underground wires, and PVC pipes in Area 2. The team recovered ~5 lbs. of glassware associated with American University Experiment Station (AUES)-type glassware debris. All soil continues to test free of chemical agent and agent breakdown products (ABPs). The glassware tested free of chemical agent when headspace tested. The soil samples are also expected to test free of chemical agent during low level analysis.

The photo on slide #22 of the presentation shows the excavation in Area 3. Glenbrook Road is on the other side of the gray fencing. 4835 Glenbrook Road is on the other side of the green fencing.

The team collected confirmation samples for Areas 1 and 2 to confirm the excavation reached bedrock in those areas. Confirmation samples were collected in Area 3 and results are pending.

The Area 4 site was reconfigured to facilitate excavation. The new configuration will serve Areas 4 and 5.

As a reminder, the team is working in Level B protective gear.

Mechanical equipment is used to excavate the soil and place the soil into drums quickly to minimize exposure to the atmosphere. Hand-excavation was used in Area 2 due to the complexity of the excavation area.

2. Tentative schedule

Winter 2019

- Continue the soil removal operation along the 4825/4835 Glenbrook Road property line.
- Working hours: Monday through Friday from 6:30 AM to 5:00 PM. Heavy equipment operations do not begin until after 7:00 AM.

Spring/Early Summer

- Potential completion of remedial activities at 4825 Glenbrook Road.
- Start of site restoration for 4801/4825/4835 Glenbrook Road sites.

Question from J. Barton, Audience Member - 4835 [Ed. Glenbrook Road] you are done with also? That is what you just said, because of remediation, but you are not done with it.

D. Noble confirmed that additional soil vapor testing will be performed in the house at 4835 Glenbrook Road. That testing is paused until the excavation activities are completed at 4825 Glenbrook Road.

Question from M. K. Covert Steel, Community Member - Dan, what month did you anticipate that the temperature will get too high to work?

D. Noble explained that, conservatively, the team plans to continue operations until the end of April. USACE expects that most of the excavation will be completed by that time. It is possible that if the team is very close to being finished by the end of April, the work schedule could change to quarter days or half days in the mornings before the temperature gets too high. This schedule might be extended into May or June until the temperature becomes prohibitive. If operations are not completed by that time, activities will be paused until cooler weather returns in the fall.

III. Community Items

None.

IV. Open Discussion and Future RAB Agenda Development

A. Upcoming Meeting Topics

- Groundwater FS Study/Policy Issues between USACE, EPA, and DOEE
- Site-Wide RD/RA
- 4825 Glenbrook Road/4835 Glenbrook Road

B. Next RAB Meeting:

Tuesday, May 14, 2019

C. Open Discussion

V. Public Comments

Comment from A. Hengst, Audience Member - Ok, I am sure that in the background material, I can read it and find out how these changes were made, which is interesting historically, but I do not really care why they were made. I do not think they should have been made, and I discussed one of the three negative ones is on the inside, where you removed the phrase 'injury or death' in two different places, ok? You can look at the original and see where 'injury or death' was and see where it is gone on the second one. The second worst change was the sentence over here in this gray area on the outside where you talked about the background of Spring Valley. In the old one it said, 'all munitions should be considered dangerous regardless of how long they have been in the environment or how frequently they have been handled.' What that says to me is some people find these munitions and they become souvenir items and they will put them on the mantel and people will pass them around and then think, 'oh, that is safe because we have had it on the bookcase there forever and there is nothing to worry about.' That sentence is totally gone. I am sad to see it gone, because I think some of the munitions have become souvenirs. But by far the worst thing is in the first paragraph, under background. You do mention in the new version that the experiment station investigated the testing, production, and effects of noxious gases, antidotes, and protective masks, but you took out the other sentence which was key, which in the original one said, 'for these reasons unexploded ordnance and/or chemical weapons may be encountered within the Spring Valley neighborhood.' That is totally gone. Nowhere in this does it talk about chemical weapons. It talks about noxious, what. Noxious gases and masks and antidotes. But where is the part about the unexploded ordnance and the chemical weapons? I do not think that should be taken out. I do not really care why it was taken out, it is just wrong. Those are my three. I already mentioned the one on the inside about injury or death, the one about frequently handling, and most importantly, you need to say somewhere on the brochure that you are talking about unexploded ordnance and/or chemical weapons. Thank you.

VI. Adjourn

The meeting was adjourned at 8:23 PM.