



**SPRING VALLEY FORMERLY USED DEFENSE SITE PROJECT**  
**RAB Meeting**

**July 11, 2017**  
**7:00 – 8:00 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
- 7:05 p.m.      II.      USACE Program Updates**  
Site-Wide Decision Document  
Groundwater Study  
Glenbrook Road
- 7:30 p.m.      III.      Community Items**
- 7:40 p.m.      IV.      Open Discussion & Future RAB Agenda Development**  
Upcoming Meeting Topics:  
    ▪ (Suggestions?)  
    ▪ Summary of work at 4835 Glenbrook Road  
  
    \*Next meeting: September 12, 2017
- 7:50 p.m.      V.      Public Comments**
- 8:00 p.m.      VI.      Adjourn**

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

# SPRING VALLEY FORMERLY USED DEFENSE SITE

## Restoration Advisory Board Meeting 11 July 2017

“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

## USACE Updates

- Site-Wide Decision Document
- Groundwater Study
- Glenbrook Road

## Community Items

## Open Discussion & Future RAB Agenda Development

## Public Comments



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# CO-CHAIR UPDATES

## Introductions

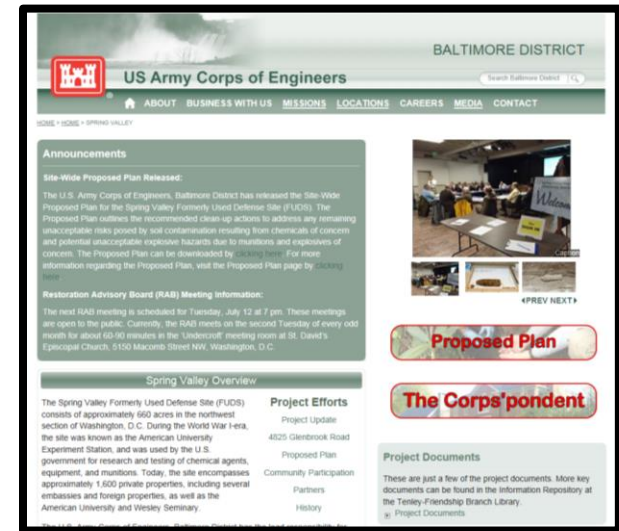


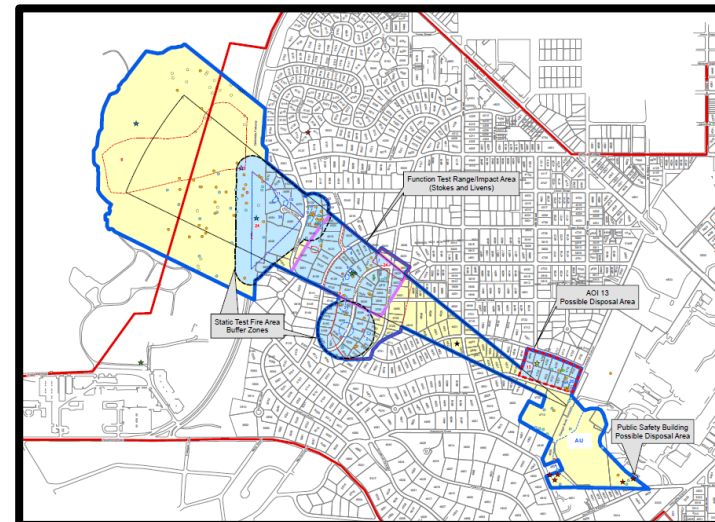
# CO-CHAIR UPDATES

## Announcements

### – Website Updates:

- May and June Monthly Site-Wide Project Updates
- Weekly 4825 Glenbrook Rd Project Updates with photos
- May RAB meeting minutes
- April Partner meeting minutes
- Final Site-Wide Decision Document





# SITE-WIDE DECISION DOCUMENT

## USACE Updates



# SITE-WIDE DECISION DOCUMENT

The team finalized edits to the Site-Wide Decision Document (DD) based on comments from the Army Corps' Headquarters.

- The DD was signed on June 15, 2017.



The Final DD is available in our Information Repository at the Tenley-Friendship Neighborhood Library on our project website here:  
<http://www.nab.usace.army.mil/Home/Spring-Valley/Site-Wide/>

Next step: Complete the Remedial Design, where details of carrying out the selected remedial alternatives are developed with a contractor.

- On June 30, the contract for this work was awarded to Weston Solutions, Inc. They will begin the Remedial Design efforts by drafting Work Plans.



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# SITE-WIDE TENTATIVE SCHEDULE

✓ <b>June 15, 2017</b>	Signed the <b>Decision Document</b> .
✓ <b>June 30, 2017</b>	<b>Contract acquisition work awarded.</b>
<b>July 2017</b>	Begin <b>Remedial Design</b> .
<b>~ Fall/Winter 2017-2020</b>	Conduct <b>Remedial Action</b> field work.



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## PUBLIC SAFETY BUILDING (PSB)

AU completed the demolition of the PSB. The Army Corps team will remove the exposed basement slab to investigate and remove any potential Army related contamination (whether that be laboratory glassware, munitions debris, or contaminated soil).

We will replace any soil that may be removed with clean backfill and return the property back to AU. Future plans for the site will be decided by AU.

The contractors hired for the Site-Wide Remedial Action work will be in charge of the work at the PSB.





# GROUNDWATER STUDY

## USACE Updates

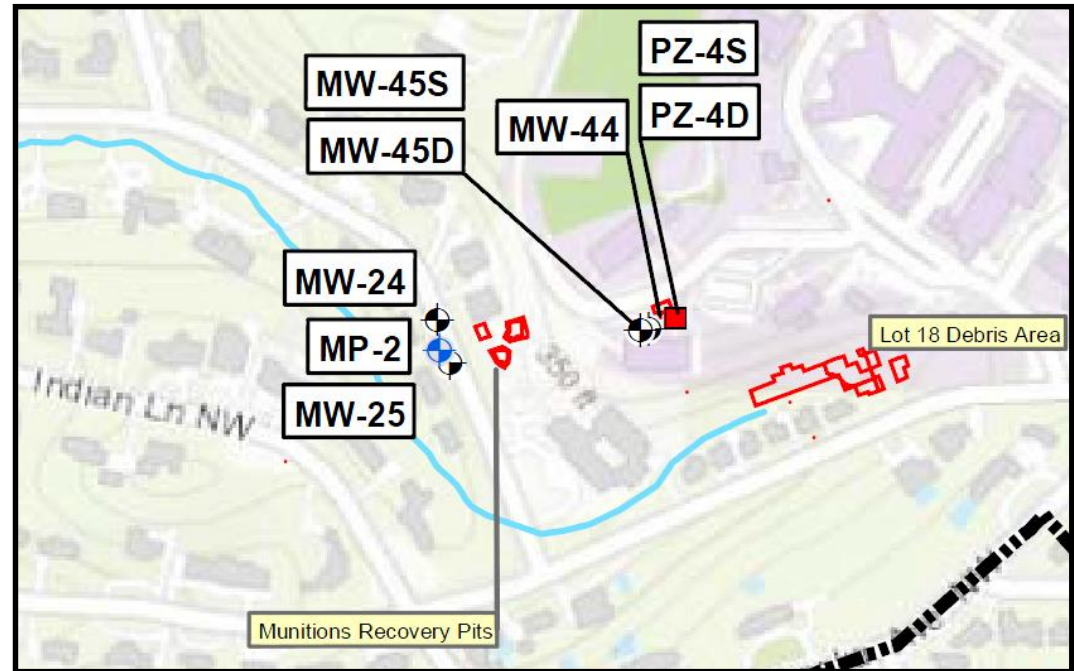


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# GROUNDWATER FEASIBILITY STUDY

The Army Corps received the regulatory Partners comments on the draft Groundwater Feasibility Study (FS) and are preparing responses.

Once the comments are resolved and the FS is finalized, the team will begin drafting the Groundwater Proposed Plan.



## Tentative Schedule:

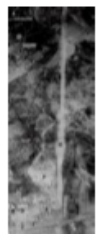
- Address Partner comments and finalize Feasibility Study - Fall 2017.
- Proposed Plan, public comment period, public meeting - Winter 2018.
- Finalize Decision Document - Summer 2018.



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# The CERCLA Process

*(The Comprehensive Environmental Response, Compensation, and Liability Act)*



## Preliminary Assessment

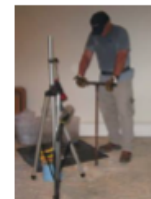


## Site Inspection



## Remedial Investigation

General Purpose: Collect data to characterize site conditions; Determine the nature of the waste; Assess risk to human health and the environment; & Evaluate treatment options.



## Feasibility Study



General Purpose: To develop, screen, and evaluate alternatives for clean-up.

Information gathered as part of the RI influences the development of the FS which, in turn, may require further data collection and field investigations.

## Decision Document



General Purpose: Select the alternative as well as provide an overview of the project. This would include site history, previous and current investigations, and characterization of contamination.



## Proposed Plan



General Purpose: Presents the evaluation of clean-up alternatives and provides a recommendation for the preferred alternative.

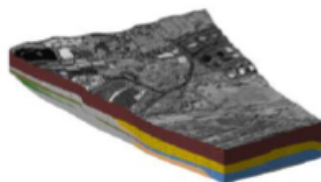
This document is made available for public review and comment.



## Removal Action

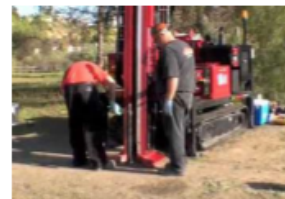


General Purpose: If prompt action is deemed appropriate prior to the completion of the RI/FS process, USACE will begin removal of the contaminants of concern.



## Remedial Design/ Remedial Action

General Purpose: Implementation of the action determined in the Decision Document.



## Long Term Monitoring

General Purpose: To conduct any long term monitoring necessary and conduct five year reviews of the Formerly Used Defense Site.

# 4825 GLENBROOK ROAD

## USACE Updates





# LOW PROBABILITY

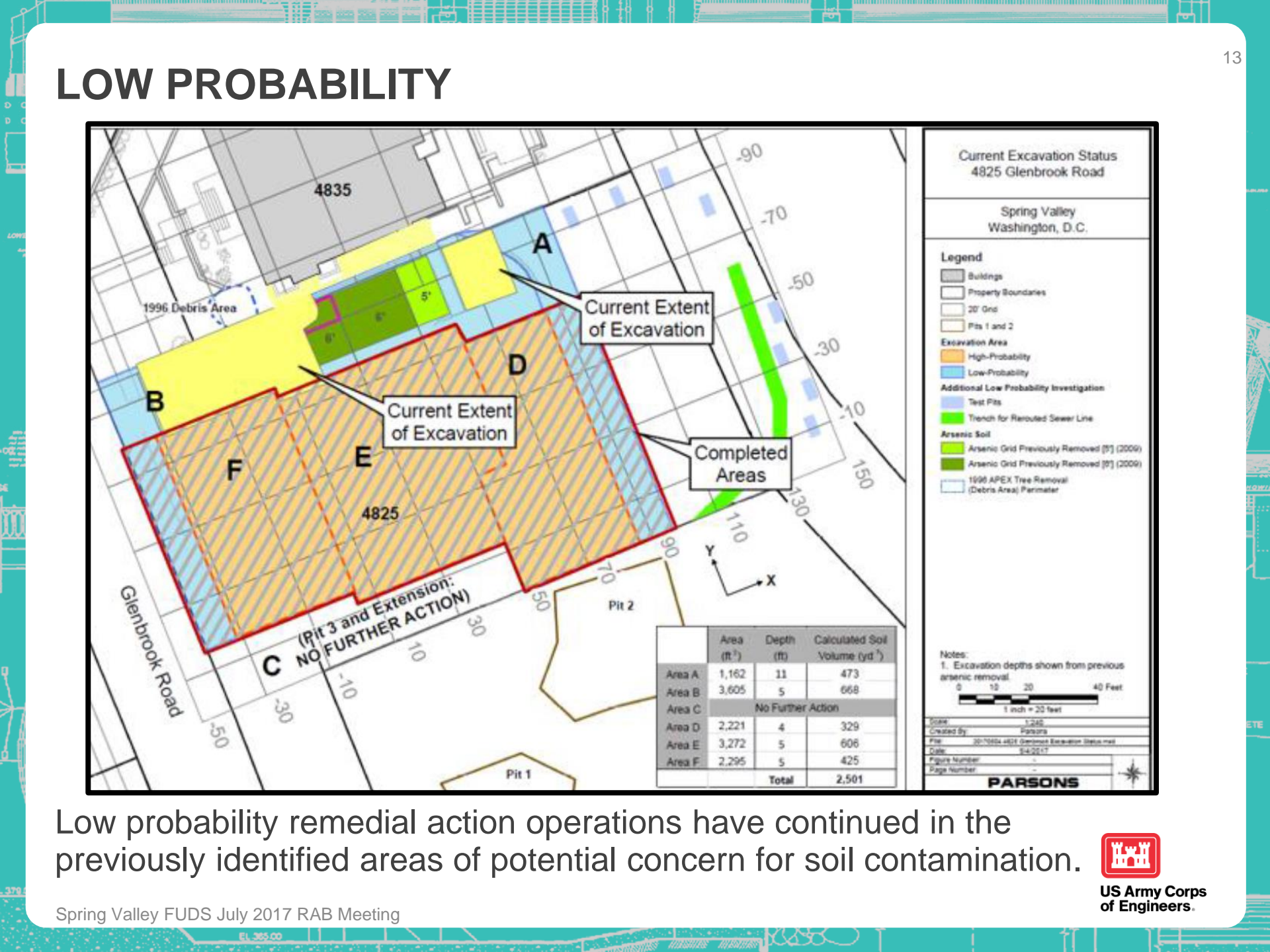
The map displays the site at 4825 Glenbrook Road, Spring Valley, Washington, D.C. It shows various excavation areas labeled A through F. Areas A, B, and C are marked as 'Current Extent of Excavation' (orange hatched). Areas D, E, and F are marked as 'Completed Areas' (blue hatched). A red dashed line indicates the 'Current Extent of Excavation' for Pit 3 and Extension, with a note 'NO FURTHER ACTION'. The map includes a legend for buildings, property boundaries, 20' grid, pits 1 and 2, excavation areas (high-probability orange, low-probability blue), additional low-probability investigation (test pits, trench for rerouted sewer line), arsenic soil (arsenic grid previously removed [05] (2009), arsenic grid previously removed [05] (2009)), and 1996 APEX Tree Removal (Debris Area) Perimeter. A table provides excavation data for Areas A through F, including Area (ft²), Depth (ft), and Calculated Soil Volume (yd³). The total volume is 2,501 yd³. The map also shows Glenbrook Road, Pit 1, Pit 2, and a 1996 Debris Area. A scale bar indicates 1 inch = 20 feet. The map is dated 8-4-2017 and created by Parsons.

	Area (ft <sup>2</sup> )	Depth (ft)	Calculated Soil Volume (yd <sup>3</sup> )
Area A	1,162	11	473
Area B	3,605	5	668
Area C	No Further Action		
Area D	2,221	4	329
Area E	3,272	5	606
Area F	2,295	5	425
<b>Total</b>			<b>2,501</b>

Low probability remedial action operations have continued in the previously identified areas of potential concern for soil contamination.

Spring Valley FUDS July 2017 RAB Meeting

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# LOW PROBABILITY

The map displays the site at 4825 Glenbrook Road, Spring Valley, Washington, D.C. It shows various excavation areas labeled A through F. Areas A, B, and C are highlighted in yellow, while areas D, E, and F are highlighted in orange. A red line indicates the 'Current Extent of Excavation'. A green line indicates 'Completed Areas'. The map also shows the '1996 Debris Area' and 'Pit 1' and 'Pit 2'. A table provides data for each area, including area (ft²), depth (ft), and calculated soil volume (yd³). The total volume is 2,501 yd³.

	Area (ft²)	Depth (ft)	Calculated Soil Volume (yd³)
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<b>Total</b>			<b>2,501</b>

**Current Excavation Status**  
4825 Glenbrook Road  
Spring Valley  
Washington, D.C.

**Legend**

- Buildings
- Property Boundaries
- 20' Grid
- Pits 1 and 2
- Excavation Area
  - High-Probability
  - Low-Probability
- Additional Low Probability Investigation
  - Test Pits
  - Trench for Rerouted Sewer Line
- Arsenic Soil
  - Arsenic Grid Previously Removed (05) (2009)
  - Arsenic Grid Previously Removed (08) (2009)
- 1996 APEX Tree Removal (Debris Area) Perimeter

**Notes:**  
1. Excavation depths shown from previous arsenic removal.

Scale: 1 inch = 20 feet

PARSONS

Low probability remedial action operations have continued in the previously identified areas of potential concern for soil contamination.

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## LOW PROBABILITY – ALONG THE SHARED PROPERTY LINE

In early June, the teams continued hand digging in the areas with AUES debris and CACM containing soils. The hand digging methods used to remove the AUES debris and CACM containing soils continue to impact the productivity at the site.



The team is working diligently but cautiously in these areas to ensure the safety of our site teams and the local residents and the AU campus.



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# 4825 GLENBROOK PROGRESS

Moving forward is challenging in the heat and with ongoing presence of CACM.

- One dig team at a time, proceeds with hand digging.
- Crew utilizes the new redress trailer to get in and out of safety equipment as needed.
- The contractor has three dig teams to switch out.
- Our dig team continues wearing Modified Level D, *which is construction site standard safety attire with the addition of a paper Tyvek suit, booties and an extra pair of gloves.*
- If the MINICAMS ring off, the Mod D team will leave the area and a Level C team will enter. *“Level C” personal protective equipment includes a chemical Tyvek suit and gloves, and a full face respirator.*





# LOW PROBABILITY



Approximately 119 pounds of American University Experiment Station-related glassware debris has been recovered in Area B to date. All of it cleared head-space analysis.

There were also no detections of chemical agents or industrial compounds in the air monitors.



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# LOW PROBABILITY



Mechanical excavation has been used where possible, for demolition of the retaining wall and to remove backfill placed behind the retaining wall during the prior arsenic removal efforts at the site.



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# LOW PROBABILITY



Potentially contaminated soil continues to be sifted and placed into drums for disposal.

The team is carefully excavating soil behind the retaining wall with both mechanical and hand digging.





# LOW PROBABILITY

The crew also continued demolishing portions of the retaining wall and a thick concrete footer.





# LOW PROBABILITY

Rubble from the demolished retaining wall where CACM or AUES debris was recovered, is broken into small pieces so it can also be placed into drums for disposal.



Other soil and rubble are removed from the site in the larger roll offs.



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# FUTURE ACTIVITIES

- Finish low probability excavations.
- Finalize the restoration schedule with the property owners of 4825/4835 Glenbrook Rd.
- Restore 4801 Glenbrook Rd.
- Site Closure Report.



# TENTATIVE SCHEDULE

- ✓ December 2012 through May 2013  
*Site Preparation/ Initial Low Probability Work*
- ✓ May 2013 through September 2013  
*ECS Set Up, High Probability training, & Pre-Operational Exercises*
- ✓ September 2013 through June 2016  
*High Probability Excavation (Shelter-in-Place program ended May 27)*
- ✓ Summer 2016  
*Tent Demobilization & Site Preparation for Final Low Probability Excavation*



➡ **September 2016 through Winter 2017/18**  
*Final Low Probability Excavation*

**Spring 2018**  
*Site Restoration*



# SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

23



## *Community Items*



# SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

## Reminders:

- The next RAB meeting will be Tuesday, **September 12<sup>th</sup>**

## Upcoming Agenda Items:

- **Suggestions?**
- Summary of work at 4835 Glenbrook Rd.



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# SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

## Public Comments

## Wrap-Up



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**U.S. Army Corps of Engineers  
Spring Valley Restoration Advisory Board  
St. David's Episcopal Church  
Minutes of the July 2017 Meeting**

<b>RESTORATION ADVISORY BOARD MEMBERS PRESENT AT THIS MEETING</b>	
Brenda Barber	Served as Military Co-Chair/USACE, Spring Valley Project Manager
Greg Beumel	Community Co-Chair
Alma Gates	At Large Representative - Horace Mann Elementary School
John Wheeler	Community Member
James Sweeney	Agency Representative - Department of Energy & Environment
Mary Bresnahan	Community Member
Tom Smith	Community Member
Ralph Cantral	Community Member
Dr. Peter deFur (represented by Laura Williams)	Environmental Stewardship Concepts/RAB TAPP Consultant
Lee Monsein	Community Member
George Vassiliou	Community Member
<b>RESTORATION ADVISORY BOARD MEMBERS NOT PRESENT AT THIS MEETING</b>	
Dan Noble	Military Co-Chair/USACE, Spring Valley MMRP Manager
Linda Argo	At Large Representative - American University
Steve Hirsh	Agency Representative - US Environmental Protection Agency, Region III
Lawrence Miller	Community Member
Malcolm Pritzker	Community Member
Kathleen Connell	Community Member
William Krebs	Community Member
Paul Dueffert	Community Member
Mary Douglas	Community Member
<b>ATTENDING PROJECT PERSONNEL</b>	
Alex Zahl	USACE, Spring Valley Technical Manager
Rebecca Yahiel	Spring Valley Community Outreach Program

Carrie Johnston	Spring Valley Community Outreach Program
Holly Hostetler	ERT, Inc.
Chris Gardner	USACE, Corporate Communications Office

### **HANDOUTS FROM THE MEETING**

- I. Final Agenda for the July 11, 2017 RAB Meeting
- II. Army Corps of Engineers Presentation
- III. June 2017 Monthly Project Summary

## **AGENDA**

**Starting Time:** The July 2017 Restoration Advisory Board (RAB) meeting began at 7:07 PM.

### **I. Administrative Items**

#### **A. Co-Chair Updates**

Brenda Barber, Spring Valley Project Manager and serving as Military Co-Chair, welcomed everyone and opened the meeting. She noted that this July 2017 marks the 100 year anniversary of the establishment of the American University Experiment Station (AUES). The AUES came to the American University (AU) campus in July 1917 under the Department of the Interior; and was switched over to a full military operation in the summer of 1918.

Question from John Wheeler, Community Member - What were the Department of the Interior experiments?

B. Barber explained that the AUES was originally under the Department of the Interior because of the gas masks and the Department of Mines.

Question from Davis Kennedy, Northwest Current Reporter - That was in 1918?

B. Barber explained that the full military operation begun in 1918.

B. Barber reviewed the agenda including the Groundwater Study, Site-Wide Decision Document, and 4825 Glenbrook Road.

Question from Allen Hengst, Audience Member - You did mention on May 12 in a written update that you would be briefing the entire RAB on your discussion with the workers after the last meeting?

B. Barber confirmed that there will be a brief update as part of the 4825 Glenbrook Road update.

B. Barber invited James Sweeney, Agency Representative - Department of Energy & Environment (DOEE) to comment on the passing of Richard Albright since the last RAB meeting. J. Sweeney explained that Richard Albright, for many reasons, is the reason the RAB was formed. DOEE hired R. Albright in June, 1995; the same week that USACE previously signed off on a 'no further action recommended' decision in Spring Valley. R. Albright spent the next year reviewing all of the Spring Valley related documents that were housed at the Palisades library at the time. R. Albright then wrote a report in late 1996 that stated that DOEE believed there were burials and chemical contamination still located in Spring Valley. In early 1997, R. Albright met with USACE

and EPA and presented 37 issues in that report. In early 1998 USACE agreed that there may have been a mistake concerning the location of one point of interest. Another year was spent deciding how to investigate the issues. In early 1999, on the first day of the investigation, someone put a shovel into the ground and found a 75mm shell buried ~6 inches under the ground. The hole was excavated to 19 feet deep and ~30 feet across, where hundreds of pieces of laboratory equipment were found. Arsenic was accidentally found at the child development center on AU's campus. Eventually, every property in Spring Valley was sampled. R. Albright passed away last month from kidney cancer. A celebration of his life was held at a house R. Albright built in Grasonville, MD near St. Michaels. R. Albright was an interesting and smart guy, who held a law degree, P.H.D, and Masters in Environmental Science. R. Albright will be missed.

Question from A. Hengst, Audience Member - His extensive files, do they belong to DOEE?

J. Sweeney explained that R. Albright kept his files at home. R. Albright did not create a lot of files, except for the data in his books. Half of the first book R. Albright wrote concerned Spring Valley. R. Albright's other books include one on perchlorates and another on underwater munitions.

Comment from A. Hengst, Audience Member - I highly recommend the 13<sup>th</sup> chapter of his book on burial pits yet to be found in Spring Valley. It has got quite a few that are not on the official list.

## **1. Introductions**

B. Barber introduced Officer Tony McElwee of the District of Columbia Metropolitan Police Department (MPD) 2nd District. Officer T. McElwee offered to answer any questions or address any concerns of the RAB. He noted that he will attend the September 12 RAB meeting. He thanked the group for having him and turned the meeting back over to B. Barber.

## **2. General Announcements**

B. Barber reviewed website updates which included the May and June monthly project update, the weekly 4825 Glenbrook Road updates and photos, May RAB meeting minutes, April Partner Meeting Minutes, and the final Site-Wide Decision Document (DD). The meeting minutes from the June RAB conference call will be posted soon.

## **B. Task Group Updates**

No task group updates were presented.

## **II. USACE Program Updates**

### **A. Site-Wide Decision Document**

B. Barber briefly reviewed the Site-Wide Decision Document (DD).

Since the last RAB meeting, the Site-Wide DD was finalized and signed on June 15 by a major general on behalf of USACE's Chief of Engineering at Headquarters. A hard copy version of the Site-Wide DD is available at the repository at the Tenley-Friendship Library. Next steps include the Remedial Design (RD) and carrying out the selected remedial alternatives within the site. USACE awarded the Site-Wide Remedial Action contract to Weston Solutions, Inc. on June 30, and held an initial kick-off meeting.

### **1. Site-Wide Tentative Schedule**

- June 15, 2017 - Signed the Decision Document
- June 30, 2017 - Contract acquisition work awarded.
- July 2017 - Begin Remedial Design
- ~Fall/Winter 2017-2020 - Conduct Remedial Action field work.

USACE still anticipates a 3-year completion time frame, depending on cooperation of homeowners and operations in the neighborhood. About 18 home owners have been identified for the first group designated for remedial action in the community.

Question from Tom Smith, Community Member - How did you choose the 18 homeowners?

B. Barber explained the 18 homeowners were the first to come forward. Rights-of Entry (ROEs) will need to be worked out with all of the homeowners, and then USACE may schedule the remedial work with those homeowners.

Question from Mary Bresnahan, Community Member - What is the total number that will have that action?

B. Barber explained that 93 properties will need to be investigated. Assurance letters have been sent to the three homeowners involved in the Pilot Project, stating that those properties are complete. Some fine details may need to be worked out with the three Pilot Project homeowners, but overall the project went well.

Question from M. Bresnahan, Community Member - I know there were some bad feelings back there a little while ago when all this happened, and they were going to have extra stuff done. Are they feeling a lot better about it now?

Alex Zahl, USACE, Spring Valley Technical Manager explained that he believed USACE had very good cooperation with the three homeowners involved in the Pilot Project. USACE made every effort to minimize the impact to the properties and replaced all damaged or removed plants. His understanding was that the homeowners were satisfied and positive about the outcome. Each homeowner received an assurance letter stating that their property had been remediated as required under the Site-Wide DD.

Comment from Mary Bresnahan, Community Member - One of the reasons I was asking questions is because as you know there has been a lot of discussion about real estate. Some folks just do not seem to believe it when I say that houses are really selling in Spring Valley.

B. Barber explained that within a three to four month time window for the Pilot Project, depending on the extent of the work at each individual house, the teams were able to move in, perform the remedial action required, and restore the property. There were some minor delays if there was a driveway or sidewalk that took more time to finish. If USACE can establish a collaborative and cooperative relationship with the homeowners, USACE could move fairly quickly through the remaining properties.

Comment from Mary Bresnahan, Community Member - Well, I am hearing very positive things about all of you. I really am, and so I think that you need to be aware of it.

B. Barber thanked M. Bresnahan for her comments.

A. Zahl added that he appreciated hearing M. Bresnahan's comments. He explained that USACE has a very strong community outreach team. USACE recognizes that the work disrupts the homeowners' day-to-day lives and USACE takes that very seriously. USACE makes every effort



to minimize the disruption as much as possible.

Comment from Mary Bresnahan, Community Member - Well, it is working, it really is.

A. Zahl replied that was good to hear.

Question from D. Kennedy, Northwest Current Reporter - Could you give a very brief description of what the remedial work would be at one of the houses?

A. Zahl explained that for the 93 houses, a landscape survey is performed to determine the value of the plants on each property and what would have to be removed in order to bring in geophysical equipment for the ground survey. The agreed upon plants are removed, and then an initial dynamic survey is conducted that locates all metallic anomalies. The anomalies are then analyzed to determine if the anomalies are potential munitions. The Pilot Project confirmed that the two new testing devices will allow the teams to determine if the anomalies are tin cans, rebar, or possible munition items or munition debris items. The same devices are then brought back to perform a cued survey, in which the instruments hover over each cued item for ~one minute. The devices calculate the data and create an excavation list. Only the potential munition items would be excavated. Once the dynamic survey and cued survey are complete, Unexploded Ordnance (UXO) teams perform the removal of any anomalies that have any possibility of being a dangerous item. Once all of the items are removed, the landscaping is restored and the homeowner receives an assurance letter stating that the property has been remediated to the requirements of the Site-Wide DD.

Question from D. Kennedy, Northwest Current Reporter - About how long does this process take?

A. Zahl explained that the time frame depends on USACE's ability to obtain ROEs and the different areas of concern on each of the individual properties. Some homeowners may be reluctant to have certain areas of their property disturbed. Each property will take an estimated three to four months to complete. He believed that estimate would lower to three months per property as the teams become more experienced with the properties involved.

## **2. Public Safety Building**

At the May RAB meeting, USACE announced that AU had notified USACE of AU's intention to demolish the Public Safety Building (PSB). AU has now demolished the PSB. USACE requested that AU leave the slab and any exterior walls that may have come into contact with the soils intact to minimize any intrusive work. AU has complied with that request. USACE is in the process of confirming that AU has completely relocated and locked out all of the utilities that were associated with the PSB. One of the first priorities of newly awarded Weston Solutions will be to begin workplans to implement a low probability removal action to remove the slab, walls, and any soils underneath that may be impacted by the AUES work.

Question from T. Smith, Community Member - Will the work that Weston does with this building affect the timeline for the private homes that need to be remediated?

B. Barber explained that the work on the former PSB will be concurrent with the private homes. The PSB, the chemical contamination on the southern portion of AU campus, and the one private residence were items to which USACE requested Weston Solutions assign a team. The 93 properties are a separate component. USACE made sure that the work within the community would not be impacted by the work on AU campus. There may be multiple teams moving contamination and addressing remedial action in the community at the same time. If all goes as

planned, USACE anticipates being out in the field at the PSB in late 2017 or the early part of 2018.

Question from John Wheeler, Community Member - You said Weston has been asked to do a removal action here, but do you mean remedial action?

B. Barber confirmed this.

Comment from John Wheeler, Community Member - That is what I thought. Just about everything that has been done for the past many years have been removal actions. We are finally getting into the remedial actions.

B. Barber explained that this will be a final remedy. Once the contamination has been removed, very similar to 4825 Glenbrook Road, the property will be returned to AU and be available to be utilized in any future campus planning that AU might undertake.

Question from A. Hengst, Audience Member - How deeply below the ground surface do you think they will have to go before they say it is all clear?

B. Barber explained that USACE will develop a workplan similar to the workplan for 4825 Glenbrook Road. USACE will follow the Site-Wide DD when creating the workplan. Depth established at Lot 18 and the other work that was performed at the PSB will be indicators of USACE's anticipated depth. At the end, when USACE hits what is deemed to be the end of excavation, USACE will conduct surveying and sampling consistent with what has been done in other areas so USACE may document what was accomplished in that particular location.

Question from A. Hengst, Audience Member - Just as a ballpark, 10 feet?

B. Barber confirmed the depth would be ~10 to 12 feet.

Question from Gerry Barton, Audience Member - Tent and all the other equipment, or just go in and take it out?

B. Barber explained that this will be a low probability operation similar to current operations at 4825 Glenbrook Road. The site will be open air. USACE will have contingency plans should the teams encounter something. Plans will be in place to quickly mobilize and address the site differently if necessary.

## **B. Groundwater Feasibility Study**

At the last RAB meeting, Bill Eaton, AECOM, presented a brief summary of the conclusions of the Groundwater Remedial Investigation (RI) and recommendation of the Groundwater FS. USACE has received comments on the Groundwater Feasibility Study (FS) from all of the Partners. USACE is in the process of responding to the comments and will hold a meeting with the Partners to finalize the FS document. USACE anticipates the Groundwater FS will be finalized in late summer. Once the Groundwater FS is complete, USACE will begin to develop the Groundwater Proposed Plan (PP) and will hold a public meeting on the Groundwater PP, likely to be scheduled in early winter of 2018. Then the Groundwater Decision Document (DD) will be created in the summer of 2018 to choose whichever remedial actions are necessary.

## **C. 4825 Glenbrook Road**

Soil excavation work continued in the footprint of the former driveway of 4825 Glenbrook Road, along the shared property line between 4825 Glenbrook Road and 4835 Glenbrook Road. Work moved to the back corner of the property briefly while there was a slight pause at the site. Some

debris was found in that area as well. Contingency plans are now in place for the low level contaminated soils and debris.

In early June, work resumed at the property line at the site. The teams have been actively working along the shared property line and continue to find pockets of AUES glassware and debris as well as soils containing low levels of chemical agent. The teams must excavate by hand because of the debris and numerous utilities that are intertwined along the shared property line. This hand excavation is very time-consuming and causes an impact to productivity at the site.

One excavation team works at a time and there are 2 additional teams on stand-by. New equipment has been added for contingency operations for Level C and Level B Personal Protective Equipment (PPE). There is a redress tent and personnel decontamination station should the teams need to upgrade the PPE equipment at the site, which the crews are utilizing to get dressed as necessary. There are three excavation teams, each team replacing the last in the excavation area. Because of the summer heat, the excavation teams have been in Modified Level D, which consists of jeans and t-shirt covered by a paper Tyvek suit with booties and gloves. The teams average ~15 minutes an hour per team, resulting in an average of ~45 minutes of productivity every hour before all of the teams need a break. USACE strives to be as productive as possible while maintaining the safety of employees and crew at the site.

If the Miniature Chemical Agent Monitoring System (MINICAMS) were to ring off, the Modified Level D team would exit the excavation area and a team would go in, dressed in Level C PPE, which is a chemical Tyvek suit with a full face respirator. The Level C team would continue to work in that area until they reach the 15 minute break time.

To date, over 119 lbs. of AUES glassware and debris have been recovered in Area B. All of the glassware has cleared headspace and there have been no detections of chemical agents or industrial compounds in the air since work resumed in early June.

When possible, USACE utilizes mechanical excavators at the site. The excavator was used to pull all of the brick facing off of the retaining wall that formerly separated 4825 Glenbrook Road and 4835 Glenbrook Road along the driveway, exposing the concrete behind the facing, which the teams removed as well.

The teams continue to sift all soils and properly place those soils into drums for future disposal. In the area behind the former retaining wall, the teams were able mechanically excavate the first four feet of clean backfill soil from the previous arsenic removal action. After removing the clean backfill, the teams began to encounter AUES debris again, at which point the teams resumed hand excavation. Using the mechanical excavator facilitated progress at the site and exposed the retaining wall for removal.

A concrete saw was used to cut the concrete retaining wall into manageable squares and rectangles. The sections could then be pulled away from the retaining wall, which minimized the jackhammering, vibration, and noise typically generated for nearby residents. The teams are very careful around the utilities at 4835 Glenbrook Road while removing the concrete in order to prevent the home from being impacted in a negative manner.

Any concrete that was in direct contact with contaminated soils has to be rubbleized in order to be put into drums for shipment to the incinerator. Any soils that were not impacted by contamination or associated with AUES debris are put into larger roll-offs for shipment. The teams watch for any issues with the soils during loading.

## 1. Future Activities

- Finish the low probability excavation work remaining at the site.
- Restoration effort in coordination with the property owner.
- Once 4825 Glenbrook Rd and 4835 Glenbrook Rd are restored, restoration activities will begin at 4801 Glenbrook Rd. USACE holds a Right-of-Entry for a small ~10 foot section on that property. The fence line will have to be moved back and that portion of the property restored.
- Issue a Site Closure Report for 4825 Glenbrook Rd.

## 2. Tentative schedule

There will be a six to eight month delay in the completion of this project due to the ongoing debris along the shared property line, coupled with the heat and hand excavation in that area.

- Complete low probability in winter of 2017/early 2018.
- Site restoration completed by the spring of 2018.

Question from T. Smith, Community Member - Has there been any discussion yet with AU about what constitutes site restoration?

B. Barber explained that USACE is talking with AU about site restoration. With the change in AU leadership, there is a change in the direction of the plan to restore the property. USACE is attempting to contact the landscape architect to plan a site visit in the next week. AU will likely expand the backyard property to wrap around 4835 Glenbrook Road for a backyard entertainment area for the residents at 4835 Glenbrook Road. B. Barber understands that AU plans to do some extensive landscaping and other activities, so the property will no longer be a grass lot. USACE will restore the property to a certain point and then hand off to AU. USACE will not perform landscaping or build retaining walls; those items will be strictly be at AU's discretion.

Question from T. Smith, Community Member - How does it work with the money? Is there a limit to how much USACE spends to restore it?

B. Barber explained that AU has been completely compensated for the home and for the landscaping that was left on the property, including all of the hardscapes; retaining walls, driveway, sidewalks, and patios. If AU chooses to replace those types of features, AU will have to do that work. USACE may regrade the site to accommodate what AU envisions for the site, but USACE will not be doing any landscaping or other work on AU's behalf. AU expressed the desire to perform some utility work on the property, so after the shared property line is cleared USACE is willing to leave the property open on a weekend for AU to complete that work.

Question from T. Smith, Community Member - Is that house occupied?

B. Barber explained that the house is not occupied at present.

Question from D. Kennedy, Northwest Current Reporter - Is there a chance that neighboring house will have to have some heavy work done and possibly be destroyed?

Question from B. Barber, Spring Valley Project Manager - With respect to the utilities?

Question from D. Kennedy, Northwest Current Reporter - No, is there any reasonable chance that there is anything dangerous?

B. Barber explained that at this point USACE does not anticipate conducting any additional work

at 4835 Glenbrook Road. Work is being conducted on 4835 Glenbrook Road at this time because of excavation work along the shared property line. There are a few spots in the front yard that failed confirmation sampling, so additional excavation will be conducted in the front yard. USACE's intent is to halt excavation efforts at the limit of the property, which is ~eight feet onto 4835 Glenbrook Road.

Question from D. Kennedy, Northwest Current Reporter - So there is some work in the front yard?

B. Barber confirmed this.

Question from M. Bresnahan, Community Member - When did the property become vacant?

B. Barber explained that the last occupant moved out in late May at the end of his contract. AU is in the process of transitioning the new occupant.

Question from M. Bresnahan, Community Member - So it will not be vacant long, is what you are saying?

B. Barber confirmed this and explained she understands the new occupant wants to be settled before the children start school.

Question from G. Barton, Audience Member - There were people across the street that came here a year ago, maybe more, with kids; who very concerned and wanted some kind of compensation. Are they still in the house or have they moved?

B. Barber explained that they are still living across the street.

Question from G. Barton, Audience Member - Have they been there the whole time?

B. Barber explained that she understood the across the street neighbors rented an apartment for the first two years so the children could go to the apartment during the day, and for the remainder of the time the children have been at home.

Comment from G. Barton, Audience Member - So they are back in. Good to hear.

### **3. Former Workers at Glenbrook Road**

B. Barber provided two updates concerning the former workers at the site who attended the May RAB meeting:

- Per the June conference call with the RAB, USACE officially sent another letter to the Fry family officially requesting the Fry family's attendance at the September RAB meeting. . The Fry family must notify USACE by the end of August if the Fry family plans to attend the September RAB meeting.
- In addition to USACE's investigation, the EPA Criminal Investigative Division also followed up on the Fry family's allegation of possessing a liter bottle of liquid taken from the site at 4835 Glenbrook Road. EPA was not able to corroborate the Fry family's allegations that a bottle was taken.

Comment from A. Hengst, Audience Member - As I recall, you said you had a long productive conversation with the workers after the May RAB meeting and that you would be briefing the RAB on that conversation at this meeting.

B. Barber explained that some of that conversation is impacted now by the Fry family's credibility, since USACE followed up on some of the information that the Fry family provided, and that information was found to be inaccurate. The time and effort expended by USACE, to follow up

on the issues from the Fry family only to find that the allegations were false statements, is not a productive use of the government's assets and is not helping the community with forward progress in any way.

Question from A. Hengst, Audience Member - So it sounds like that update is going to come, not at this meeting, but in the minutes of your conference call that you referred to earlier?

B. Barber explained that there was an update provided to the RAB in June during the conference call.

Comment from A. Hengst, Audience Member - But it was not provided to us, the public.

B. Barber explained that USACE will post the conference call meeting minutes.

Question from A. Hengst, Audience Member - When did you say you were going to post those minutes?

B. Barber explained that the draft version is under review and then will be posted.

Question from A. Hengst, Audience Member - Not too long?

B. Barber explained that minutes would be posted in the next couple weeks. Per the direction of the RAB at that time, USACE has officially invited the Fry family to attend the September RAB meeting. USACE cannot force the Fry family to attend, but if the Fry family chooses, the Fry family is invited to come to the RAB meeting and present the Fry family's recollection of the work they performed at the site.

USACE will provide a historical summary of actions at 4835 Glenbrook Road to the RAB prior to the RAB meeting in September.

### **III. Community Items**

No community items were presented.

## **IV. Open Discussion and Future RAB Agenda Development**

### **A. Upcoming Meeting Topics**

- Groundwater Feasibility Study
- Site-Wide Remedial Design/Remedial Action
- 4825 Glenbrook Road
- Historical Summary of 4835 Glenbrook Road

### **B. Next RAB Meeting:**

Tuesday, September 12, 2017

### **C. Open Discussion**

## **V. Public Comments**

No public comments were presented.

## **VI. Adjourn**

The meeting was adjourned at 7:50 PM.