





SPRING VALLEY FORMERLY USED DEFENSE SITE PROJECT RAB Meeting

May 13, 2014 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

7:10 p.m. II. USACE Program Updates

Site-Wide Human Health Risk Assessment

COPCs (Chemicals of Potential Concern)

Groundwater Study

Sampling Results & Upcoming Effort

MP-5 Location & Installation Progress

Glenbrook Road

8:00 p.m. III. Community Items

8:10 p.m. IV. Open Discussion & Future RAB Agenda Development

Upcoming Meeting Topics:

• (Suggestions?)

Community Relations Plan Update

4825 Glenbrook Road Health Consultation Update (ATSDR)

*Next meeting: July

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

May 13, 2014



"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."

Agenda Review

- Co-Chair Updates
 - > Introductions, Announcements
- * USACE Updates
 - > Site-Wide Human Health Risk Assessment
 - Chemicals of Potential Concern (COPCs)
 - > Groundwater
 - Sampling Results & Upcoming Effort
 - MP-5 Well Location & Installation Progress
 - > Glenbrook Road
- Open Discussion & Agenda Development
- Community Items
- Public Comments





Co-Chair Updates



Introductions



Co-Chair Updates

Announcements

- Possible date change for July RAB meeting
- Website Updates:
 - March & April Monthly Site-Wide Project Update
 - Weekly 4825 Glenbrook Rd Project Updates with photos
 - February Partnering meeting minutes
 - March RAB meeting materials
 - Final Addendum 1 to Final Pre-2005 Human Health Risk Assessment Review
 - Final Spring Valley FUDS Final Site-Wide Human Health Risk Assessment Work Plan



Co-Chair Updates



- Announcements (con't.)
 - Information Repository Additions:
 - Addendum 1 to Final Pre-2005 Human Health Risk Assessment Review
 - Final Spring Valley FUDS Final Site-Wide Human Health Risk Assessment Work Plan

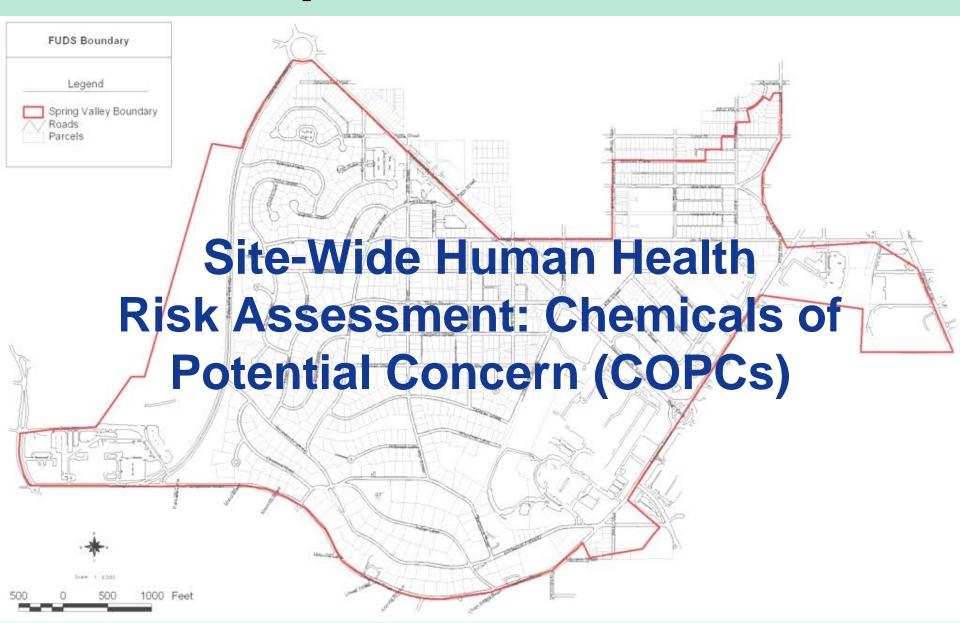


Task Group Updates

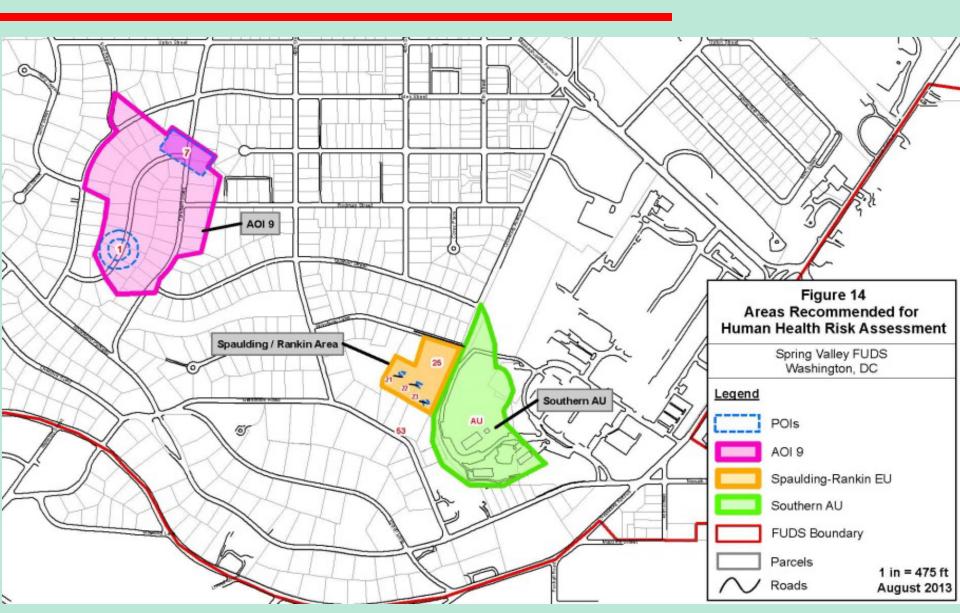




USACE Updates



Spring Valley FUDS Site-Wide Human Health Risk Assessment



Spring Valley FUDS Site-Wide Human Health Risk Assessment

Chemicals of Potential Concern Potentially Posing Risk				
<u>COPC</u>	AOI 9 EU	Spaulding-Rankin EU	Southern AU EU	
Antimony			Yes	
Cobalt	Yes	Yes	Yes	
Benzo(a)anthracene			Yes	
Benzo(b)fluoranthene			Yes	
Benzo(k)flouranthene			Yes	
Indeno(1,2,3-cd) pyrene			Yes	

- ➤ The listed COPCs are the end result of the pre-2005 HHRA review and more recent sampling efforts. Based on these COPCs, it was concluded that full quantitative HHRAs are warranted at these three exposure units (EU).
- > The actual HHRAs for these EUs will be presented in the Site-Wide Remedial Investigation (RI).





FY 2014 Groundwater Monitoring Effort

On March 19, USACE successfully completed its quarterly sampling at two locations: monitoring wells (MW-44, MW-45S&D. and PZ-4 S&D) on the AU campus, and at the Sibley Hospital sump.





> The preliminary sampling results from the December 2013 and March 2014 samplings are currently being reviewed by the Partners.

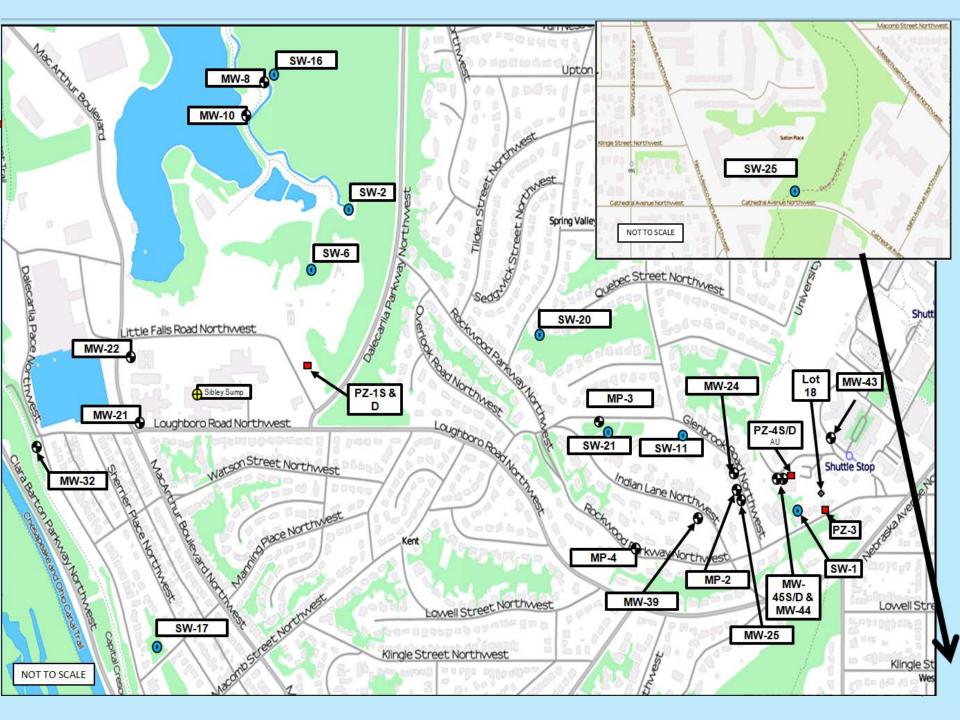


Groundwater Sampling Results

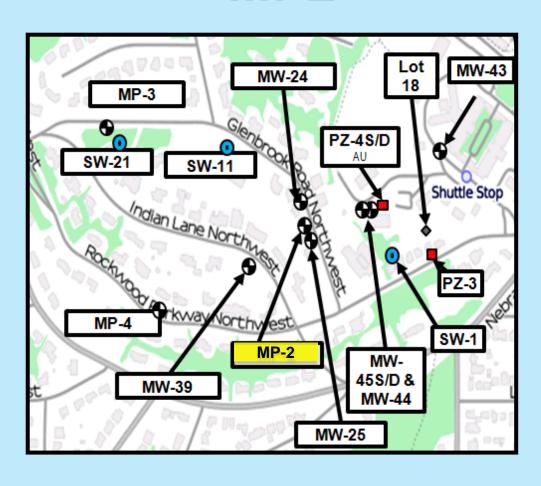
- Summary of December 2013 Semi-Annual Groundwater Sampling Results (from 20 existing monitoring wells, 10 surface water locations)
 - MW-44, PZ-4D, Sibley Sump, and MW-22: Perchlorate concentrations are above drinking water advisory level of 15 parts per billion (ppb)
 - MP2: Arsenic concentrations are above drinking water standard of 10 ppb
- Summary of March 2014 Quarterly Groundwater Sampling Results* (from monitoring wells in front of Kreeger Hall and at the Sibley Hospital sump)
 - MW-44 and PZ-4D: Perchlorate concentrations are above drinking water advisory level of 15 parts per billion (ppb)
 - Arsenic concentrations were all below drinking water standard of 10 ppb



^{*} The March 2014 data is still being validated.



4800 Block of Glenbrook Road MP2



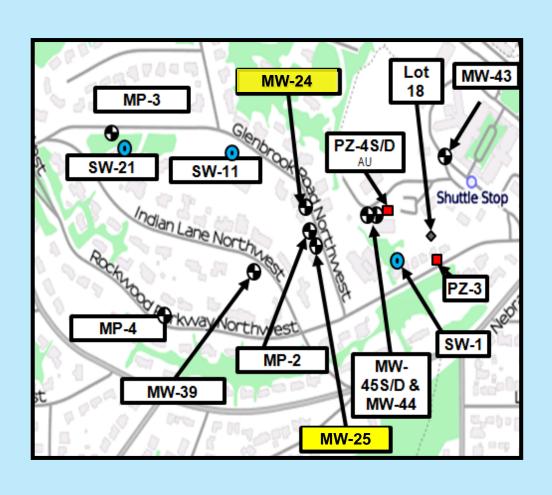
Perchlorate And Arsenic Sampling Results

4800 Block of Glenbrook Rd MP-2

Arsenic MCL = 10 ppb
Perchlorate DWAL = 15 ppb
= exceeds MCL/DWAL

Date Arsenic Perchlorate Date Arsenic Perchlorate 12/11/13 6.6 3.08 12/11/13 10.3 5.07 04/30/13 7.6 5.82 05/13/13 9.1 2.67 07/20/12 8.4 6.3 07/20/12 14 26 05/03/12 7.4 4.5 7/20/12 FD 15 24 03/30/12 7.5 5.8 05/03/12 15 26 3/30/2012 FD 7.6 7 03/30/12 13 24 MP2 -#2 Depth: 49-54 ft MP2 -#6 Depth: 105-114 ft 12 12/11/13 11 0.403 12/11/13 10.2 2.43 12/11/13 12 0.403 12/11/13 10.2 2.43 12/11/13 12.6 9.74 0.7/20/12 16 25 07/20/12 16 12 05/03/12 17 25 05/03/12 15 12 5/3/2012 FD 17 26	MP2 -	- #1 Depth: 35	-44 ft	MP2 -	#5 Depth: 96-	
04/30/13 7.6 5.82 05/13/13 9.1 2.67 07/20/12 8.4 6.3 07/20/12 14 26 05/03/12 7.4 4.5 7/20/12 FD 15 24 03/30/12 7.5 5.8 05/03/12 15 26 3/30/2012 FD 7.6 7 03/30/12 13 24 MP2 -# 2 Depth: 49-54 ft MP2 -# 6 Depth: 105-114 ft 12/11/13 11 0.403 12/11/13 10.2 2.43 12/11/13 FD 7.1 NT 05/13/13 11 9.05 05/13/13 12.6 9.74 07/20/12 16 25 07/20/12 16 12 05/03/12 17 25 05/03/12 15 12 5/3/2012 FD 17 26 03/30/12 15 12 03/30/12 15 27 MP2 - #3 Depth: 56-71 ft MP2 - #7 Depth: 123-129 ft 12/11/13 12 6.89	Date	Arsenic	Perchlorate	Date	Arsenic	Perchlorate
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12/11/13 11 0.403 12/11/13 10.2 2.43 12/11/13 FD 7.1 NT 05/13/13 11 9.05 05/13/13 12.6 9.74 07/20/12 16 25 07/20/12 16 12 05/03/12 17 25 05/03/12 15 12 5/3/2012 FD 17 26 03/30/12 15 12 03/30/12 15 27 MP2 - #3 Depth: 56-71 ft MP2 - #7 Depth: 123-129 ft 12/11/13 15.2 6.89 12/11/13 12 8.18 05/13/13 11 2.57 05/03/13 12 16.6 07/20/12 18 18 07/20/12 16 24	3/30/2012 FD	7.6	7	03/30/12	13	24
12/11/13 FD 7.1 NT 05/13/13 11 9.05 05/13/13 12.6 9.74 07/20/12 16 25 07/20/12 16 12 05/03/12 17 25 05/03/12 15 12 5/3/2012 FD 17 26 03/30/12 15 12 03/30/12 15 27 MP2 - #3 Depth: 56-71 ft MP2 - #7 Depth: 123-129 ft 12/11/13 15.2 6.89 12/11/13 12 8.18 05/13/13 11 2.57 05/03/13 12 16.6 07/20/12 18 18 07/20/12 16 24	MP2 –# 2 Depth: 49-54 ft		MP2 –	#6 Depth: 10 5	5-114 ft	
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12/11/13 15.2 6.89 12/11/13 12 8.18 05/13/13 11 2.57 05/03/13 12 16.6 07/20/12 18 18 07/20/12 16 24	03/30/12	15	12	03/30/12	15	27
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	05/13/13	11	2.57	05/03/13	12	16.6
05/03/12 18 17 05/03/12 17 25	07/20/12	18	18	07/20/12	16	24
	05/03/12	18	17	05/03/12	17	25
03/30/12	03/30/12	15	17	03/30/12	14	20
MP2 – #4 Depth: 73-77 ft MP2 – #8 Depth: 145-160 ft	MP2	- #4 Depth: 7:	3-77 ft	MP2 –	#8 Depth: 14 5	5-160 ft
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05/13/13 9.2 1.57 J 05/13/13 12.6 17.9	05/13/13	9.2	1.57 J	05/13/13	12.6	17.9
07/20/12 12 25 07/20/12 15 25	07/20/12	12	25	07/20/12	15	25
05/03/12 15 25 05/03/12 16 24	05/03/12	15	25	05/03/12	16	24
03/30/12 12 21 03/30/12 14 24	03/30/12	12	21	03/30/12	14	24

4800 Block of Glenbrook Road MW-24 and MW-25



MW- 24				
Date	Arsenic	Perchlorate		
12/12/13	1.8	ND		
12/12/13 FD	1.7	ND		
04/30/13	16.8	ND		
02/06/12	7.9	1.6 J		
11/07/11	3.9	2.4		
08/02/11	4.6	3		
05/17/11	3.7	2.3		
11/02/09	5 J	3.1		
06/13/07	9.3 J	18.5		
07/11/06	10.5	62.6		
12/22/05	10.4	70		

	MW- 25	
Date	Arsenic	Perchlorate
12/11/13	6.7	4.04
04/30/13	4.5	3.12
02/06/12	2.2 J	ND
11/07/11	3	2.5
08/02/11	3	2.8
05/10/11	3.1	2.9
11/03/09	8.4 J	25
11/03/09 FD	8.2 J	23
06/13/07	8.1 J	74.1
07/11/06	9.5 J	124
12/22/05	5 J	60

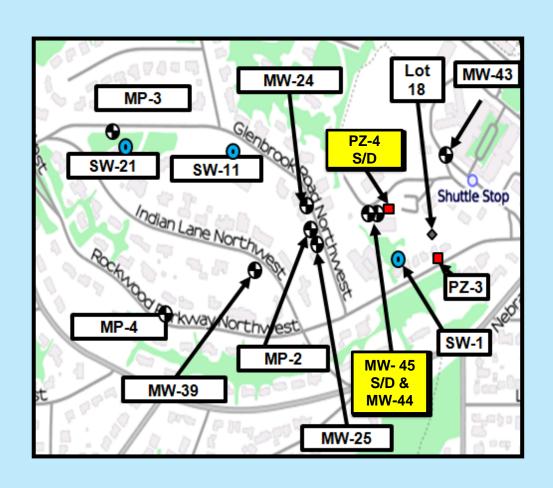
Perchlorate And Arsenic Sampling Results

4800 Block of Glenbrook Rd

MW-24 and MW-25

Arsenic MCL = 10 ppb
Perchlorate DWAL = 15 ppb
= exceeds MCL/DWAL

American University



Perchlorate And Arsenic Sampling Results

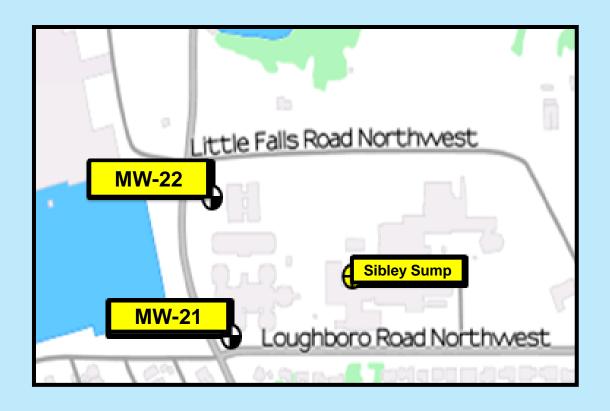
American University

PZ-4S Depth: 27-47 ft		PZ-4D Depth: 52-62 ft			
Date	Arsenic	Perchlorate	Date	Arsenic	Perchlorate
03/20/14	2.8	10.9	03/20/14	3.9	44.5
12/13/13	3.6	6.75	12/13/13	1.8	39.8 D
07/24/13	1.4	ND	07/24/13	1.5	5.59
07/24/13 FD	1.5	ND	05/03/13	NT	NT
05/03/13	0.22 J	5.57	04/09/12	NT	36
02/08/12	2.4 J	28	02/07/12	2.7 J	39
11/09/11	ND	25	11/08/11	ND	45
08/04/11	ND	19	08/05/11	ND	39
07/28/11	NT	18	07/28/11	NT	9.8
05/16/11	2.6 J	30	05/16/11	2.6 J	39
11/10/09	NT	50	11/11/09	NT	41
06/13/07	ND	146	06/13/07	ND	41
07/07/06	ND	71.8	07/07/06	0.6 J	34.7

MW-44 Depth: 80-95 ft				
Date	Arsenic	Perchlorate		
03/20/14	0.69 J	42.3		
03/20/14 FD	0.78 J	40.5		
12/12/13	0.75 J	40.2		
12/12/13 FD	0.85 J	39.8		
04/29/13	0.15 J	40.5		
09/06/12	ND	35		
9/6/12 FD	ND	36		
03/29/12	ND	34		
03/29/12 FD	ND	33		

MW-45S Depth: 119-124 ft				
Date	Arsenic	Perchlorate		
03/20/14	1.2	5.86		
12/13/13	1.5	1.28		
05/03/13	0.53 J	31.1		
05/03/13 FD	0.32 J	30.9		
09/06/12	ND	6		
MW-45D Depth: 147-152 ft				
Date	Arsenic	Perchlorate		
03/20/14	1.3	ND		
12/12/13	1.3	5.3		
12/12/13 FD	1.4	5.26		
05/03/13	ND	54.3		
05/03/13 FD	0.16 J	52.9		
09/06/12	ND	3.6		

Sibley Hospital



Perchlorate And Arsenic Sampling Results

Sibley Hospital

Sibley Sump			
Date	Arsenic	Perchlorate	
03/20/14	3.4	13	
12/12/13	4.5	17.5	
07/24/13	3.8	14.5	
04/30/13	0.73 J	18.5	
02/08/12	5	24	
11/09/11	ND	21	
08/03/11	ND	16	
05/13/11	ND	16	
10/30/09	NT	15	
06/06/07	ND	25.2	
07/12/06	ND	18.5	
08/09/05	NT	24	

MW-21			
Date	Arsenic	Perchlorate	
12/16/13	0.24 J	3.76	
05/01/13	ND	4.53	
02/07/12	ND	5.2	
11/08/11	ND	4.7	
09/01/11	ND	12	
05/13/11	ND	8.3	
11/11/09	NT	19	
06/14/07	ND	43.8	
07/10/06	ND	34.8	
07/10/06 FD	NT	38.2	
12/20/05	NT	48	

MW-22			
Date	Arsenic	Perchlorate	
12/13/13	0.64 J	16.7	
05/01/13	0.078 J	16.4	
02/07/12	ND	13	
11/08/11	ND	12	
08/01/11	ND	13	
05/11/11	ND	10	
10/29/09	NT	13	
06/11/07	ND	7.65	
07/10/06	ND	5.48	
08/10/05	ND	8.92	

FY 2014 Groundwater Monitoring Effort

> On May 6th, MW-23 on 52nd Court was successfully decommissioned:





- > In late May, USACE will be conducting inspections on some existing wells and noting any repairs needed.
- > Preparations have been underway for the next semi-annual groundwater sampling activities. USACE will begin the spring sampling event in June, as part of the extended groundwater monitoring program at 20 existing monitoring wells and 10 surface water locations.

FY 2014 Groundwater Investigation Effort

> Planning continues for the installation of two additional deep wells:



- One well will be placed on Sibley Hospital property.
- For the other well, USACE met with residents, ANC commissioners, RAB members and Congresswoman Eleanor Holmes Norton on April 29th to discuss locations for the proposed well in the vicinity of Rockwood Parkway.



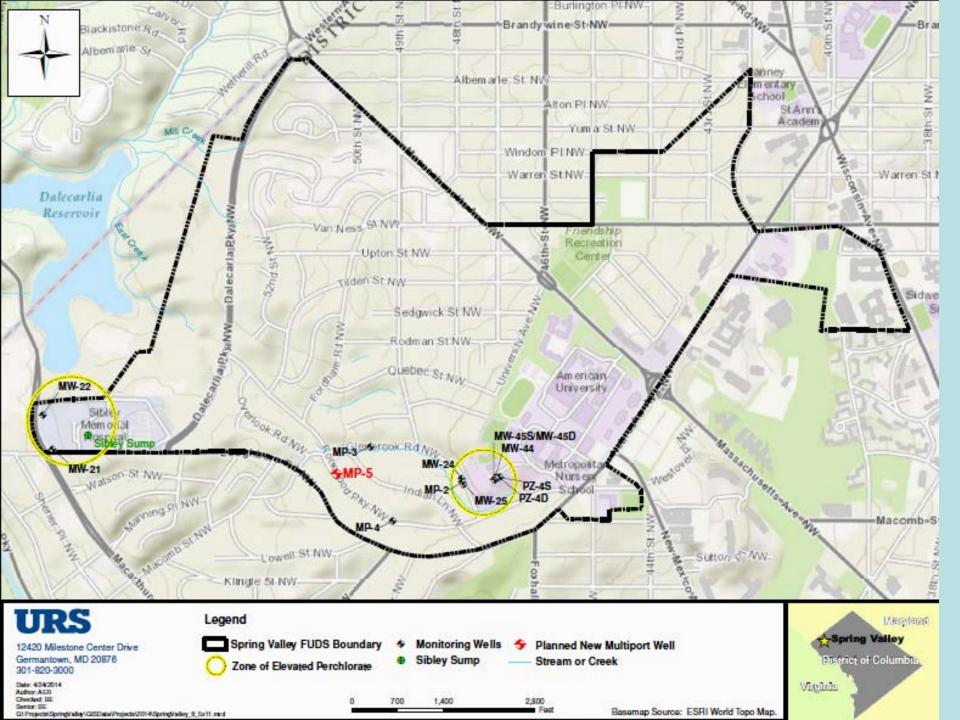
FY 2014 Groundwater Investigation Effort



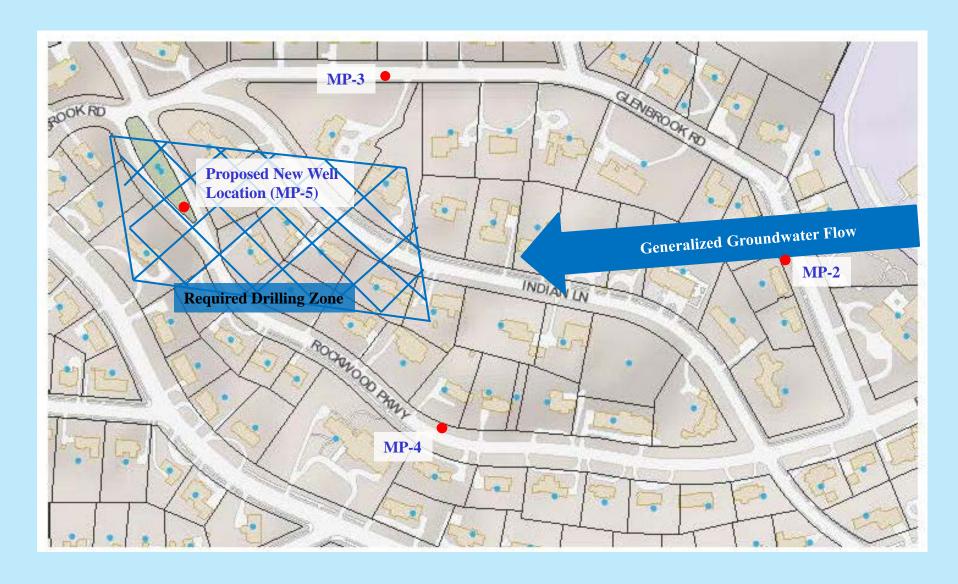


- Spring Valley FUDS Groundwater Study Background
- Purpose of Well
- Well Location Evaluation
- Property Restoration
- Drilling and Restoration Schedule





Proposed New Well Location for MP-5



MP-5 Site



Four Alternatives

- 1. Island of public green space within Rockwood Parkway
- 2. Road
- 3. Public space in front of private properties
- 4. No well



Evaluation of Well Location

- Public space preferred over private residence wherever possible to minimize disturbing private residents.
- Physical limitations for drilling include steep topography, trees, hardscape, underground utilities, overhead tree limbs or electrical lines.
- ➤ USACE evaluated additional alternative MP-5 locations in front of private residences. Examined all 16 properties in the required drilling zone and identified many factors inhibiting drilling options. Public space areas in front of three properties were identified as possible viable alternatives.
 - Approached the residents about potential of installation of MP-5 in front of their properties. None of the property owners were amenable and preferred the well be located in public space not adjacent to a private residence. <u>Alternative 3</u> was eliminated.
- > SVFUDS Partners determined <u>Alternative 4</u> (No well) was not an acceptable option, since data is needed to complete the study.



Rockwood Parkway Island



Alternative 1: Rockwood Parkway Island

Advantages:

- The island is easily accessible for the drill rig, clear of trees
- Clear of visible utilities
- Minimizes traffic hazards from lane closures
- Minimizes public inconvenience of lane closures
- Easy, safe access for workers for future sampling events
- Grass area could be easily restored to similar condition

Disadvantages:

- During Community Outreach efforts, some local residents expressed concern about drilling the well on the Rockwood Island
- Grass area could not be used for approximately one week during well installation

Alternative 2: Place Well in Road

Advantages:

- The road is easily accessible for the drill rig, clear of large trees
- Road can be easily restored with asphalt patch
- No disturbance to Rockwood Island greenspace

> Disadvantages:

- Extensive presence of active and abandoned utilities
- Increased traffic hazards during installation and sampling
- Public inconvenience of road closure during installation and during future sampling events
- Damage to well due to traffic and paving activities



April 29 Meeting Conclusion

Based on this meeting, USACE is looking for another area in public space on Rockwood Parkway or Indian Lane, other than the Rockwood Parkway Island.



4825 Glenbrook Road



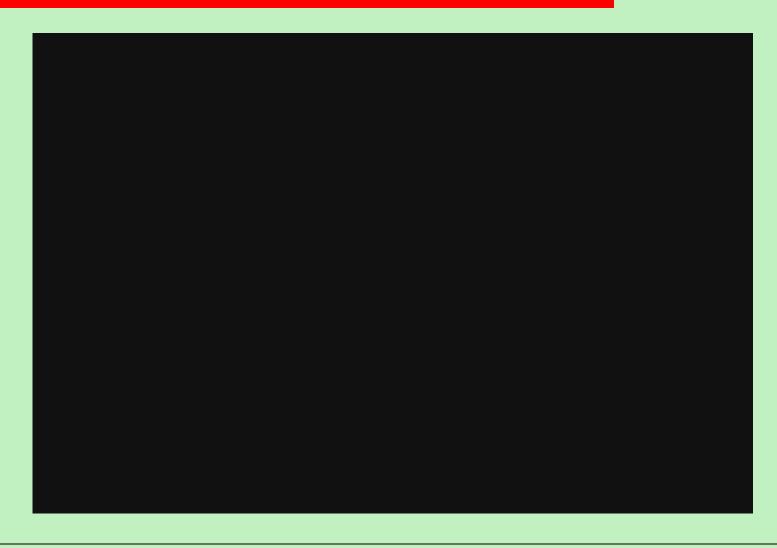
4825 Glenbrook RoadHigh Probability Operations

- ➤ The crews continued hand excavating the area adjacent to the former front porch of the home.
- ➤ We are encountering less debris and have reached competent saprolite in several areas of the debris field.
- > This month we will continue excavations in the front yard.
- > The crews are also installing the needed slope protection to continue digging and to begin to prepare for the next tent move.



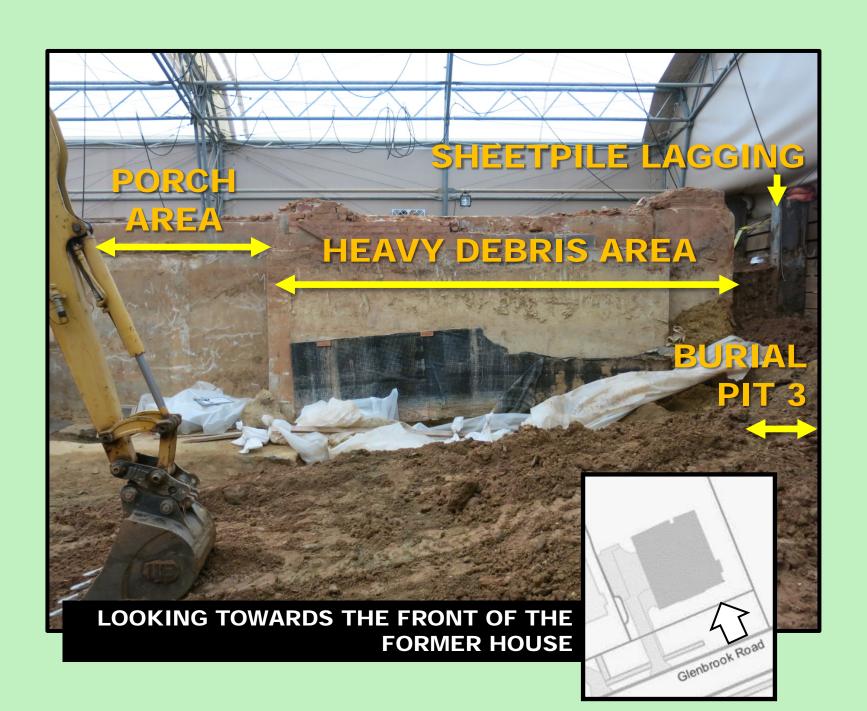


4825 Glenbrook RoadVideo of High Probability Excavation











High Probability Operations Progress









4825 Glenbrook RoadHigh Probability Operations - Findings to Date

➤ The high probability excavation crews have safely recovered the following items: 39 intact containers, five 75mm munitions debris items, one Mk IV adapter/booster, one 75mm shrapnel round with no explosives, one 4.7" projectile with no explosives, and over 530 pounds of broken American University Experiment Station-related glassware. The items were packaged and safely transported to Federal Property.



➤ There have been low level readings for possible lewisite and mustard on the MINICAMS (near real time continuous air monitoring system) at the pre-filter (inlet to the Chemical Agent Filtration System, or CAFS). There continues to be no risk to the public due to these readings. All of our engineering controls are working as designed, with multiple layers of protection. We are continuing to monitor this situation.



➤ We also have had results for a small amount of mustard breakdown products and lewisite in the excavated soil. This soil will be sent to an incinerator for final disposal.



4825 Glenbrook Road MARB Report on 75mm Found January 13

We received the final report from the Materiel Assessment Review Board (MARB) in reference to the 75mm shrapnel round found January 13. A review of the x-rays determined the item contains a 100% solid fill, but there are no explosives.

Further analysis indicated that the item contains a possible magnesium arsenide fill, which is not chemical warfare materiel. However, it is considered a hazardous chemical and will be disposed of accordingly.

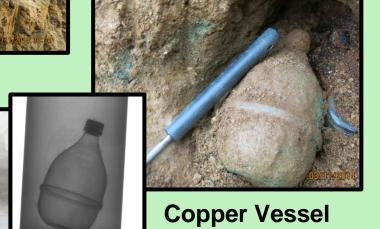
All of our engineering controls are designed to handle this type of chemical.



March 11th Finds

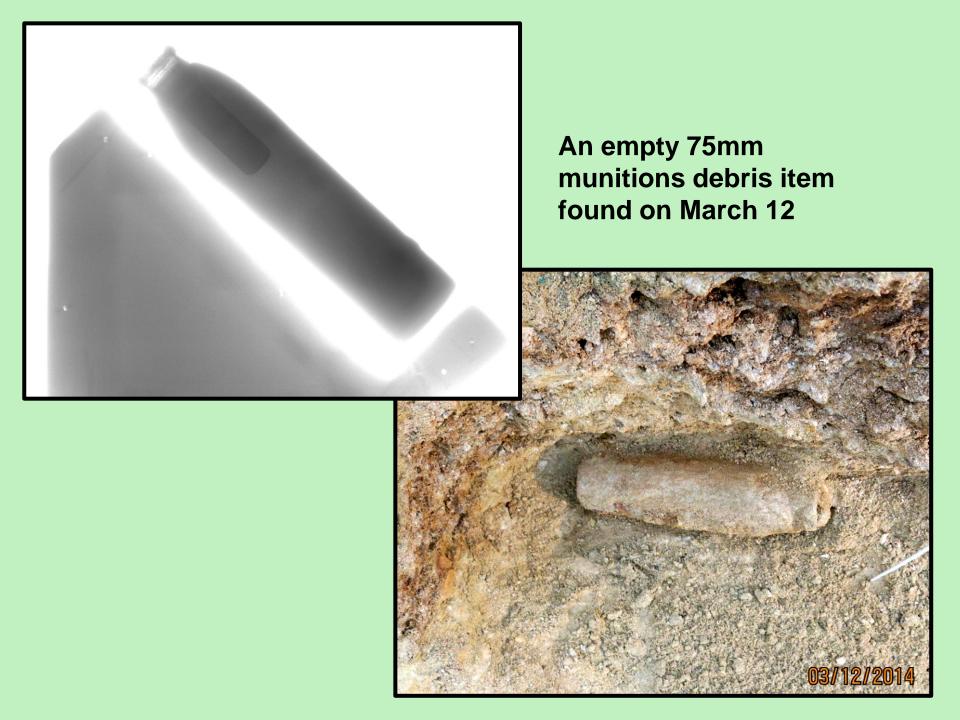






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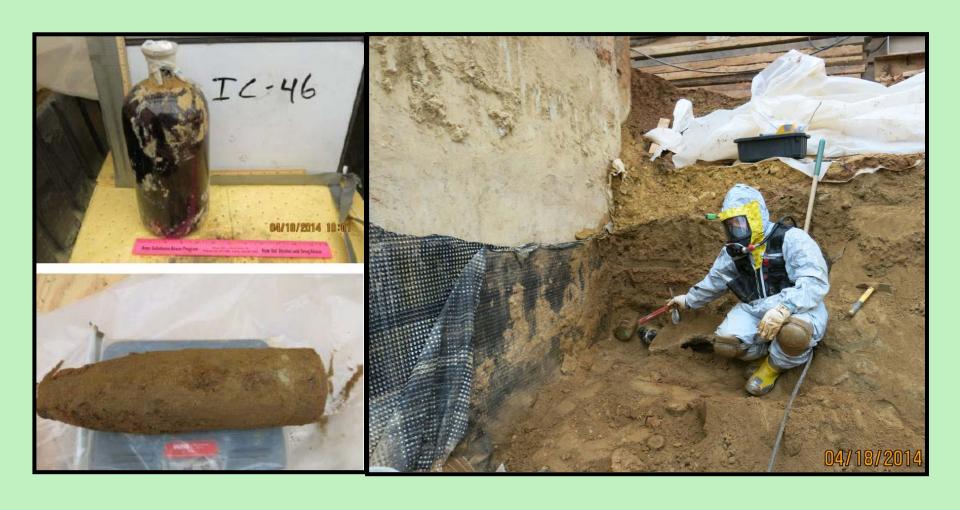


Glass bottle found on March 19





Intact container found on March 27



An empty 4.7" projectile round and a large glass container were found on April 18



Examples of intact containers found February 25 through April 22

4825 Glenbrook Road High Probability Operations



The crews loaded excavated soil, where they were encountering debris, into drums and collected composite samples.

Site crews continue to load soil and debris per the procedures. All items and soils are tested prior to disposal. To date, 45 roll-offs of soil, 360 drums of soil, and 10 roll-offs of rubble have been removed.



4825 Glenbrook Road Schedule Update

✓ December 2012 through May 2013

Site Preparation/Initial Low Probability Work

- > Test pits in backyard and re-locating utilities
- Install soldier piles to support embankments
- ✓ May 2013 through September 2013

 ECS Set Up, High Probability training, and Pre-Operational Exercises
- September 2013 through July 2015 (a 12-week extension)
 High Probability Excavation

August 2015 through October 2015

Final Low Probability Excavation

October 2015 through November 2015

Site Restoration



Spring Valley FUDS Restoration Advisory Board

Community Items



Spring Valley FUDS Restoration Advisory Board



Reminder: Our next meeting will be July 15th

Upcoming Agenda Items

- Suggestions?
- Community Relations Plan Update
- 4825 Glenbrook Road Health Consultation Update (ATSDR) TBD



Spring Valley FUDS Restoration Advisory Board

Public Comments

Wrap-Up

