

SPRING VALLEY FORMERLY USED DEFENSE SITE

Restoration Advisory Board Meeting
NOVEMBER 2020



US Army Corps
of Engineers®



AGENDA REVIEW

Co-Chair Updates

- Website Updates

Task Group Updates

- TAPP Contractor Introduction

USACE Updates

- Annual Project Funding
- Site-Wide Remedial Action
- Glenbrook Road
- Groundwater

Future RAB Agenda Development

- January 12th, 2021 RAB meeting





SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



CO-CHAIR UPDATES

Website Updates





CO-CHAIR UPDATES




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Announcements

--- Next Restoration Advisory Board Meeting - July 14, 2020

Due to health concerns surrounding COVID-19, our May RAB meeting has been cancelled. The presentation for this meeting will be uploaded on the project website. The next RAB meeting will tentatively be held on Tuesday, July 14th at 7 p.m. 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).



Website Updates:

- August, September, and October Monthly Site-Wide Project Updates
- Weekly 4825 Glenbrook Rd Project Updates with photos
- August and October Partner meetings were not held, but project update presentations were posted in lieu of meeting minutes



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



TASK GROUP UPDATES

New TAPP Contractor





TASK GROUP UPDATES



Congratulations and Welcome to the New RAB Technical Assistance for Public Participation (TAPP) Advisor!

- The two year contract for the TAPP advisor Devamita Chattopadhyay, Ph.D. a local Environmental/Chemical Engineer, was awarded in September through Dayton Group, Inc. (DGI).
- USACE and ERT held a brief orientation with Dr. Chattopadhyay ahead of this meeting.

ANNUAL PROJECT FUNDING

USACE Updates



SPRING VALLEY FUDS FUNDING SUMMARY

FY20, Actual Funding (\$10.168 M)

- **Military Munitions Response Program (\$10.046 M)**
 - Site-Wide Remedial Action (\$6.198 M)
 - Conduct Remedial Action at 4825 Glenbrook Road (\$3.613 M)
 - Stakeholder Outreach
 - Site Security
 - PRP Effort

- **Hazardous Toxic Waste (\$0.090 M)**
 - Site-Wide Remedial Action (\$0.000 M)
 - Groundwater RI/FS/PP/DD (\$0.090 M)

- **Technical Assistance for Public Participation (TAPP) (\$0.032 M)**
 - RAB Technical Consultant (\$0.023 M)
 - RAB Cost (\$0.009 M)



SPRING VALLEY FUDS FUNDING SUMMARY

FY21, Projected Funding (\$4.934 M)

- **Military Munitions Response Program (\$4.628 M)**
 - Site-Wide Remedial Action (\$4.251 M)
 - Remedial Action at 4825 Glenbrook Road (\$0.340 M)
 - Stakeholder Outreach
 - Site Security
 - PRP Effort

- **Hazardous Toxic Waste (\$0.256 M)**
 - Site-Wide Remedial Action (\$0.000 M)
 - Groundwater RI/FS/PP/DD (\$0.256 M)

- **Technical Assistance for Public Participation (TAPP) (\$0.050 M)**
 - RAB Technical Consultant (\$0.025)
 - RAB Cost (\$0.025)



SPRING VALLEY FUDS FUNDING SUMMARY

FY	1993	1994	1995	1996	1997	1998	1999	2000
\$\$ in M	11.859	8.861	1.744	0.087	0.292	1.164	8.874	10.892

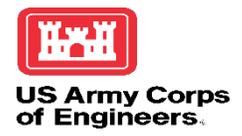
FY	2001	2002	2003	2004	2005	2006	2007	2008 _a
\$\$ in M	9.824	19.819	11.000	11.471	20.362	11.063	13.843	20.871

FY	2009	2010	2011	2012	2013	2014	2015	2016
\$\$ in M	15.700	19.345	17.220	6.501	9.210	33.280	3.561	7.497

FY	2017	2018	2019	2020	2021 _b	2022		
\$\$ in M	13.900	25.228	11.054	10.168	4.934	--		

Spent through FY 2020: \$ 334.690 M

a = FY08 includes \$3.2 M Congressional additional funding
b = Planned funding for FY 21





SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



SITE-WIDE REMEDIAL ACTION (RA)

92 Properties - USACE Updates

The project team continues to implement safety measures in response to COVID-19 including: daily health monitoring of all workers, wearing masks, decontaminating tools, frequent hand washing, and social distancing.



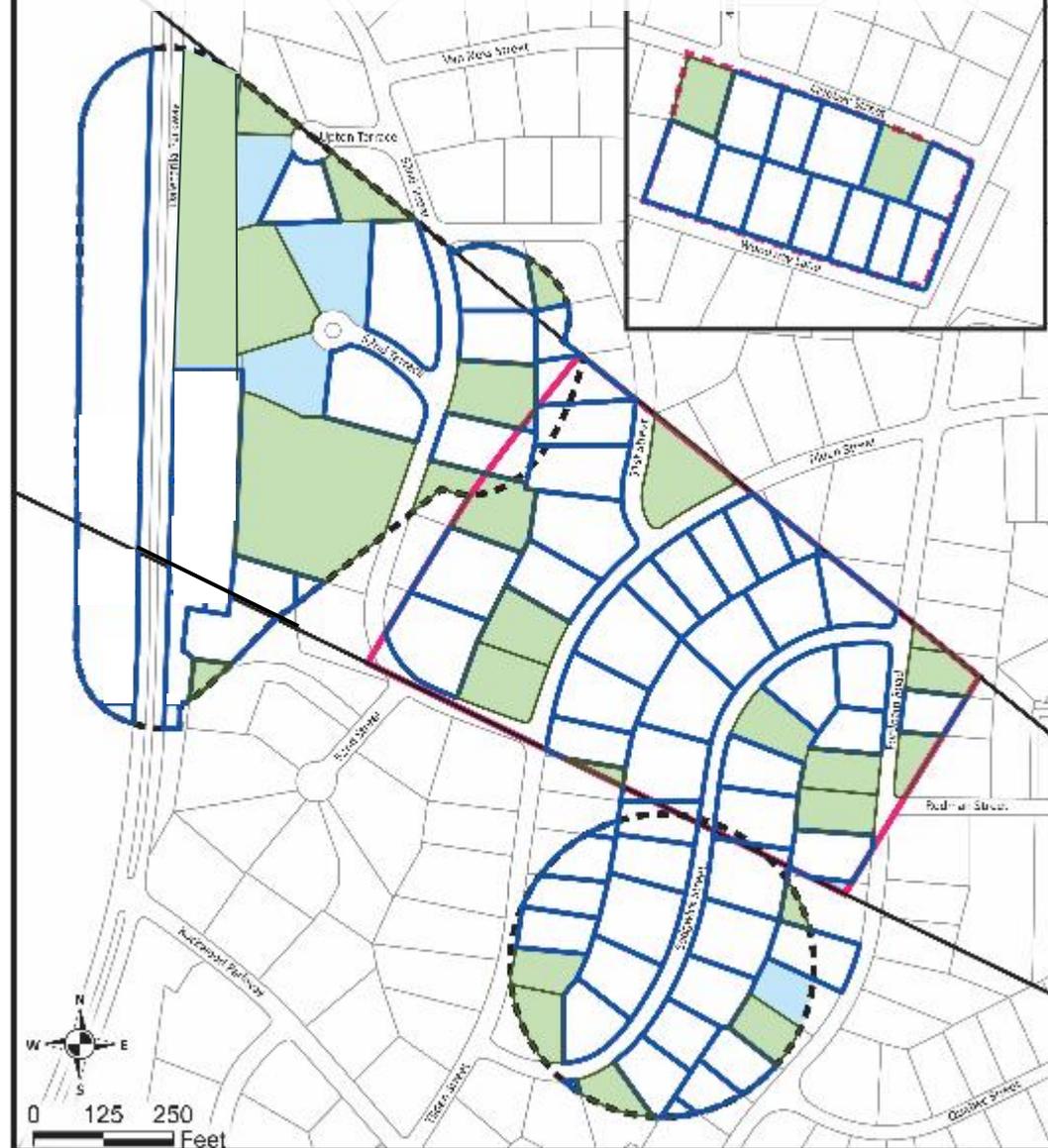


SITE-WIDE REMEDIAL ACTION

Final Survey effort at 92 Residential Properties & 13 Federal/City Lots:

- Currently working on 89 residential properties at different stages of the remedial action process.
- 89 civil surveys and 89 arborist surveys have been completed.
- 89 properties have been visited by the geophysicist team, who provide technical recommendations on plant removal.
- Vegetation has been removed from 78 private properties and 13 City/Fed lots.
- Geophysical surveys completed at 78 private properties and 11 City/Fed lots off Dalecarlia Parkway.
- Anomaly removal completed at 70 private properties and 7 City/Fed lots off Dalecarlia Parkway.
- Issued 43 Assurance Letters.

Planned Remedial Action Area



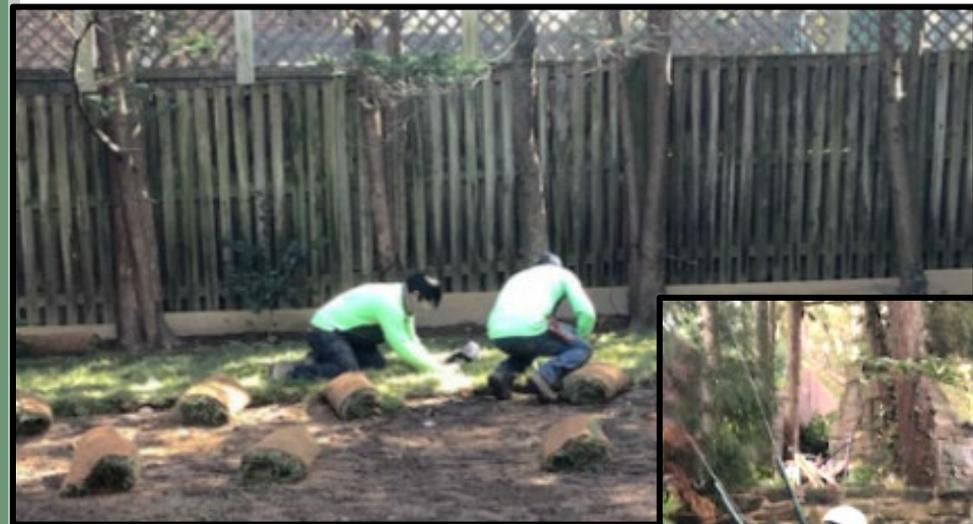
- Future Remedial Action
- Remedial Action work in progress
- Remedial Action Work – No Further Action Required



SITE-WIDE REMEDIAL ACTION

Site restoration conducted at completed properties

After the final Restoration Walk-through with homeowners, the team will begin the reimbursement process, or scheduling property restoration.



The team carefully replacing sod during restoration.



Removing temporary fence to install new fencing during site restoration.



SITE-WIDE REMEDIAL ACTION

Anomaly Excavation Finds

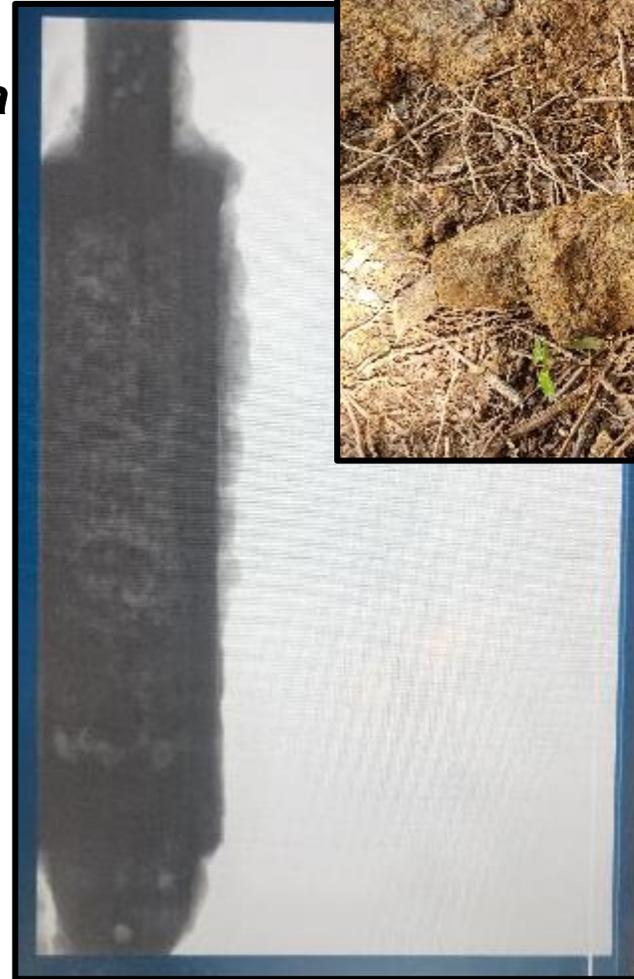


During the intrusive investigations on 16 September, the team encountered an intact 3-inch stokes mortar round on Quebec Street within Area of Interest (AOI) 13.

- The processed survey data classified the 3-inch round as a “target of interest” and it was matched to the ordnance from the site-specific library.
- The Army Corps’ Ordnance and Explosives Safety Specialist and an Explosive Ordnance Disposal (EOD) unit from Joint Base Andrews responded to the site.
- The item was x-rayed in place, examined, and the EOD unit safely transported the item offsite for disposal. The EOD unit reported that the 3” Stokes had a high explosive (HE) filler.



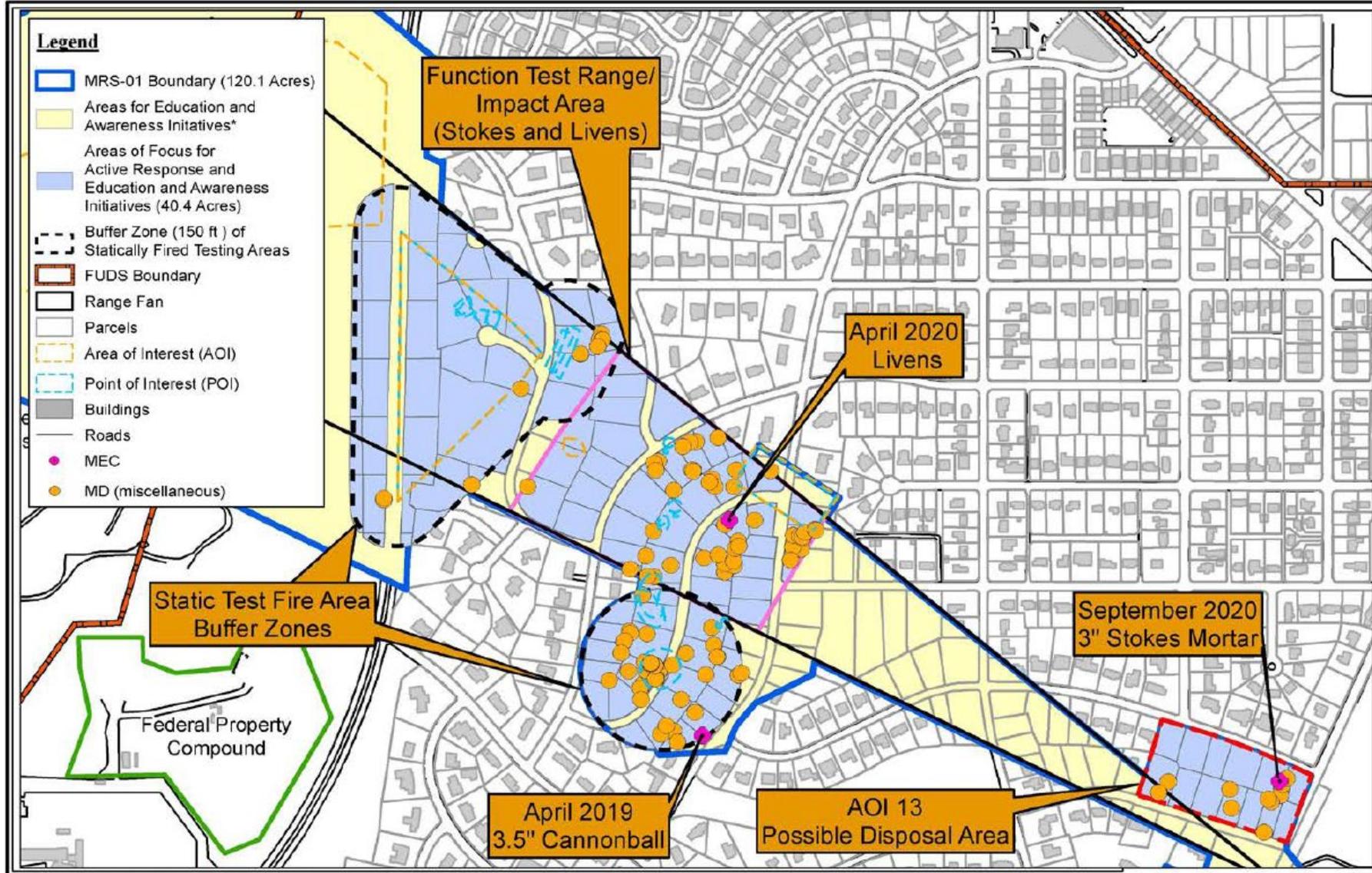
***Recovered
3-inch stokes
mortar round***



X-ray of the mortar round



SITE-WIDE REMEDIAL ACTION RA MEC/MD Finds





SITE-WIDE REMEDIAL ACTION

Tentative Schedule



<p>Fall 2020</p>	<ul style="list-style-type: none">• Continue geophysical surveys.• Continue anomaly removal efforts.• Continue obtaining Rights-of-Entry from the next group of homeowners.
<p>Winter 2020/21</p>	<ul style="list-style-type: none">• Finalize plant removal plans with the last groups of homeowners and conduct plant removal at private properties in preparation for geophysical surveys.• Begin subsequent round of geophysical surveys.• Complete subsequent round of anomaly removal efforts.



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



SITE-WIDE REMEDIAL ACTION (RA)

Public Safety Building (PSB) - USACE Updates





SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

- The team completed digging test pits at the site which helped determine the final excavation boundaries for the for PSB, as well as to conduct confirmation soil sampling.
- Excavation to these final boundaries were initiated in October to depths up to 8 feet below slab grade.
- All excavated material is transferred to the sorting table, processed, and transferred off-site for analysis and disposal. The team continues to encounter lab-grade glassware

Grid Cell F-5 excavated to 8 feet below slab grade



Excavated material from Grid Cell F-5 on soil sorting table





SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

- Once excavation is completed within a grid cell, the team reviews the data to confirm the excavation floor and soil meets the cleanup criteria.
- After this is confirmed, backfilling activities are conducted in the grid cell. This includes non-woven geotextile, No. 2 stone, and imported granular fill.
- Bin blocks are installed around the borders of the grid cell to contain the layers of fill. Once the fill is in place and compacted using a remote-control vibratory drum compactor, the blocks are removed.



No. 2 stone filled on top of geotextile during backfilling activities in Grid cell F5



Remote-control vibratory drum compactor





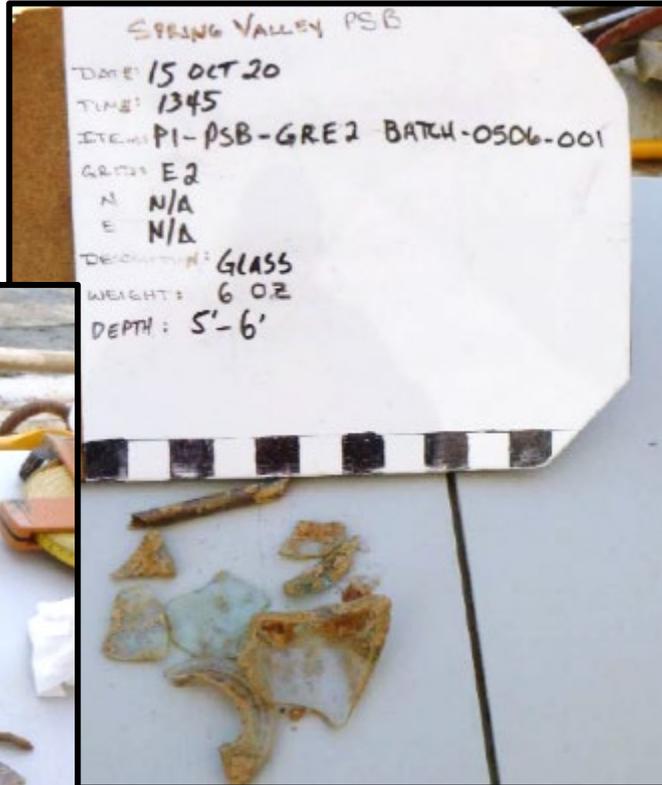
SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

Recovered debris excavated at the former PSB site



Batch glass collected at 4-5 feet Grid Cell E-2



Batch glass collected at 5-6 feet Grid Cell E-2

Batch glass collected at 3-4 feet Grid Cell E-3



Batch glass collected at 4 to 5 feet Grid Cell F-2



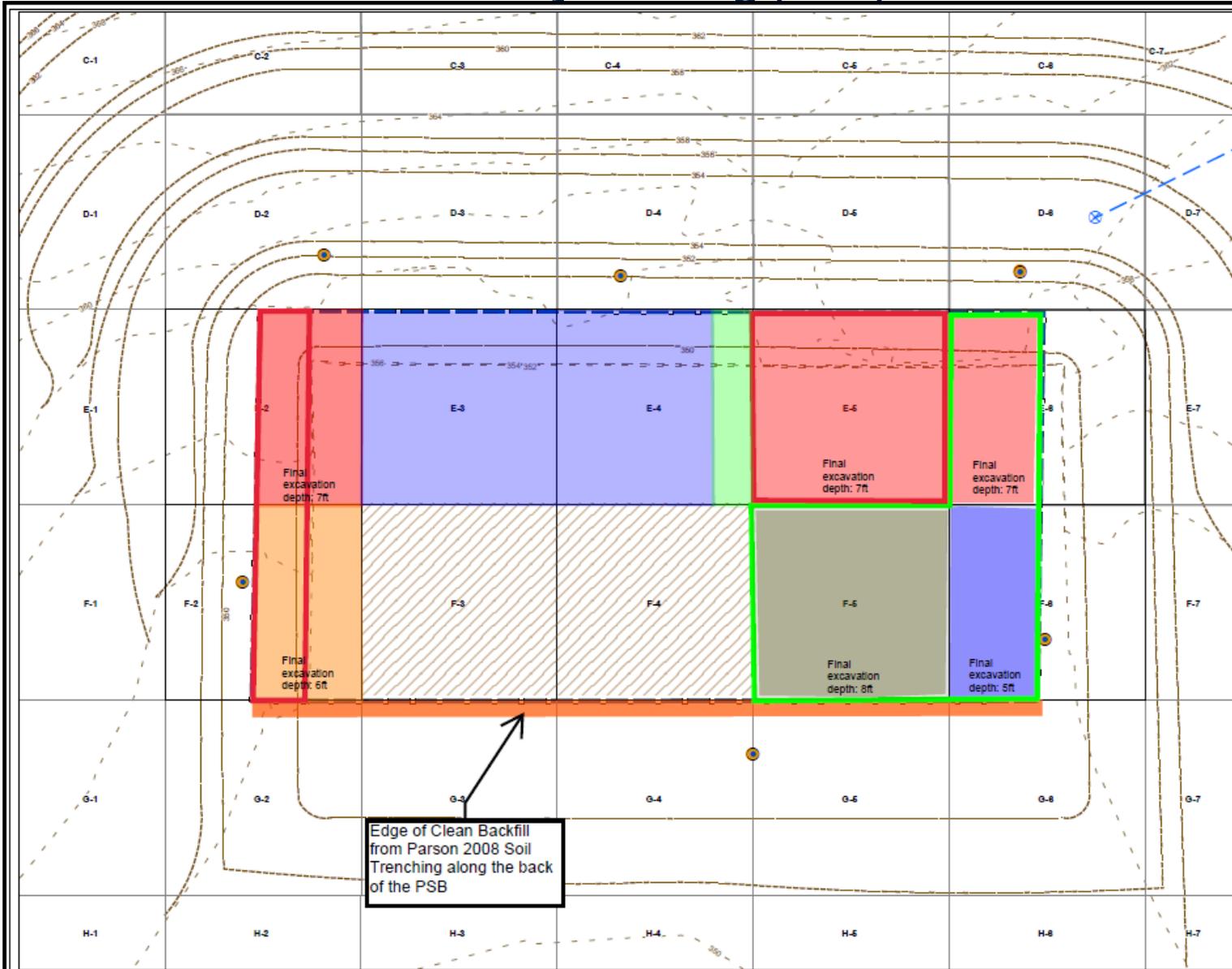
SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)



Legend

- Public Safety Building Foundation Boundary
- Grids (15 x 15 ft)
- Public Safety Building Foundation Grids
- Public Safety Building Excavation Area Grids
- Contour Elevation (2ft interval)
- Abandoned Storm Drain Pipe
- Abandoned Storm Drain Pipe Location
- Sump Locations
- Backfill operations within grid cell in process.
- Area backfilled up to 3ft below former PSB slab elevation.
- Area that has been excavated down to 4ft below ground surface.
- Area that has been excavated down to 5ft below ground surface.
- Area that has been excavated down to 6ft below ground surface.
- Area that has been excavated down to 7ft below ground surface.
- Area that has been excavated down to 8ft below ground surface.
- Area previously excavated before March 27th COVID-19 shutdown. Depth is 3-4ft below ground surface.

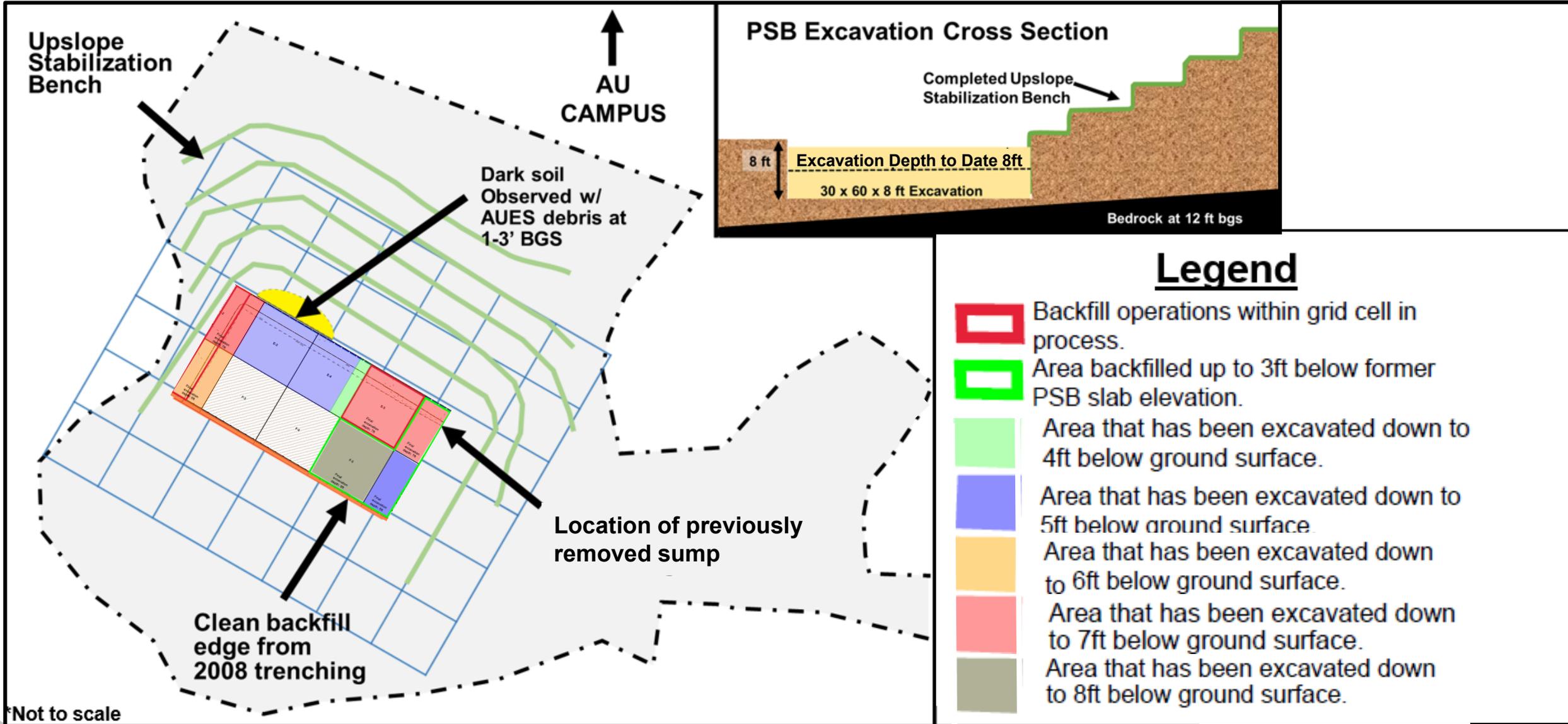




SITE-WIDE REMEDIAL ACTION



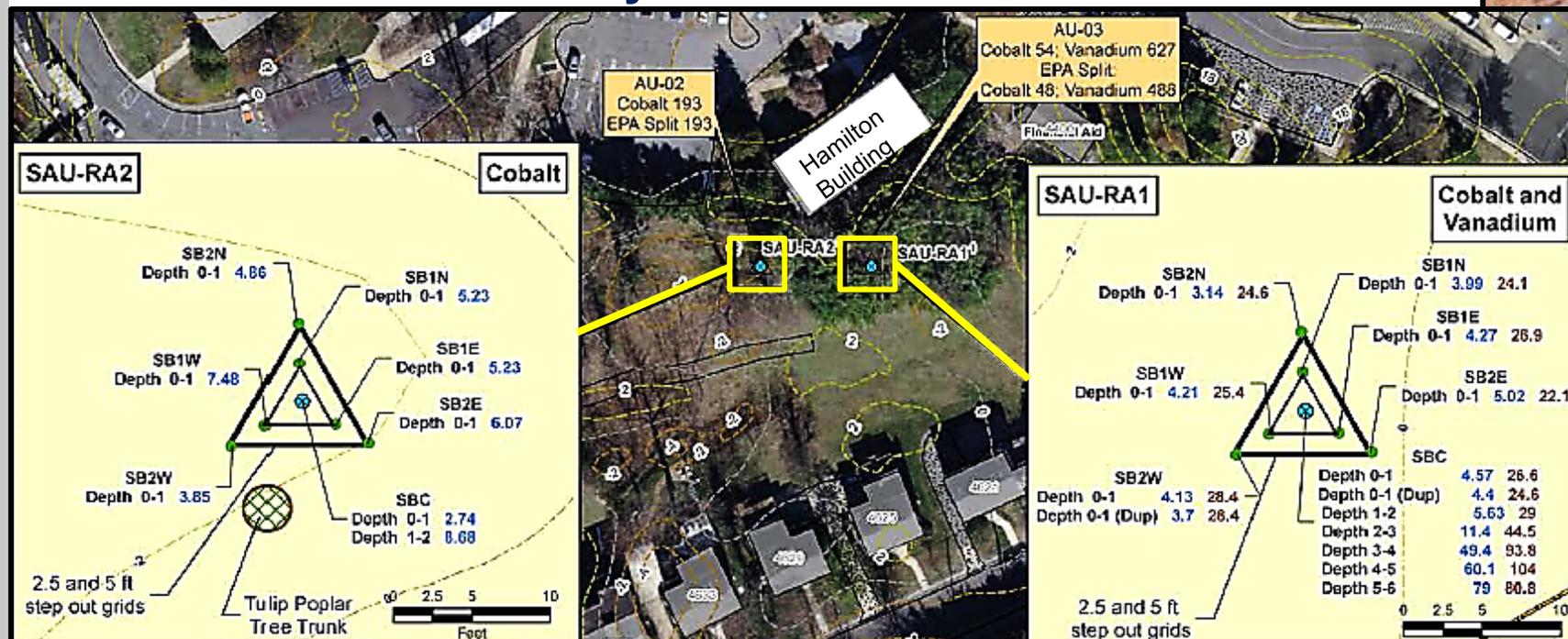
AU's Former Public Safety Building





SITE-WIDE REMEDIAL ACTION

American University HTW Soil Removal



- **RA1 (AU-03) and RA2 (AU-02)** –The excavation work behind the Hamilton Building on AU campus was completed in September.
- The team removed the soil and completed backfill efforts with clean approved fill, topsoil, a grass mix, and an erosion control blanket for the two excavation areas.

USACE considers all contaminated soil removal for the Spring Valley Formerly Used Defense Site complete.



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



GLENBROOK ROAD PROJECT AREA

USACE Updates

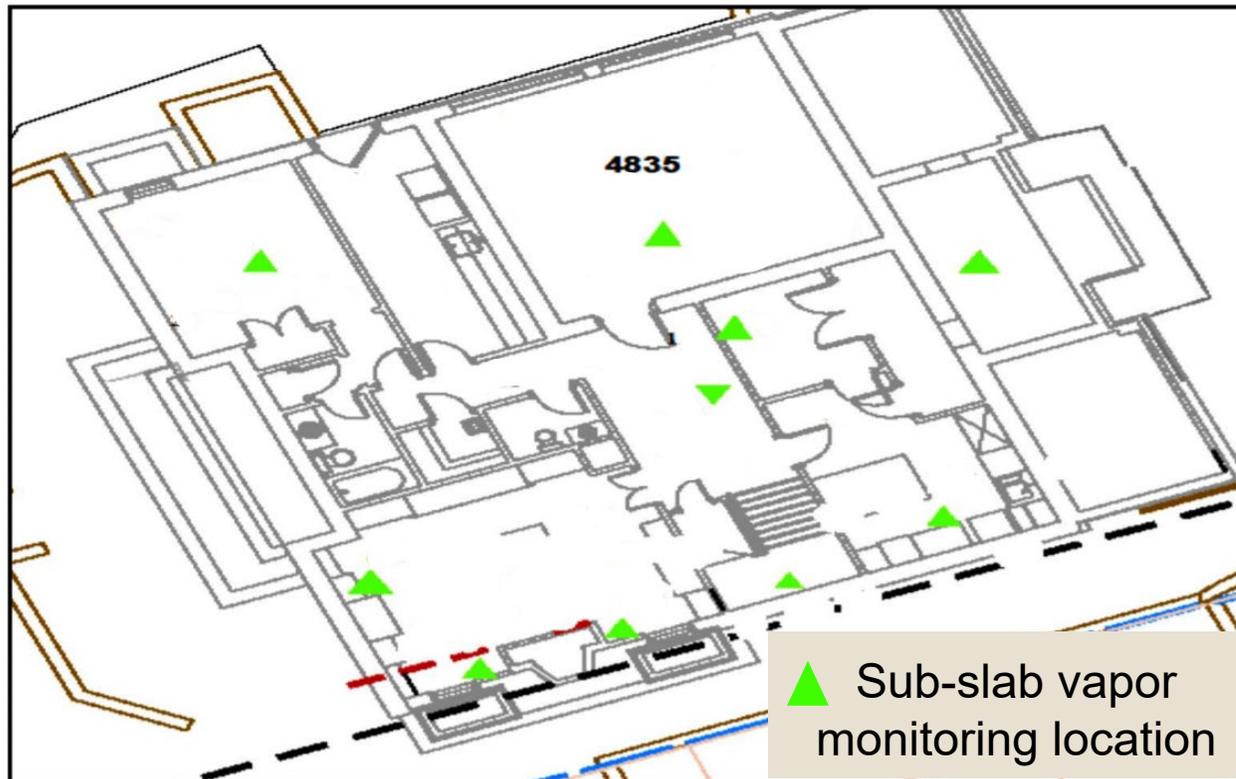




GLENBROOK ROAD – 4835 GLENBROOK ROAD



- **The results of the third round of non-quantitative passive soil gas monitoring at borehole locations in the basement showed no chemical agent or chemical agent breakdown products.**



- **Crews completed the trenching for utilities along the shared property line and installed the replacement utilities for the water and sewer lines.**
- **The Army Corps and Partners are working with AU to determine the final path forward to complete this aspect of Glenbrook project area.**



GLENBROOK ROAD – OTHER EFFORTS



- **At the end of September, the site team continued with backfilling the site and completed installing sewer and water lines along the 4835 shared property line, which included backfilling and compacting the two utility trenches.**
- **While completing the installation of the utilities the crew recovered one piece of broken lab glassware. No odors or soil stain was observed and all testing of the nearby soil and the broken glass determined there was no chemical contamination present.**



GLENBROOK ROAD – BACKFILL & COMPACTION



We have completed around 30% of the planned backfill and compaction effort to fully restore the site.



GLENBROOK ROAD – LOCATING BACKFILL



- In October, the crew located and tested additional sources in the nearby surrounding area for the large volume of quality backfill needed.
- **Test kits for the sampling were prepared, and the crew collected and shipped the samples to a commercial lab for analysis. Samples from any potential backfill sources are tested prior to being selected to ensure material is clean and suitable for site restoration activities.**

Sampling soil and inspecting a site for the needed backfill.



GLENBROOK ROAD

Tentative Schedule



<p>Fall/Winter 2020</p>	<ul style="list-style-type: none">• Continue the planned final site restoration tasks for the Glenbrook project area. This includes restoring utilities along the shared property lines, and restoring landscaping in the easement areas.• Complete the planned elevation levels of soil backfill and compaction at the site.
<p>Winter 2021</p>	<ul style="list-style-type: none">• Anticipated project completion.

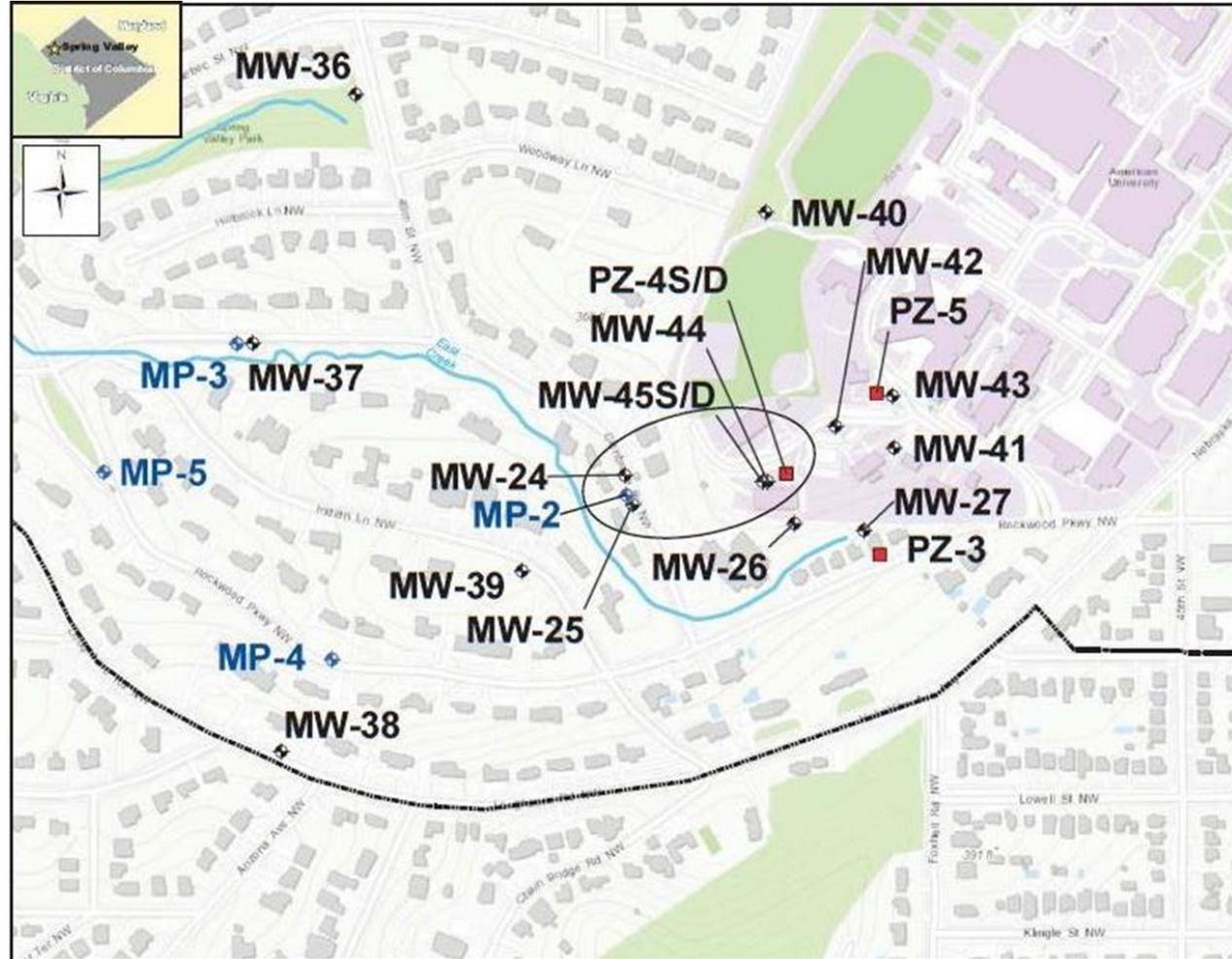


SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



GROUNDWATER STUDY

USACE Updates





GROUNDWATER STUDY



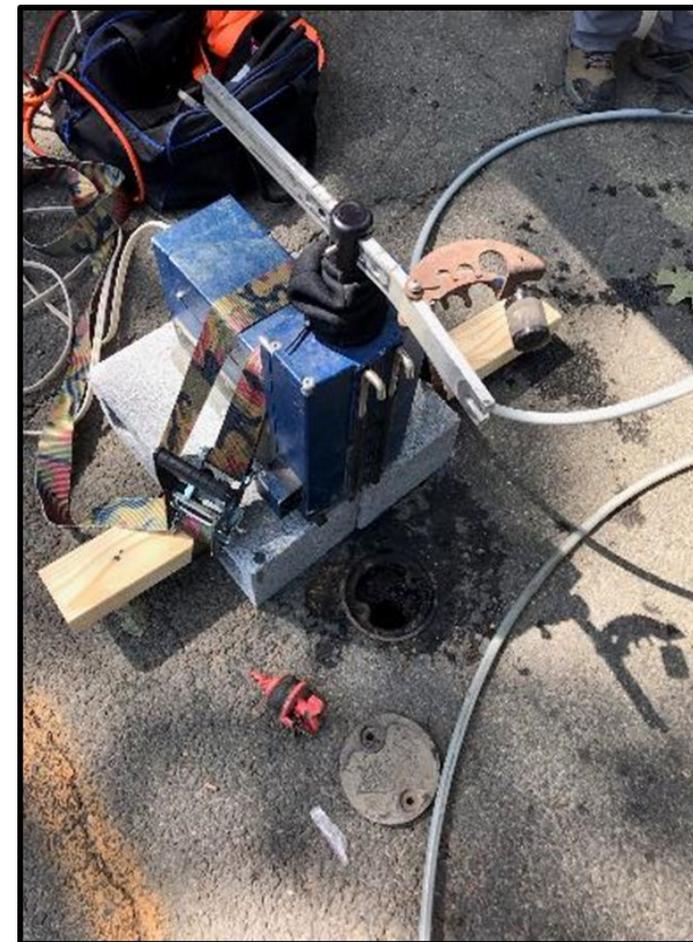
- The groundwater sampling event took place on June 23-26 and was conducted by the Army Corps and the U.S. Geological Survey (USGS).
- Sampling results were similar to September 2019 results
 - Arsenic results at MP-2 (Glenbrook Rd) were below the drinking water Maximum Contaminant Level (MCL) of 10 ppb
 - Perchlorate results at PZ-4D and MW-44 (AU's Kreeger Hall) were still above the EPA Drinking Water Advisory Level of 15 ppb
- Since EPA has declined to establish a new Maximum Contaminant Level (MCL) for Perchlorate, EPA has recommended that we continue to use the EPA Drinking Water Advisory Level of 15 ppb as a comparison criteria for Perchlorate.



GROUNDWATER STUDY

Next Steps:

- The Army Corps will conduct one more round of groundwater sampling for Perchlorate at PZ-4D and MW-44 to confirm that concentrations are steady or decreasing at that location
- If Perchlorate concentrations at PZ-4D and MW-44 are consistent with past results, no further action is expected to be required for Perchlorate:
 - Perchlorate concentrations above 15 ppb are limited to one isolated location (Kreeger Hall), and one point does not constitute a plume
- Since Arsenic results were below the 10 ppb MCL for two consecutive sampling events, no further action is expected to be required for Arsenic.



Groundwater sampling well



SPRING VALLEY RESTORATION ADVISORY BOARD



Reminders:

The next RAB meeting will tentatively be on
Tuesday, January 12th, 2021

Upcoming Agenda Items:

- *Suggestions? Please contact the Outreach Team!*

