

SPRING VALLEY FORMERLY USED DEFENSE SITE

Restoration Advisory Board Meeting
12 May 2020



US Army Corps
of Engineers®



AGENDA REVIEW

Co-Chair Updates

- Website Updates

Task Group Updates

- TAPP Contractor

USACE Updates

- Site-Wide Remedial Action
- Glenbrook Road
- Groundwater Study

Open Discussion & Future RAB Agenda Development





SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

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CO-CHAIR UPDATES

Website Updates






CO-CHAIR UPDATES

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Announcements

--- **Next Restoration Advisory Board Meeting - January 14, 2019**





The next RAB meeting is scheduled to be held on **Tuesday, January 14 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](#)



[Site-Wide](#)

[The Corps'pondent](#)

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](#)

Website Updates

- March and April Monthly Site-Wide Project Update
- Weekly 4825 Glenbrook Rd Project Updates with photos
- February Partners meeting minutes. Next Partners meeting: postponed until June
- March RAB Meeting Minutes



SPRING VALLEY FUDS RESTORATION ADVISORY BOARD



TASK GROUP UPDATES

New TAPP Contractor





TASK GROUP UPDATES



New RAB Technical Assistance for Public Participation (TAPP) advisor

- Following the January 14th RAB meeting, the RAB submitted electronic votes to secure Devamita Chattopadhyay, Ph.D. a local Environmental/Chemical Engineer, for the Spring Valley RAB TAPP position.
- The 8A contract to **ATI** has expired.
- USACE is still working to redirect the offer to Dr. Chattopadhyay through another firm.



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SITE-WIDE REMEDIAL ACTION (RA)

92 Properties - USACE Updates





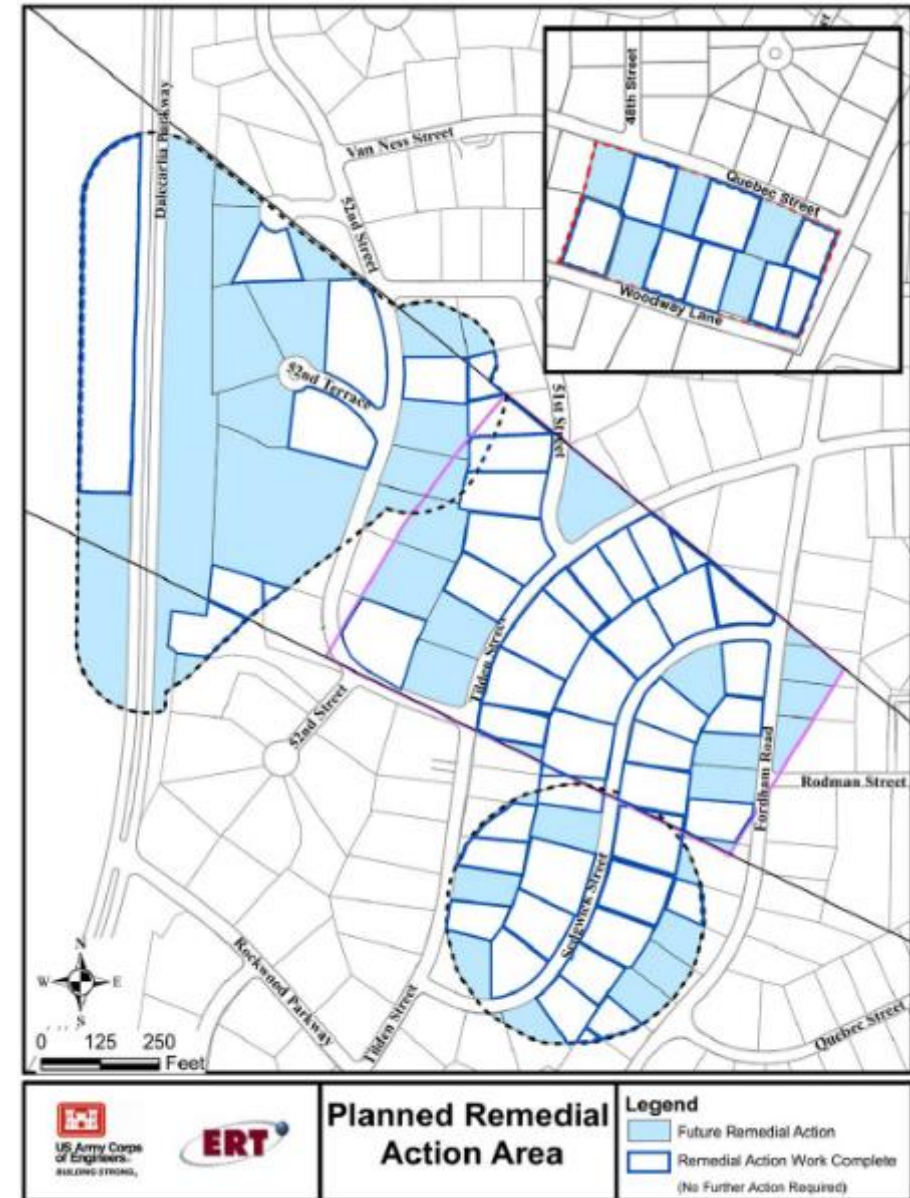
SITE-WIDE REMEDIAL ACTION



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

- Currently working on 89 residential properties at different stages of the remedial action process.
- 84 civil surveys and 84 arborist surveys have been completed.
- 80 properties have been visited by the geophysicist team, who provide technical recommendations on plant removal.
- Vegetation has been removed from 61 private properties and 13 City/Fed lots.
- Geophysical surveys completed at 61 private properties and 7 City/Fed lots off Dalecarlia Parkway.
- Anomaly removal completed at 49* private properties and 4 City/Fed lots off Dalecarlia Parkway. The dig team returned this week to complete 12 more properties.
- Issued 12 Assurance Letters.

*More than halfway!





SITE-WIDE REMEDIAL ACTION

Preparation for the next round of Geophysical Surveys



In response to COVID19, the team implemented many safety measures including: daily health monitoring of all workers, decontaminating tools, frequent hand washing, and social distancing.



HD videos and civil surveys are conducted at private properties in preparation for geophysical surveys

The team conducted vegetation removals prior to the start of geophysical surveys





SITE-WIDE REMEDIAL ACTION

Anomaly Excavations Completed at Six More Private Properties



The team carefully excavates each target, checks each location with a metal detector to ensure the metal anomaly was removed, and fills the clear hole with soil.



The depth of each recovered anomaly is documented



SITE-WIDE REMEDIAL ACTION

Recovered Items from Anomaly Removals



Livens Projectile

During the March intrusive investigation effort the dig team recovered a Livens Projectile. The item was examined and safely removed from the property.

The Explosive Ordnance Disposal (EOD) team came and x-rayed the item in place. The X-ray (right) helped the team confirm that this item was filled with a liquid. That liquid has been tested and has been determined to be bleach water mixture and did not contain chemical warfare material. The livens was classified as a Munitions and Explosives of Concern (MEC) item, having an explosive hazard. The team removed it from the property and it is being securely stored and will be disposed properly.



An X-ray image of the recovered Livens

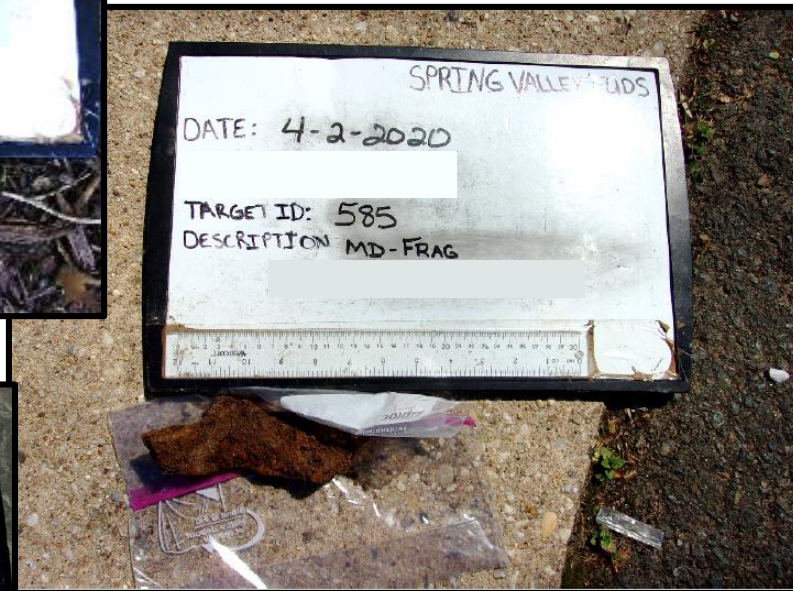


SITE-WIDE REMEDIAL ACTION

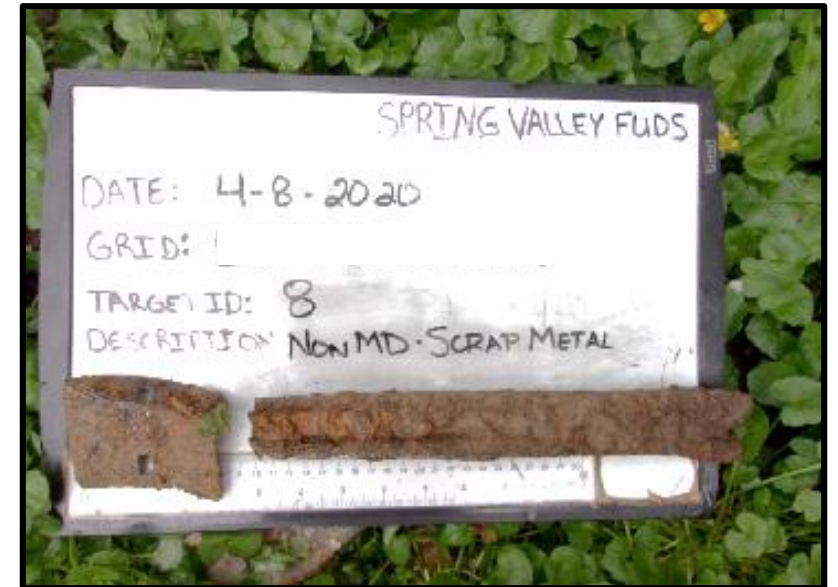
Recovered Items from Anomaly Removals



Other items were recovered during anomaly removals. The munitions debris and fragments are double bagged and tested for potential chemical residue (all clear to date).



Munitions debris recovered from private properties



Non-Munitions related debris recovered from private properties

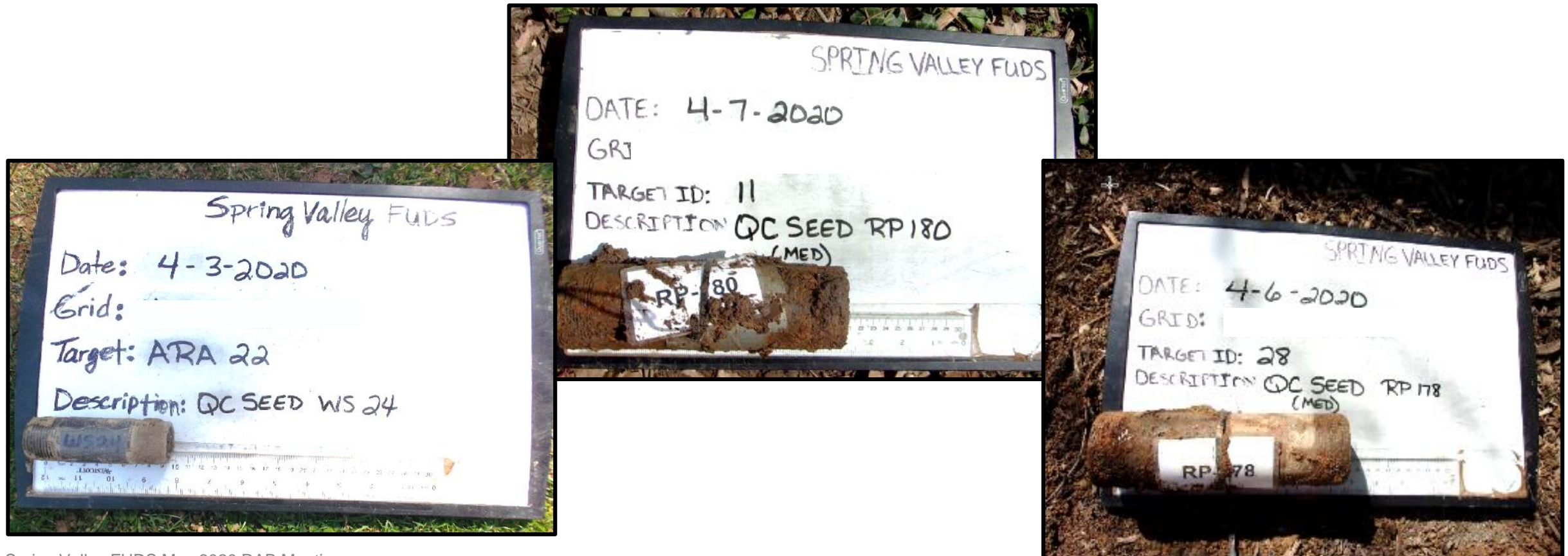


SITE-WIDE REMEDIAL ACTION

Recovered Items from Anomaly Removals: Quality Control Seeds



Blind Quality Control (QC) seeds are placed by Weston as an internal data collection and processing check. These act as a check of the work performed by the geophysicists.





SITE-WIDE REMEDIAL ACTION

Tentative Schedule



Summer 2020

- Continue finalizing plant removal plans with subsequent groups in preparation for geophysical surveys.
- Continue obtaining Rights-of-Entry from the next group of homeowners.
- Continue geophysical surveys.
- Continue anomaly removal efforts.

Fall 2020

- Continue to finalize landscape removal plans and conduct plant removal at private properties.
- Continue geophysical surveys.
- Continue anomaly removal efforts.



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SITE-WIDE REMEDIAL ACTION (RA)

Public Safety Building (PSB) - USACE Updates



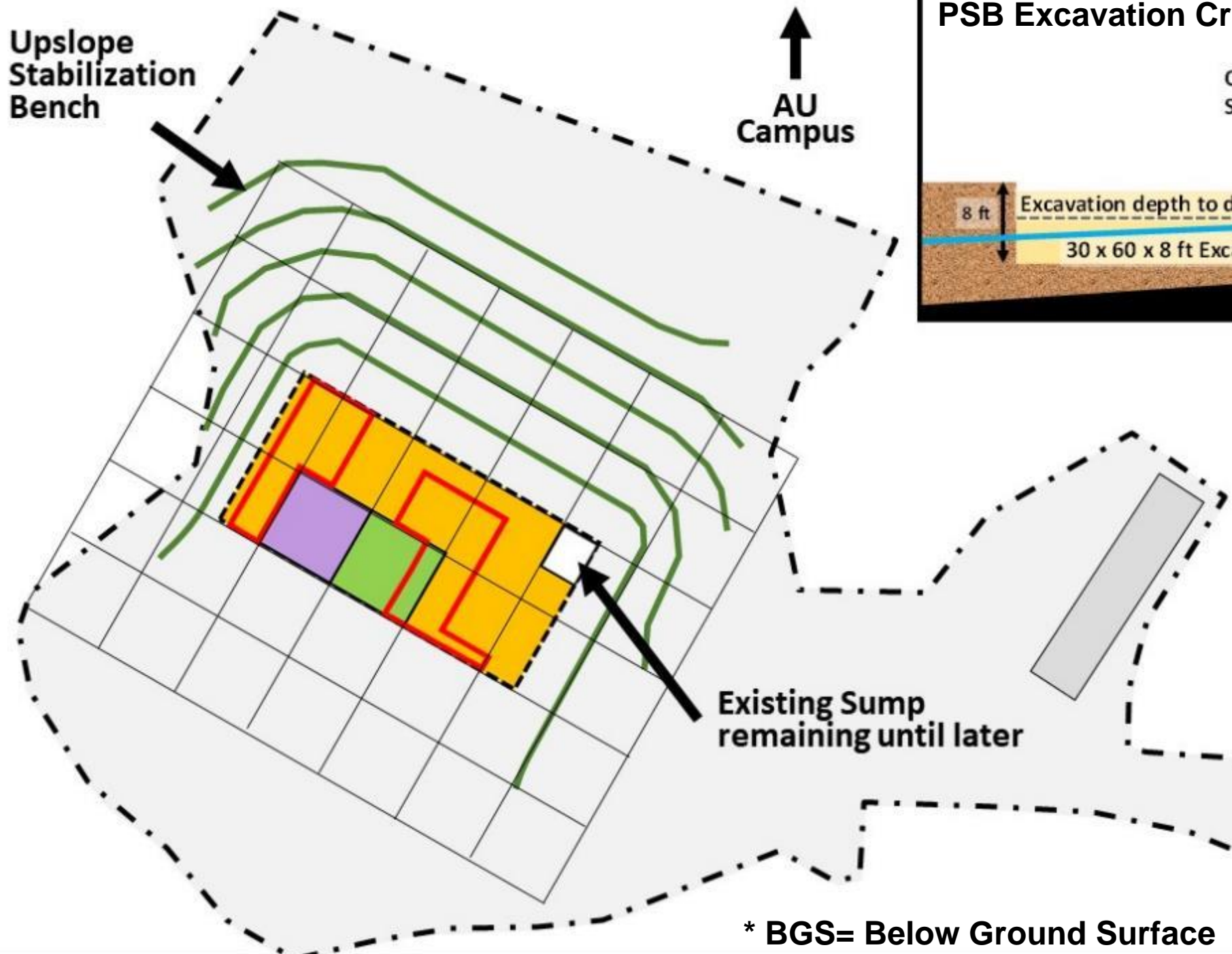


SITE-WIDE REMEDIAL ACTION

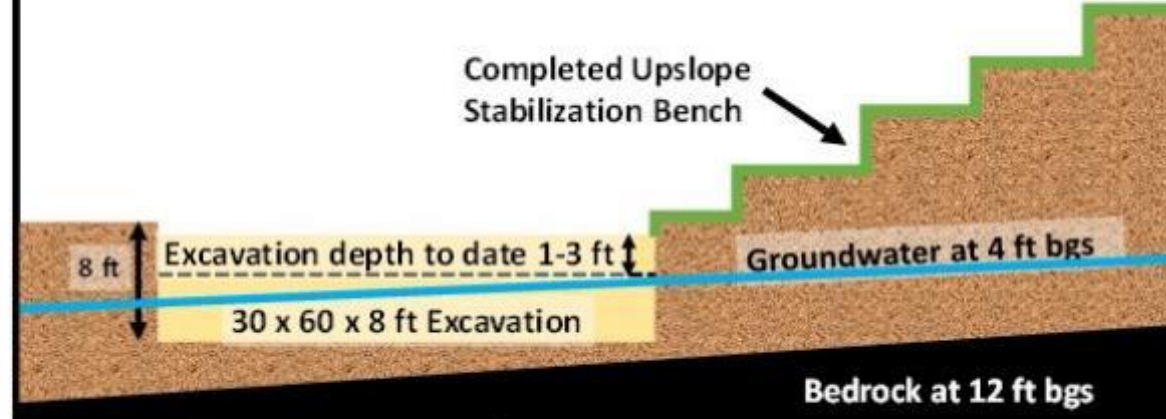


Soil Investigation Efforts for AU's former Public Safety Building to Date:





- Safely removed 375 tons of soil.
- Safely recovered and removed 165 pounds of munitions debris (29 items).
- Safely recovered and removed 178 pounds of laboratory grade glassware (20% of total glass).
- The soil being removed is significantly contaminated with heavy metals arsenic, cobalt, lead, mercury, and vanadium.
 - Soil severely contaminated with lead will be disposed of as hazardous waste
- Approximately 6 weeks of work remaining—we will update the community once work resumes.



PSB Excavation Cross Section



Legend

-  Approx. location of "black" soil
-  Area excavated to 1' BGS *
-  Area excavated to 2' BGS
-  Area excavated to 3' BGS

"Black soil" refers to higher levels of contamination and debris were found in this soil

* BGS= Below Ground Surface














SITE-WIDE REMEDIAL ACTION

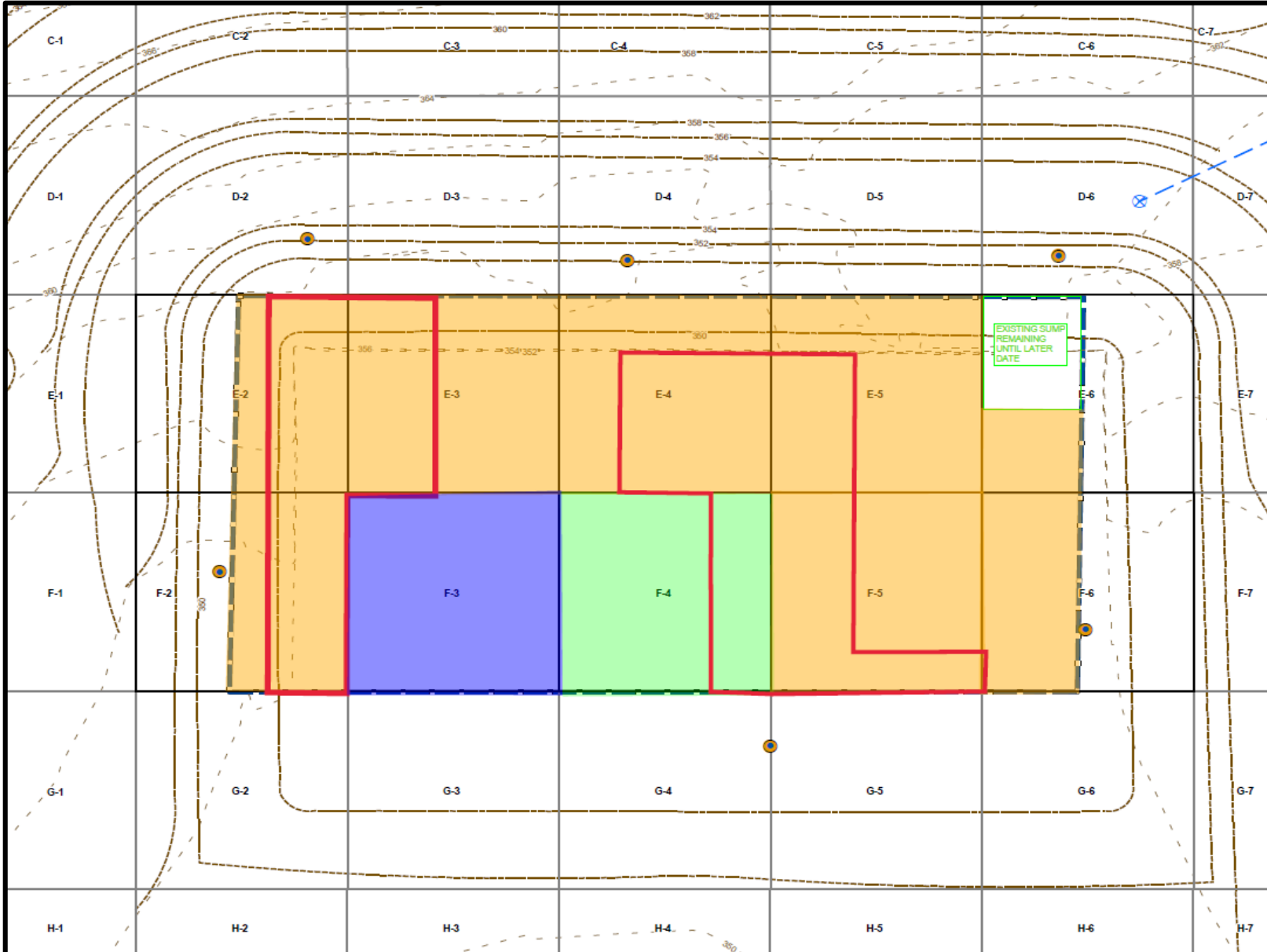
AU's Former Public Safety Building

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Legend

-  PSB Foundation Boundary
-  PSB Foundation Grids
-  PSB Excavation Area Grids
-  Contour Elevation—
-  Abandoned Storm Drain Pipe
-  Abandoned Storm Drain
-  Sump Location
-  Approx. location of "Black Soil"
-  Area excavated down to 1ft BGS
-  Area excavated down to 2ft BGS
-  Area excavated down to 3ft BGS





SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)



Due to traveling restrictions associated with the health concerns surrounding COVID-19, the effort to continue investigation of the soils under the foundation of American University's former Public Safety Building (PSB) has been temporarily paused.



Our team will continue to monitor the situation closely and keep the community updated as we plan for the return to work.



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GLENBROOK ROAD PROJECT AREA

USACE Updates



GLENBROOK ROAD – RECENT EFFORTS



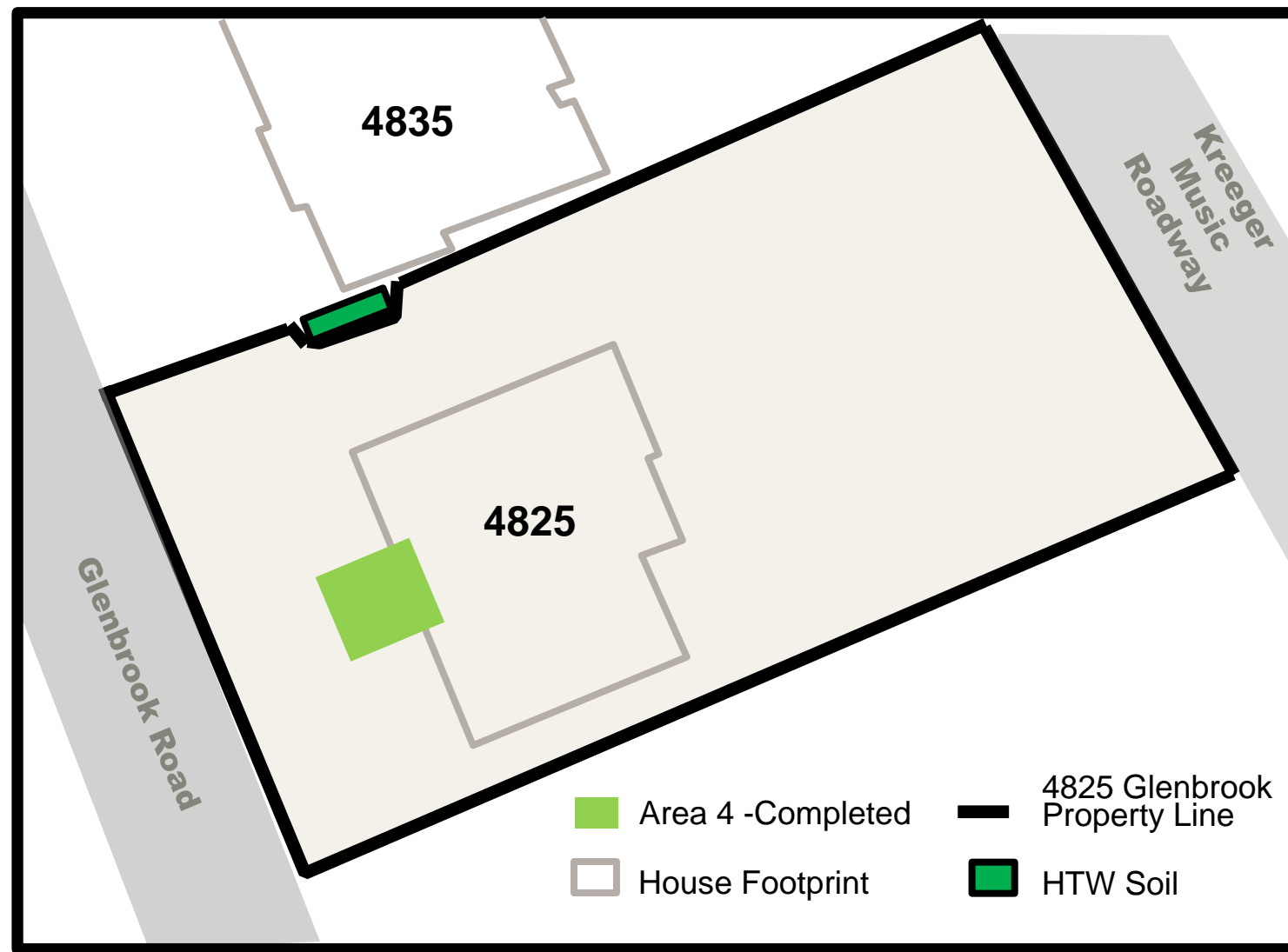
In March, the excavation at Area 4 was tentatively completed and covered with tarp while awaiting the final sampling results.

The filled soil drums were properly labeled and brought to the Federal Property prior to being transported for disposal.

In April, the lab results confirmed Area 4 is complete.



GLENBROOK ROAD – HAZARDOUS & TOXIC WASTE (HTW) EFFORT



Final HTW Contaminated Soil Removal Area

GLENBROOK ROAD – RESTORATION EFFORTS



A week after excavating Area 4, the crew pumped over 2500 gallons of water from heavy rains and seeping groundwater.

The excavation area was then backfilled with 15 rollofs of soil, and construction mats were set up for truck access.



GLENBROOK ROAD – RESTORATION EFFORTS



Removing select soldier piles at the front of the property along the shared property line with 4801 Glenbrook Road, involves safely removing the remaining wood shoring and steel I-beams that have held the soil embankment during our deep excavation of the area.

To conduct this effort safely, the crew constructed a reusable shoring box to install at each soldier pile during the removal process.

GLENBROOK ROAD – RESTORATION EFFORTS



After completing the removal of the solidier piles, backfill was brought to the site to fill and stabilize the slope.

At the end of April into May, sheds, heavy equipment and construction mats are removed to clear the site for further restoration efforts.





GLENBROOK ROAD – UPCOMING EFFORT



Our onsite team has spent the past few months locating and then sampling potential sources for clean backfill and topsoil. The approved soil will be stored at the Federal Property and then brought to the site for the final restoration effort.



Sampling a potential topsoil supply from Aggtrans.



GLENBROOK ROAD

Tentative Schedule



Spring-Summer 2020	<ul style="list-style-type: none">• Complete intrusive operations at 4825 Glenbrook Road: Excavate the remaining contaminated soil at the HTW grid along the 4835 Glenbrook Road shared property line.• Begin the final planned restoration along the 4801 Glenbrook Road shared property line and easement area.• Continue the planned final site restoration tasks for the Glenbrook project area.
Fall 2020	<ul style="list-style-type: none">• Anticipated project completion.



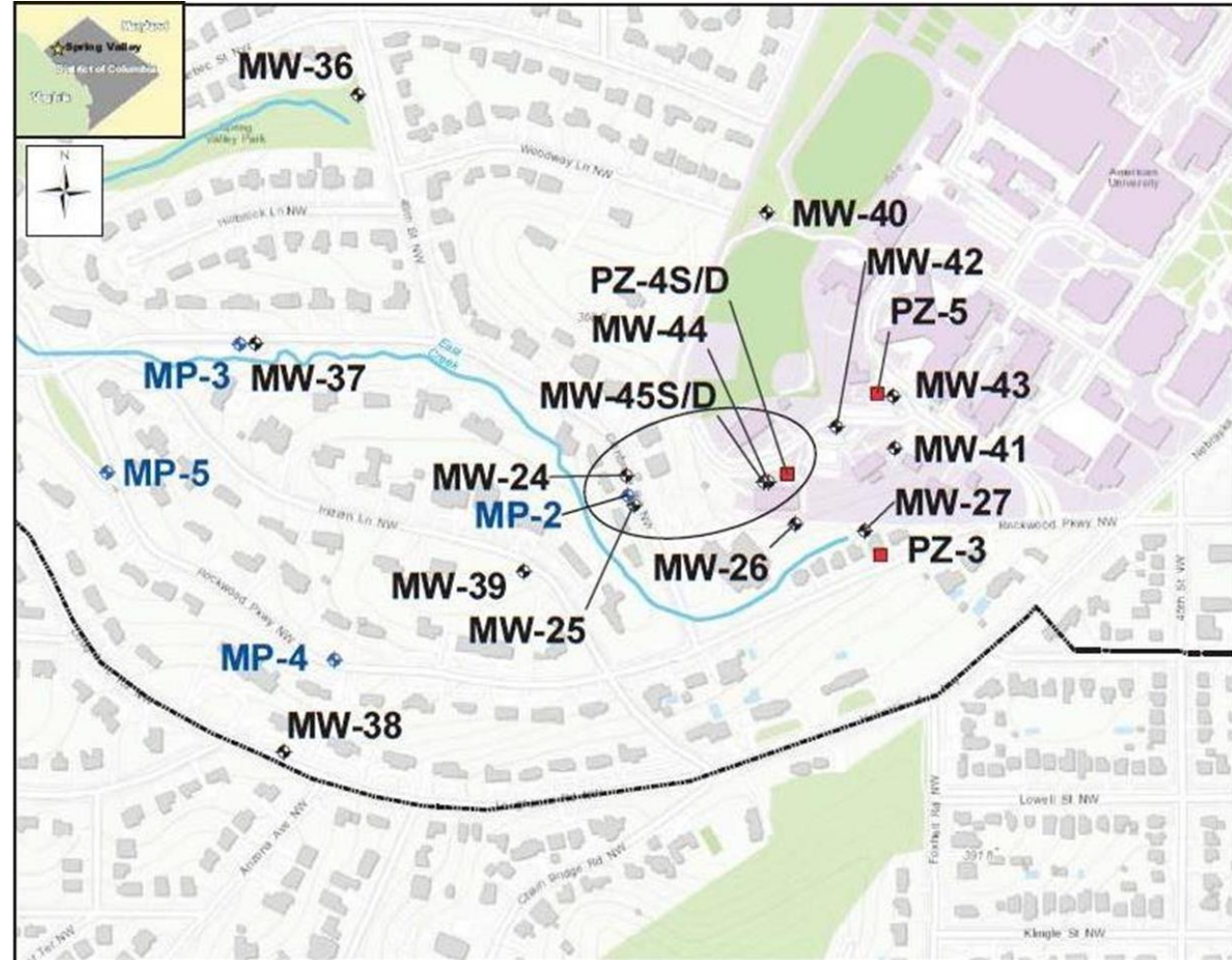
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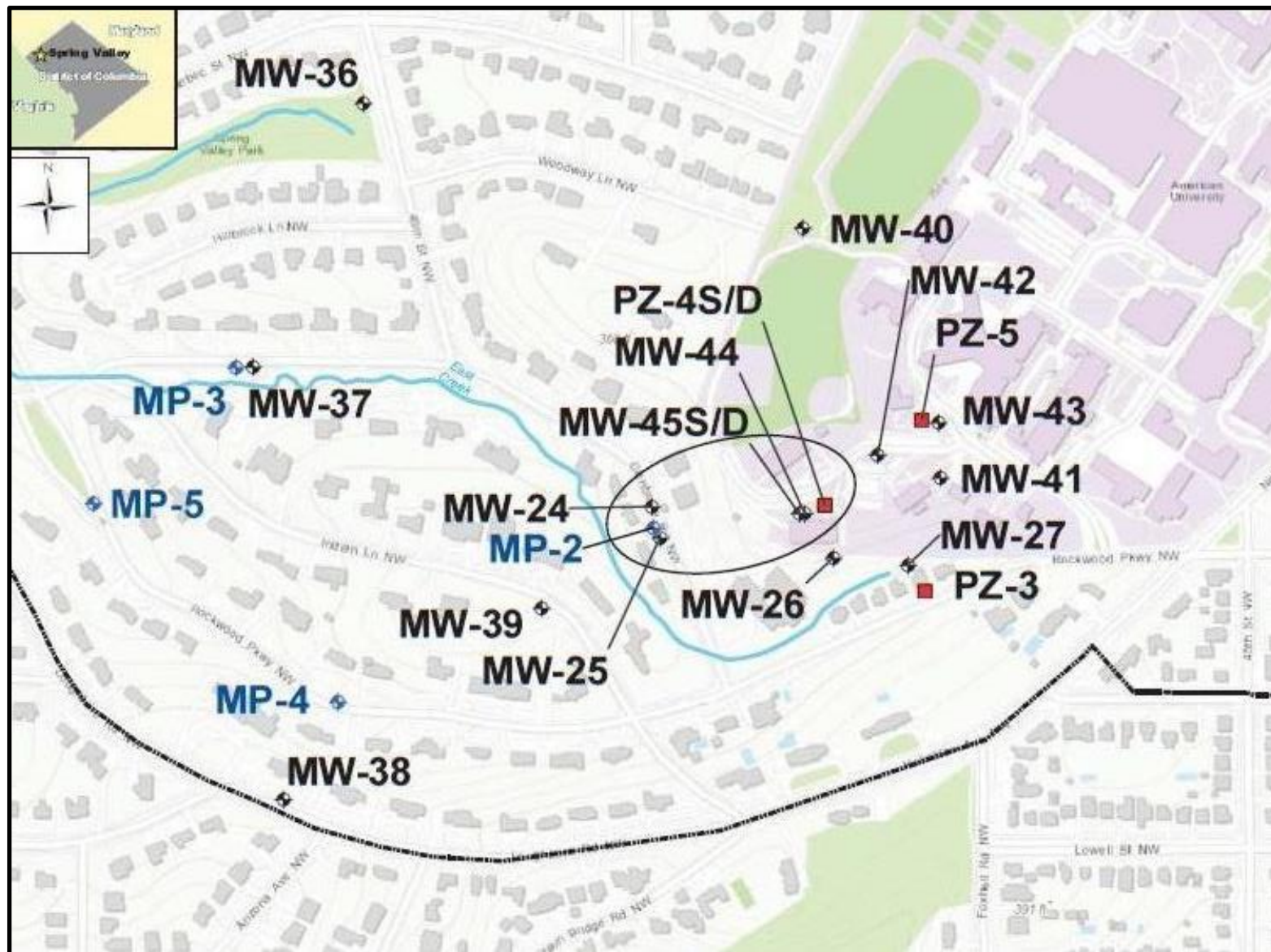


GROUNDWATER STUDY

USACE Updates



GROUNDWATER STUDY: EXPOSURE UNIT 2



Key

 Area encompassing the EU2 Monitoring Wells

 Spring Valley FUDS Boundary

 Piezometer

 Monitoring Well

 Multiport Well

S/D = Monitoring well or piezometer with screened intervals in the same borehole.



GROUNDWATER STUDY



- The Army Corps has prepared the groundwater sampling plan for the upcoming sampling event. It is currently being reviewed by the regulatory Partners (DOEE and EPA). Once the plan is approved by the Partners, the sampling event will be carried out following COVID-19 guidelines as needed.
- After the confirmation sampling is completed, the Army Corps and Partners will discuss the results and determine the path forward for the final groundwater approach.

Next Steps:

- Confirm that the arsenic concentrations are below established drinking water standards.
- Continue to monitor perchlorate concentrations.
- The Perchlorate MCL is scheduled to be published in June 2020.



Groundwater sampling well



SPRING VALLEY RESTORATION ADVISORY BOARD



Open Discussion:

Reminders:

- The next RAB meeting will tentatively be on **Tuesday, July 14th, 2020**

Upcoming Agenda Items:

- *Suggestions? Please contact the outreach team!*
- Upcoming 2020 Groundwater sampling results

