

# SPRING VALLEY FORMERLY USED DEFENSE SITE

Partners Meeting Presentation  
October 2020



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# AGENDA REVIEW

## Parsons Update

- 4825 Glenbrook Road

## Weston Updates

- Site-Wide Remedial Action
- Public Safety Building

## USACE Updates

- Groundwater Study
- New TAPP Advisor
- 4835 Glenbrook Road
- Future Partner Agenda Development



# SPRING VALLEY GLENBROOK ROAD SITES

PARTNER'S UPDATE  
October 2020



*"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."*



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# 4825 Glenbrook Road - Recent Activities

- September was spent continuing to bring stockpiled soil from the Federal Property to the site to add lifts above the post excavation elevation



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# 4825 Glenbrook Road - Recent Activities (Cont.)

- Re-established the permanent water and sewer lines that service 4835 Glenbrook



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# 4825 Glenbrook Road - Recent Activities (Cont.)

- On September 21<sup>st</sup> while removing the temporary sewer pipe a small semi-intact pipette was discovered coming from the 4835 Glenbrook Road property
  - ✓ No odors or soil staining observed
  - ✓ Headspace negative for chemical agent
  - ✓ The PDT decided to have the plastic removed and the area was backfilled



Location of the pipette looking from 4835 Glenbrook Rd



Looking from 4825 Glenbrook



Pipette, not intact



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# 4825 Glenbrook Road - Summary of Clean Backfill for Restoration

Restoration				
	Expected Volume Needed (bcy*)	Approx. Volume Placed (bcy)	Approx. Volume on Hand (bcy)	Total # of Truck Loads to Date
	4,348	1,248	0	183
% Complete:	--	28.7%	--	--

\*bcy – bulk cubic yards

North wall of Grid -10,-90 Excavated Down to Bedrock



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## Near -Term Schedule

- Early November obtain EPA and DC Department of Energy & Environment approval of backfill source
- Late November install sewer and water line servicing AU
- Throughout November continue brining entire site up to grade



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## Mid-Term Schedule

- Bring site to grade for AU water and sewer installation
- Re-install AU water line
- Re-install AU sanitary sewer line
- Final soil and water waste shipments
- Move 4835 AC units to original location
- Restore fence along 4801 and 4825 Glenbrook Road properties
- Restore site to final grade in 6-inch lifts with compaction in accordance with the Work Plan



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# Tentative Long-Term Schedule

Summer-Fall 2020

Final restoration of 4801 and 4825 Glenbrook



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## 4825 Glenbrook Road - Recent Activities (Cont.)

- The previously sampled and approved stockpile was removed by the vendor prior to our use
- On October 21<sup>st</sup> Parsons identified a new source in Tysons Corner, Virginia that was formerly undeveloped.
- Parsons has asked for a one-week turnaround for the results and expects to be requesting regulator approval early the week of November 2<sup>nd</sup>





# 4835 GLENBROOK ROAD – Soil Gas Sampling

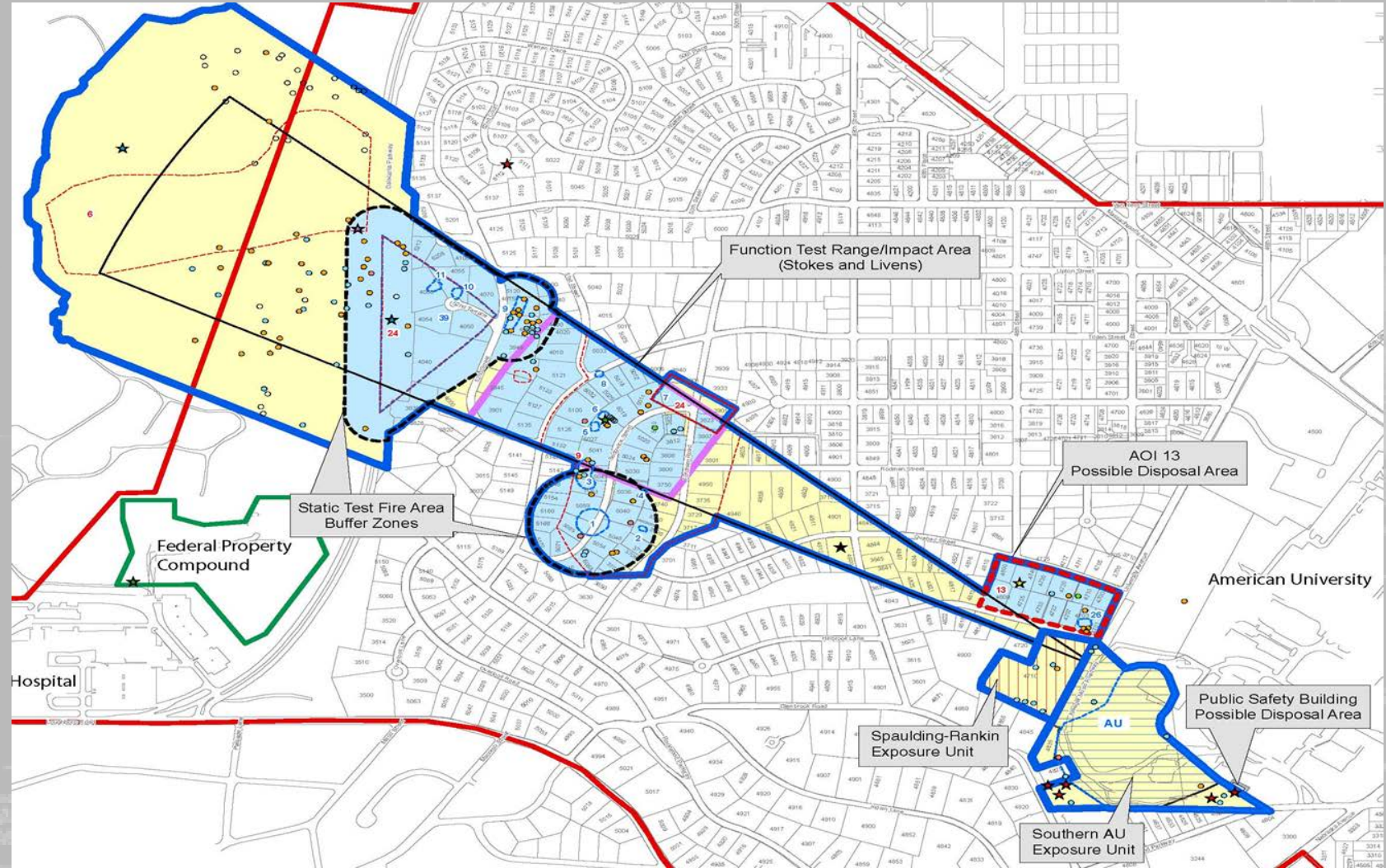


- Crews completed the trenching for utilities along the shared property line and installed the replacement utilities for the water and sewer lines.
- The third round of non-quantitative soil vapor samples collected from boreholes in the basement showed no contamination by chemical agent or chemical agent breakdown products. There was evidence of non-agent compounds in the some samples (e.g. chloroform), but at nanogram levels less than in previous rounds of sampling.
- Based on this favorable third round of samples, USACE would like to request that the Partners (EPA and DC) send emails to the USACE (Dan Noble) stating that they concur with the decision to consider the soil vapor issue at the property sufficiently investigated; and that no further action is required with respect to this issue. If the Partners have any remaining concerns on this issue, please let the USACE know this, and a conference call will be held to address the concerns.

# SVFUDS SITE-WIDE REMEDIATION STATUS OCTOBER 2020

Weston Solutions, Inc.

October 22, 2020



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# SPRING VALLEY STATUS UPDATE – COVID-19

- **Public Safety Building Site** – Field operations at the PSB Site restarted on July 10, 2020 after remobilization and they have not been impacted, so far, by the COVID-19 pandemic.
- **92 Residential Properties** – Field operations at the 92 Residential Properties have been continuous and they have not been impacted, so far, by the COVID-19 pandemic. CCDC has been able to provide the operations required to support the AGC anomaly dig teams.



# RESIDENTIAL PROPERTIES – FIELDWORK\*



- **Property Availability** – 1 new property approved their landscape plan and became available for geophysical surveys. 14 properties remain.
- **Vegetation removal/Blind Seeding** – Vegetation removal and blind seeding completed at 7 properties. 15 properties remain.



\*info provided includes progress since last Partners presentation on August 27, 2020



# RESIDENTIAL PROPERTIES – FIELDWORK\* (CONTINUED)



- **Geophysical surveys –**  
Dynamic surveys completed at 6 properties. Cued surveys completed at 1 property.
- **Intrusive Investigations –**  
Conducted at 10 properties and 6 fed/city lots between 8/24/20 and 9/23/20.







# RESIDENTIAL PROPERTIES – FIELDWORK\* (CONTINUED)



- **Intrusive Investigations (continued)** - Completed 7 properties and 6 fed/city lots between 8/24/20 and 9/23/20.
- Two properties (5100 Upton & 5166 Tilden) were partially completed during this intrusive phase. 5100 Upton has one target under hardscape (driveway) remaining to be investigated. 5166 Tilden has two targets under hardscape (sidewalk) remaining to be investigated. Weston will return to investigate these hardscape targets once DDOT permits are approved.
- Intrusive investigation of 19 targets were completed at 4710 Quebec on 09/16/2020. Intrusive operations at the property was halted on 09/16/20 upon recovery of an intact 3” Stokes Mortar.





# RESIDENTIAL PROPERTIES – FIELDWORK (CONTINUED)



**4710 Quebec 3” Stokes Mortar –**  
On 09/16/20, an intact 3” Stokes was found at target ID 24. The USACE OESS and an EOD unit from Joint Base Andrews responded to the site. The EOD unit transported the item offsite for disposal. The EOD unit reported that the 3” Stokes had a high explosive (HE) filler.



Note - MPV data classified this target as a “likely TOI” and the best matching ordnance from the site-specific library was a 3” Stokes.



# RESIDENTIAL PROPERTIES – FIELDWORK (CONTINUED)



**4710 Quebec 3” Stokes Mortar – A** Project Delivery Team (PDT) meeting was held on 10/05/20 to determine the path forward for completing work within area of interest-13 (AOI-13). Work remaining at AOI-13 includes:

- One (1) MPV target and all of the analog mag & dig areas at 4710 Quebec
- One property within AOI-13 remains to be surveyed and intrusively investigated (4800 Quebec)





# RESIDENTIAL PROPERTIES – FIELDWORK (CONTINUED)



**4710 Quebec 3” Stokes Mortar** – The PDT concluded that continuing under Low Probability protocols is still the appropriate choice for AOI-13. Intrusive investigations that remain at 4710 Quebec will be conducted during the next dig phase, scheduled to begin the week of 11/30/20.

Weston and ERT are working with 4800 Quebec on their landscape plan. Schedule for geophysical surveys and intrusive investigations at 4800 Quebec has yet to be determined.



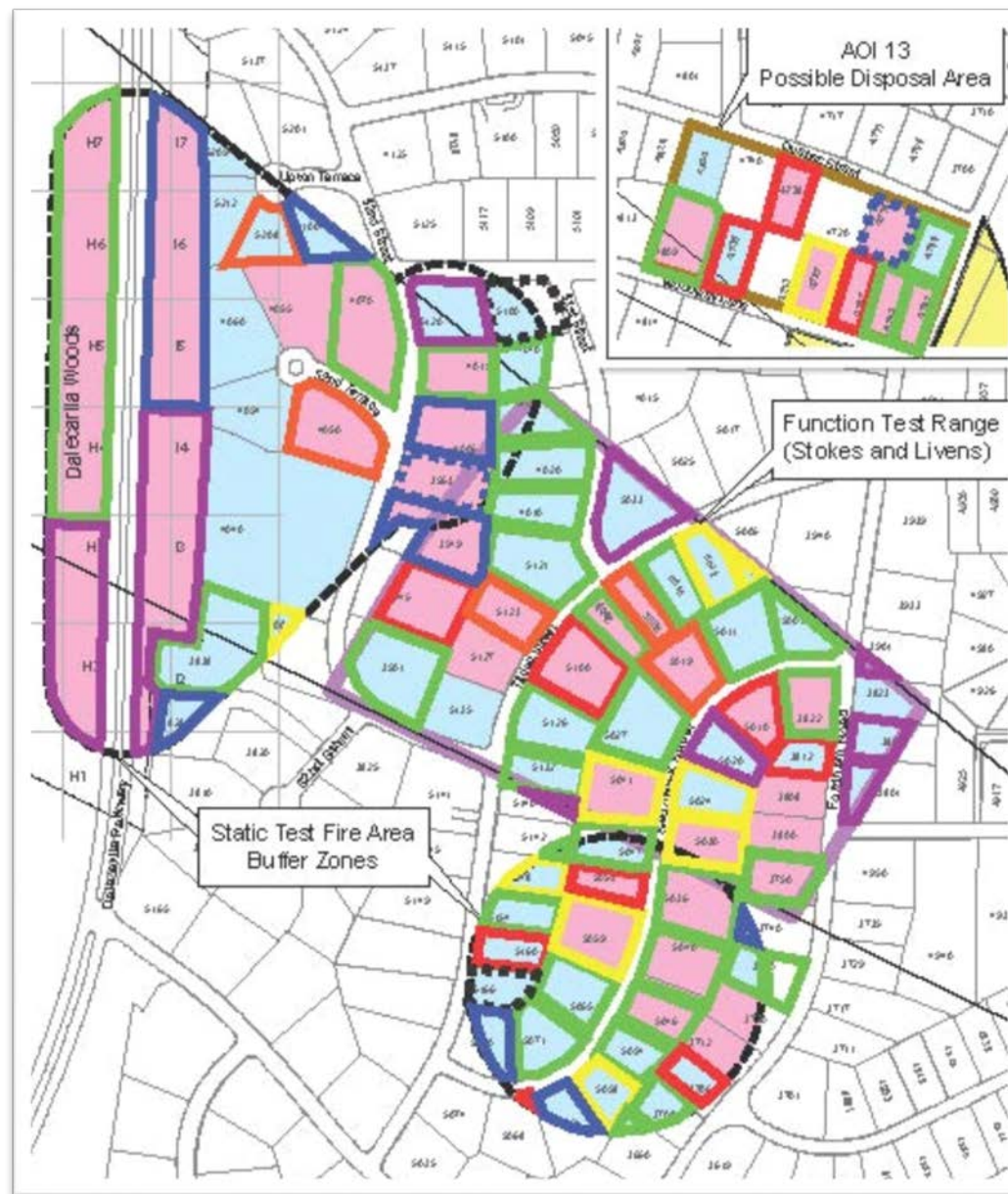


# RESIDENTIAL PROPERTIES - INTRUSIVE STATUS



- 67 residential properties and 10 federal/city lots completed to date
- Intrusive investigations to begin at 7 properties and 3 city lots in Dec 2020
- Intrusive investigations to be completed at 4710 Quebec & 3953 52<sup>nd</sup> (permit approved) in Dec 2020
- Two properties require DDOT permit approval to complete

\*not for public release\*



## Intrusive Investigations:

Completed in 2018/2019

Completed Feb/Mar 2020

Completed Mar/Apr 2020

Completed May 2020

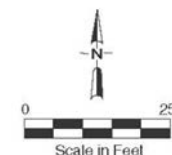
Completed Aug/Sept 2020

Scheduled for Dec 2020

To be completed Dec 2020

Permit approval pending

 Remediation Planned  
previous DGM completed  
 Remediation Planned  
as listed in PWS





# RESIDENTIAL PROPERTIES - INTRUSIVE STATUS



- 67 residential properties completed to date (73%)
- 4 residential properties partially complete
- 2384 targets investigated to date
- MD recovered = 128 (5.44% of total digs)
- MEC recovered (including Civil War cannonball) = 3 (0.13% of total digs)
- WW1-era MEC recovered = 2 (0.08% of total digs)

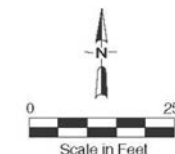


Intrusive Investigations:

Property/Lot Completed

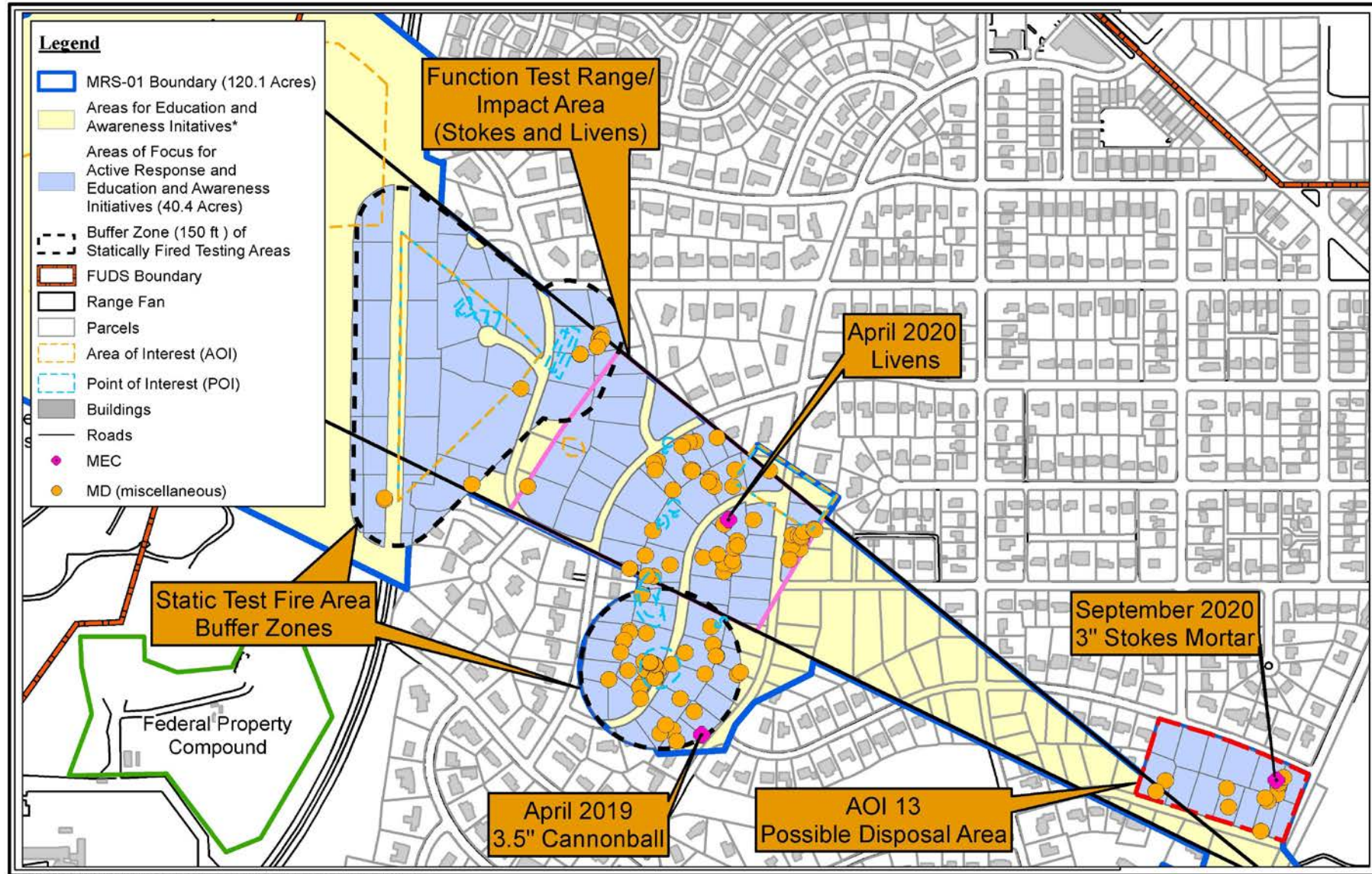
Partially Completed

- Remediation Planned previous DGM completed
- Remediation Planned as listed in PWS





# RESIDENTIAL PROPERTIES – RA MEC/MD FINDS



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# RESIDENTIAL PROPERTIES – GENERAL STATUS



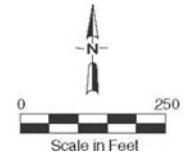
- Two (2) new properties began the site prep phase
- Property owner approval of landscape plans pending at 8 properties
- AGC surveys ongoing at 7 properties and 3 city lots, to be completed in Nov
- Dec 2020 intrusive phase includes 7 new properties, 2 partially completed properties, and 3 city lots
- One (1) property available for next AGC Survey phase
- Work initiated at 89 of 92 properties
- Three (3) properties yet to begin RA process



### Current Property/Grid Status (92/13):

- Video, Survey & Landscape (2)
- Pending Homeowner LSP Approval (8)
- Current AGC Survey/Dec Intrusive (7/3)
- Previous AGC Survey/Dec Intrusive (2/0)
- Next AGC Survey Phase (1/0)
- Intrusive Complete (67/10)
- Intrusive Pending Permit Approval (2/0)

Remediation Planned previous DGM completed  
 Remediation Planned as listed in PWS







# RESIDENTIAL PROPERTIES – DELIVERABLES\*



- **Property Specific Data Summary (PSDS) Reports** – Six (6) Draft Final PSDS were delivered to USACE/EPA/DOEE. Draft Final PSDS for the seven (7) new residential properties and three (3) city lots will to be delivered to USACE/EPA/DOEE prior to conducting intrusive investigations in December.
- **RA Property Summary (RAPS) Memos** – No Draft Final or Final RAPS were submitted during this reporting period.
- **Root Cause Analyses (RCAs)/Field Variance Forms (FVFs)** – No new FVFs or RCAs were generated during this reporting period.



# RESIDENTIAL PROPERTIES – SCHEDULE

- **Geophysics** – Geophysical surveys at seven (7) residential properties and three (3) city expected to be completed in November. There is one (1) property currently available for the next round of geophysical surveys. Schedule for next round of geophysical surveys will be coordinated once additional properties are available.
- **Intrusive Investigations** – December 2020 intrusive investigations expected to complete 9 properties (3953 52<sup>nd</sup>, 4710 Quebec, 5170 Tilden, 4005 52<sup>nd</sup>, 5064 Sedgwick, 3949 52<sup>nd</sup>, 4100 52<sup>nd</sup>, 3828 52<sup>nd</sup>, & 3740 Fordham) and 3 city lots.
  - Note - 3953 52<sup>nd</sup> and 4710 Quebec intrusive investigations have been partially completed.



# PUBLIC SAFETY BUILDING UPDATE



- Re-started intrusive work on 20 July 2020.
- Excavating and backfilling grids from east to west starting at Grids E6/F6 and continuing through Grids E5 and F5.
- Removed and disposed of the sanitary sewer sump from the northeast corner of the PSB foundation.



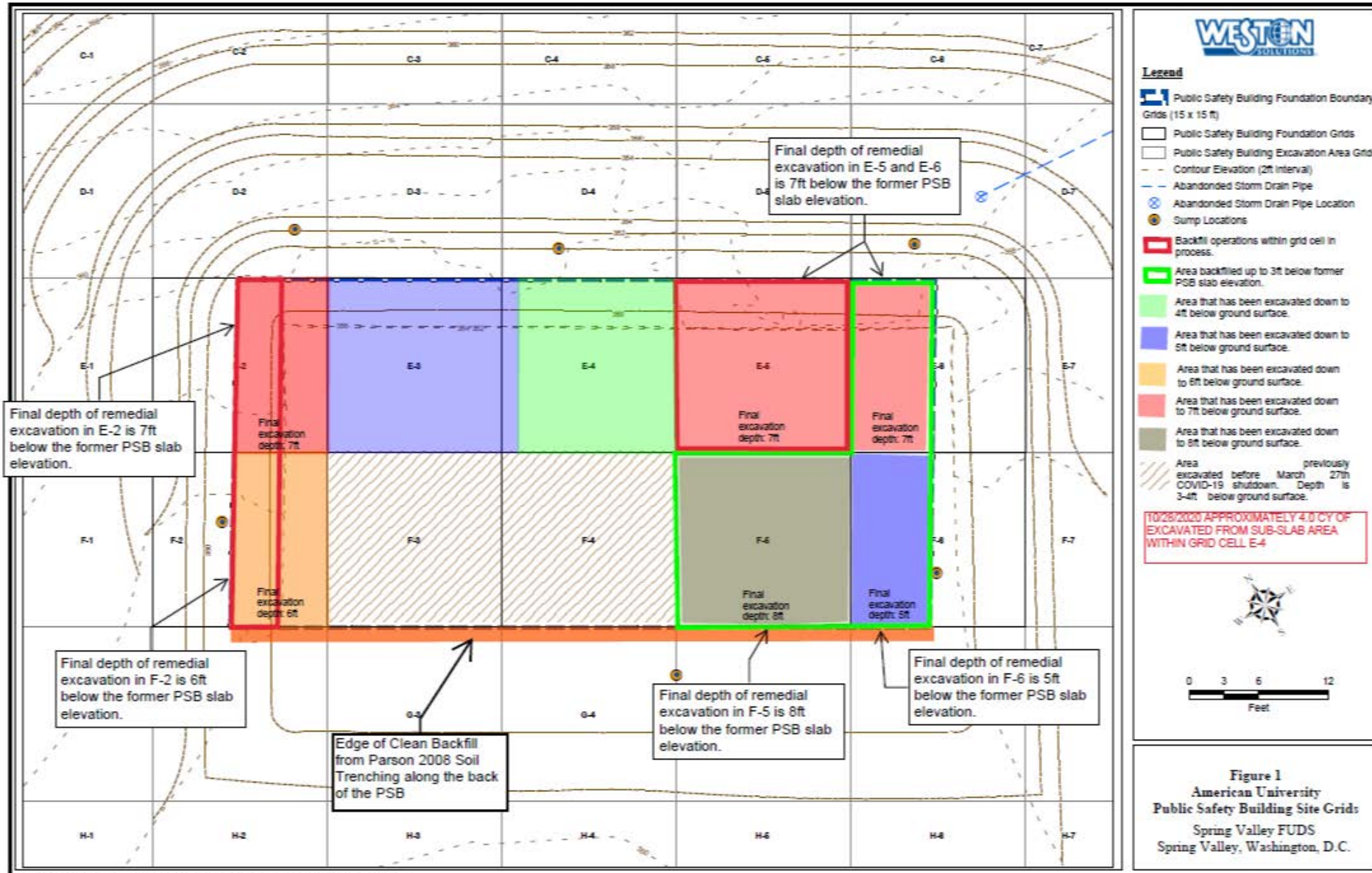


# PUBLIC SAFETY BUILDING STATUS



- Prior to last update, test pitting was conducted into the north sidewall of PSB excavation (grid D-3) to determine the extent of the dark soil layer with AUES debris identified at approximately 2 to 3.5 feet below the slab. Advanced 8 feet north of former PSB slab – AUES debris was still evident, but Team stopped due to slope stability concerns.
- Engineering team met at the PSB site on September 16<sup>th</sup> to discuss options to investigate and later excavate this layer of AUES debris seen in the north wall of the excavation. Currently, USACE is preparing a request for proposal to investigate the extent of this AUES debris layer.
- During excavation operations, additional small amounts of AUES debris were encountered and Grid excavation depths were increased at Grid F6 (4 to 5 ft), Grid E6 (4 to 7 ft), Grid E5 (5 to 7 ft), & Grid F5 (5 to 8 ft).

# PSB GRID EXCAVATION AND BACKFILL DEPTHS





# PUBLIC SAFETY BUILDING STATUS



- Backfill, fill compaction, and compaction density testing operations began at Grids E6/F6, E5 and F5 using approved backfill. Currently these grid cells have been backfilled to 3 feet below the former PSB slab elevation – to allow future access to the dark AUES debris layer which extends outside the former PSB footprint.



Excavator dumping backfill in Grid F6 and using compaction attachment in Grids E6 & F6.



# PUBLIC SAFETY BUILDING STATUS

- All Excavation floor Confirmation Soil Sample results for Grids have meet the cleanup criteria for CWA, metals, SVOCs, Cyanide, Explosives (Grid F3 only) and VOCs (none detected).
- Controlling water table and rainwater successfully. Each frac tank of water is sampled & analyzed prior to disposal.



AUES glassware in  
Grid E5 at 5 to 6  
feet below the slab.

Tanker truck  
pumping frac tank  
water for transport  
to disposal facility.



# PUBLIC SAFETY BUILDING - PHOTOS



**PSB Operations** – Excavator moving the sanitary sump and footer prior to breaking it up for disposal.



**North Wall Grid D3** – Test pit into the North Sidewall – chasing the dark AUES debris layer @ 6 feet from slab.





# PUBLIC SAFETY BUILDING – ONGOING TASKS

- E&S control inspections after major rain events.
- Excess water in the excavation will be pumped off into the Frac tank, as needed to keep the excavation from filling up with water.
- Remove terracotta pipe in Grids E3 and F3, then install bypass pipe.
- Continue soil excavations in each grid down to target depths based on the test pit AUES sorting results – **actual**/proposed end depths:
  - Grid E6/F6 - **7/5 ft** below slab
  - Grid E5 - **7 ft** below slab
  - Grid F5 - **8 ft** below slab
  - Grid E4 - 8 ft below slab
  - Grid F4 - 8 ft below slab
  - Grid E3 - 6 ft below slab
  - Grid F3 - 8 ft below slab
  - Grid E2 - **7 ft** below slab
  - Grid F2 - **6 ft** below slab



# PSB SCHEDULE



- Continue E&S controls inspections after rain events.
- Continue excavation to target depth and backfilling in Grid E2/F2, backfill to terracotta pipe invert depth, reroute pipe into backfilled Grids E2/F2.
- Continue sub-slab grid soil excavation with UXO Tech support & soil screening in 1-foot lifts and backfilling in Grids E3 and F3 to 3 feet below slab grade. Continue sub-slab grid soil excavation at grids E4 and F4.
- Latest schedule has PSB excavation work extending into late November.
- The excavation schedule may need to be extended depending on the results of the north slope investigation of the AUES debris extent. There will probably be an extended site shut down until funding and planning phases are completed.
- Restoration work would start after completing the north slope investigation and slope soil excavation – rebuilding the PSB slope and removing the access road.



# SOUTHERN AU EXPOSURE UNIT UPDATE



- DCRA approved the Excavation Permit for the two (2) Southern American University Exposure Unit excavations on September 8, 2020.
- Additional bamboo clearing was conducted on September 14, 2020 behind the Hamilton Building to provide better access to the locations.
- Erosion and sediment controls were installed on September 16, 2020.

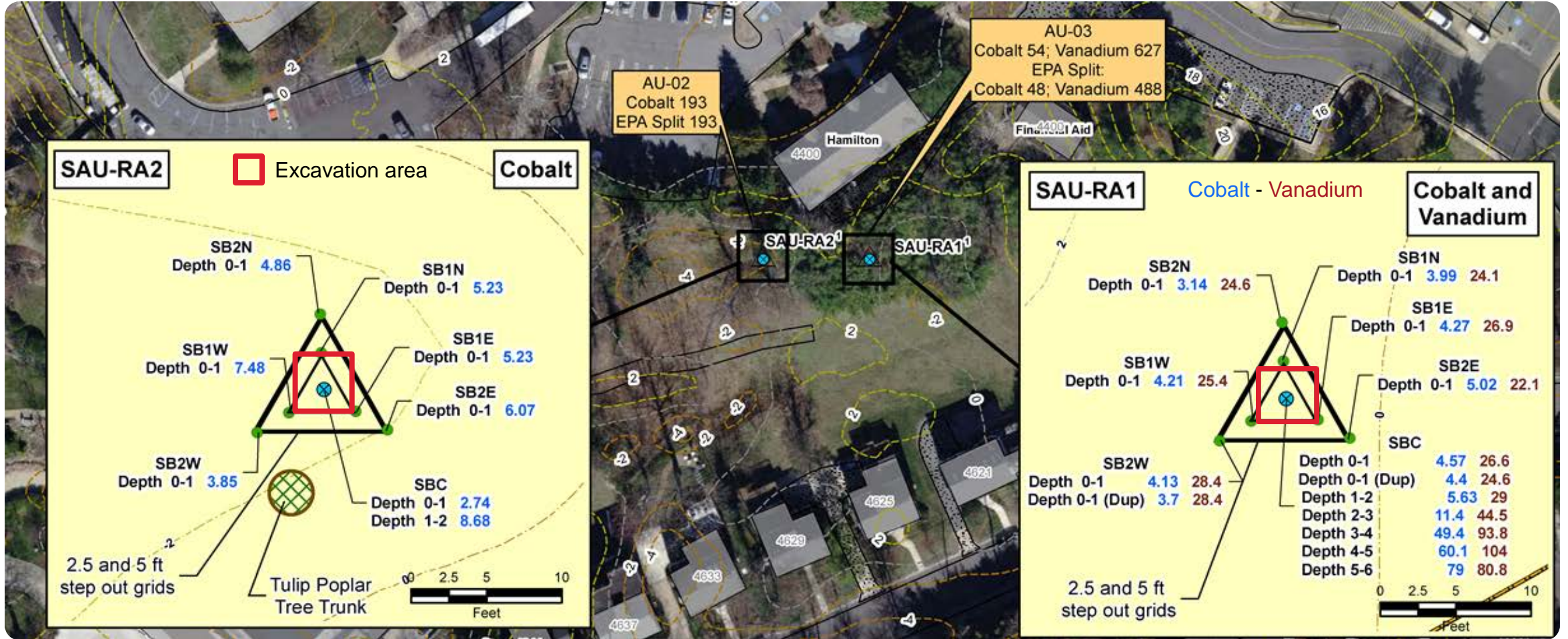


Access path to RA2 through bamboo behind Hamilton Bldg.



Access path to RA1 through bamboo from RA2 location with AU drain lines.

# SOUTHERN AU EXPOSURE UNIT MAP



**RA1 (AU-03)** – Soil removal at the center point down to 10 feet bgs and extending out 2.5 ft (5 ft by 5 ft excavation area). **RA2 (AU-02)** – Soil removal to 1 ft bgs around the center point and extending out 2.5 feet (5 ft by 5 ft excavation area) to remove the soil associated with original sample AU-02.



# SOUTHERN AU EU – SAMPLING RESULTS – RA1



Based on the initial shallow soil sampling results, additional deeper soil samples were collected at the RA1 center point down to 10 feet and at the step out points (north, east and west) at 4 to 5 ft.

Location ID	Grid ID	Depth (ft)	Soil Sample ID	Cleanup Goal*	Analyte	Result	Units
SWR-SAU-RA1	SB1E	4-5	SWR-SAU-RA1-SB1E-0405-00	46.8	Cobalt	14.5	mg/Kg
SWR-SAU-RA1	SB1N	4-5	SWR-SAU-RA1-SB1N-0405-00	46.8	Cobalt	24.4	mg/Kg
SWR-SAU-RA1	SB1W	4-5	SWR-SAU-RA1-SB1W-0405-00	46.8	Cobalt	13.9	mg/Kg
SWR-SAU-RA1	SB2E	4-5	SWR-SAU-RA1-SB2E-0405-00	46.8	Cobalt	34.5	mg/Kg
SWR-SAU-RA1	SB2N	4-5	SWR-SAU-RA1-SB2N-0405-00	46.8	Cobalt	11.0	mg/Kg
SWR-SAU-RA1	SB2W	4-5	SWR-SAU-RA1-SB2W-0405-00	46.8	Cobalt	34.2	mg/Kg
SWR-SAU-RA1	SBC	0-1	SWR-SAU-RA1-SBC0001-0-00	46.8	Cobalt	4.57	mg/Kg
SWR-SAU-RA1	SBC	0-1	SWR-SAU-RA1-SBC0001-0-01	46.8	Cobalt	4.40	mg/Kg
SWR-SAU-RA1	SBC	1-2	SWR-SAU-RA1-SBC0102-00	46.8	Cobalt	5.63	mg/Kg
SWR-SAU-RA1	SBC	2-3	SWR-SAU-RA1-SBC0203-00	46.8	Cobalt	11.4	mg/Kg
SWR-SAU-RA1	SBC	3-4	SWR-SAU-RA1-SBC0304-00	46.8	Cobalt	49.4	mg/Kg
SWR-SAU-RA1	SBC	4-5	SWR-SAU-RA1-SBC0405-00	46.8	Cobalt	60.1	mg/Kg
SWR-SAU-RA1	SBC	5-6	SWR-SAU-RA1-SBC0506-00	46.8	Cobalt	79.0	mg/Kg
SWR-SAU-RA1	SBC	6-7	SWR-SAU-RA1-SBC0607-00	46.8	Cobalt	53.1	mg/Kg
SWR-SAU-RA1	SBC	7-8	SWR-SAU-RA1-SBC0708-00	46.8	Cobalt	56.4	mg/Kg
SWR-SAU-RA1	SBC	8-9	SWR-SAU-RA1-SBC0809-00	46.8	Cobalt	51.8	mg/Kg
SWR-SAU-RA1	SBC	9-10	SWR-SAU-RA1-SBC0910-00	46.8	Cobalt	75.7	mg/Kg

79.0 – Exceeds criterion



Soil removed by excavation



# SOUTHERN AU EXPOSURE UNIT UPDATE



- Completed the shallow (1-foot) excavation at SAU-RA2 on September 17, 2020 using an air-knife and soil vacuum to protect the nearby Poplar tree.



Soil vacuum truck and air compressor used for air-knife operations.



Completed RA1 excavation at 5 ft by 5 ft by 1 ft deep.





# SOUTHERN AU EXPOSURE UNIT UPDATE



- Completed the deeper (10-foot) excavation at SAU-RA1 on 21 Sep. 2020 using a mini excavator. Cobalt exceeded the cleanup criterion (46.8 mg/kg) from 3 to 10 ft at the center point.





# SOUTHERN AU EXPOSURE UNIT UPDATE



- Filled the excavations with approved backfill and applied topsoil, cool season grass mix and erosion-control blanket to complete the restoration.
- Started working on the Southern AU EU Completion Report.







# QUESTIONS?



Please contact Dan Noble with any questions or concerns. USACE will set up a call to address any issues and answer questions, as needed. Dan's contact information is below:

[Dan.G.Noble@usace.army.mil](mailto:Dan.G.Noble@usace.army.mil)



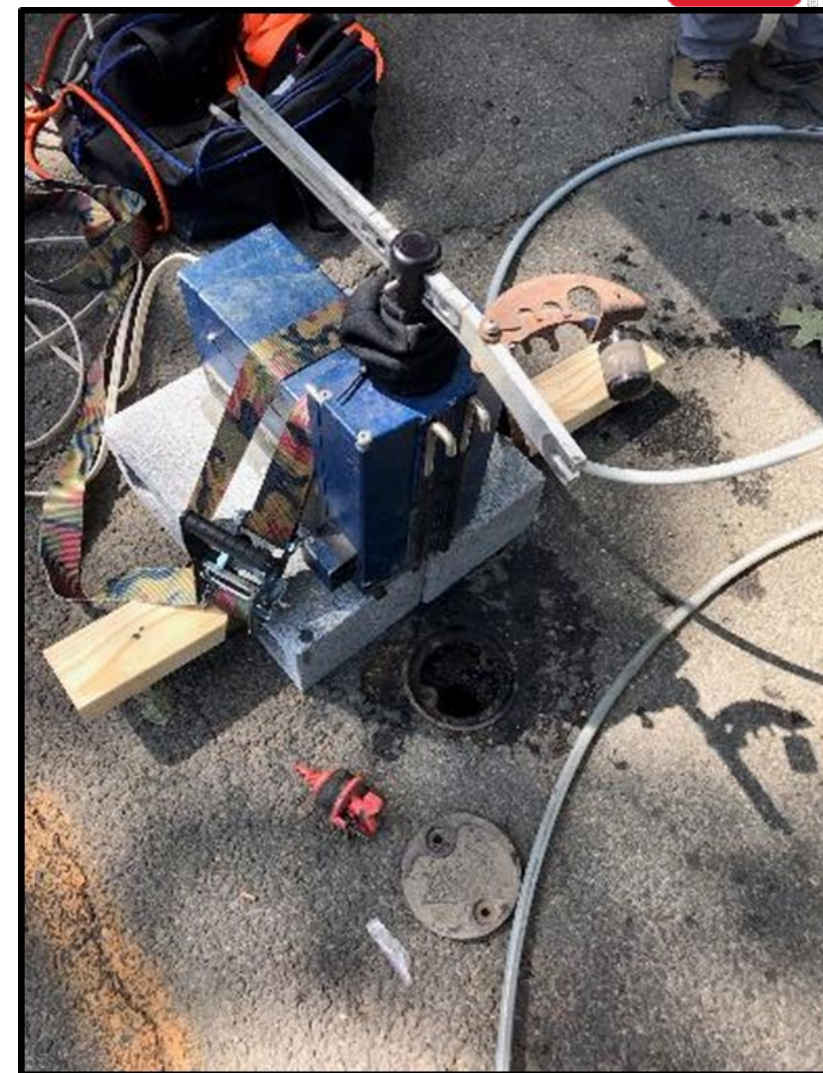
# GROUNDWATER STUDY



- The groundwater sampling event took place on June 23-26 and was conducted by the Army Corps and the U.S. Geological Survey (USGS).

## *Next Steps:*

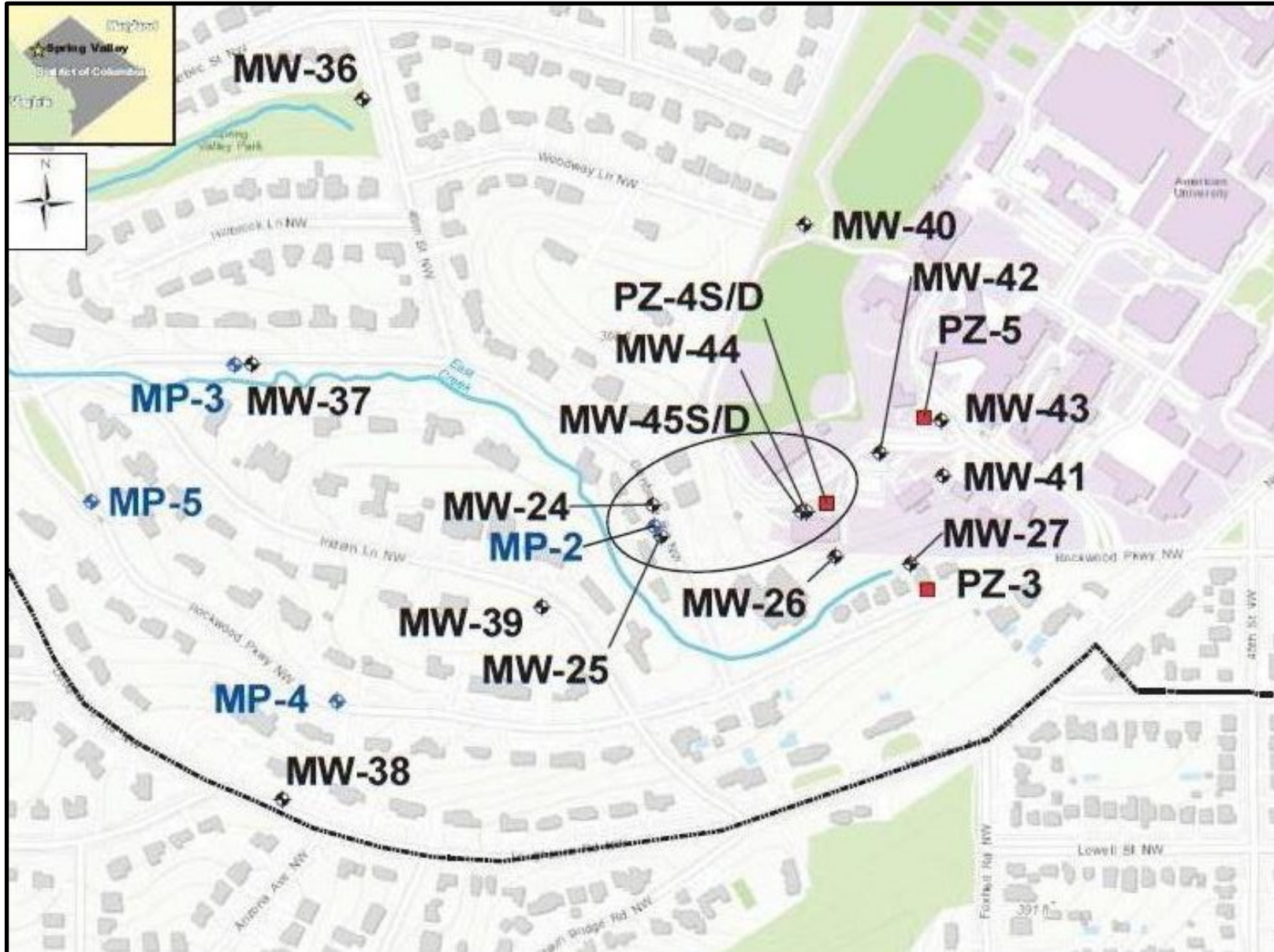
- The current sampling results are very similar to the results from last September. The Army Corps and Partners are currently discussing the path forward for the final groundwater approach for Arsenic.
- The Partners agreed to wait for the November update to the perchlorate Regional Screening Level (RSL) or any changes to the drinking water advisory level before conducting additional perchlorate sampling.



*Groundwater sampling well*



# 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.**



# TECHNICAL ASSISTANCE FOR PUBLIC PARTICIPATION (TAPP) ADVISOR UPDATE



- Following the RAB's decision, the 8A contract to the original contractor expired. USACE worked to redirect the offer to Dr. Chattopadhyay through Dayton Group Inc. (DGI).
- The two year contract for the TAPP advisor has been approved by USACE Headquarters and was awarded late September.
- Orientation and socially distanced site tour will be scheduled with the new TAPP advisor.



# SPRING VALLEY PARTNERS



## Reminders:

- Due to continued concerns surrounding the COVID-19 pandemic, the next Partners meeting for **December** will likely be an electronic update in lieu of an in-person meeting once again.
- Our team is continually monitoring the situation closely and is open to discuss plans for future in-person or conference call meetings.

## Upcoming Agenda Items:

- *Suggestions?*

