



SPRING VALLEY FORMERLY USED DEFENSE SITE

RAB Meeting Presentation
April 2023



US Army Corps
of Engineers®



AGENDA REVIEW



Co-Chair Updates

- Website Updates

Task Group Updates

USACE Updates

- USACE Team Members
- Site-Wide Remedial Action
- Groundwater Study
- Final RAB Meeting Planning

Future Partners Agenda Development





SPRING VALLEY FUDS RESTORATION ADVISORY BOARD

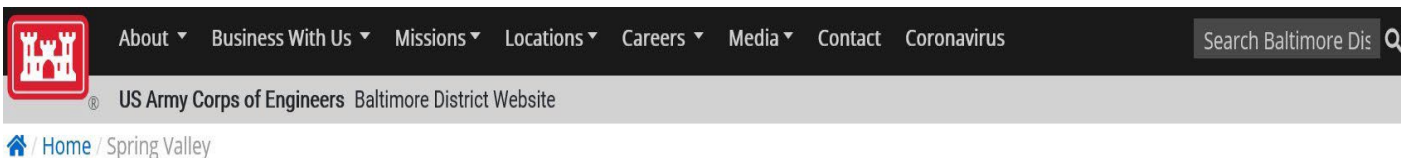
CO-CHAIR UPDATES





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:

- Project Updates now limited to website updates
- October RAB meeting presentation and minutes posted
- No Partner updates since last meeting



CO-CHAIR UPDATES



Contractor/Support Updates:

- Weston Solutions recently (March 2023) placed under contract to conduct the Public Safety Building (PSB) Hillside excavation – Weston also conducted the Under Slab portion of the PSB work
- Efforts underway to obtain a new security contractor by September 1, 2023
- Ames 1, facility maintenance contractor for Fed Property, recently completed project to maintain and paint trailers at the site

Fed Property Trailers Maintenance Photos



↑BEFORE and AFTER↓



USACE TEAM MEMBERS

USACE Updates



SPRING VALLEY FUDS TEAM MEMBERS AS OF APRIL 2023

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▪ Spring Valley Project Delivery Team

- Dan Noble, Project Manager
- Todd Beckwith, Groundwater Project Manager
- Cynthia Mitchell, Public Affairs Officer
- Carlos Lazo, Government Affairs Officer
- Kim Berg, Project Engineer
- Ian Delwiche, Project Geotechnical Engineer
- David King, Project Geophysicist
- Cliff Opdyke, Project Risk Assessor
- Genet Tulu, Project Safety/Occupational Health Specialist
- Todd Steelman, Project Ordnance/Explosive Safety Officer





SPRING VALLEY FUDS

RESTORATION ADVISORY BOARD

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SITE-WIDE REMEDIAL ACTION (RA)

92 Properties - USACE Updates



RESIDENTIAL PROPERTIES – RA MEC/MD FINDS

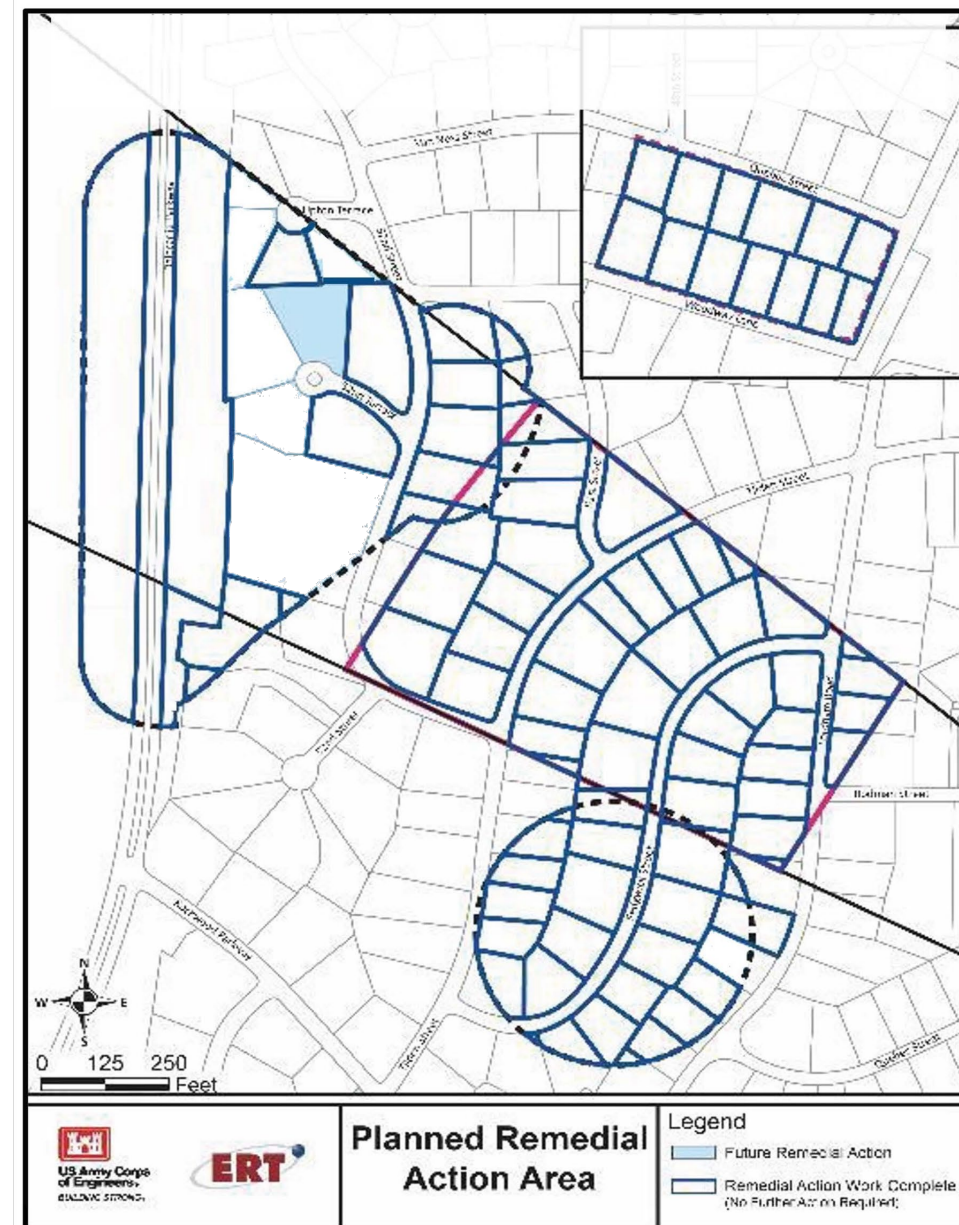
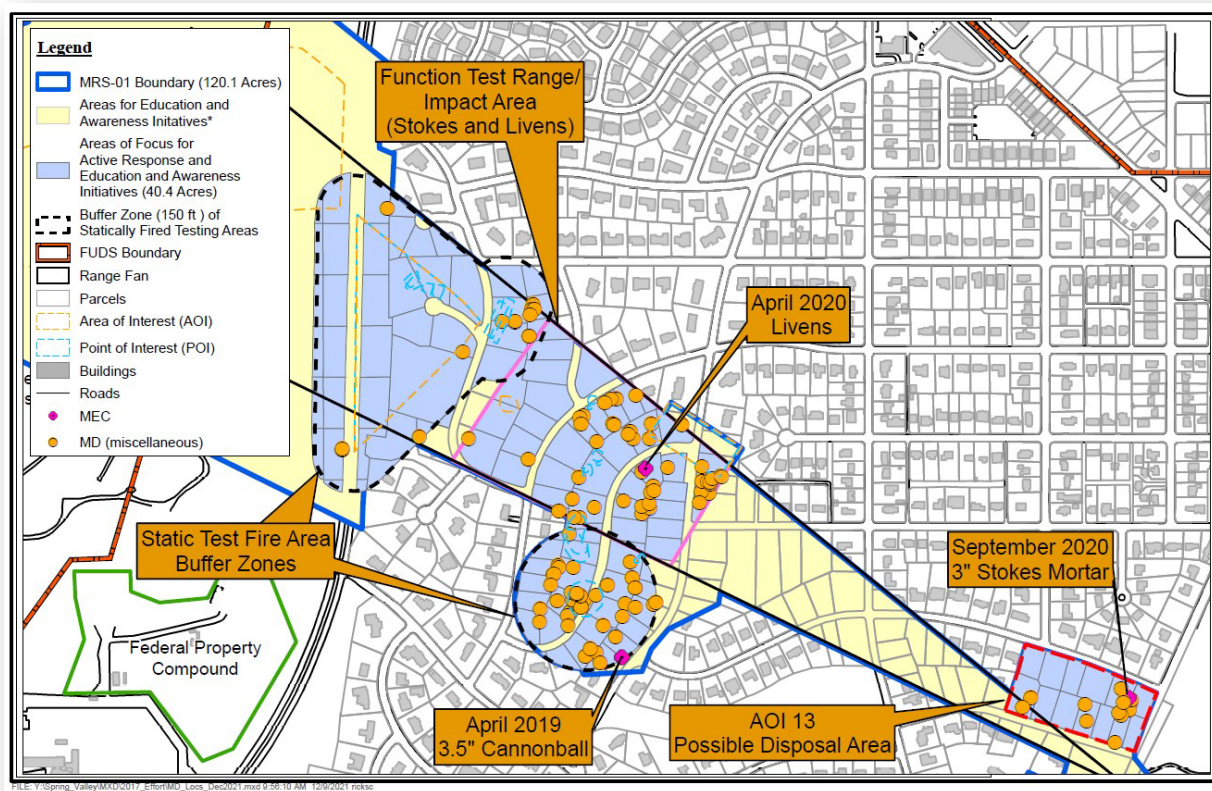


Figure 3.2-1
Area of Interest (AOI)-13
Accessible MPV Coverage

Legend

- AOI-13
- Parcels
- Accessible/No Coverage
- Inaccessible Areas
- MPV Coverage
- Property Features

0 25 50 100 Feet



Note:
Includes MPV coverage collected during the 2017
Pilot Study conducted at 4740 and 4720 Quebec
Street NW and 4733 Woodway Lane NW
(USACE, 2017b).

AOI-13 = 141,408.41 square feet (ft²)
Inaccessible Areas (Includes Trees, Buildings, Saturation Buffer, and Streets) = 30,590.92 (ft²)
AOI-13 - Inaccessible Area = 110,817.49 (ft²)
Accessible/No Coverage (Green) = 6,874.17 (ft²)
MPV Coverage Survey Area = 103,943.32 (ft²)
Coverage = 93.7%

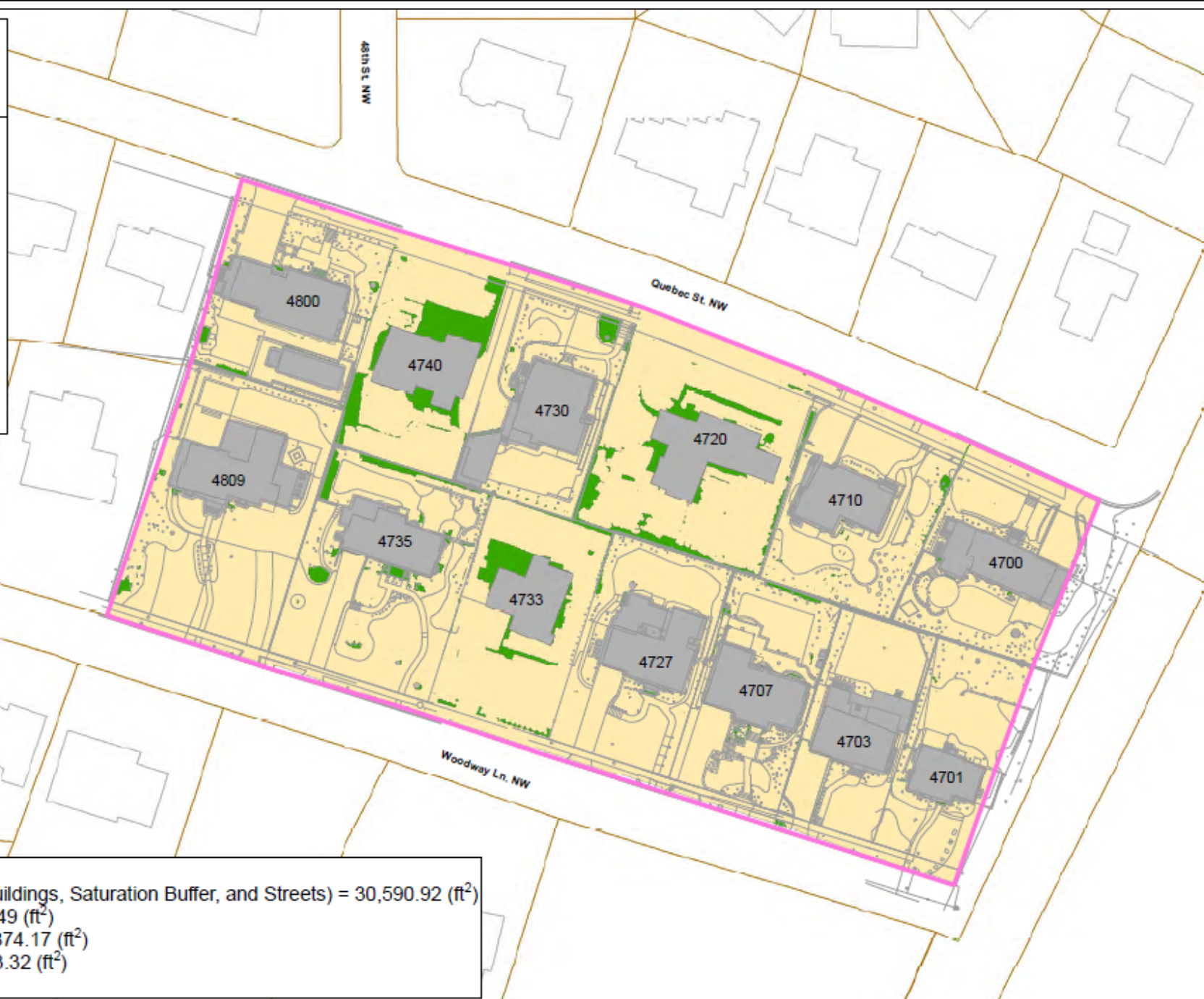




Figure 3.2-2
Area of Interest (AOI)-13
Overall MPV Coverage

Legend

-  AOI-13
-  MPV Coverage

0 25 50 100 Feet



Note:
Includes MPV coverage collected during the 2017
Pilot Study conducted at 4740 and 4720 Quebec
Street NW and 4733 Woodway Lane NW
(USACE, 2017b).



AOI-13 = 141,408.41 square feet (ft²)
MPV Coverage Survey Area = 103,943.32 (ft²)
Survey Coverage = 73.5%

Figure 3.2-3
Static Test Fire Area East
Accessible MPV Coverage

Legend

- Static Test Fire Area East
- Parcels
- Accessible/No Coverage
- Inaccessible Areas
- MPV Coverage
- Property Features

0 25 50 100 Feet



Static Test Fire Area Buffer Zone = 240,240.41 square feet (ft²)
 Inaccessible Areas (Includes Trees, Buildings, Saturation Buffer, and Streets) = 64,326.99 (ft²)
 Property - Inaccessible Area = 175,913.42 (ft²)
 Accessible/No Coverage = 9,436.32 (ft²)
 MPV Coverage Survey Area = 166,477.1 (ft²)
 Coverage = 94.6%

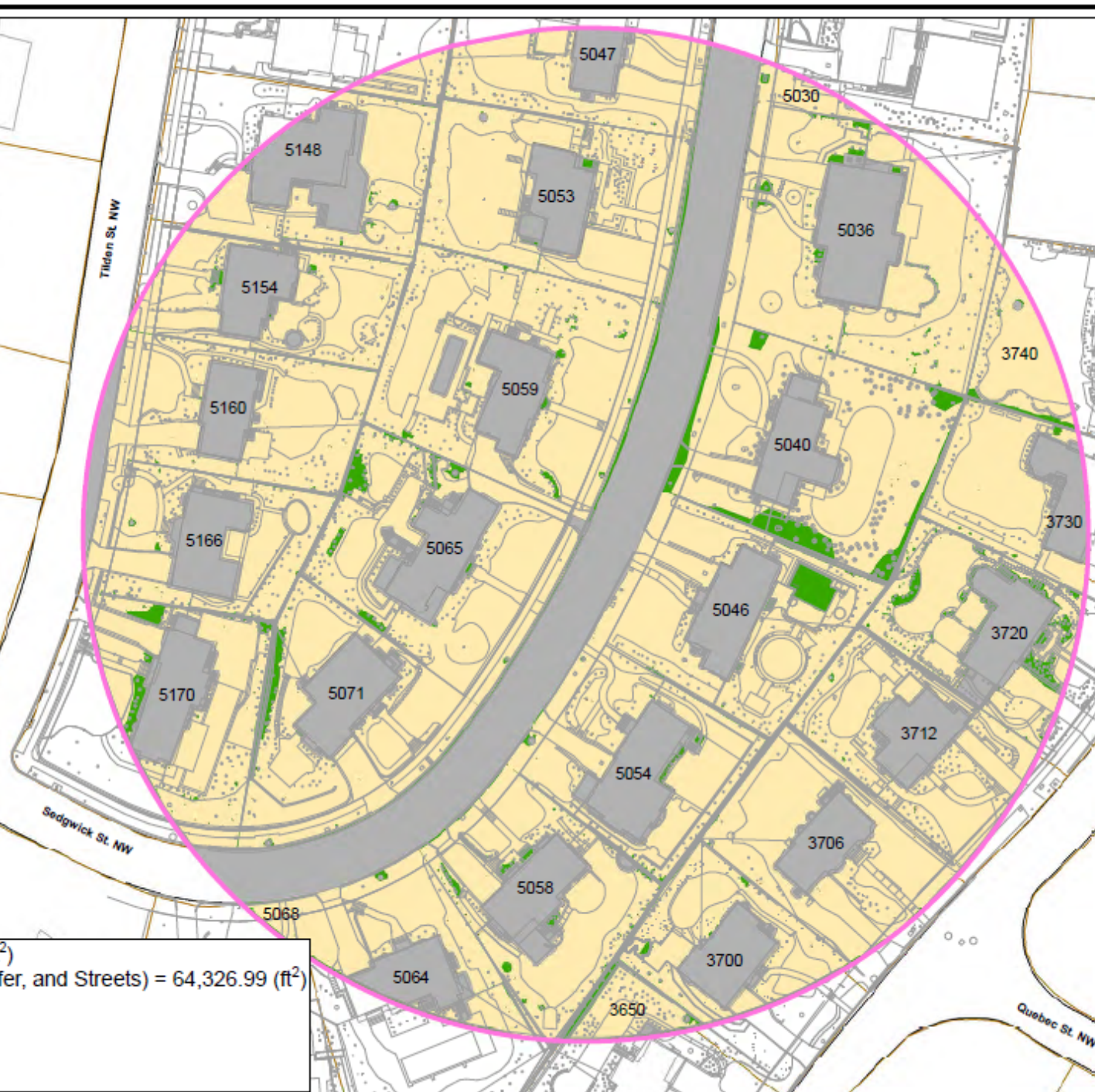


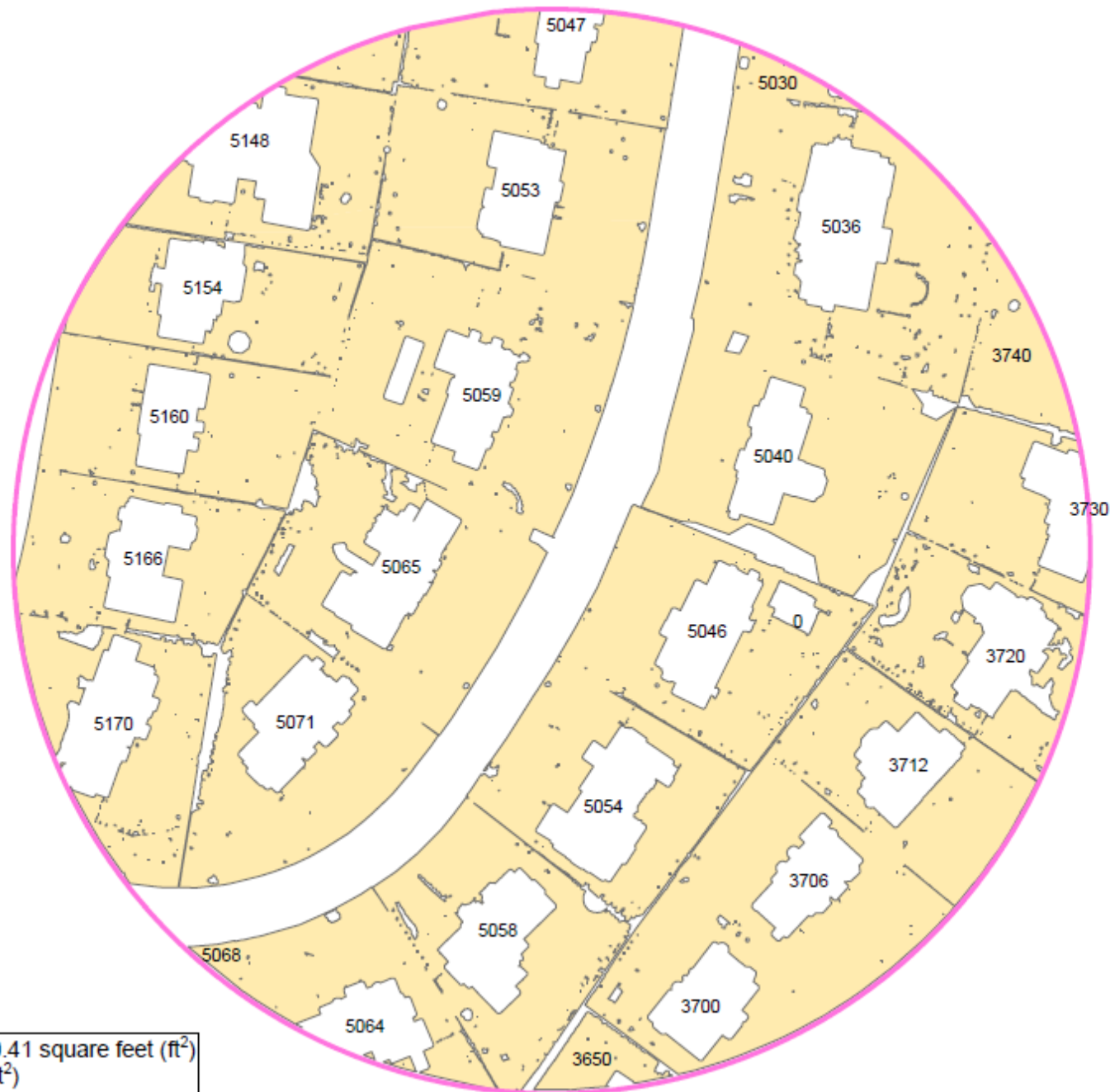


Figure 3.2-4
Static Test Fire Area East
Overall MPV Coverage

Legend

-  Static Test Fire Area East
 MPV Coverage

0 25 50 100 Feet



Static Test Fire Area Buffer Zone = 240,240.41 square feet (ft²)
MPV Coverage Survey Area = 166,477.1 (ft²)
Survey Coverage = 69.2%

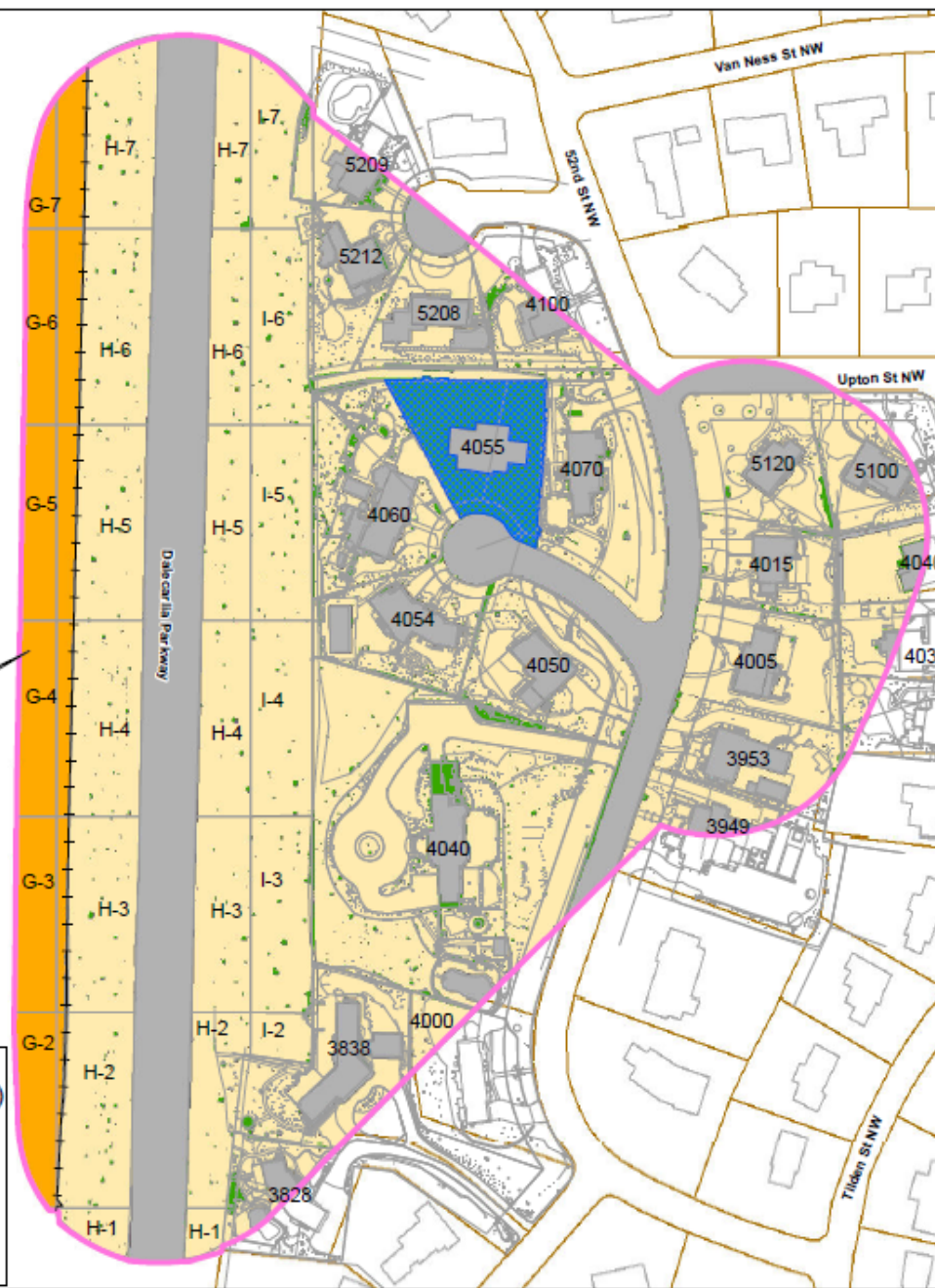
Figure 3.2-5
Static Test Fire Area West
Accessible MPV and
Analog Coverage

Legend

- Static Test Fire Area West
- Parcels
- Refused ROE
- Full Coverage Mag and Dig
- Accessible/No Coverage
- Inaccessible Areas
- MPV Coverage
- Property Features
- Fence






Dalecarlia Reservoir Property

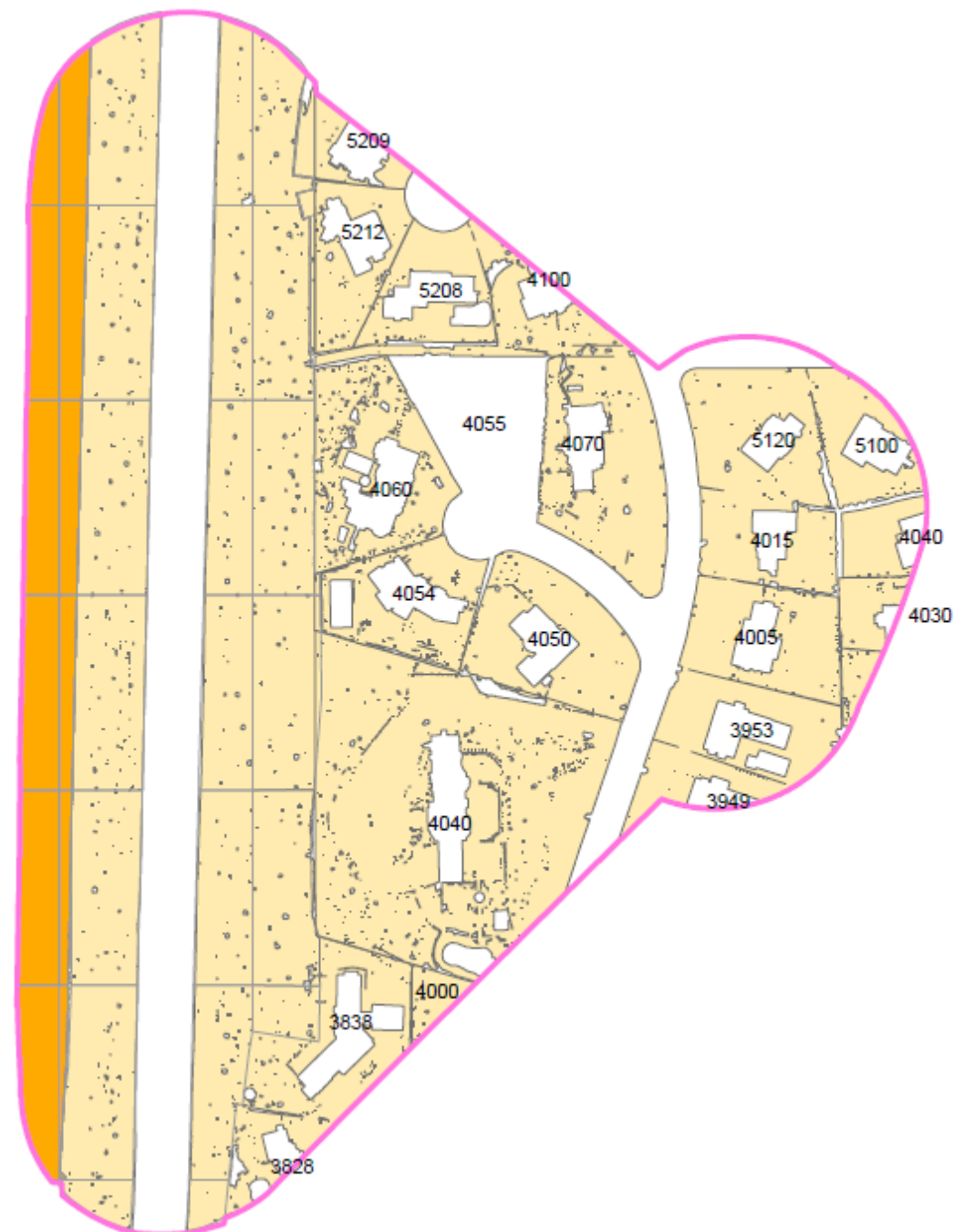


Static Test Fire Area Buffer Zone = 738,357.13 square feet (ft²)
 Inaccessible Areas (Includes Trees, Buildings, Saturation Buffer, and Streets) = 169,401.82 (ft²)
 Property - Inaccessible Area = 568,955.31 (ft²)
 Accessible/No Coverage = 28,973.48 (ft²)
 MPV Coverage Survey Area = 539,981.83 (ft²)
 MPV Coverage East of Dalecarlia Reservoir Fence = 94.3%
 Analog Coverage Survey Area = 60,650.96 (ft²)
 Remedial Survey Coverage = 94.9%

Figure 3.2-6
Static Test Fire Area West
Overall MPV and
Analog Coverage

Legend

-  Static Test Fire Area West
-  MPV Coverage
-  Full Coverage Mag and Dig



Static Test Fire Area Buffer Zone = 738,357.13 square feet (ft²)
 MPV Coverage Survey Area = 539,981.83 (ft²)
 MPV Coverage East of Dalecarlia Reservoir Fence = 73.1%
 Analog Coverage Survey Area = 60,650.96 (ft²)
 Remedial Survey Coverage = 81.3%

Figure 3.2-7
Function Test Range
Impact Area
Accessible MPV Coverage

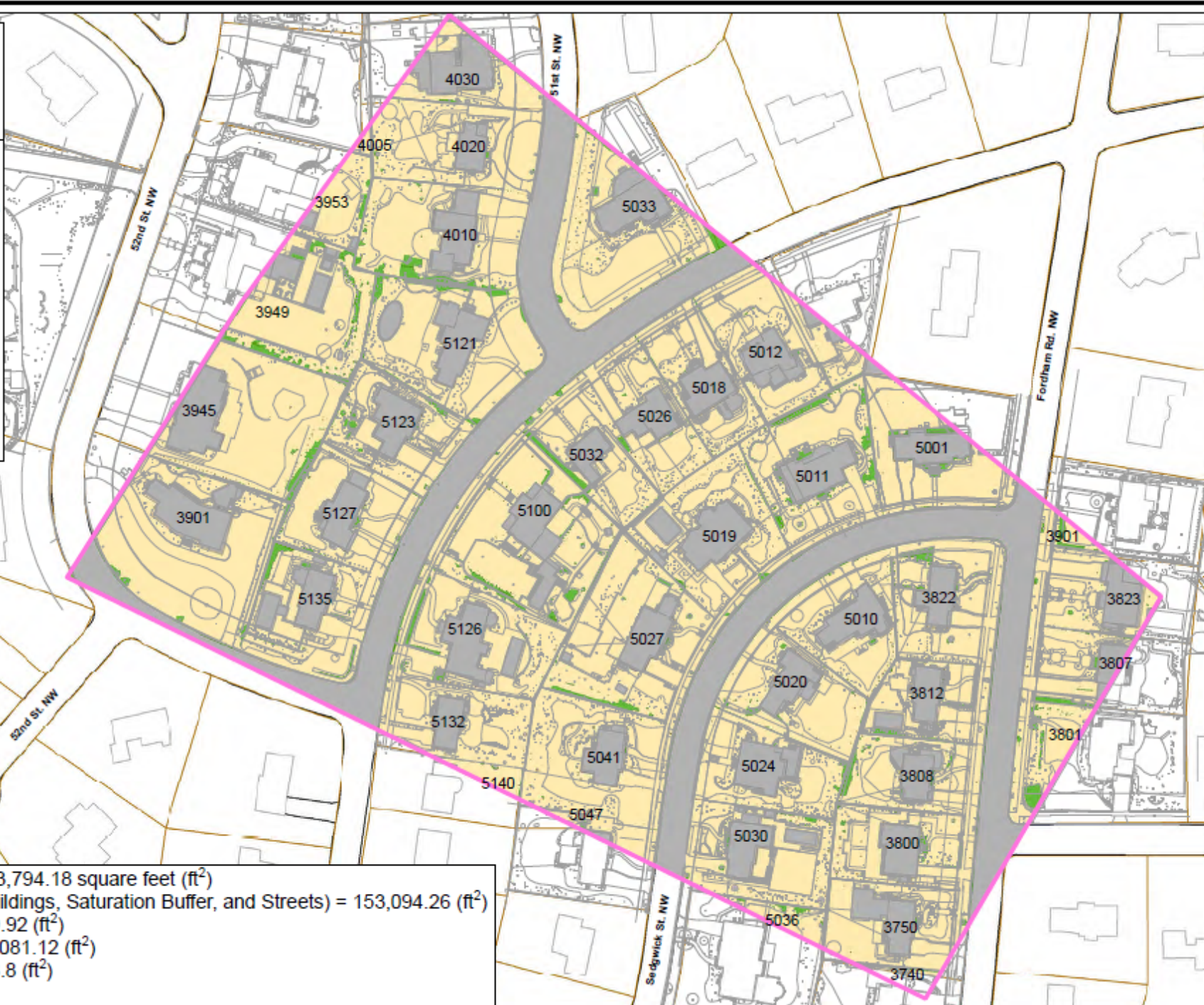
Legend

- Function Test Range Impact Area
- Parcels
- Accessible/No Coverage
- Inaccessible Areas
- MPV Coverage
- Property Features


0 45 90 180 Feet




Function Test Range/Impact Area = 523,794.18 square feet (ft²)
 Inaccessible Areas (Includes Trees, Buildings, Saturation Buffer, and Streets) = 153,094.26 (ft²)
 Property - Inaccessible Area = 370,699.92 (ft²)
 Accessible/No Coverage (Green) = 21,081.12 (ft²)
 MPV Coverage Survey Area = 349,618.8 (ft²)
 Coverage = 94.3%

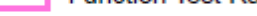



Legend

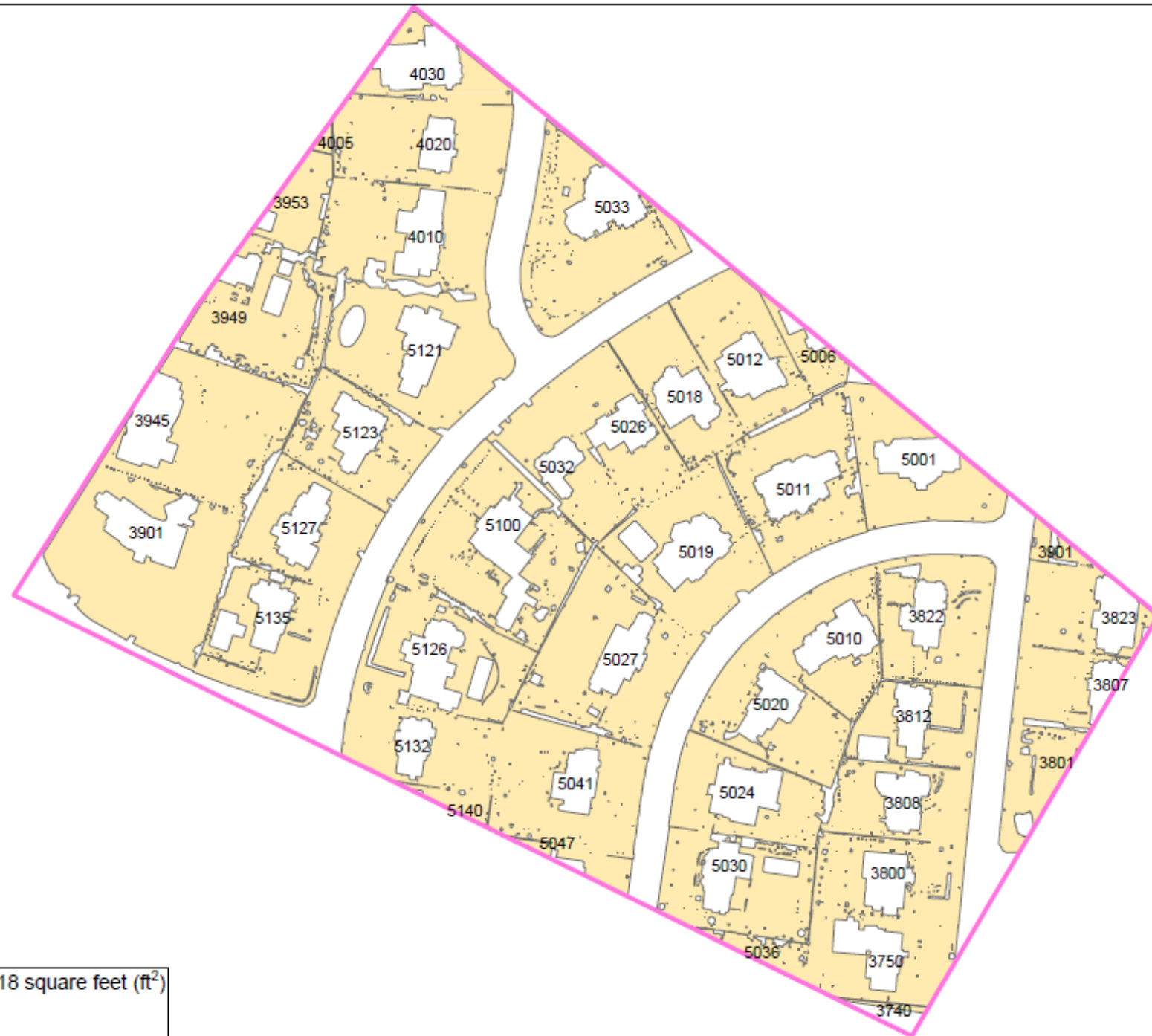
 Function Test Range Impact Area

 MPV Coverage

0 45 90 180 Feet







Function Test Range/Impact Area = 523,794.18 square feet (ft²)
MPV Coverage Survey Area = 349,618.8 (ft²)
Survey Coverage = 66.7%



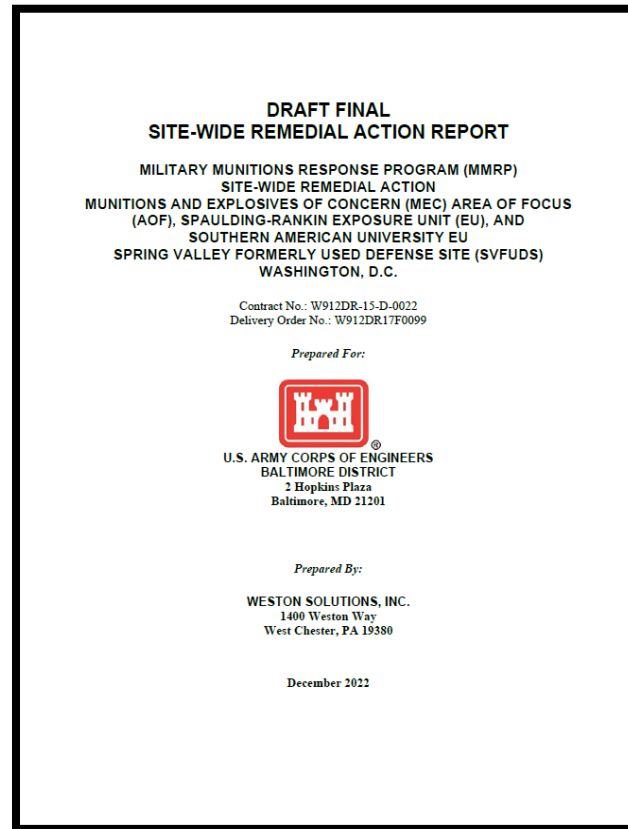
SITE-WIDE REMEDIAL ACTION

Tentative Schedule



Spring 2023

- Receive comments from Partners on Draft Final Report
- Issue Final Report, post on website





SPRING VALLEY FUDS

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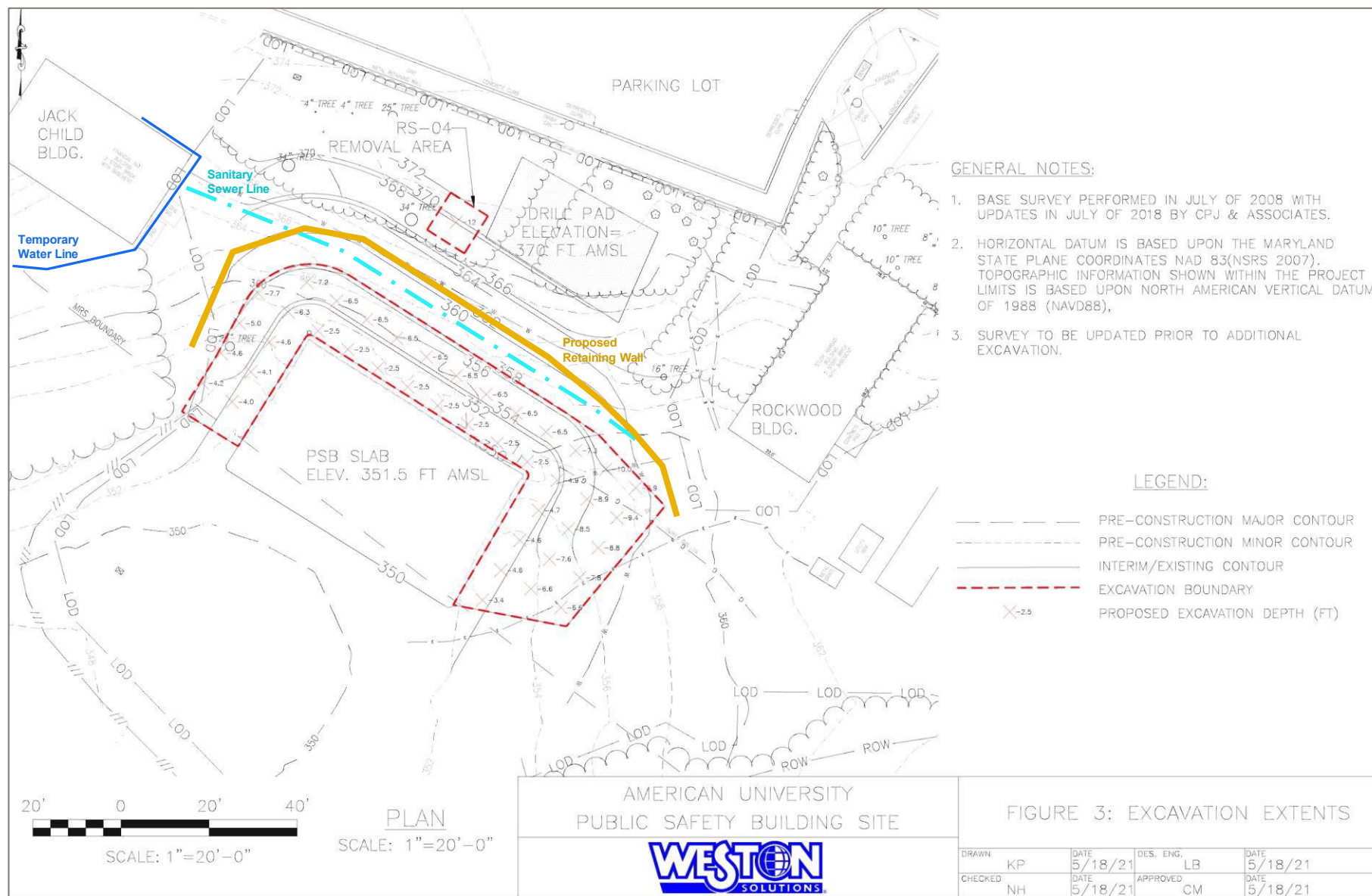
SITE-WIDE REMEDIAL ACTION (RA)

Public Safety Building (PSB) - USACE Updates





PSB SLOPE PROPOSED EXCAVATION EXTENT





PUBLIC SAFETY BUILDING UPDATE

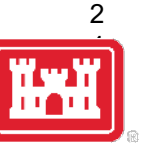
- Demobilization from the PSB site on 16 April 2021.
- Resume E&S Control Inspections in April 2023, will continue through work start.
- New contractor (Weston) hired in March 2023 to finish PSB effort.
- Contract period of performance is for 24 months
- Targeting March 2025 for work completion





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USACE Updates

2023 Groundwater Remedial Investigation (RI) Addendum Update

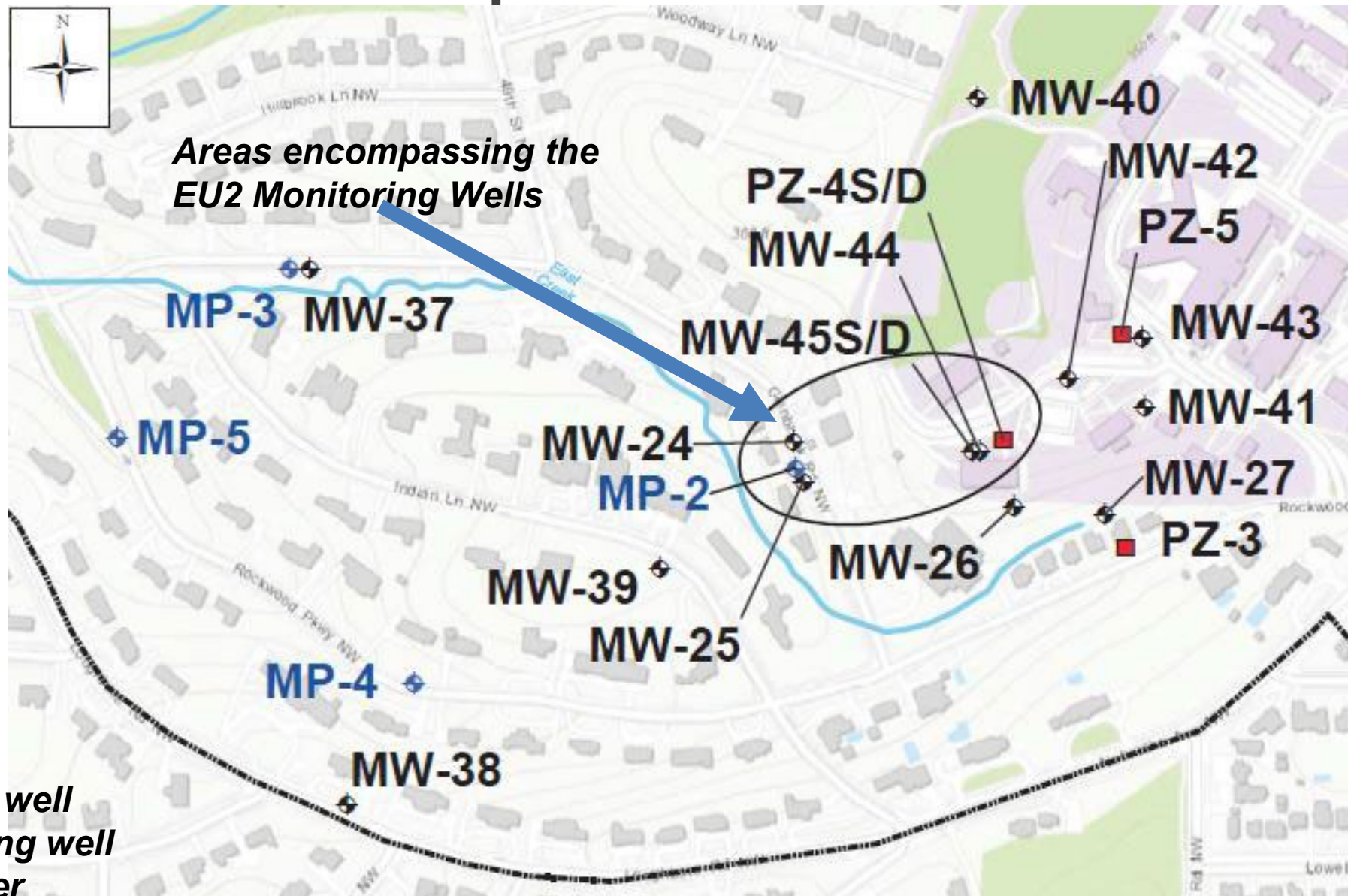




Groundwater Remedial Investigation (RI)

- Groundwater RI initiated in 2005, sampling conducted at 56 monitoring wells and 27 surface water locations from 2005 through 2015
- 2016 RI Report identified unacceptable risk from exposure to perchlorate and arsenic in groundwater at Exposure Unit 2 (EU2), assuming the groundwater is used for drinking water
- 2018 Proposed Plan: USACE Baltimore District, DOEE and USEPA disagreed upon proposed final remedy at EU2
- Dispute Resolution - Conduct further groundwater sampling at EU2 – Three groundwater sampling events were completed in 2019, 2020, and 2021 to evaluate changes in perchlorate and arsenic concentrations in EU2.

Exposure Unit 2



MP = Multiport well
MW = Monitoring well
PZ = Piezometer

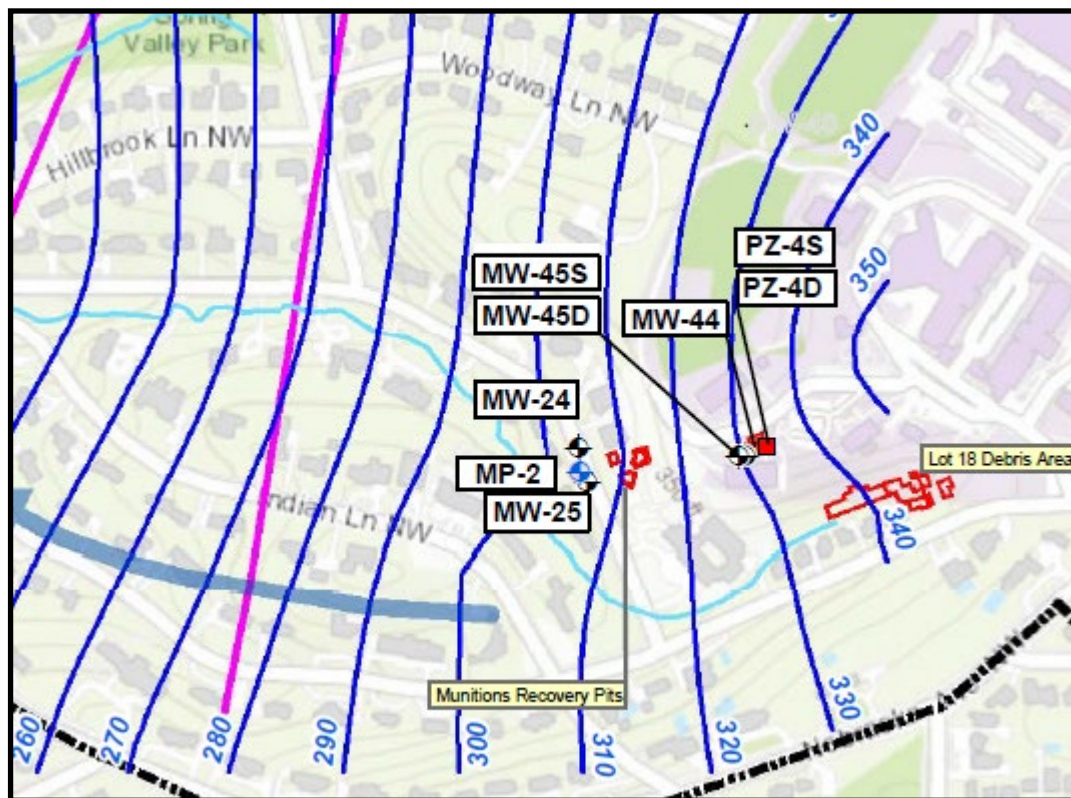


Remedial Investigation (RI) Addendum

- After completion of the 2019-2021 Groundwater Sampling, the Partners agreed that additional monitoring was not required, and No Action is expected to be required.
- RI Addendum was prepared to document the recent monitoring results and complete an updated risk assessment
- SVFUDS Groundwater RI Addendum was submitted in January 2023 to DOEE and USEPA
- USEPA and DOEE comments were received Feb/March 2023
- RI Addendum and HHRA are undergoing revisions

Remedial Investigation (RI) Addendum

Arsenic and Perchlorate at EU2



- 2019 to 2020 groundwater concentrations for arsenic are below the federal maximum contaminant level (MCL) of 10 µg/L
- 2019 to 2021 groundwater concentrations for perchlorate range from 2 µg/L to 32.5 µg/L with some concentrations (MW-44 and PZ-4D) still above drinking water health advisory of 15 µg/L
- Groundwater trend analyses for arsenic and perchlorate were updated; EU2 wells show either no trend or downward concentration trends



Remedial Investigation (RI) Addendum

■ 2023 Human Health Risk Assessment

- **CANCER RISK (CR)** = Probability of an individual developing cancer over a lifetime of exposure
 - No unacceptable cancer risk for Current and Future Land Use
- **NON-CANCER HAZARD INDEX (HI)** = Sum of chemical non-cancer hazard estimates for all exposure pathways evaluated for each receptor
 - No unacceptable non-cancer risk for Current Land Use
 - For Future Land Use, if groundwater is used as a drinking water source, HI threshold of 1 is exceeded for endocrine system (HI=2 for perchlorate and cobalt)



Remedial Investigation (RI) Addendum

■ Summary, Conclusions, and Recommendations

- No unacceptable risk for Current Land Use.
- For potential Future Land Use (groundwater used as drinking water)
 - Perchlorate detection contributing to $HI > 1$ (and above drinking water health advisory level (DWHA) of 15 ppb) is limited to one isolated location. One location with a detection above DWHA is insignificant, and does not warrant additional actions.
 - Trend analysis indicates that perchlorate concentrations are decreasing.
 - Soil source removals conducted from 1999 through 2022 have likely removed source materials that contributed to groundwater contamination
 - Groundwater is currently not used as a drinking water source (municipal water supply for the neighborhood)
- ✓ **RI Addendum conclusion is No Action is required for Groundwater**



Remedial Investigation (RI) Addendum



■ Next Steps...

- Revise the RI Addendum per USEPA Comments and resubmit the RI Addendum to Partners
- 2023 RI Addendum identified no actionable risk from exposure to groundwater at SVFUDS, pending final Partner concurrence
- No Action Proposed Plan will be submitted for public comment in fall 2023
- Public Meeting for Proposed Plan in fall 2023
- Final Decision Document in 2024



Future RAB Meetings



- Final formal RAB meeting on Oct 10, 2023!
- In-person final meeting?
- RAB meetings will be discontinued in 2024.





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Reminders:

The next RAB meeting date is October 10, 2023. More information to come.

