SPRING VALLEY FORMERLY USED DEFENSE SITE

Restoration Advisory Board Meeting
March 2021

U.S.ARMY

US Army Corps of Engineers®

AGENDA REVIEW

Co-Chair Updates

- Website Updates

Task Group Updates

- New Membership Chair Vote

USACE Updates

- Site-Wide Remedial Action
- Glenbrook Road
- Groundwater

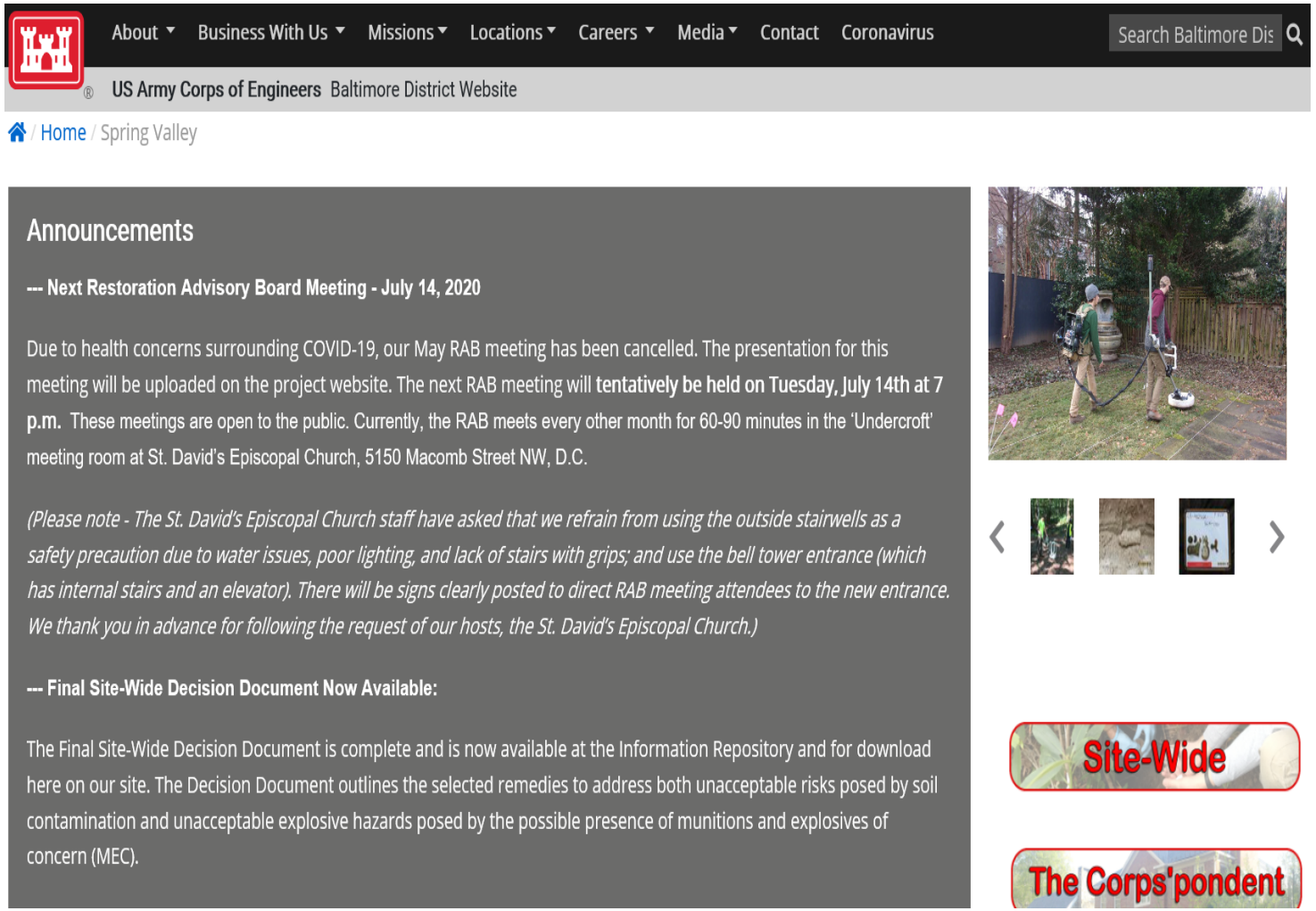
Future RAB Agenda Development

- May 11th, 2021 RAB meeting

SPRING VALLEY FUDS
RESTORATION ADVISORY BOARD

CO-CHAIR UPDATES

CO-CHAIR UPDATES



Website Updates:

- January and February Monthly Site-Wide Project Updates
- January RAB meeting minutes have been posted to the project site
- Weekly 4825 Glenbrook Rd Project Updates with photos
- December and February Partner meetings update presentations were posted in lieu of meeting minutes

SPRING VALLEY FUDS
RESTORATION ADVISORY BOARD

TASK GROUP UPDATES

TASK GROUP UPDATES

Open Positions on the RAB

- Malcom Pritzker recently stepped down from the RAB, leaving the position of membership chair open on the RAB.
- With open seats on the RAB, it was suggested to take a vote fill the positions or leave them open for now.

SPRING VALLEY FUDS
RESTORATION ADVISORY BOARD

SITE-WIDE REMEDIAL ACTION (RA)

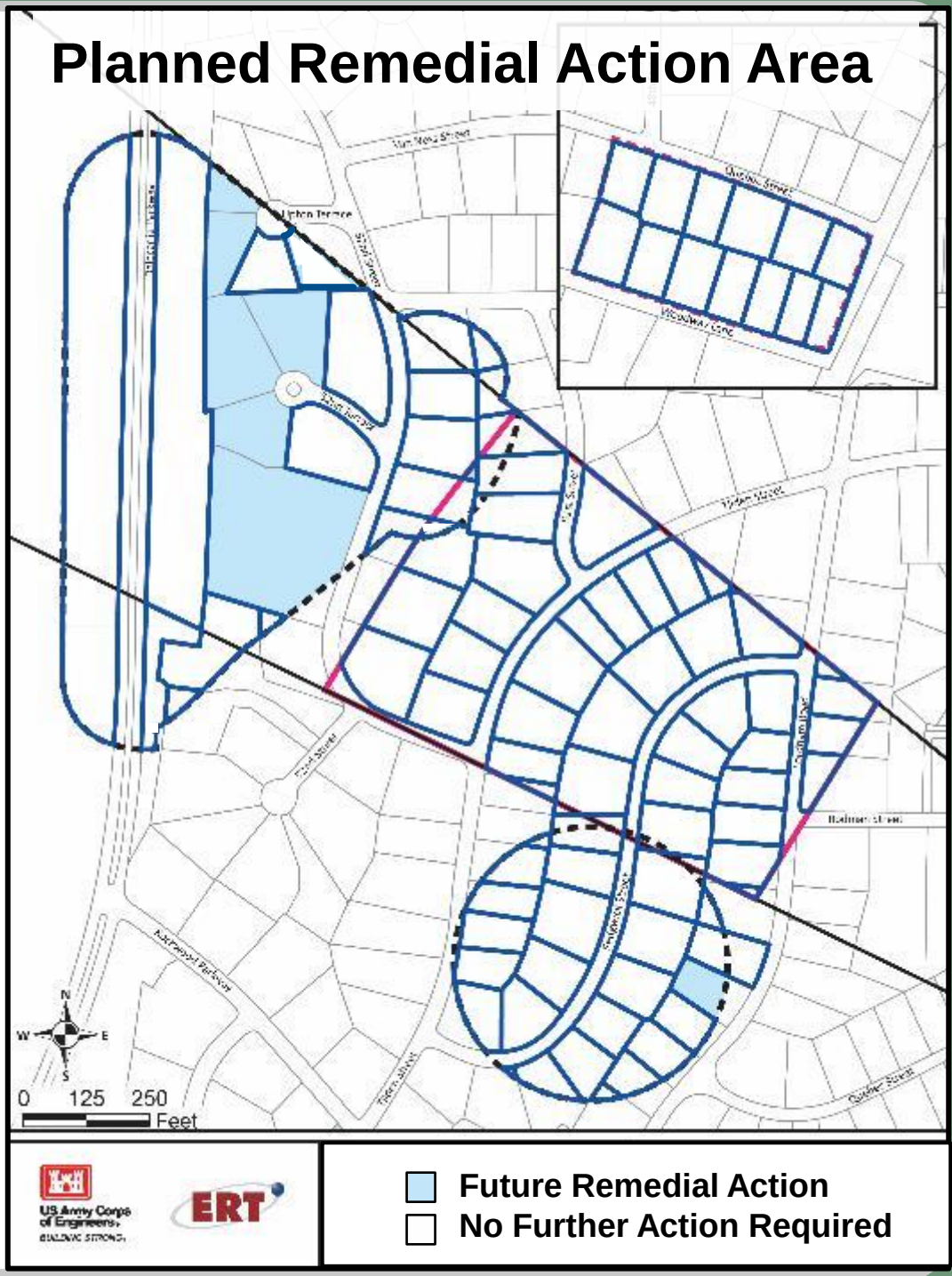
92 Properties - USACE Updates

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 85 private properties and 13 City/Fed lots.
- Geophysical surveys completed at 85 private properties and 13 City/Fed lots off Dalecarlia Parkway.
- Anomaly removal completed at 85 private properties and 13 City/Fed lots off Dalecarlia Parkway.
- Issued 55 Assurance Letters.



SITE-WIDE REMEDIAL ACTION

92 Properties - USACE Updates

As the Remedial Action efforts conclude, a Final Report will be written to include all the clean-up efforts that were completed during the Remedial Action. The report will include several maps, which visually reflect the achieved survey geophysical coverage in the Area of Focus of the 92 private properties and 13 city/federal lots. The following maps will be updated as the team continues efforts in Spring Valley.

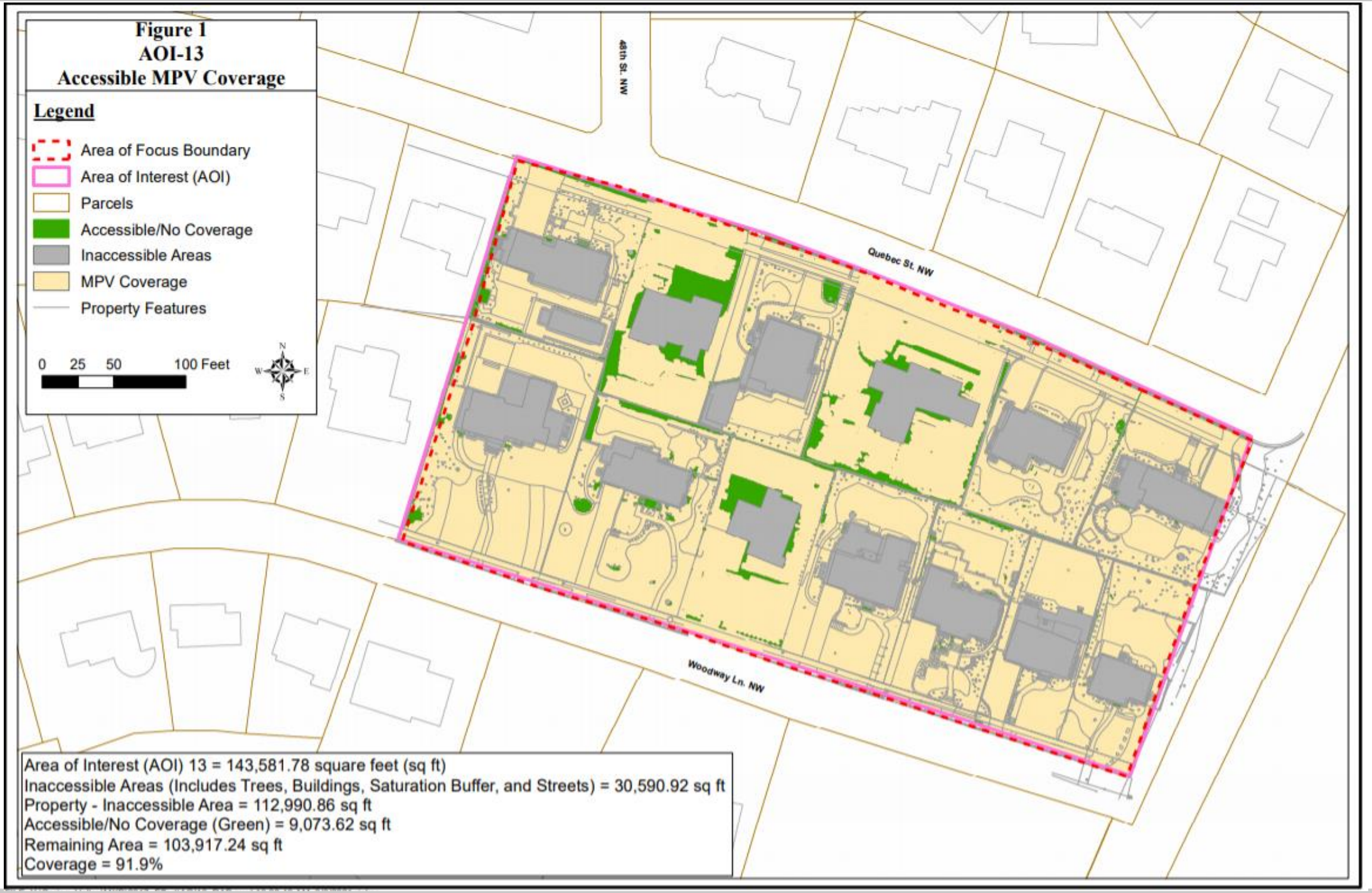


Figure 1
AOI-13
Accessible MPV Coverage
Legend
Area of Focus Boundary
Area of Interest (AOI)
Parcels
Accessible/No Coverage
Inaccessible Areas
MPV Coverage
Property Features
0 25 50 100 Feet
N
W
E
S
48th St. NW
Quebec St. NW
Woodway Ln. NW
Area of Interest (AOI) 13 = 143,581.78 square feet (sq ft)
Inaccessible Areas (Includes Trees, Buildings, Saturation Buffer, and Streets) = 30,590.92 sq ft
Property - Inaccessible Area = 112,990.86 sq ft
Accessible/No Coverage (Green) = 9,073.62 sq ft
Remaining Area = 103,917.24 sq ft
Coverage = 91.9%

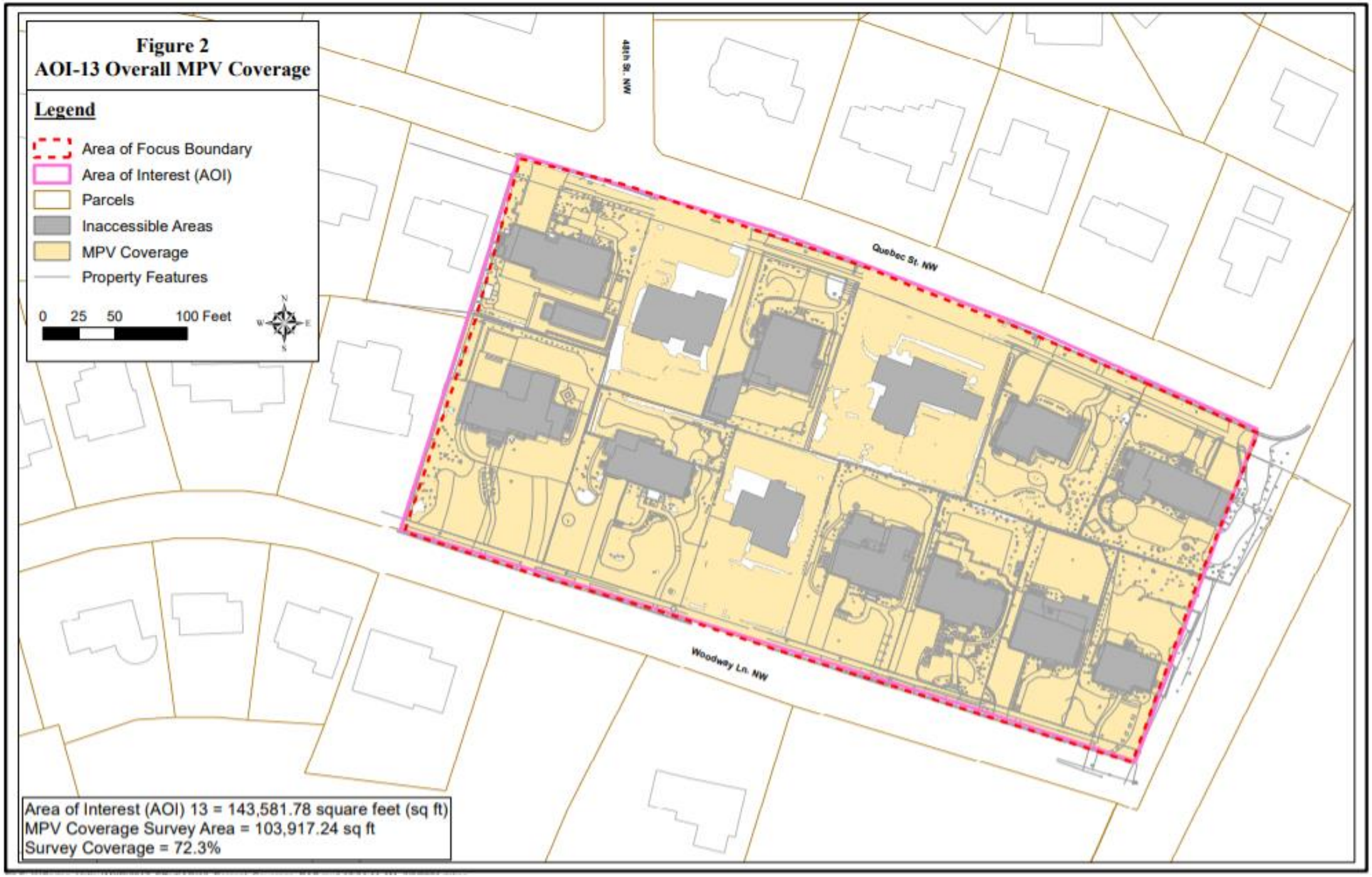
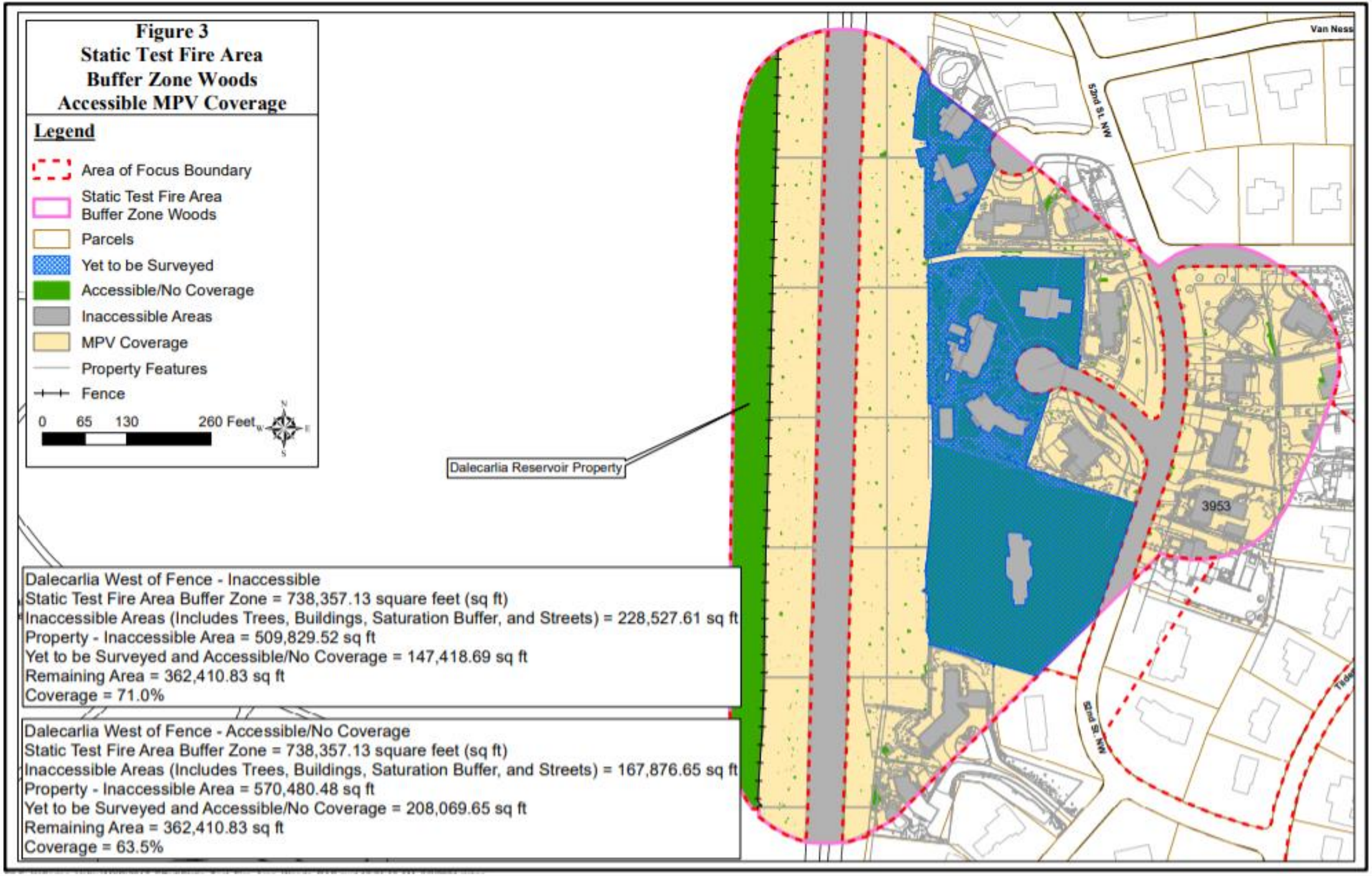


Figure 2
AOI-13 Overall MPV Coverage
Legend
Area of Focus Boundary
Area of Interest (AOI)
Parcels
Inaccessible Areas
MPV Coverage
Property Features
0 25 50 100 Feet
N
W
E
S
48th St. NW
Quebec St. NW
Woodway Ln. NW
Area of Interest (AOI) 13 = 143,581.78 square feet (sq ft)
MPV Coverage Survey Area = 103,917.24 sq ft
Survey Coverage = 72.3%

Figure 3
Static Test Fire Area
Buffer Zone Woods
Accessible MPV Coverage



Dalecarlia West of Fence - Inaccessible
Static Test Fire Area Buffer Zone = 738,357.13 square feet (sq ft)
Inaccessible Areas (Includes Trees, Buildings, Saturation Buffer, and Streets) = 228,527.61 sq ft
Property - Inaccessible Area = 509,829.52 sq ft
Yet to be Surveyed and Accessible/No Coverage = 147,418.69 sq ft
Remaining Area = 362,410.83 sq ft
Coverage = 71.0%

Dalecarlia West of Fence - Accessible/No Coverage
Static Test Fire Area Buffer Zone = 738,357.13 square feet (sq ft)
Inaccessible Areas (Includes Trees, Buildings, Saturation Buffer, and Streets) = 167,876.65 sq ft
Property - Inaccessible Area = 570,480.48 sq ft
Yet to be Surveyed and Accessible/No Coverage = 208,069.65 sq ft
Remaining Area = 362,410.83 sq ft
Coverage = 63.5%

Figure 4
Static Test Fire Area
Buffer Zone Woods
Overall MPV Coverage

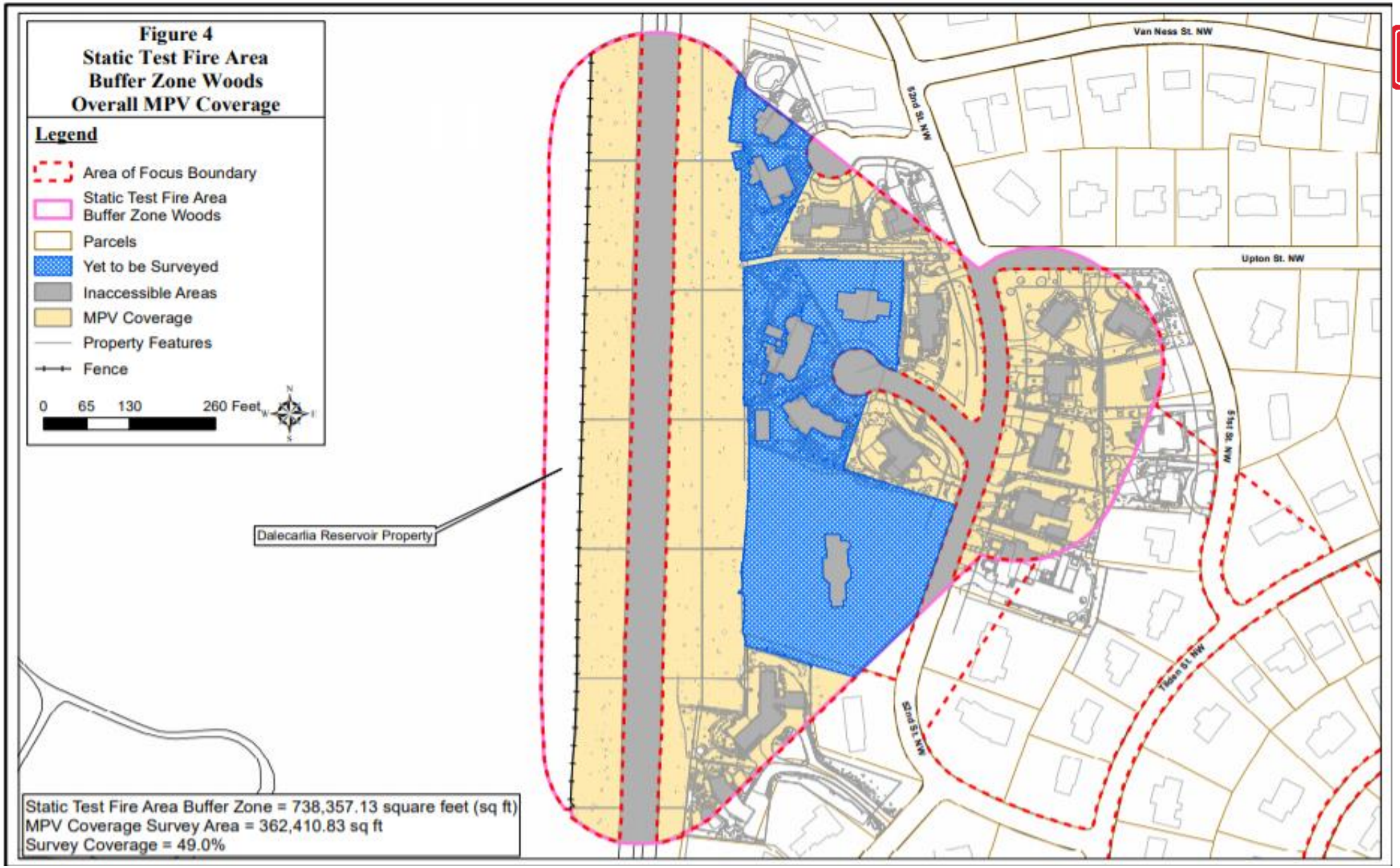
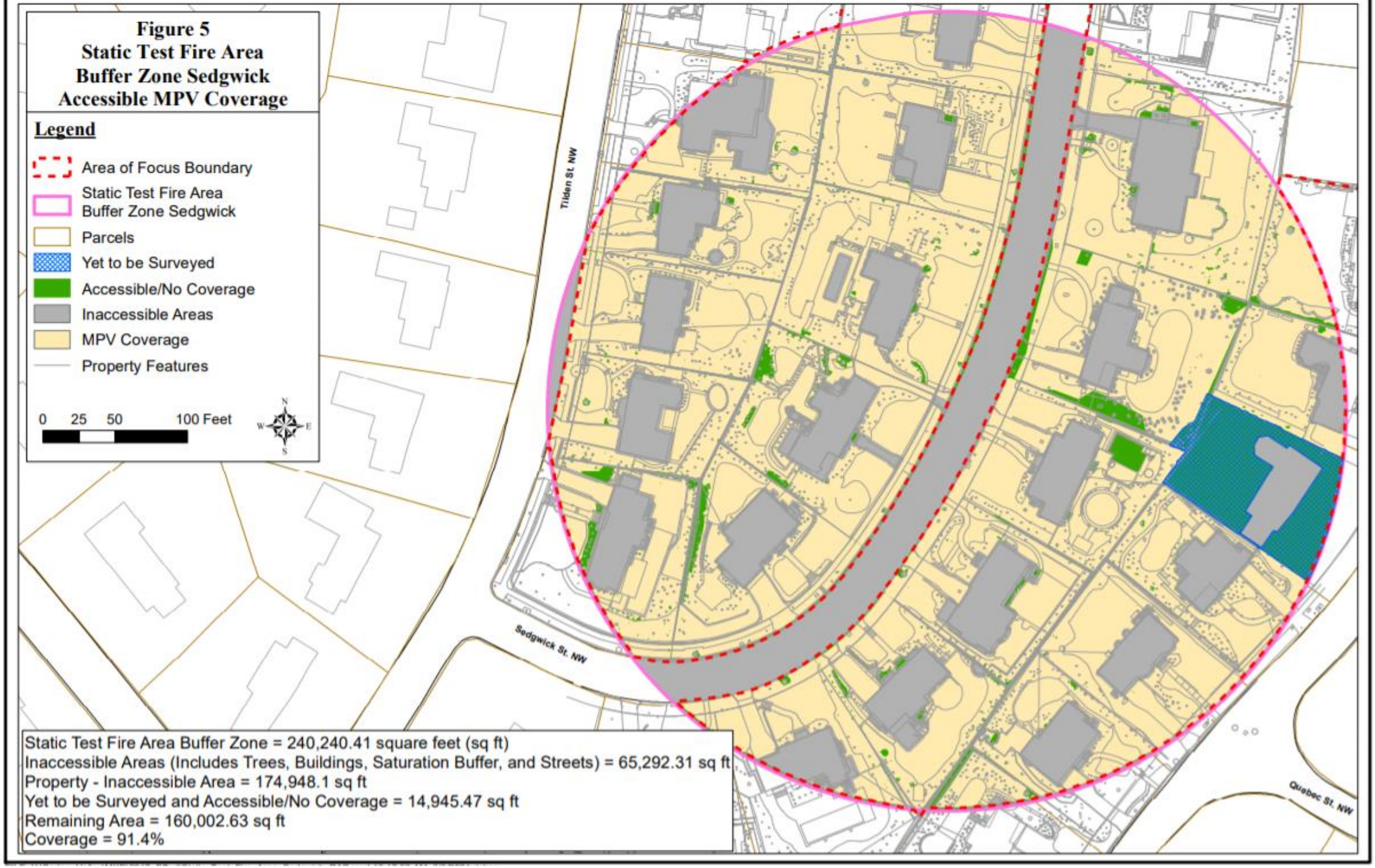


Figure 5
Static Test Fire Area Buffer Zone Sedgwick Accessible MPV Coverage



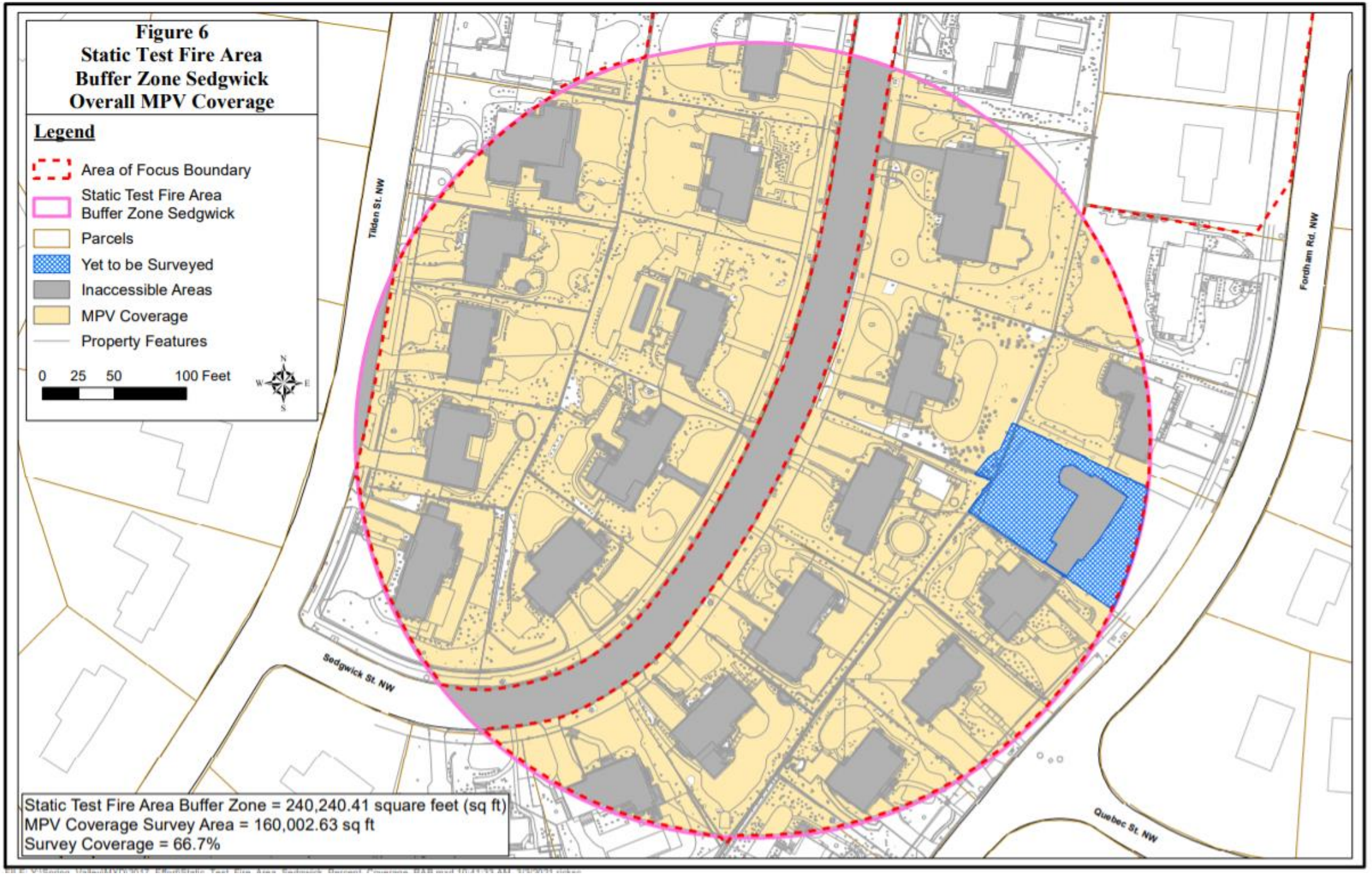


Figure 6
Static Test Fire Area
Buffer Zone Sedgwick
Overall MPV Coverage
Legend
Area of Focus Boundary
Static Test Fire Area Buffer Zone Sedgwick
Parcels
Yet to be Surveyed
Inaccessible Areas
MPV Coverage
Property Features
0 25 50 100 Feet
N
W
E
S
Tilden St. NW
Fordham Rd. NW
Sedgwick St. NW
Quebec St. NW
Static Test Fire Area Buffer Zone = 240,240.41 square feet (sq ft)
MPV Coverage Survey Area = 160,002.63 sq ft
Survey Coverage = 66.7%

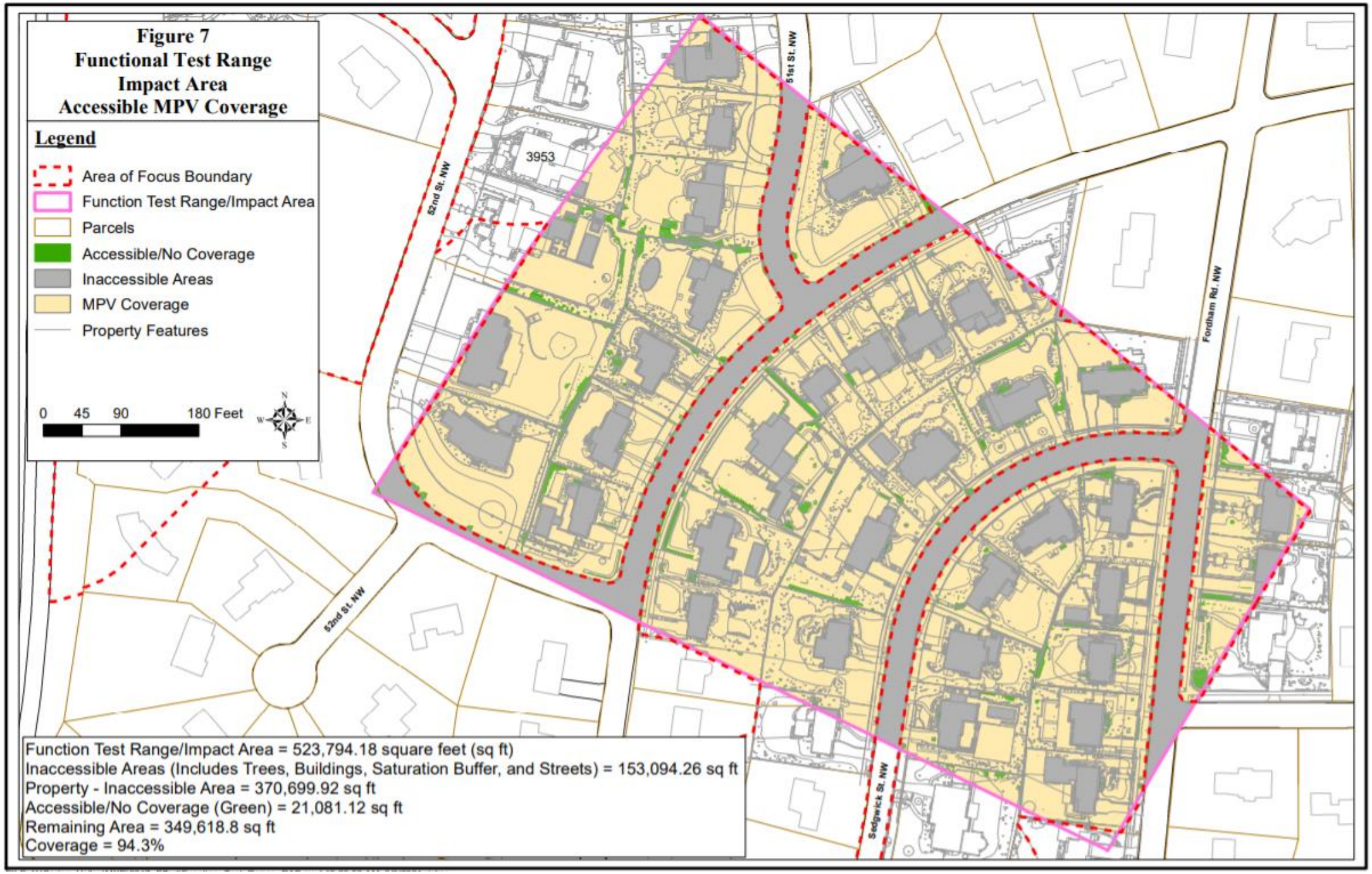


Figure 7
Functional Test Range
Impact Area
Accessible MPV Coverage
Legend
Area of Focus Boundary
Function Test Range/Impact Area
Parcels
Accessible/No Coverage
Inaccessible Areas
MPV Coverage
Property Features
0 45 90 180 Feet
N
W E
S
3953
52nd St. NW
51st St. NW
Fordham Rd. NW
52nd St. NW
Sedgwick St. NW
Function Test Range/Impact Area = 523,794.18 square feet (sq ft)
Inaccessible Areas (Includes Trees, Buildings, Saturation Buffer, and Streets) = 153,094.26 sq ft
Property - Inaccessible Area = 370,699.92 sq ft
Accessible/No Coverage (Green) = 21,081.12 sq ft
Remaining Area = 349,618.8 sq ft
Coverage = 94.3%

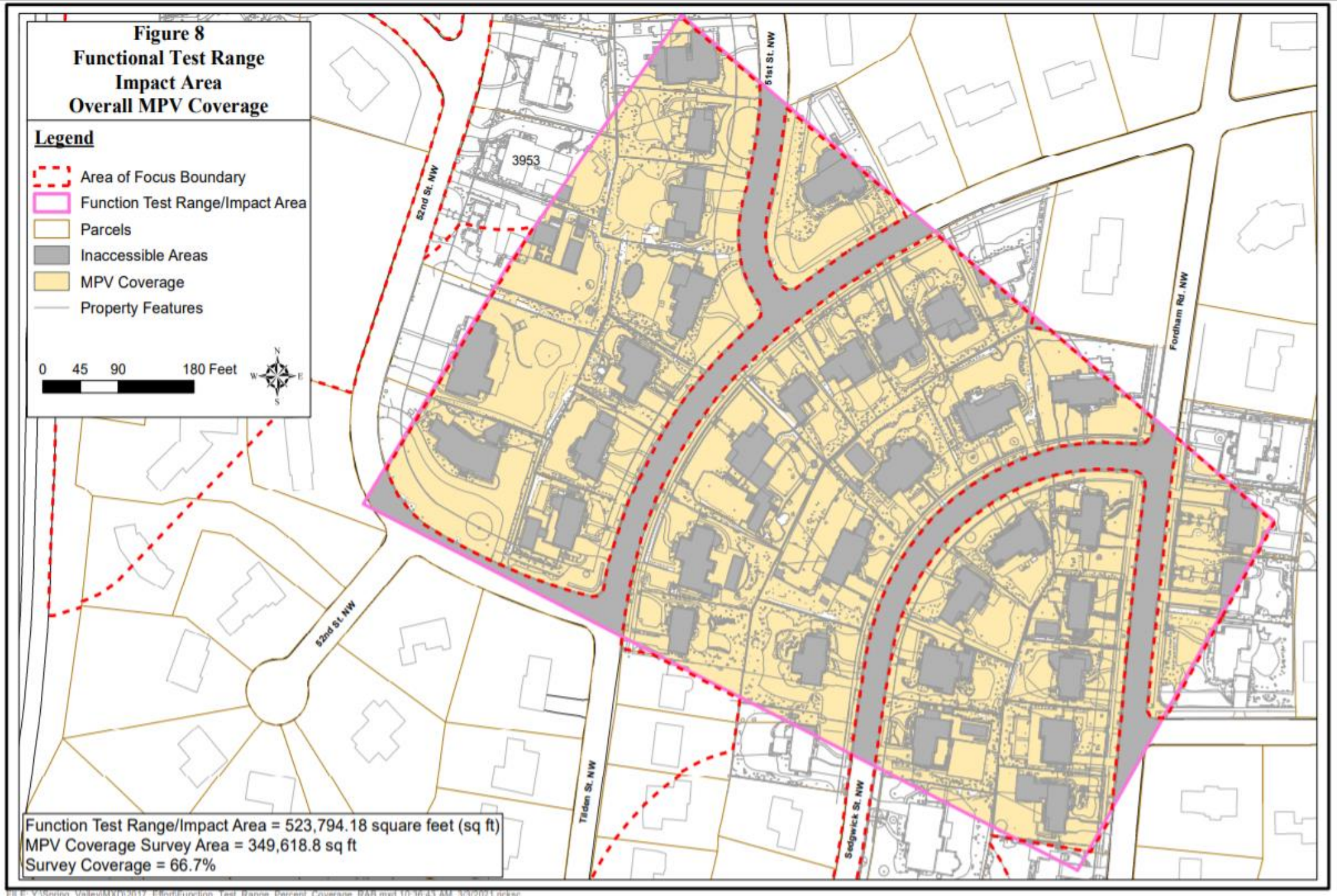


Figure 8
Functional Test Range
Impact Area
Overall MPV Coverage
Legend
Area of Focus Boundary
Function Test Range/Impact Area
Parcels
Inaccessible Areas
MPV Coverage
Property Features
0 45 90 180 Feet
N
W E
S
3953
52nd St. NW
51st St. NW
Fordham Rd. NW
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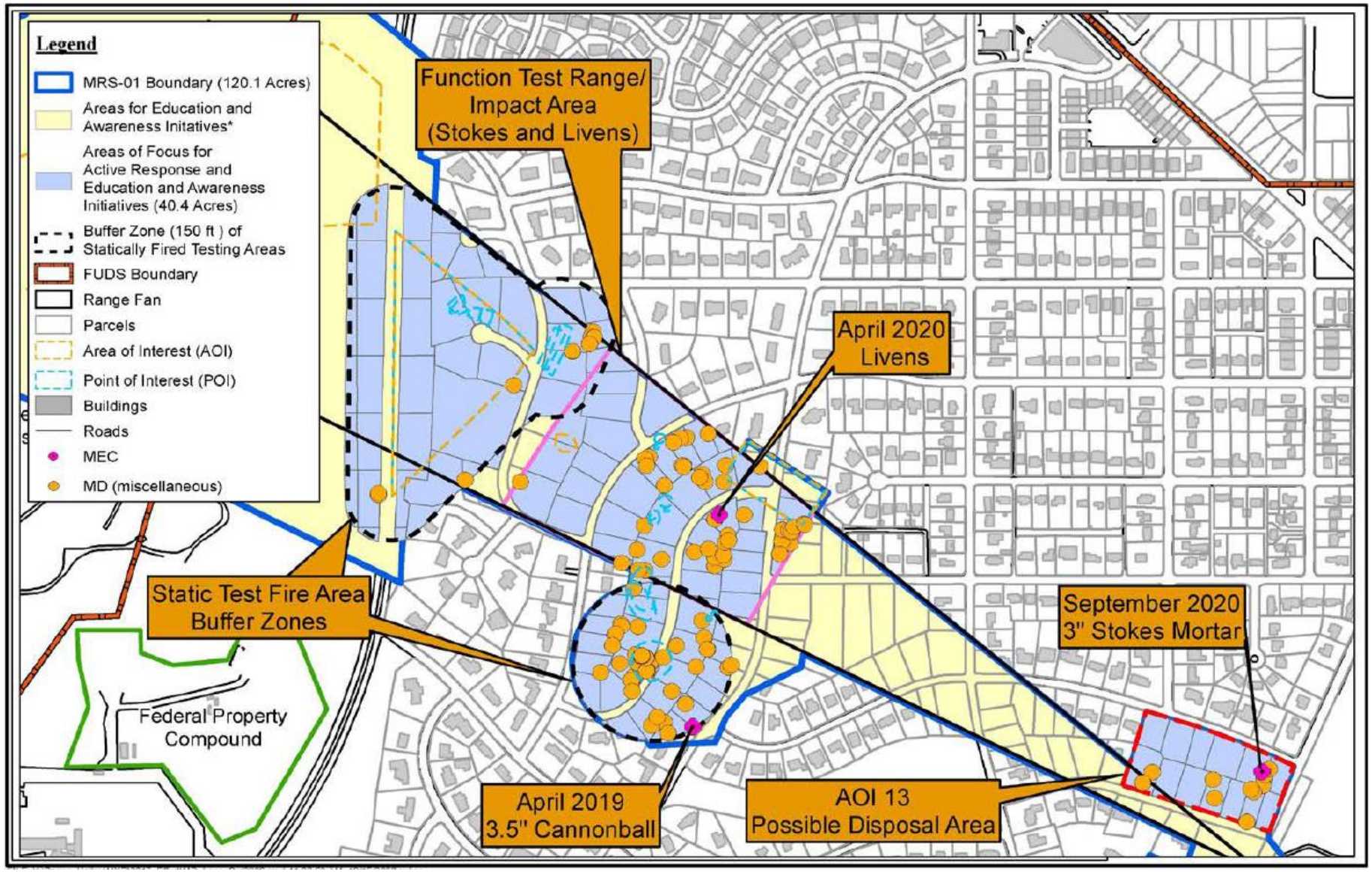
Tilden St. NW
Sedgwick St. NW
Function Test Range/Impact Area = 523,794.18 square feet (sq ft)
MPV Coverage Survey Area = 349,618.8 sq ft
Survey Coverage = 66.7%

SITE-WIDE REMEDIAL ACTION

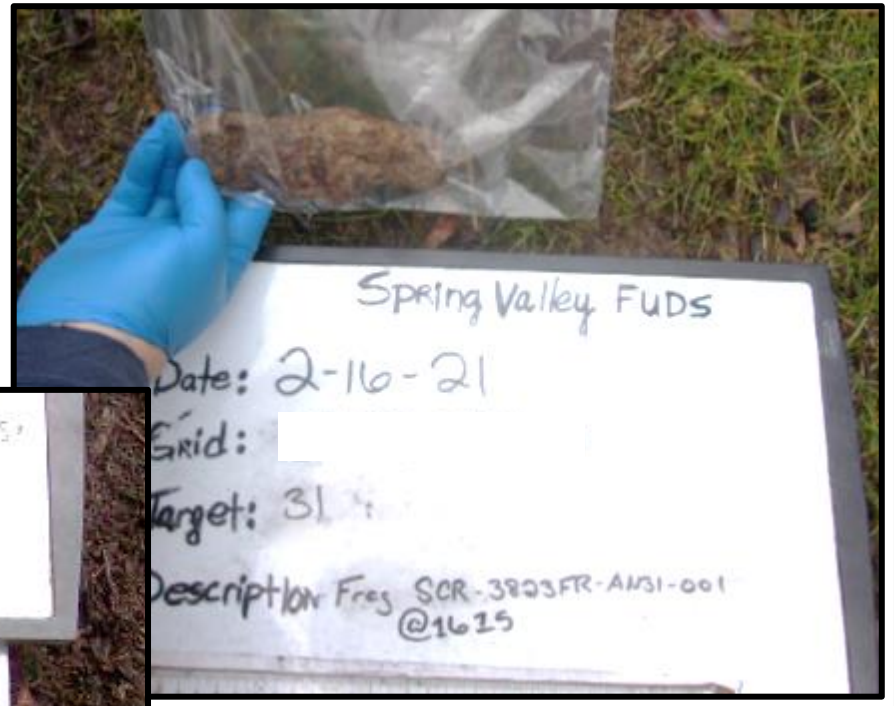
RA MEC/MD Finds



SITE-WIDE REMEDIAL ACTION

Anomaly Excavation Finds

Munitions debris and excavation finds



SITE-WIDE REMEDIAL ACTION

Munition Debris Items Disposal

- The cutting operation for the small amount of munitions debris in storage at the Federal Property took place January 26th in a filtered Engineering Control Structure (ECS) with near real-time air monitoring (MiniCAMS).
- The team used a remotely operated saw to cut the items in half. The items were then soaked in a bleach solution, rinsed, and allowed to dry. The items then underwent a headspace analysis and sent for recycling.
- Low levels of the compound 1,4 Dithiane, a Mustard breakdown product, were detected in the decontamination rinse down water when the process was completed. This water was properly disposed of.

SITE-WIDE REMEDIAL ACTION
Munition Debris Items Disposal

- Photos of the cutting operation

A remotely operated saw cutting munitions debris item

SPRING VALLEY FEDERAL PROPERTY

Munition Debris Items Inventory

During a recent inspection of the Federal Property fence line, the Army Corps on-site explosive safety specialist discovered a padlocked day box containing two 75mm items.

- These items are closed cavity and include duct tape handles. The agencies, contractors, and personnel on site in recent years were unable provide any information; speculation is that these items may have been used as training aids.
- EOD was called and a formal assessment process of the items began on February 16. The items are currently stored in the MARB Holding Facility under negative pressure carbon filtration.

SPRING VALLEY FEDERAL PROPERTY

Munition Debris Items Found

- While one of these items were empty, one did contain 10 to 20% liquid fill, seen in the x-ray to the right.
- The Army's Material Assessment Review Board (MARB) determined with high confidence that this liquid water. It is likely groundwater that has made its way in over time, which is usually the case with 20% or less liquid fill present.

SPRING VALLEY FEDERAL PROPERTY

Munition Debris Items Inventory

- A complete search of the Federal property was made; no other munitions items were found other than those pictured on the right.
- These items are known to be inert and were used as seed items in the Geophysical Prove Out grid at the Federal Property.
- The items will be properly disposed of at a later date.

SITE-WIDE REMEDIAL ACTION

Tentative Schedule

Winter 2021	• Continue geophysical surveys. • Continue anomaly removal efforts. • Continue obtaining Rights-of-Entry from the next group of homeowners.
Spring 2021	• 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.

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SITE-WIDE REMEDIAL ACTION (RA)

Public Safety Building (PSB) - USACE Updates

SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

- In preparation for the investigation of debris going into the northern hillside, a drilling pad was constructed at the top of the slope of the PSB excavation area. This pad will stage the drill to be used for soil coring activities as a part of the investigation.
- After placing geotextile and stone, the drilling pad and access ramp for the drill were compacted in place using a vibratory drum compactor.

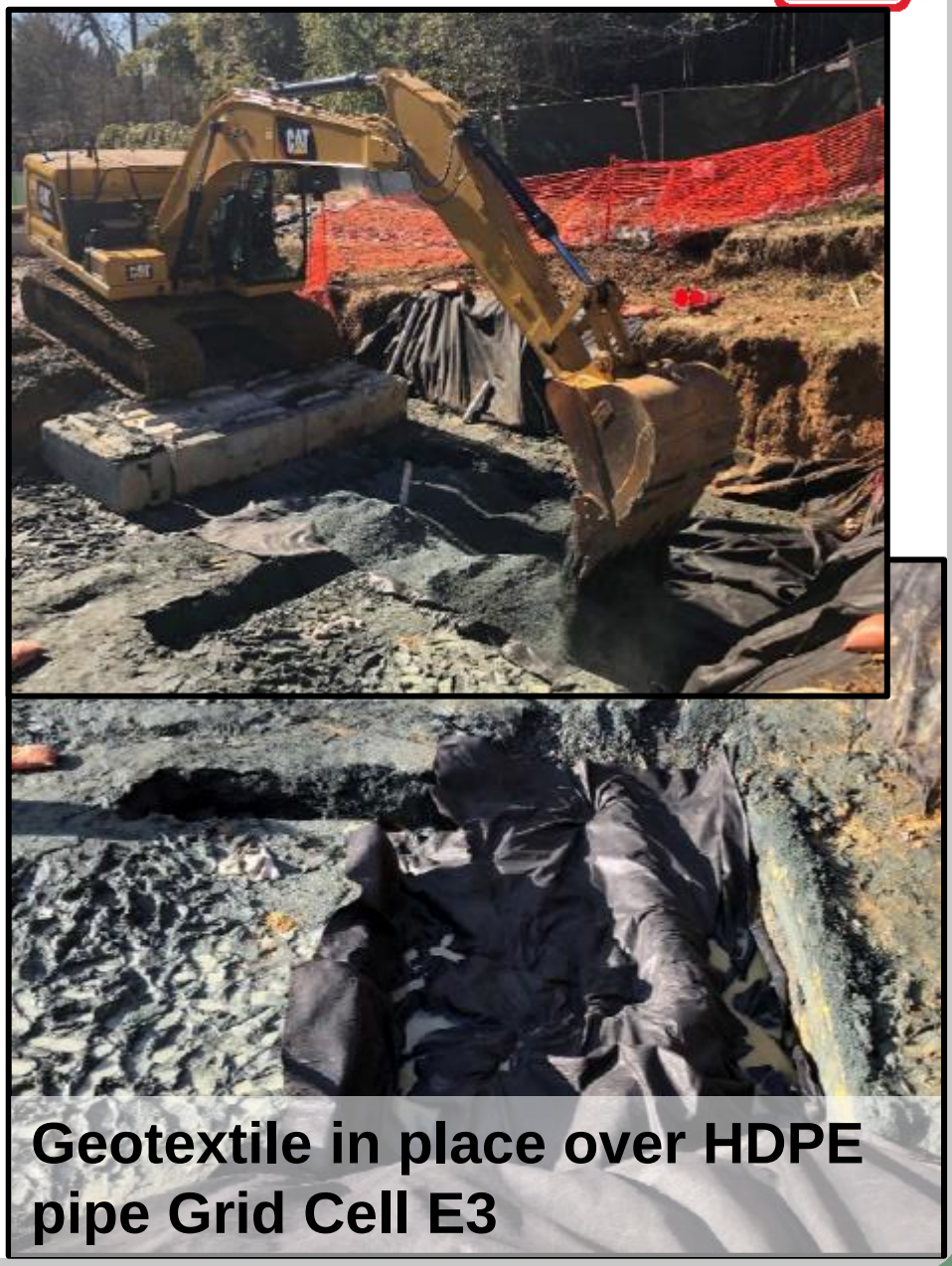
Drilling pad being constructed

Geotextile in place on drilling pad access ramp

SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

- All soil removal and backfilling efforts below the water table were completed at the PSB footprint area at the end of January.
- In February, the team began digging test pits to the east of the PSB excavation area to determine the extent of debris, excavating soil at 1-foot intervals at a time. Laboratory glassware was encountered down to 7-8 feet below ground surface.
- Backfilling and compaction efforts continued in the remaining Grid cells within the PSB excavation area. Including over the HDPE pipe that replaced the Terra Cotta pipe in Grid Cell E3.



Geotextile in place over HDPE pipe Grid Cell E3

SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

Recovered debris excavated from Test Pits at the former PSB site

Batch glass collected at 1-2 feet Test Pit D7E7

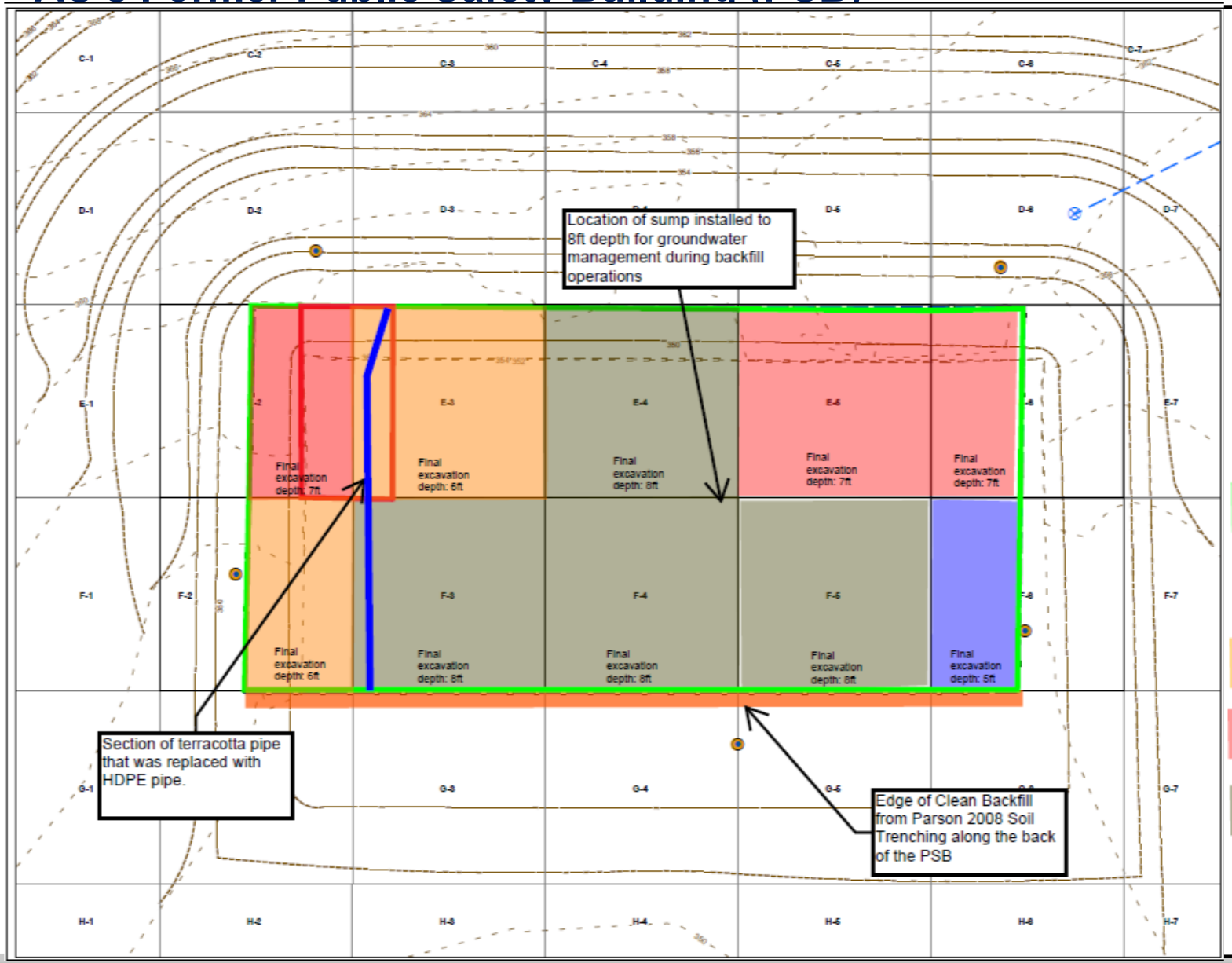
Batch glass collected at 1-2 feet in Test Pit E2F2

Batch glass collected at 3-4 feet in Test Pit E7

Batch glass collected at 1-2 feet Test pit F7

SITE-WIDE REMEDIAL ACTION

AU's Former Public Safety Building (PSB)

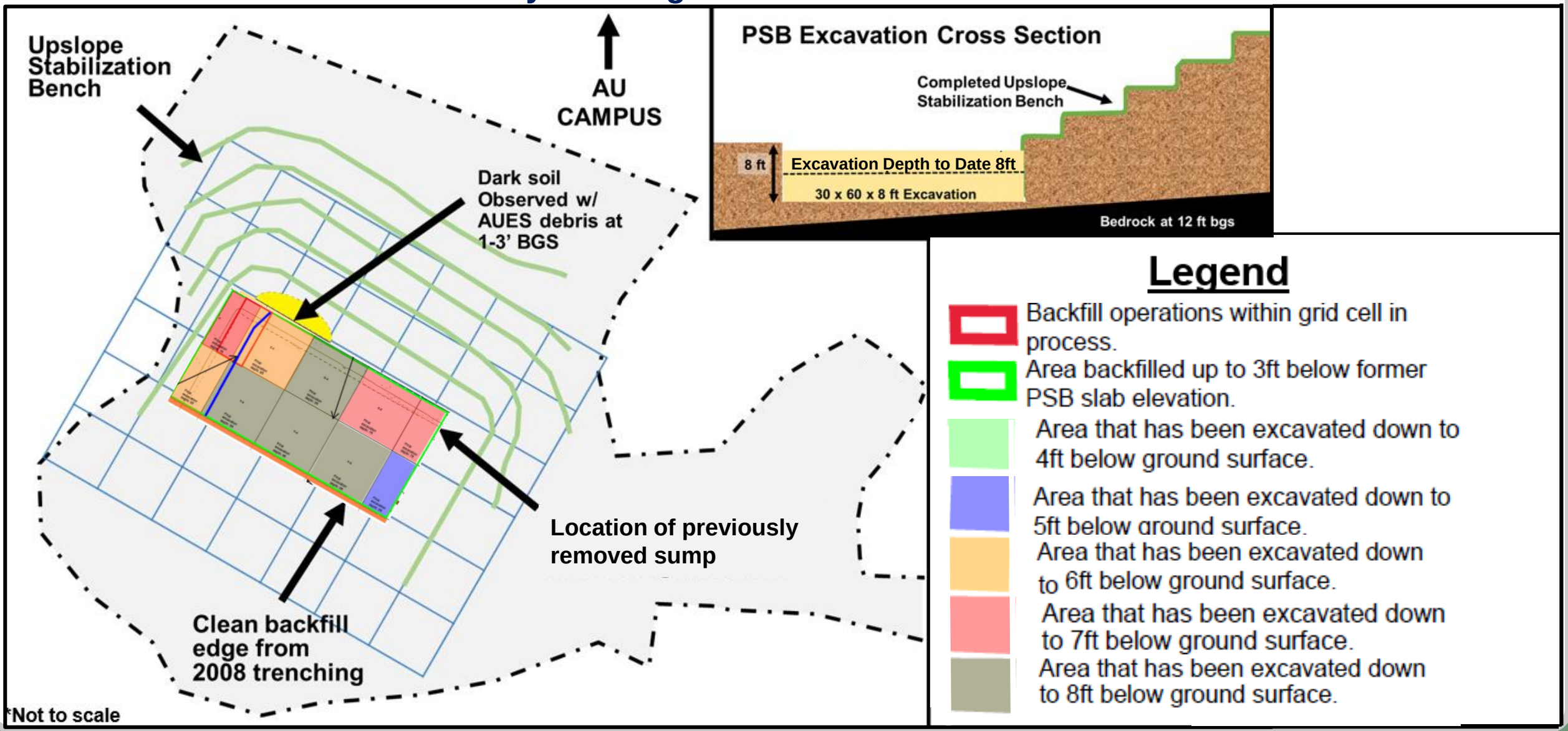


Legend

- 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)
- Abandonded Storm Drain Pipe
- Abandonded 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



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GLENBROOK ROAD PROJECT AREA

USACE Updates

GLENBROOK ROAD

In mid-January, the crew excavated the area around the soldier pile in need of removal near southern boundary of 4825. As a safety measure, a shoring box was placed around the soldier pile during excavation. Upon completion, the shoring box was removed and the trench where the soldier pile existed was backfilled.

GLENBROOK ROAD – SOIL & EROSION CONTROLS

Over the past 2 months, in response to the heavy winter storms and seasonal wet weather, the crew installed and maintained additional soil and erosion controls.

GLENBROOK ROAD – SITE RESTORATION

As of this week, the backfill and soil compaction operations are 57.5% complete.

GLENBROOK ROAD – UPCOMING EFFORTS

Waste filled roll-off leaving the Federal Property site for disposal.

Complete effort to re-install AU water line and the AU sanitary sewer line.

Restore the fences along the 4801 and 4835 Glenbrook Road properties

Restore site to final grade in 6-inch lifts with compaction in accordance with the Work Plan

Submit Draft Final Site-Specific Final Report

GLENBROOK ROAD

Tentative Schedule

Winter/Spring 2021	• 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.
Summer 2021	• Anticipated project completion.

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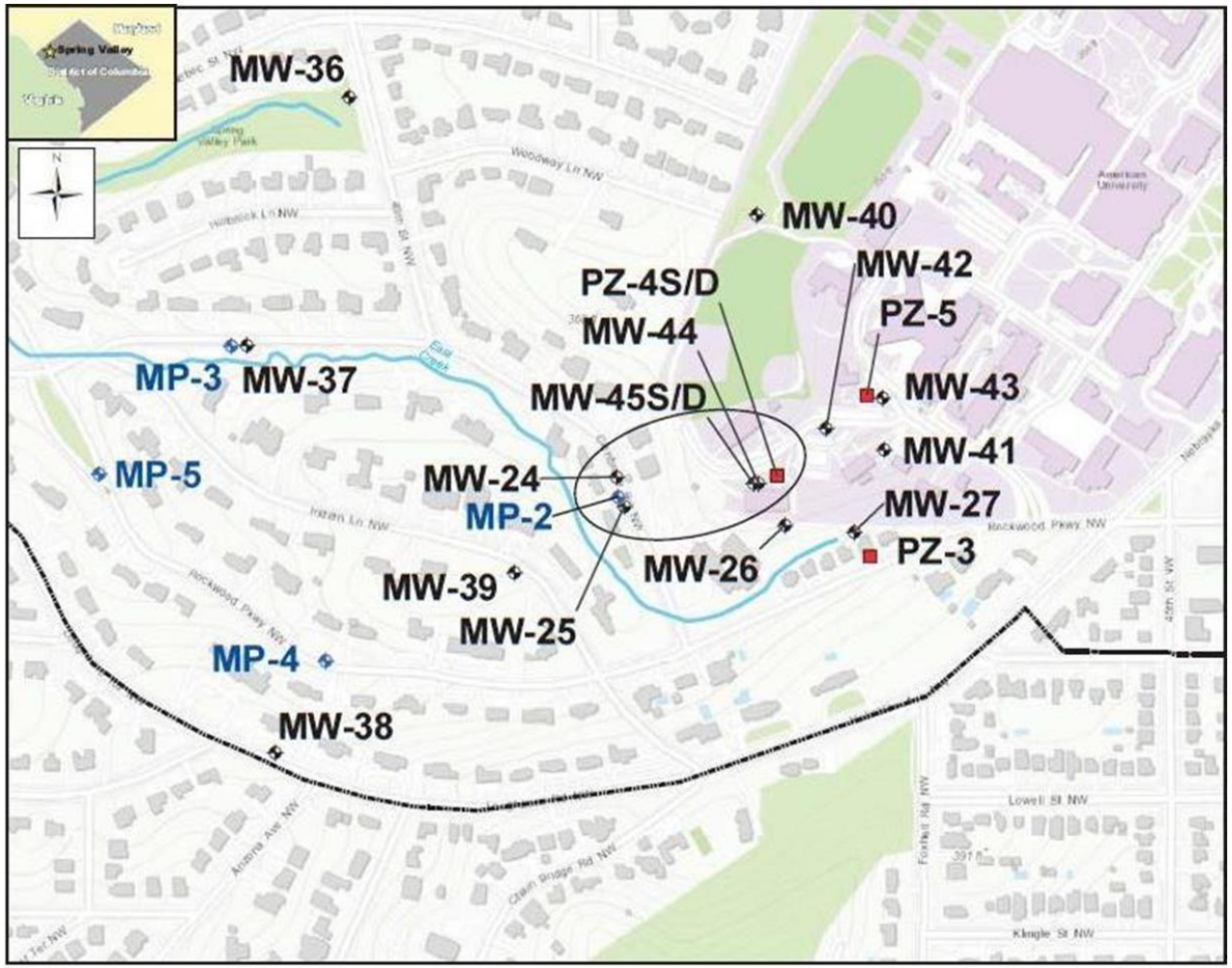
GROUNDWATER STUDY

USACE Updates



GROUNDWATER STUDY

- A groundwater sampling event for perchlorate at wells PZ-4D and MW-44 was conducted by the USACE on March 1st. The event was pushed from February due to icy conditions.
- The results of this sampling event should be available within the next month. We will share these results once they become available.
- The June 2020 sampling results were very similar to the results from September 2019. The Army Corps and Partners are awaiting these results to confirm if perchlorate concentrations are consistent with the September results.

Groundwater sampling well

SPRING VALLEY RESTORATION ADVISORY BOARD

Reminders:

The next RAB meeting will tentatively be held virtually on **Tuesday, May 11th, 2021** through WebEx video conferencing services.

Upcoming Agenda Items:

- Please review attached document regarding closing out RAB ahead of May RAB meeting.
- *Suggestions? Please contact the Outreach Team!*