

Former Nansemond Ordnance Depot (FNOD)



December 3, 2015

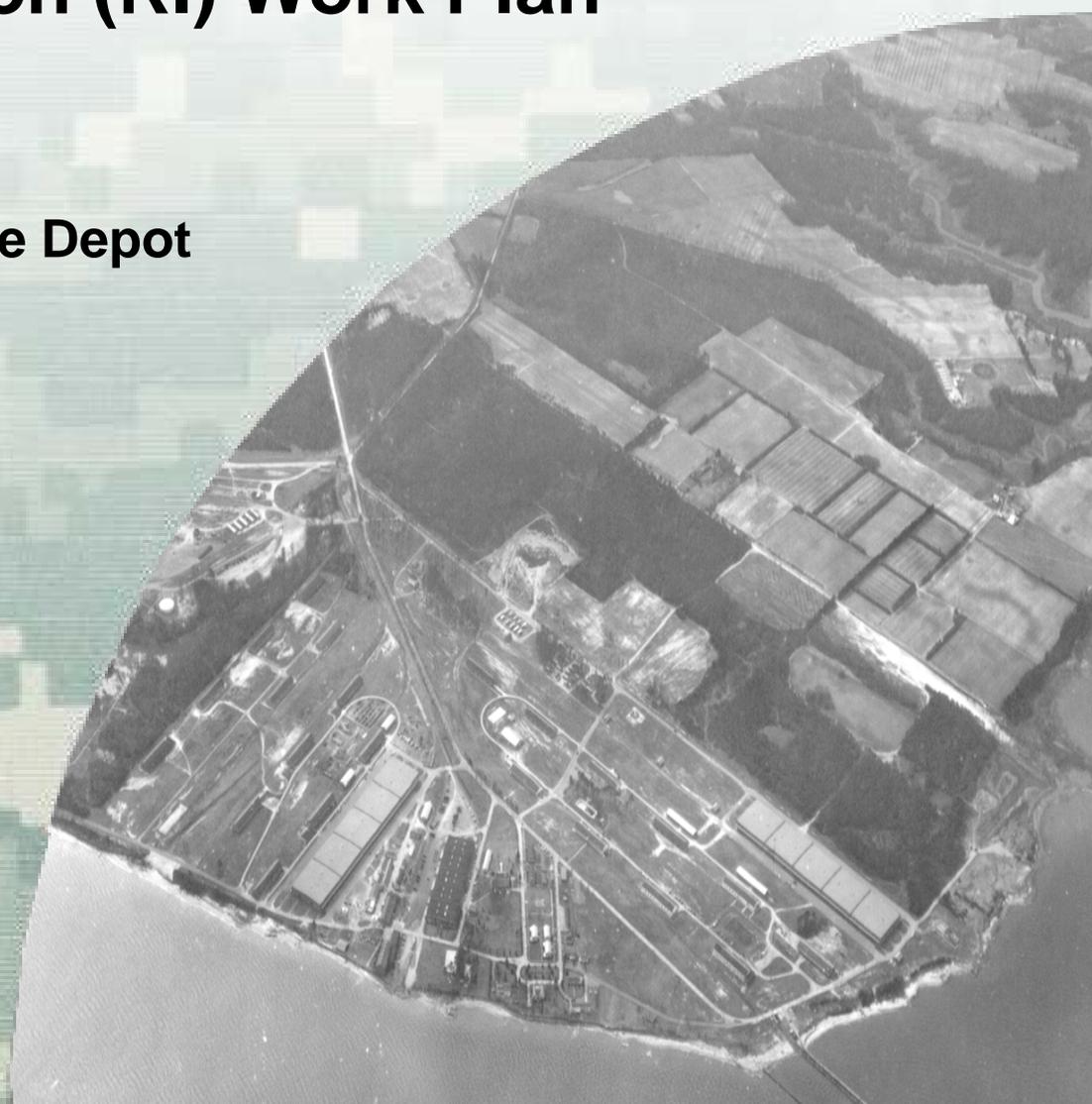
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Nansemond River Beachfront (NRB) (AOC-1) Remedial Investigation (RI) Work Plan

Former Nansemond Ordnance Depot
Formerly Used Defense Site

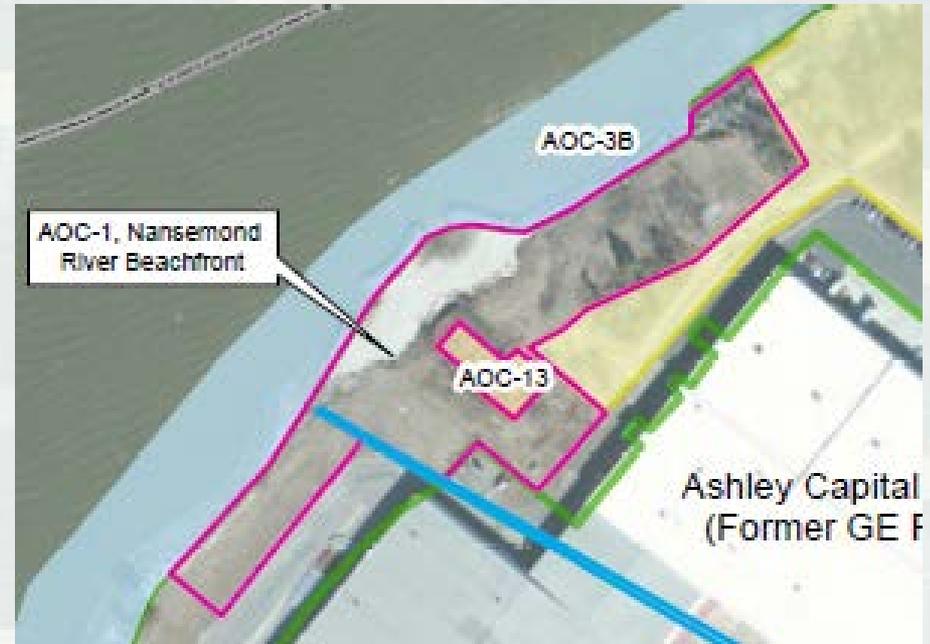


US Army Corps of Engineers
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Presentation Outline

- Description and History
- Previous Sampling Results
- Proposed Sampling Program
- Status of RI Work Plan



AOC-1 Description and History

- Encompasses approximately 4 acres of sparsely and heavily wooded land, grassy areas, and a bluff along the Nansemond River
- Listed as an AOC due to the presence of metal slag.
- Munitions and explosives of concern (MEC) items have historically been discovered at and removed from the NRB.
- Boundary of NRB expanded to encompass areas around the Former Wastewater Treatment Plant (AOC 13) as well as areas to the west along the Nansemond River due to the discovery of MEC at the NRB during intrusive investigations conducted in February and March 2014.



AOC-1 Description and History, con't.

- A 1932 General Map documents the presence of a “Minor Demolition Ground” within the central portion of the NRB.
- Explosive items destroyed would have been restricted to small amounts due to the presence of a high explosive magazine (Building R-225) located approximately 400 feet east of the Minor Demolition Ground.
- Demolition Ground no longer shown on site maps by 1942. Encompasses approximately 4 acres of sparsely and heavily wooded land, grassy areas, and a bluff along the Nansemond River
- Southwestern corner of NRB falls within the limits of a land disturbance observed in a 1968 aerial photo.



AOC-1 Description and History, con't.

- Bulk TNT and miscellaneous MEC/MD removed along the northern boundary of the NRB.
- Several munitions removals and investigations conducted at NRB from 2000 through 2014.
- Ten Areas of Interest (AOIs) identified within NRB using geophysics during investigation of the Shoreline MEC Munitions Response Site (MRS).
- Intrusive investigation of the AOIs completed in March 2014.
- With the exception of AOI-03 and AOI-47, subsurface findings were limited to rusted metal of a non-munitions origin.

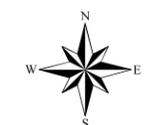




- Legend**
- Site Features
 - AOC-1 (Nansemond River Beachfront)
 - Shoreline MRS
 - AOC-22 (Arsenic Investigation Area)
 - AOC-3B (Offshore Area (near))
 - AOC-13 (Former Wastewater Treatment Plant)
 - AOC-23 (Renovation Plant)
 - AOC-4 (GE Pond & Culvert)
 - Bluff Areas of Interest
 - Shoreline Areas of Interest
 - FNOD Boundary

Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping
Service. 2013



0 90 180
Feet

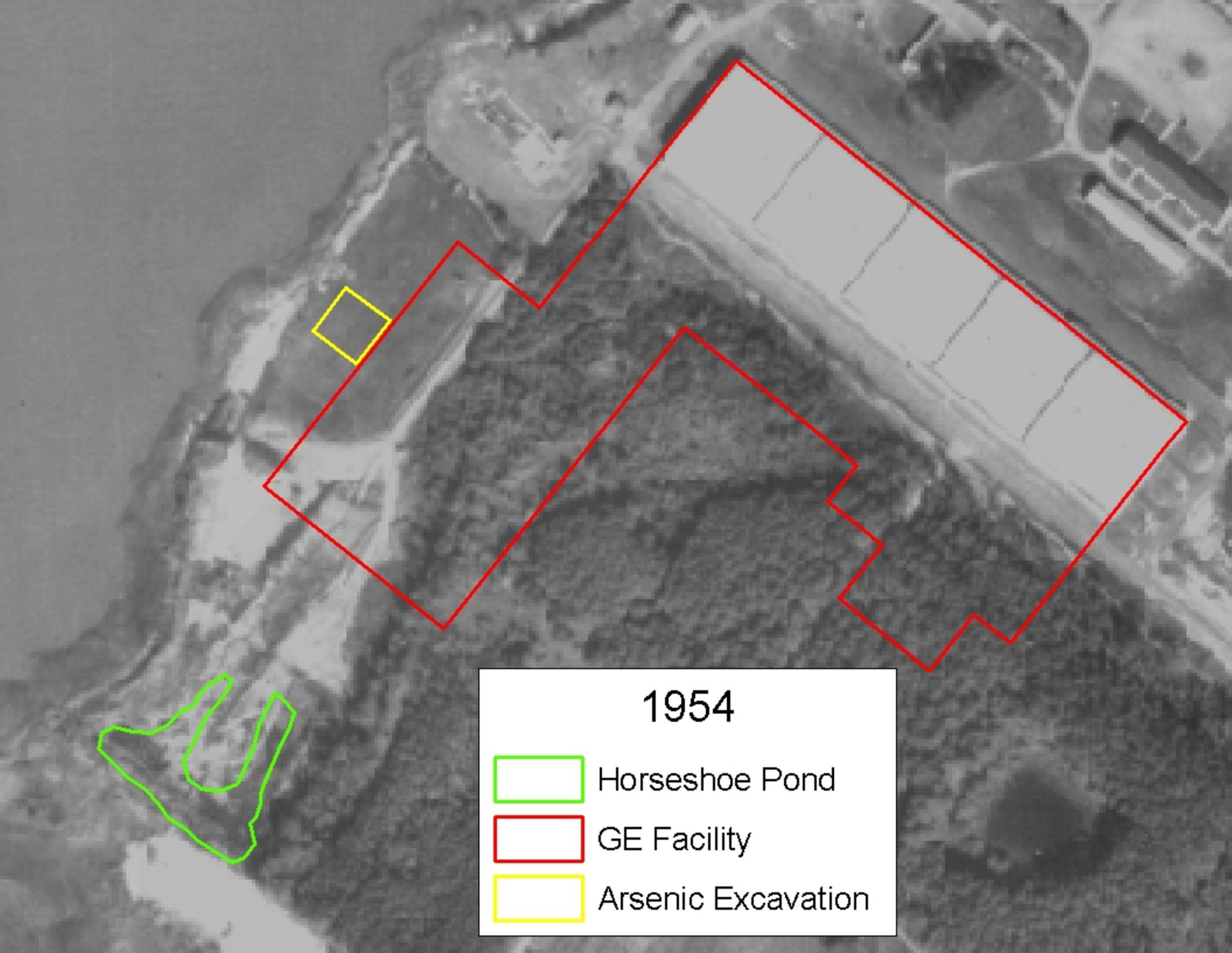


Figure 2-2
Site Features
Nansemond River Beachfront
Former Nansemond
Ordnance Depot (FNOD)
Suffolk, Virginia

AOC-1 Description and History, con't.

- At AOI-03, a 6-in layer of consolidated black material (non-munitions related) observed at approximately 3 ft bgs.
- AOI-3 within area of land disturbance depicted in 1968 photo
- AOI-3 also in are potentially disturbed by expansion of Ashley Capital Building (formerly GE Facility)
- USACE currently holding in-house discussions regarding potential sources of black material and resulting sampling approach





1954

-  Horseshoe Pond
-  GE Facility
-  Arsenic Excavation



AOI-03 Trench 2: Possible layer of non-MD black consolidated layer.

AOC-1 Description and History, con't.

- AOI-47 located within the stabilized shoreline. Total of 20 metal expended fuze boosters discovered from the ground surface to a depth of 5 inches bgs.
- Discovery consistent with historical findings of MD occasionally discovered along Nansemond River shoreline following significant weather events.
- Any additional investigations for AOI-47 will be conducted under the MMRP MEC Shoreline MRS investigation.





- Legend**
- ⊕ Abandoned Monitoring Well
 - ⊕ Existing Monitoring Well
 - Historical Soil Sample Locations**
 - Surface Soil
 - Subsurface Soil
 - Surface and Subsurface Soil
 - Site Features
 - ▭ AOC-1 (Nansmond River Beachfront)
 - ▭ Shoreline MRS
 - ▭ AOC-22 (Arsenic Investigation Area)
 - ▭ AOC-3B (Offshore Area (near))
 - ▭ AOC-13 (Former Wastewater Treatment Plant)
 - ▭ AOC-23 (Renovation Plant)
 - ▭ AOC-4 (GE Pond & Culvert)
 - ▭ FNOD Boundary

Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping
Service. 2013

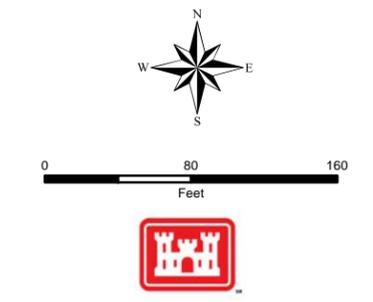


Figure 3-1
Historical Soil
Sampling Locations
Nansmond River Beachfront
Former Nansmond
Ordnance Depot (FNOD)
Suffolk, Virginia



- Legend**
- Historical SVOC Sample**
- Surface Soil
 - Subsurface Soil
 - Surface and Subsurface Soil
- AOC-1 (Nansemond River Beachfront)
- Shoreline MRS
- AOC-22 (Arsenic Investigation Area)
- AOC-3B (Offshore Area (near))
- AOC-13 (Former Wastewater Treatment Plant)
- AOC-23 (Renovation Plant)
- AOC-4 (GE Pond & Culvert)
- FNOD Boundary

SAMPLE ID	DEPTH (FEET)
	- No analyte exceed screening criteria and background concentrations (if available).
	- One or more analytes exceed screening criteria and background concentrations (if available).

Note:
Soil samples within shoreline stabilization area were collected prior to shoreline stabilization

Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping Service. 2013

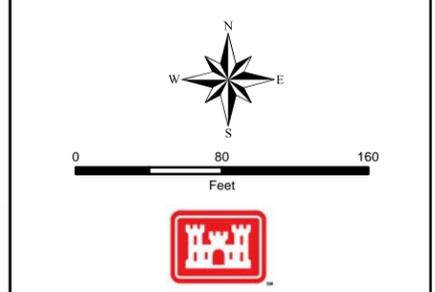
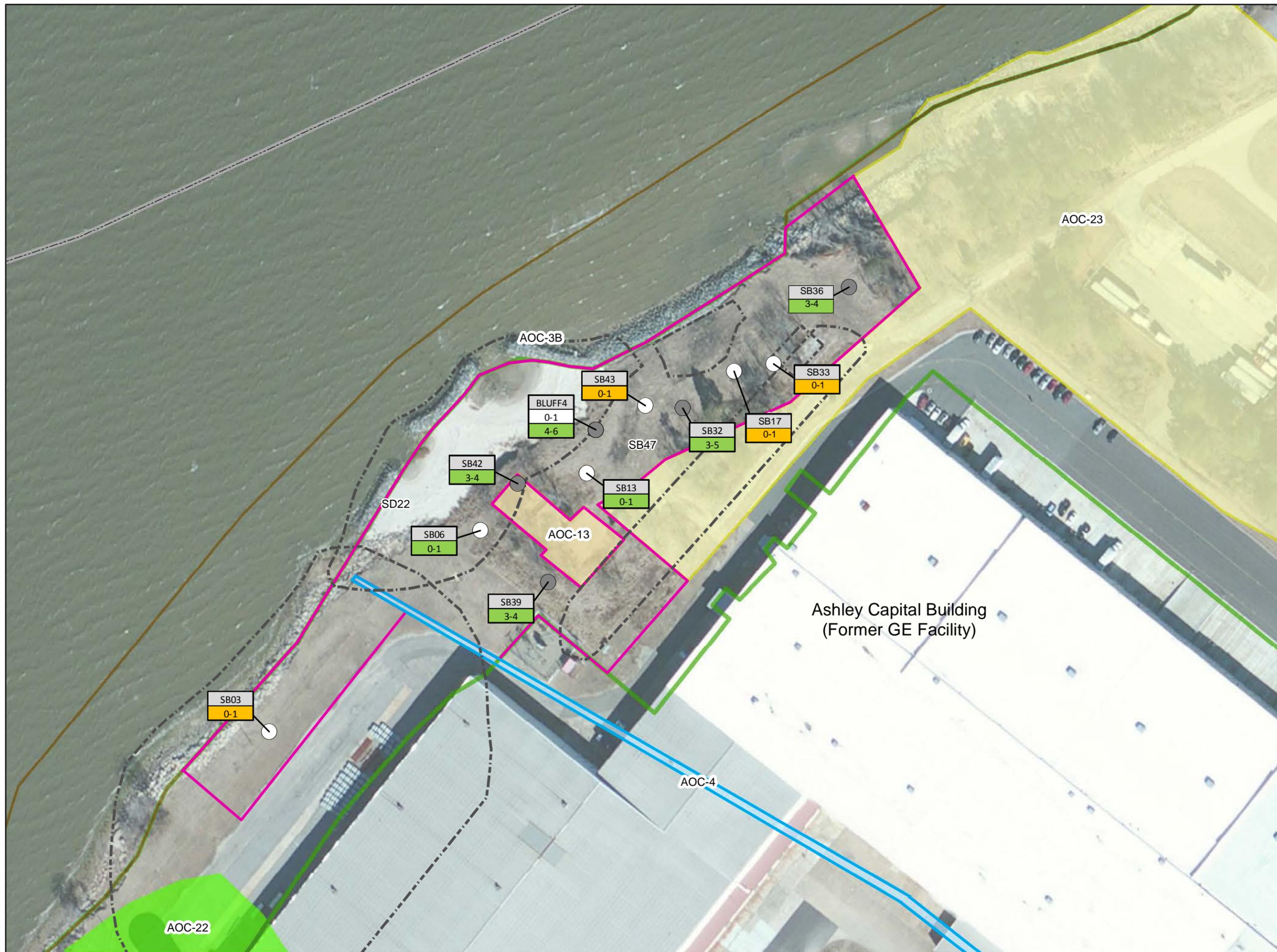


Figure 3-2
Soil SVOC Screening Criteria Exceedances
Nansemond River Beachfront
Former Nansemond Ordnance Depot (FNOD)
Suffolk, Virginia



- Legend**
- Historical Pesticide Sample**
- Surface Soil
 - Subsurface Soil
 - Site Features
 - ▭ AOC-1 (Nansemond River Beachfront)
 - ▭ Shoreline MRS
 - ▭ AOC-22 (Arsenic Investigation Area)
 - ▭ AOC-3B (Offshore Area (near))
 - ▭ AOC-13 (Former Wastewater Treatment Plant)
 - ▭ AOC-23 (Renovation Plant)
 - ▭ AOC-4 (GE Pond & Culvert)
 - ▭ FNOD Boundary

SAMPLE ID	DEPTH (FEET)
Green Box	- No analyte exceed screening criteria and background concentrations (if available).
Yellow Box	- One or more analytes exceed screening criteria and background concentrations (if available).

Note:
Soil samples within shoreline stabilization area were collected prior to shoreline stabilization

Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping Service. 2013

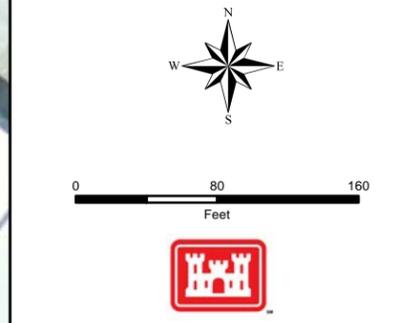


Figure 3-3
Soil Pesticide Screening Criteria Exceedances
Nansemond River Beachfront
Former Nansemond Ordnance Depot (FNOD)
Suffolk, Virginia



- Legend**
- Historical Explosives Sample**
- Surface Soil
 - Subsurface Soil
 - Surface and Subsurface Soil
 - Site Features
 - AOC-1 (Nansemond River Beachfront)
 - Shoreline MRS
 - AOC-22 (Arsenic Investigation Area)
 - AOC-3B (Offshore Area (near))
 - AOC-13 (Former Wastewater Treatment Plant)
 - AOC-23 (Renovation Plant)
 - AOC-4 (GE Pond & Culvert)
 - FNOD Boundary

SAMPLE ID	DEPTH (FEET)
Green	- No analyte exceed screening criteria and background concentrations (if available).
Orange	- One or more analytes exceed screening criteria and background concentrations (if available).

Note:
Soil samples within shoreline stabilization area were collected prior to shoreline stabilization

Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping Service. 2013

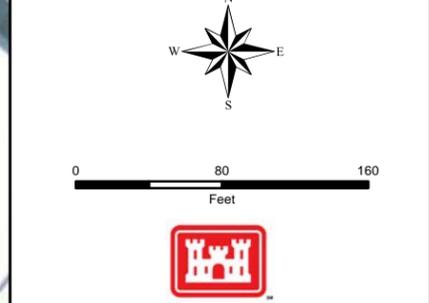


Figure 3-4
Soil Explosives Screening Criteria
Nansemond River Beachfront
Former Nansemond Ordnance Depot (FNOD)
Suffolk, Virginia



Legend

Historical Metal Samples

- Surface Sample Location
- Subsurface
- Surface and Subsurface
- Site Features
- AOC-1 (Nansemond River Beachfront)
- Shoreline MRS
- AOC-22 (Arsenic Investigation Area)
- AOC-3B (Offshore Area (near))
- AOC-13 (Former Wastewater Treatment Plant)
- AOC-23 (Renovation Plant)
- AOC-4 (GE Pond & Culvert)
- FNOD Boundary

SAMPLE ID	DEPTH (FEET)	Result
Green Box		- No analyte exceed screening criteria and background concentrations (if available).
Yellow Box		- One or more analytes exceed screening criteria and background concentrations (if available).

Note:
Soil samples within shoreline stabilization area were collected prior to shoreline stabilization

Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping Service. 2013

Figure 3-5
Soil Metals Screening
Criteria Exceedances
Former Nansemond
Ordnance Depot (FNOD)
Suffolk, Virginia



- Legend**
- ⊕ Abandoned Monitoring Well
 - ⊕ Existing Monitoring Well
 - Proposed Soil Sample
- Historical Soil Sample Locations**
- Surface Soil
 - Subsurface Soil
 - Surface and Subsurface Soil
- Site Features**
- ⊔ Site Features
 - ⬡ AOC-1 (Nansemond River Beachfront)
 - ⬡ Shoreline MRS
 - ⬡ AOC-22 (Arsenic Investigation Area)
 - ⬡ AOC-3B (Offshore Area (near))
 - ⬡ AOC-13 (Former Wastewater Treatment Plant)
 - ⬡ AOC-23 (Renovation Plant)
 - ⬡ AOC-4 (GE Pond & Culvert)
 - ⬡ FNOD Boundary

Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

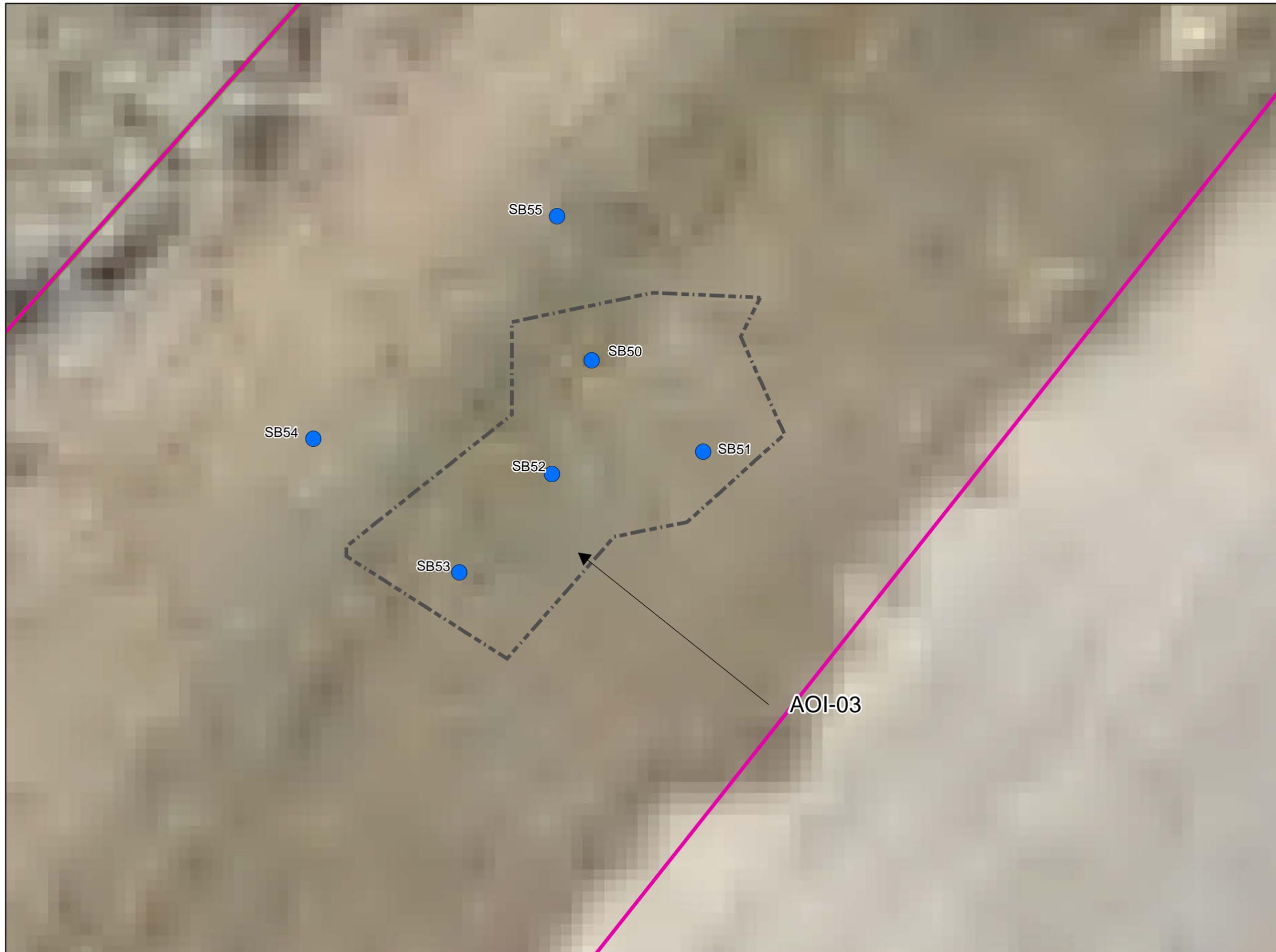
Imagery: ESRI Mapping
Service. 2013



0 80 160
Feet



Figure 3-6
Proposed Soil
Sampling Locations
Nansemond River Beachfront
Former Nansemond
Ordnance Depot (FNOD)
Suffolk, Virginia



- Legend**
- Proposed Sample Location**
- Proposed Soil Sample
 - ▭ AOC-1 (Nansemond River Beachfront)
 - ▭ Shoreline MRS
 - ▭ AOC-3B (Offshore Area (near))



Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping
Service. 2013



Figure 3-7
AOI-03 Proposed Soil Samples
Nansemond River Beachfront
Former Nansemond
Ordnance Depot (FNOD)
Suffolk, Virginia



- Legend**
- Historical Sediment Sample
 - Site Features
 - AOC-1 (Nansemond River Beachfront)
 - Shoreline MRS
 - AOC-22 (Arsenic Investigation Area)
 - AOC-3B (Offshore Area (near))
 - AOC-13 (Former Wastewater Treatment Plant)
 - AOC-23 (Renovation Plant)
 - AOC-4 (GE Pond & Culvert)
 - FNOD Boundary

- No analyte exceed screening criteria and background concentrations (if available).
- One or more analytes exceed screening criteria and background concentrations (if available).

Note:
Sediment samples within shoreline stabilization area were collected prior to shoreline stabilization.

Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping Service. 2013

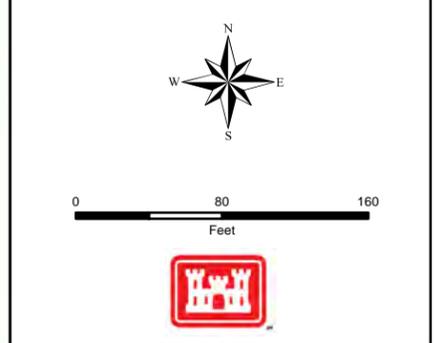


Figure 3-8
Sediment Metal Screening Exceedances
Nansemond River Beachfront
Former Nansemond Ordnance Depot (FNOD)
Suffolk, Virginia



- Legend**
- Existing Monitoring Well
 - Proposed Sediment Sample
 - Site Features
 - AOC-1 (Nansemond River Beachfront)
 - Shoreline MRS
 - AOC-22 (Arsenic Investigation Area)
 - AOC-3B (Offshore Area (near))
 - AOC-13 (Former Wastewater Treatment Plant)
 - AOC-23 (Renovation Plant)
 - AOC-4 (GE Pond & Culvert)
 - FNOD Boundary

Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping
Service. 2013



0 40 80
Feet



Figure 3-9
Proposed Sediment Samples
Nansemond River Beachfront
Former Nansemond
Ordnance Depot (FNOD)
Suffolk, Virginia



- Legend**
- Proposed Monitoring Well
 - Abandoned Monitoring Well
 - Existing Monitoring Well
 - Site Features
 - AOC-1 (Nansemond River Beachfront)
 - Shoreline MRS
 - AOC-22 (Arsenic Investigation Area)
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Projection:
Virginia State Plane South
NAD 83, U.S. Survey Feet

Imagery: ESRI Mapping
Service. 2013

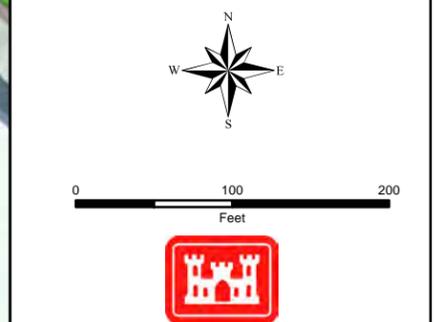


Figure 3-10
Existing and Proposed
Groundwater Monitoring Wells
Nansemond River Beachfront
Former Nansemond
Ordnance Depot (FNOD)
Suffolk, Virginia

AOC-1 Proposed RI Scope

- Surface and subsurface soil sampling to delineate areas where explosives and metals concentrations exceeded risk screening criteria and BTVs.
- Potential surface and subsurface soil sampling at AOI-03 for metals and PAHs due to black material.
- Sediment sampling for explosives and metals where historical samples exceeded risk screening criteria. Due to 2009 shoreline stabilization, the planned sampling effort will be the initial one conducted.
- Installation of groundwater monitoring wells and groundwater sampling to further characterize the vertical and lateral extent of explosives and metals that historically exceed risk screening criteria and BTVs in groundwater.



AOC-1 RI Work Plan Status

- Work Plan currently undergoing internal USACE review
- Discussed proposed RI scope with USEPA and VDEQ on 3 December 2015
- Plan to submit RI Work Plan to USEPA and VDEQ by 30 December 2015



SHORELINE MEC - REMEDIAL INVESTIGATION

**Former Nansemond Ordnance Depot
Formerly Used Defense Site
December 2-3, 2015**



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REMEDIAL INVESTIGATION

■ 2011 (RI, Weston)

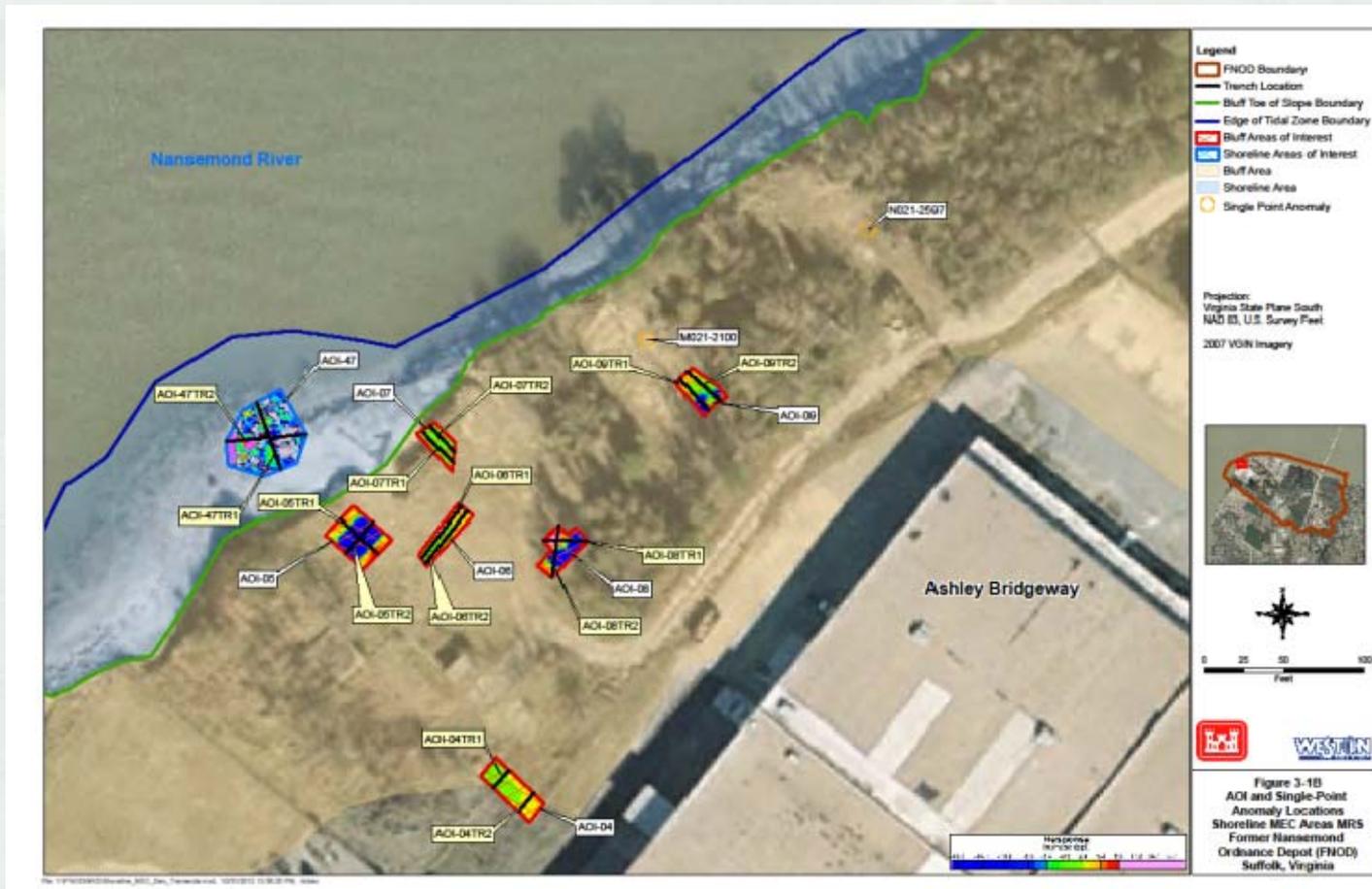
- ▶ Geophysical investigation was initiated on 51 acres along the shoreline and bluff areas
- ▶ Bluff surveys: 46 AOIs; Shoreline surveys 9 AOIs
- ▶ At-AOIs 36, 37 and 47, Mark III boosters and M7 fuses discovered during geophysical investigation

■ 2014 - Present (RI, WESTON)

- ▶ Intrusively investigating 24 AOIs and nine individual targets along the bluff and nine AOIs along the beach identified in the Army's Recommendation Memo-
- ▶ MC Sampling if MEC is found
- ▶ Geophysical investigation at TCC parking area, and six other vegetated portions adjacent to parking
- ▶ Intrusive investigation at AOI 36, AOI 37, AOI 47 and kick-out areas



AOI 47



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AOI 47

Work conducted On 2014



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AOI 37

Intrusive Investigation on 2014



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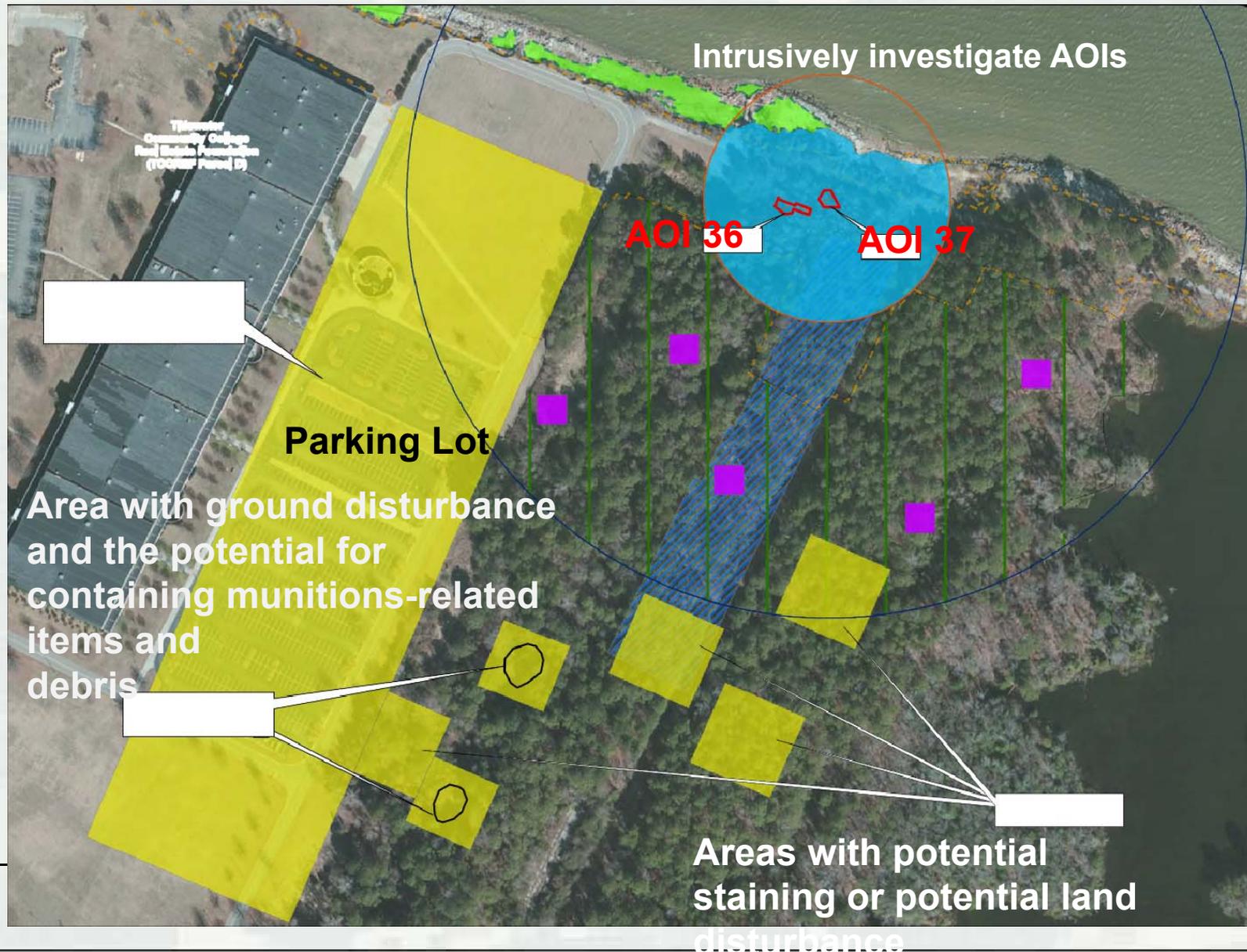
AOI 36

Intrusive Investigation on 2014



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Geophysical Work Conducted on June 2015

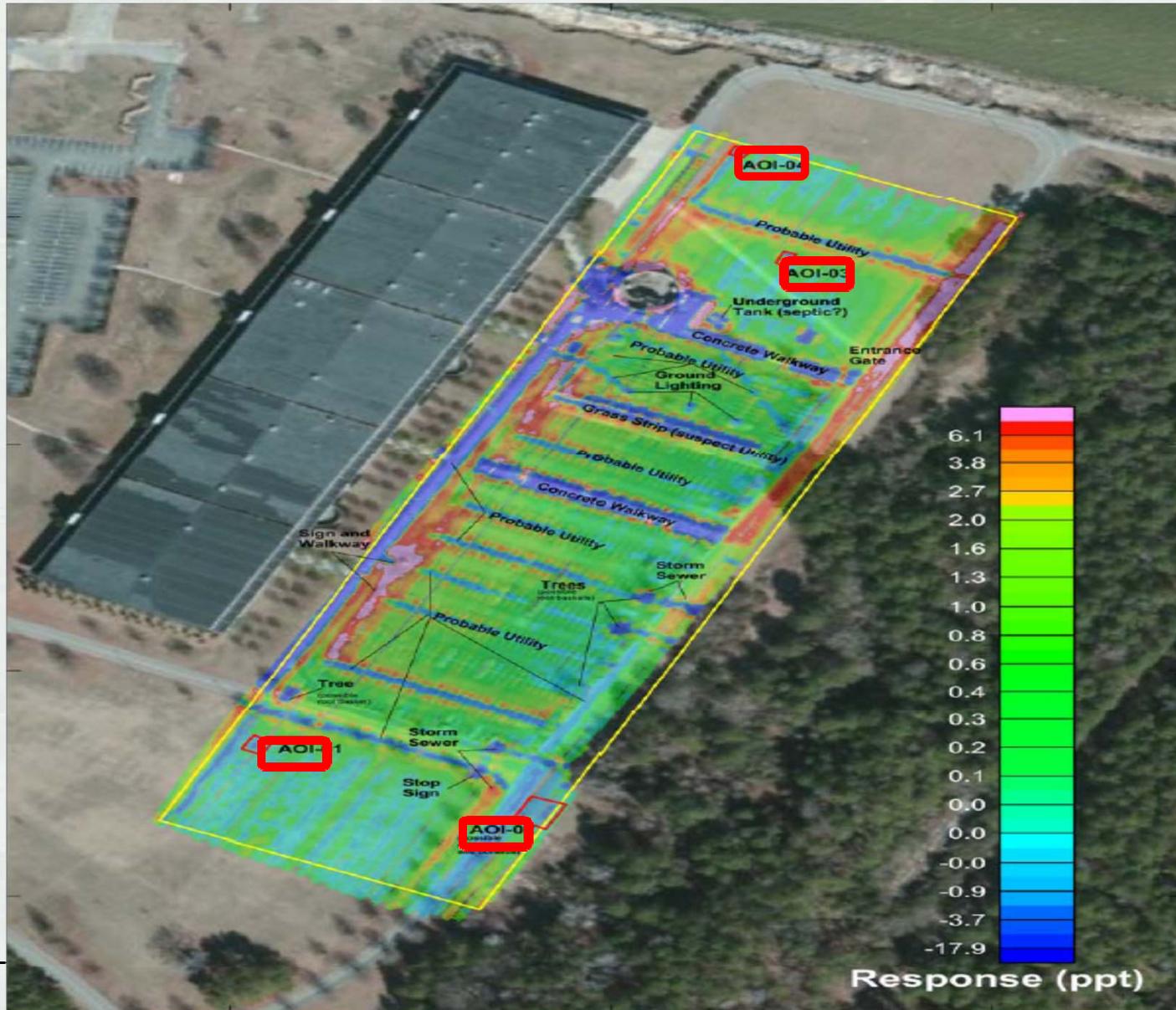


Current and Future Plan

- **Technical Memorandum (TM) is prepared for review by stakeholders. TM present current findings and proposes new work**
- **Additional RI will include analog magnetometer surveys, reacquisition and intrusive investigations of DGM anomalies, and MC sampling and analysis—
Upon approval of Tech Memo**

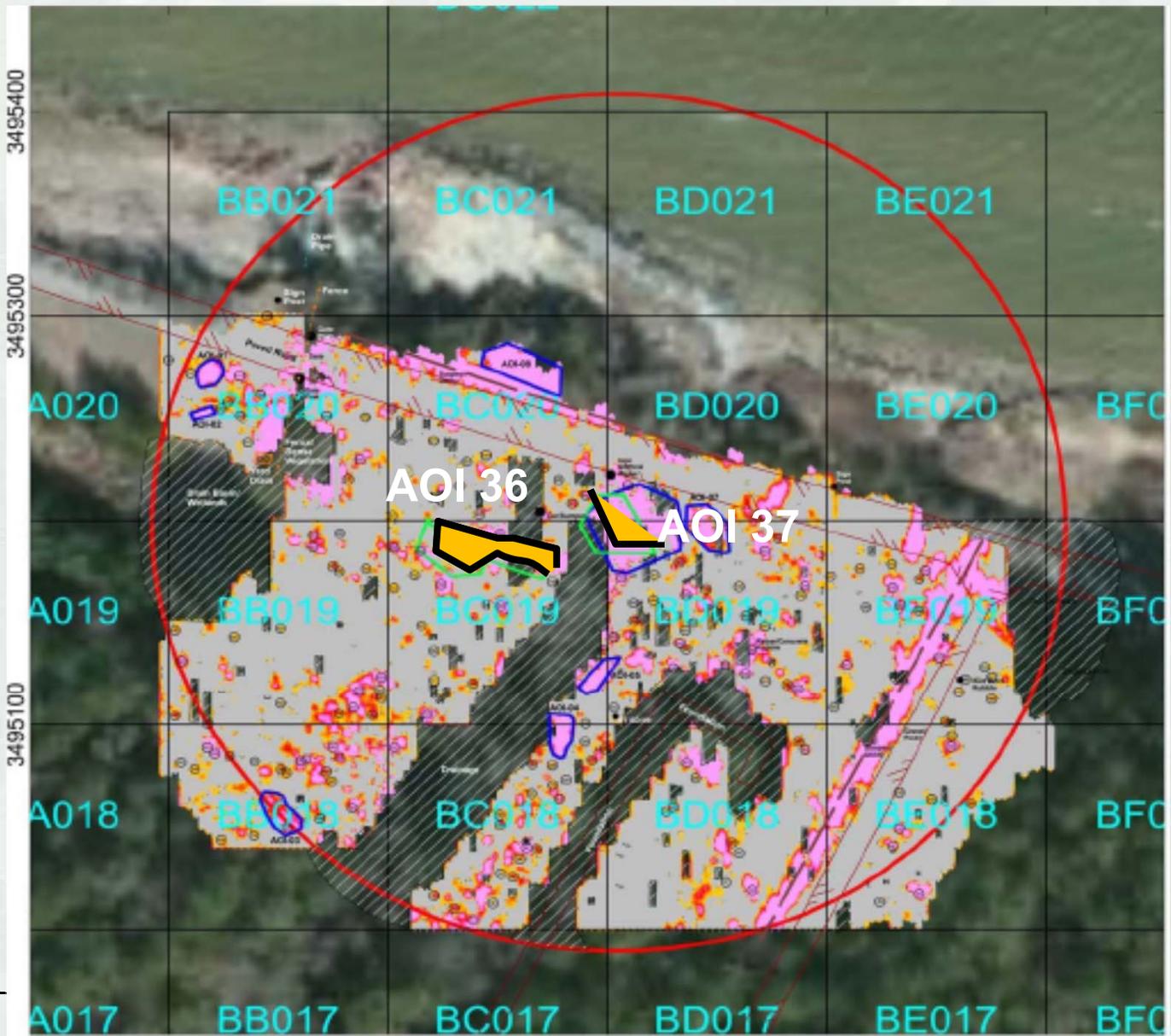


Recommended Actions for Parking Area



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RI-Continued



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The circular feature area of approximately 2.7 acres is associated with Area of Interest (AOI-36) and AOI-37 and is based on the anticipated fragmentation distance of 200 feet for the munitions items found at AOI-36 and AOI-37



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Recommended Actions for Kick-out Area

- To characterize the nature and the extent of the anomalies detected across the Kick-Out Area, it is recommended that the 168 DGM targets proposed in Table 3-2 and the seven AOI be reacquired and intrusively investigated
- MC sampling will be performed at MEC/MPPEH release locations as necessary based on the intrusive investigation results

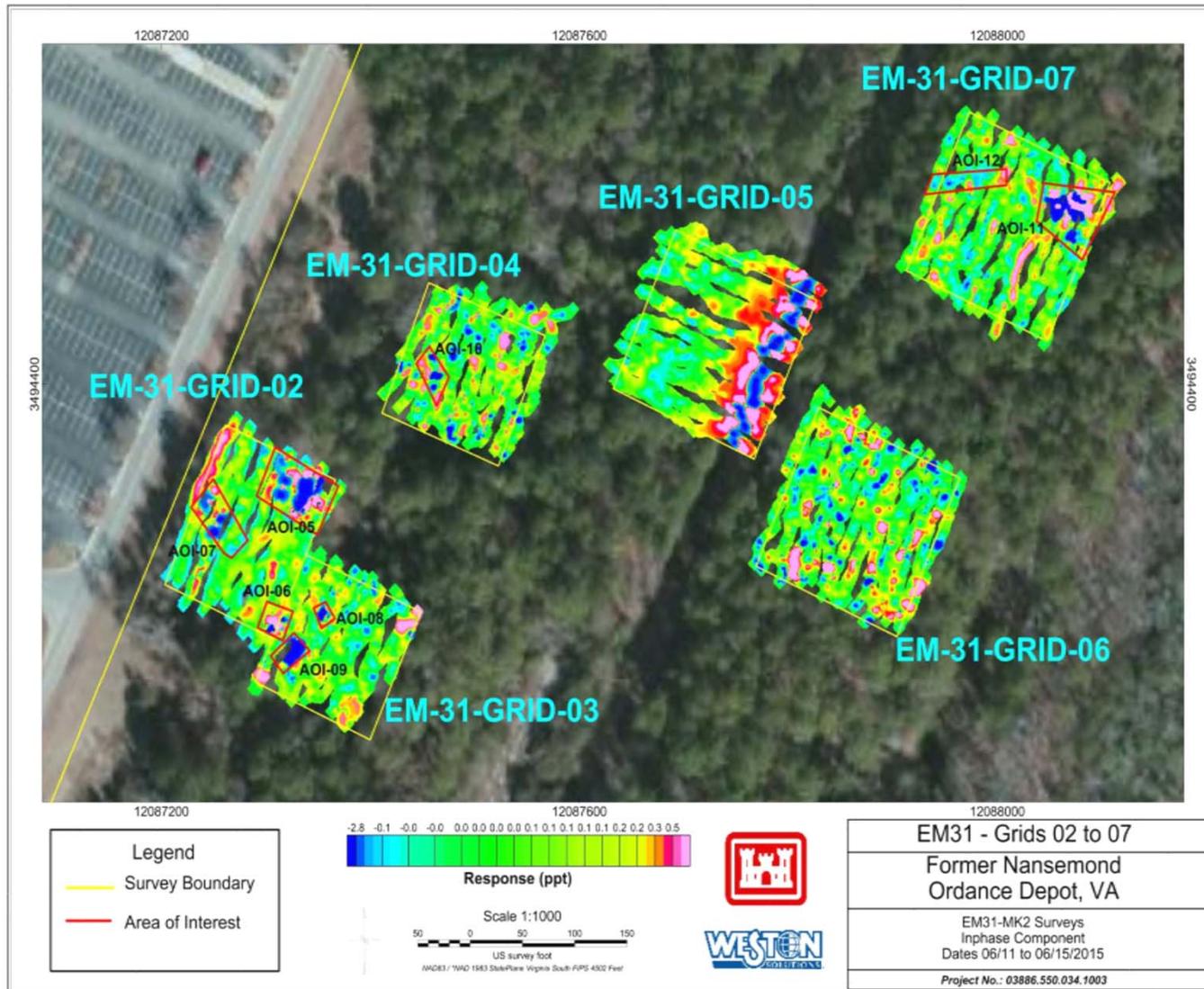


Table 3-2 Number of Anomalies Recommended for Intrusive Investigation

Grids ^a	Original Anomaly Count	No. of Targets Recommended for Intrusive Investigation
BB-018	102	19
BB-019	97	20
BB2-20	103	13
BC-018	101	21
BC-019	101	17
BC-020	89	11
BD-018	69	10
BD-019	175	28
BD-020	36	2
BE-018	38	9
BE-019	93	18
BE-020	3	0
Total	1007	168

Notes:
^a DGM Grids and Dig Sheets presented in Appendix B

EM31 Survey of Dark Areas from 1957 Aerial Imagery



Recommended Actions for six smaller grids traversed in the wooded area

- **A total of eight AOIs (05 through 12) were identified in the Potential Burial Pit areas. To characterize the nature and the extent of the AOIs, it is recommended that the AOI be further investigated by test pitting**
- **Perform the intrusive investigation and MC sampling if needed**



FINAL RI REPORT

RI Report should include the nature, location, and concentration of MEC and MC at the MRS and include a hazard assessment (MEC-HA) to quantify potential impacts to human health and the environment



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Main Burning Ground (MBG) Supplemental Site Characterization

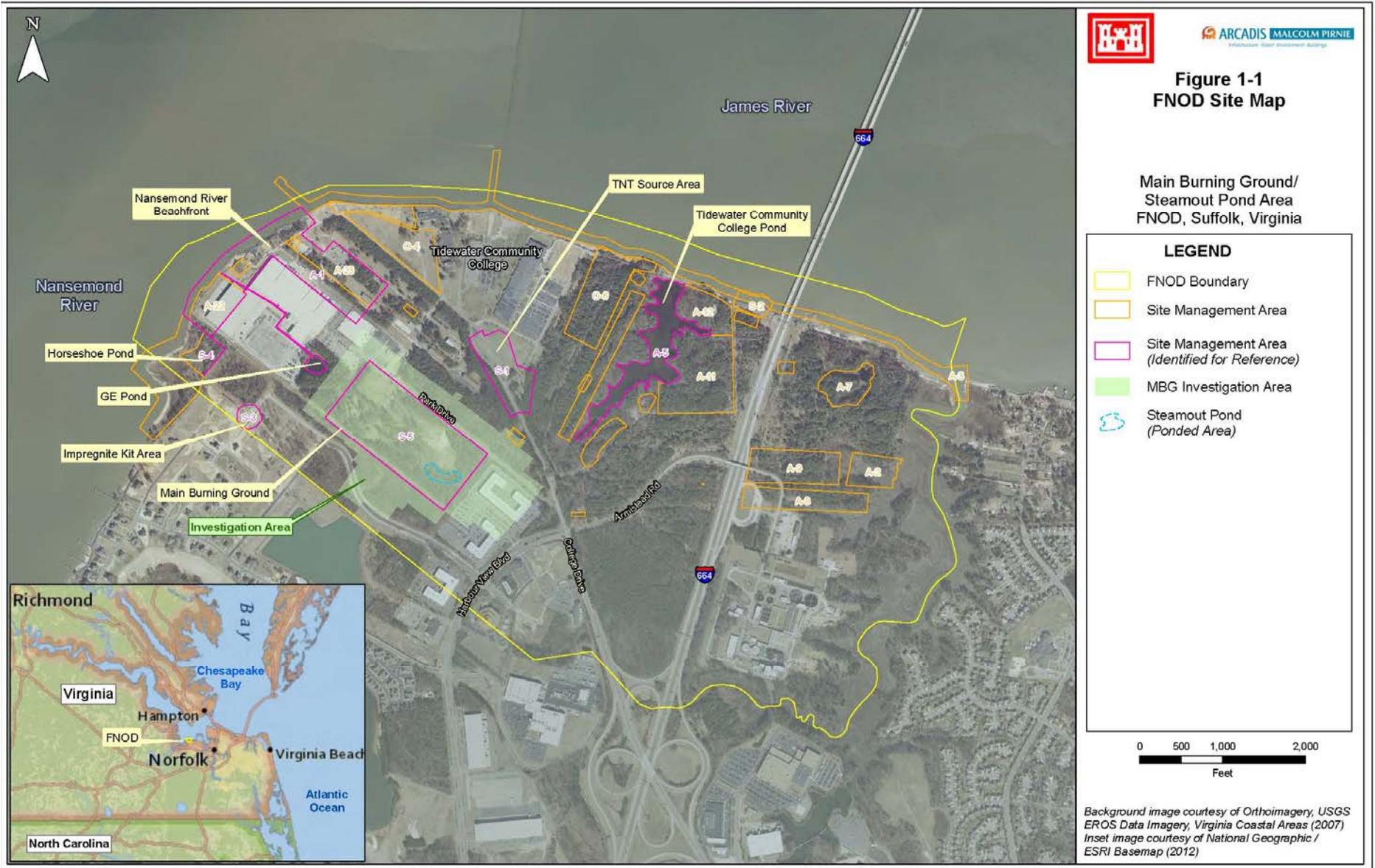
Former Nansemond Ordnance Depot Formerly Used Defense Site

December 3, 2015

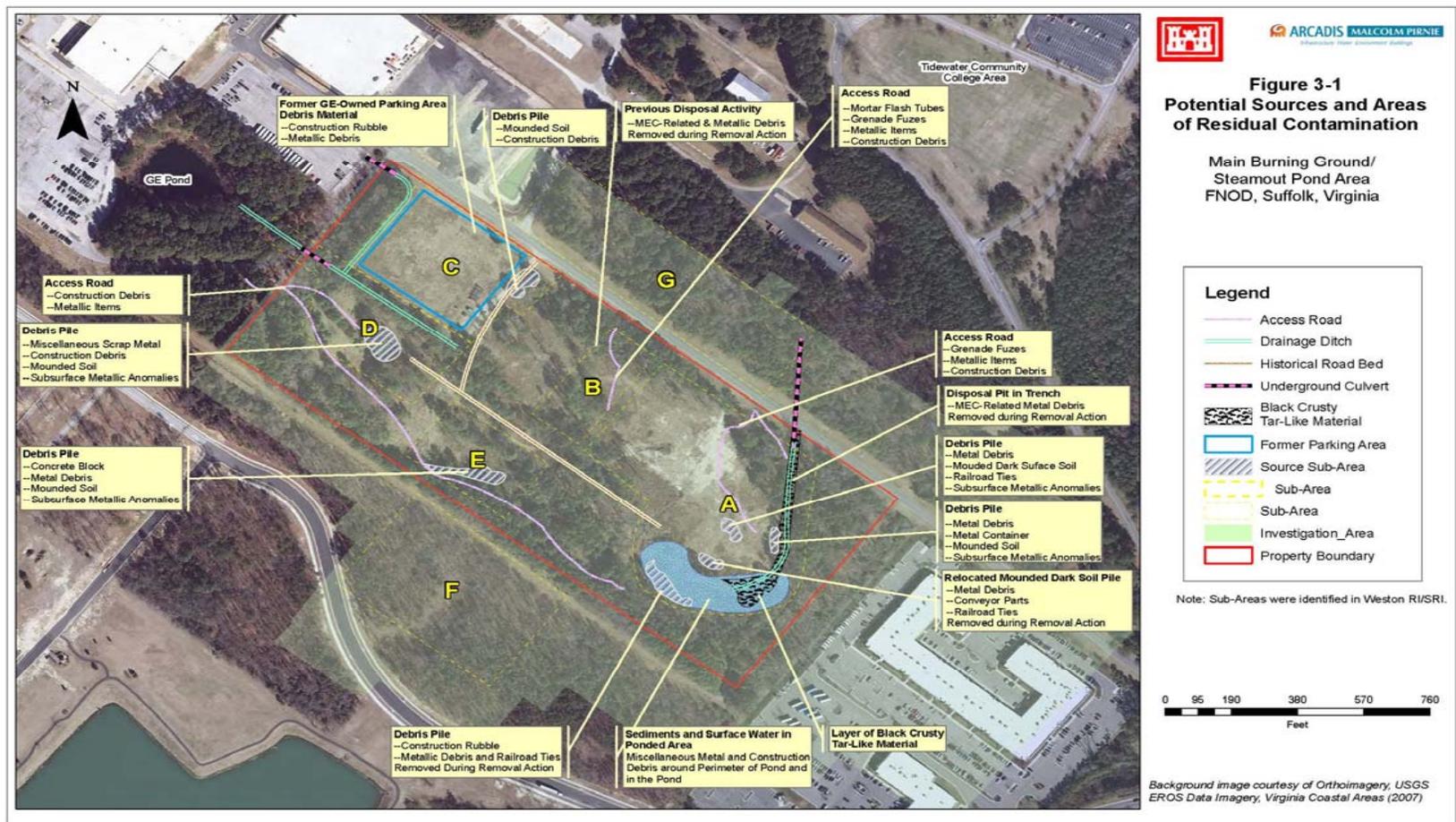


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FNOD Site Map



Potential Sources and Areas of Residual Contamination Based of MPI Revised RI



Summary of RI and MEC Activities

RI Activities Completed to Date

- **RI-Weston 2000**
 - ▶ The initial RI field investigation at the MBG site was completed between November 1999 and April 2000 and the results of this investigation were documented in the Draft RI Report (Weston, 2000)
- **SRI-Weston 2005**
 - ▶ Supplemental RI (SRI) field investigations were completed between October and November 2002 to investigate data gaps identified in the initial RI and areas identified during the MEC removal action activities. The results of this investigation were documented in the draft final combined RI/SRI Report (for both MBG and HSP) (Weston, 2005)
- **Revised RI-Malcolm Pirnie, 2012**
 - ▶ Revised RI field investigations were conducted from August through November 2008 to address data gaps identified in the initial RI and SRI. The results of this investigation were documented in the Revised RI Report (Malcolm Pirnie, 2012) which was submitted to EPA in December 2012
- **Comments received in March of 2013**
 - ▶ Revise the SLERA
 - ▶ Revise the data tables
- **SLERA revised in 2015 by USACE – comments received and RTCs prepared but not yet submitted**
- **BERA “discovered” that was finalized in 2008 as a combined HSP/SOP BERA – no risk found**
 - ▶ To be included as appendix in RI
- **On Going- Supplemental Site Characterization- AECOM**
 - ▶ **The two primary objectives of the supplemental site characterization field activities include:**
 - Complete additional MEC investigation activities in select areas of the MBG site;
 - Complete additional COPC characterization needed to fill RI data gaps and complete the FS



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COCs by Media

All Soils	Groundwater	Sediment
Benzo(a)pyrene	Arsenic	Benzo(a)pyrene
Dibenzo(a,h)anthracene	Cobalt	Aluminum
Indeno(1,2,3-cd)pyrene	Iron	Arsenic
	Manganese	Iron
	Selenium	
	2,3,7,8 - TCDD	

These COCs are derived from Future Child Resident Receptor – at least 1E-05 risk or 0.1 HQ (Total Risk of 2E-04 and HQ of 10)



Summary of Risks at MBG

Both human health and ecological risk assessments (HHRA and ERA) were completed as part the Revised RI Report by MPI (2012)

▪ Ecological Risk

- The ERA concluded that ecological effects from the COPCs are anticipated to be negligible

▪ Human Health

- The HHRA identified future residential receptors (adult and children) as the only potential receptors with cumulative risk greater than the EPA target risk range of 10^{-4} to 10^{-6} and a noncarcinogenic hazard greater than 1.0.
- The carcinogenic PAHs benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene were identified as constituents of concern (COCs) in soil based on the unacceptable cancer risk to residential receptors.
- Potential sources of PAH COCs detected at the MBG site include historical burning practices and debris piles at the MBG site



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Proposed MEC Investigation Areas



MEC Investigation and Findings

- Significant construction and metallic debris (potentially landfilled) was located in all three areas of munitions investigation (two grid areas and border area) during survey and vegetation removal activities
- In Sub-Area A, a few locations with munitions casings on the ground surface were identified following vegetation removal. These locations are outside the planned MEC



MEC Investigation and Findings

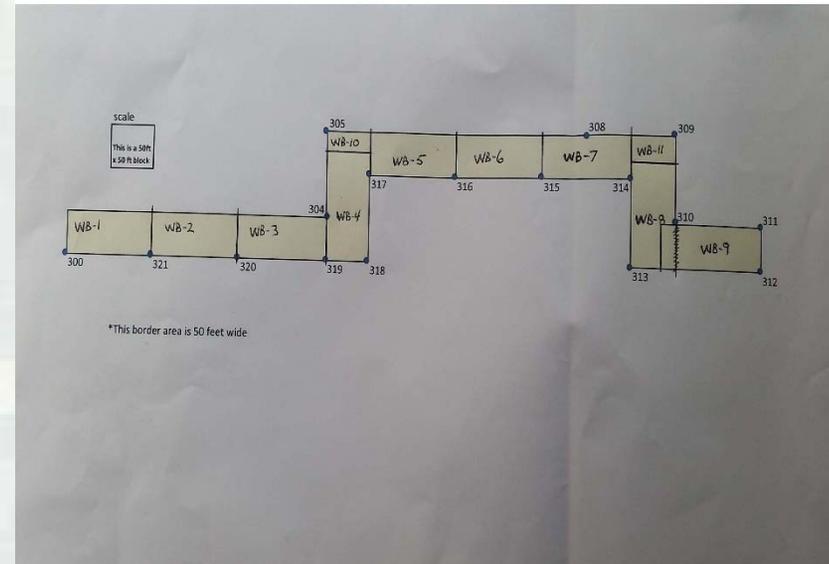
- AECOM conducted MEC investigation transects and trenching/test pits in eight 100x100 ft investigation grids. These grids included B-11, B-12, C-11, C-12, C-13, D-4, E-2, and E-3
- In the first five grids investigated, B-11, B-12, C-11, C-12, and C-13, saturated response areas were encountered caused by construction debris fill to depths of 3 to 5 ft below ground surface (bgs). Hand digging hundreds of anomalies along the investigation transects in saturated areas was replaced with mechanical excavation
- For all eight investigation grids, trenching or test pits were conducted to characterize anomalies/debris below 2 ft bgs and identify the depths of these materials, if feasible.
- **No munitions related debris or MEC/MPPEH was encountered in the eight investigation grids**



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MEC Investigation and Findings

- MEC investigation of the border area included a 100% sweep. The border area was divided into 9 investigation grids by the UXO team (grids WB-1 through WB-9).
- In grids WB-1 and -2, non-MEC trash/debris areas were encountered and limits approximated. Excavator test pits determined the non-MEC debris/trash in this location to be approximately 1 to 2 ft deep
- In the remaining border area outside of the trash/debris areas, a 100% sweep was completed in each grid. All detected anomalies were identified and recovered using mag & dig techniques except for two anomalies in grid WB-8. These anomalies were determined to be below 5 feet depth and could not be dug safely due to groundwater infiltration and caving concerns.



MEC Investigation and Findings

- Significant construction and metallic debris (potentially landfilled) was identified on the surface in border area planned for investigation
- WB-9 which is about 50ftx100ft, 206 anomalies were flagged. Dug 69 of the 206 anomalies and all were non-munitions related cultural debris (attached photo of grid with flags and photo of debris they were finding).
- In WB-8, 128 anomalies were found and dug approximately 20 and found all non-munitions related cultural debris. In WB-7 28 anomalies were found and dug them all were non-munitions related cultural debris.
- This pattern of lower anomaly counts continued a little further as team moved westward, but there were cultural debris/trash disposal areas in the vicinity of WB-1 and WB-2 based on visual observations.
- **No munitions related debris or MEC/MPPEH was encountered in the border area**



MEC Conclusion

- **All anomalies dug and found during the two weeks of investigations across the site were non-munitions cultural debris.**
- **In the border Area all anomalies outside of the trash pit area were resolved except two in grid WB-9. These two anomalies were greater than 5 feet bgs. AECOM stopped digging at this depth due to groundwater infiltration and safety concerns associated with the caving of sandy soils.**
- **Whatever is at depth is highly likely to be cultural debris similar to the rest of the debris found in the grid/area**



Data Gap Field Samplings

- AECOM completed the data gap sampling including direct push soil/sediment sampling, and groundwater sampling
- Sampling included the collection of 57 soil/sediment samples from 31 boring locations utilizing a Geoprobe DPT rig. The rig was also utilized to install five temporary well points
- Low flow groundwater samples were collected from the 24 existing monitoring wells at the site as well as the five temporary well points
- **The initial phase of data gap sampling has been completed. Follow-on phase sampling, if needed, will be based on initial phase results and summarized in a technical memorandum for stakeholder concurrence prior to implementation**



Former Nansmond Ordnance Depot Formerly Used Defense Sites (FUDS)

Project Closeout, Funding, Contracts and
Updates



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Website Demonstration



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Projects Closeout

Decision Statements were signed

- **J-Lake (AOC-7)**
- **Track K Magazine Line (AOC-14)**
- **Track K Magazine Line Landfill (AOC-15)**
- **Abandoned Water Treatment Plant (WTP) (AOC-20)**
- **Possible Closeout:**
 - **Track J Magazine Line-Scar (AOC-12)**



FUNDING & CONTRACT ACTION

- **2015- Contract was awarded for Horeseshoe Shaped Pond (HSP) for removal action and restoration of the site**

- **Contract Actions for 2016**
 - ▶ **James River Beachfront (JRB)- Remedial Design and Remedial Action**
 - ▶ **MEC Shoreline - Feasibility Study, Proposed Plan and Record of Decision**

- **2016 Funding: \$3.4 M**



Public Comment & Questions

- New Business/Establish Action Items
- Set Agenda for next RAB Meeting
- Next RAB Meeting –
Thursday, March 3, 2016



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