

# INSTALLATION RESTORATION PROGRAM



NAVAL SUPPORT FACILITY  
INDIAN HEAD

3838 STRAUSS AVENUE  
INDIAN HEAD, MARYLAND  
20640-5133



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## RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES

Date of Meeting: **CANCELLED from October 15, 2020**

RAB Member Attendees:

N/A

Additional Attendees:

N/A

RAB Members Not in Attendance:

N/A

**RAB Update:**

1. Latest Events

Due to restrictions from the COVID virus, the October 15, 2020 RAB meeting was cancelled. In lieu of a meeting, this minutes package was compiled that includes all of the information that would have been presented at the meeting. A copy of the proposed agenda from the cancelled meeting is included in Attachment A and the RAB presentations are included in Attachment C. The next RAB meeting is tentatively scheduled for Thursday, October 14, 2021. A copy of the draft agenda is included in Attachment B.

2. RAB Presentations

Presentations and updates prepared by NAVFAC Washington include the FY21 Budget Update, the Site 38 Groundwater Evaluation Update, the Site 68 Pre-EE/CA Investigation Update, and the Stump Neck Small Arms/Skeet Range Removal Action Update. Copies of all presentations are included in Attachment C.

3. Comments, Questions and Answers

Any comments or questions on this information package or any additional correspondence concerning the Installation Restoration Program (IRP) or the Munitions Response Program (MRP) at the facility can be directed to:

Public Affairs Officer  
Naval Support Facility South Potomac  
Attn: Public Affairs Officer, Code 00P  
6509 Sampson Rd.  
Dahlgren, VA 22448-5108  
PHONE: (540) 284-0129  
FAX: (540) 653-4269  
Email: [jeron.hayes@navy.mil](mailto:jeron.hayes@navy.mil)

**NAVAL SUPPORT FACILITY INDIAN HEAD  
INSTALLATION RESTORATION (IR) PROGRAM  
RESTORATION ADVISORY BOARD (RAB) MEETING AGENDA**

October 15, 2020

- 6:00 - 6:05 pm**      **ARRIVAL/WELCOME**  
Mr. Joseph Rail  
Naval Facilities Engineering Command, Washington (NAVFACWASH)  
Remedial Project Manager
- 6:05 – 6:15 pm**      **FY21 BUDGET UPDATE**  
Mr. Joseph Rail
- 6:15 – 6:30 pm**      **SITE 38-RUM POINT LANDFILL GROUNDWATER  
EVALUATION UPDATE**  
Mr. Andrew Louder
- 6:30 – 6:45 pm**      **SITE 68-FORMER BUILDING 259 CONTAMINATION PRE-  
EE/CA INVESTIGATION UPDATE**  
Mr. Alex Scott
- 6:45 – 7:00 pm**      **STUMP NECK SMALL ARMS/SKEET RANGE REMOVAL  
ACTION UPDATE**  
Mr. Joseph Rail
- 7:00 pm**              **ADJOURN**

**Attachment A**

**NAVAL SUPPORT FACILITY INDIAN HEAD  
INSTALLATION RESTORATION (IR) PROGRAM  
RESTORATION ADVISORY BOARD (RAB) **DRAFT** MEETING AGENDA  
October 14, 2021**

- 6:00 - 6:05 pm**      **ARRIVAL/WELCOME**  
Mr. Joseph Rail  
Naval Facilities Engineering Command, Washington (NAVFACWASH)  
Remedial Project Manager
- 6:05 – 6:15 pm**      **UXO 14 & 15 STUMP NECK SMALL ARMS/SKEET RANGE  
REMOVAL ACTION UPDATE**  
Mr. Andrew Louder
- 6:15 – 6:25 pm**      **UXO 9-SINGLE-BASE PROPELLANT GRAIN SPILL AREA  
SAMPLING UPDATE**  
Mr. Andrew Louder
- 6:25 – 6:35 pm**      **SITE 43 FIELDWORK/FEASIBILITY STUDY UPDATE**  
Mr. Andrew Louder
- 6:35 – 6:45 pm**      **BASEWIDE FIVE YEAR REVIEW UPDATE**  
Mr. Alex Scott
- 6:45 – 7:00 pm**      **SITE 57-BUILDING 292 TCE CONTAMINATION VAPOR  
INTRUSION (VI) EVALUATION**  
Mr. Alex Scott
- 7:00 – 7:15 pm**      **SITE 67-HOG-OUT FACILITY NON-TIME-CRITICAL  
REMOVAL ACTION UPDATE**  
Mr. Joseph Rail
- 7:15 – 7:30 pm**      **SITE 68-FORMER BUILDING 259 CONTAMINATION EE/CA &  
ACTION MEMO UPDATE**  
Mr. Joseph Rail
- 7:30 – 7:45 pm**      **SITE 69-BUILDING 1018 REMEDIAL  
INVESTIGATION/FEASIBILITY STUDY UPDATE**  
Mr. Joseph Rail
- 7:45 – 8:00 pm**      **STUMP NECK MRP SITES REMEDIAL  
INVESTIGATION/FEASIBILITY STUDY UPDATE**  
Mr. Joseph Rail
- 8:00 pm**              **ADJOURN**

**Attachment B**

## **Attachment C- RAB Presentations**



# **FY21 BUDGET & SCHEDULE UPDATE**

**Presented By**  
**Joseph Rail**  
Naval Facilities Engineering Command (NAVFAC)  
Washington

**10/15/20**

# FY21 Budget & Schedule Update



## Approximate budget for FY 2021:

- \$4 mil for Installation Restoration Program (IRP)
- \$400K for Munitions Response Program (MRP)

### Planned work includes:

- Remedial Investigation/Feasibility Study (RI/FS)
- Interim Removal Action (IRA)
- Remedial Action-Operation (RA-O)
- Long-Term Monitoring (LTM)
- Five Year Review

# FY21 Budget & Schedule Update



- **RI/FS for:**

- Site 66 – Turkey Run Disposal Area

- **IRA for:**

- Site 43 – Toluene Disposal Area
- Site 68 – Former Building 259 Contamination
- UXO 14 – Marine Rifle Range

- **RA-O for:**

- Site 17 – Disposed Metal Parts Along Shoreline
- Site 47 – Mercuric Nitrate Disposal Area
- Site 57 – Building 292 TCE Contamination

# FY21 Budget & Schedule Update



- **LTM for:**

- Site 11 - Caffee Road Landfill
- Site 12 – Town Gut Landfill
- Site 21 – Bronson Road Landfill
- Site 28 – Original Burning Ground
- Site 36 – Closed Landfill
- Site 38 – Rum Point Landfill
- Site 42 – Olsen Road Landfill

- **Five Year Review for:**

- Sites 11, 12, 14 (Lab Area), 17, 21, 28, 36, 38, 42, 47, 57, & UXO 32 (Scrap Yard)



# Contacts and Questions



## Points of Contact:

- **NAVFAC Washington:** Joseph Rail
- **NAVFAC Washington (Base RPM):** Andrew Louder

## Questions ?



# **SITE 38 GROUNDWATER EVALUATION & CLOSEOUT**

**Presented By**  
**Joseph Rail**  
Naval Facilities Engineering Command (NAVFAC)  
Washington

**10/15/20**

# Site 38 Remedial Action



- **ROD signed in 2014. Remedy Components:**
  - No action for sediment and surface water.
  - Excavate and dispose of (or recycle) landfill waste and soils.
  - Monitor groundwater per MDE regs and demonstrate manganese in groundwater is from upgradient.
- **Remedial Action Objectives:**
  - Close the landfill in a manner that protects human health and the environment in accordance with MDE solid waste management regulations.
  - Prevent unacceptable risks to human receptors from exposure to manganese in groundwater until groundwater conditions allow for UU/UE.
  - Return groundwater to beneficial use to the extent practicable.
- **Landfill waste and soils (and some MEC) excavated in 2017.**
  - Soil/Waste RACR completed.

# Groundwater COC/LTM Analyses



- **Manganese groundwater cleanup level:**
  - 2014 ROD has 320  $\mu\text{g/L}$  based on  $\text{HI}=1$  (not adjusted)
  - However, a current value based on  $\text{HI}=1$  is 430  $\mu\text{g/L}$  (not adjusted), because RSL changed to 430  $\mu\text{g/L}$  in May 2014.
- **Groundwater LTM sample analyses:**
  - Manganese (Groundwater COC)
  - Maryland RCRA I & II tables parameters (ARAR for closed landfill), including VOCs, all metals, and several wet chemistry parameters.
  - Explosives and SVOCs at EPA's request (via comment on 2017 LTM Plan) based on wastes encountered during landfill excavation.

# Groundwater LTM Program



- **Remedy Monitoring component details from ROD:**
  - “Sampling to confirm that groundwater contaminants are attenuating and that no contaminants are migrating from the site at unacceptable levels.”
- **Eleven monitoring wells**
- **Three sampling events followed by evaluation of risk**
  - Event No. 1: Completed in July 2018. Data report complete.
  - Event No. 2: Completed in June 2019. Data report complete.
  - Event No. 3: Completed in March 2020. Data report complete.
- **Groundwater LUCs inspected each time (no issues).**

# Most Recent / March 2020 Results



- VOCs, SVOCs, PAHs, and explosives were not detected (same as in July 2018 and July 2019)
- Total Manganese exceeds the cleanup level of 430 µg/L in three monitoring wells:
  - MW01S (upgradient) at 1,550 µg/L
  - MW02 (side-gradient) at 470 µg/L
  - MW07 (downgradient) at 488 µg/L
- Manganese is below cleanup level within the former landfill footprint during all three events.
- Manganese is confirmed above cleanup level upgradient of the former landfill during all three events.

# Manganese Results

Event Nos. 1 (July 2018), 2 (June 2019), and 3 (March 2020)



# Site 38 LTM Complete



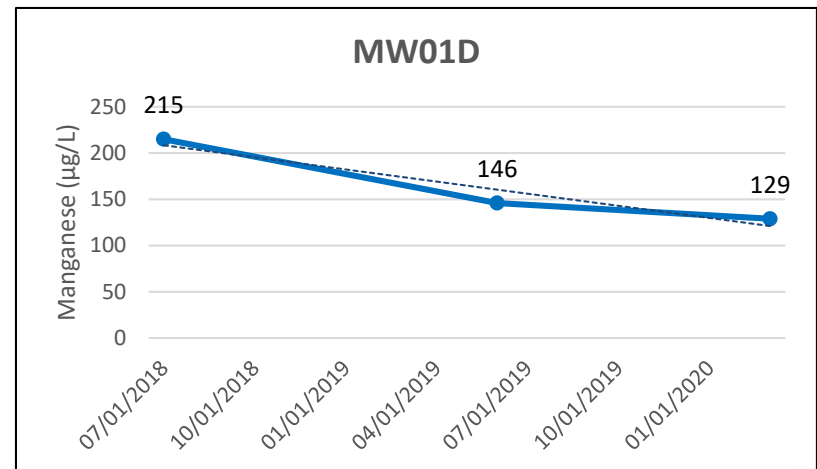
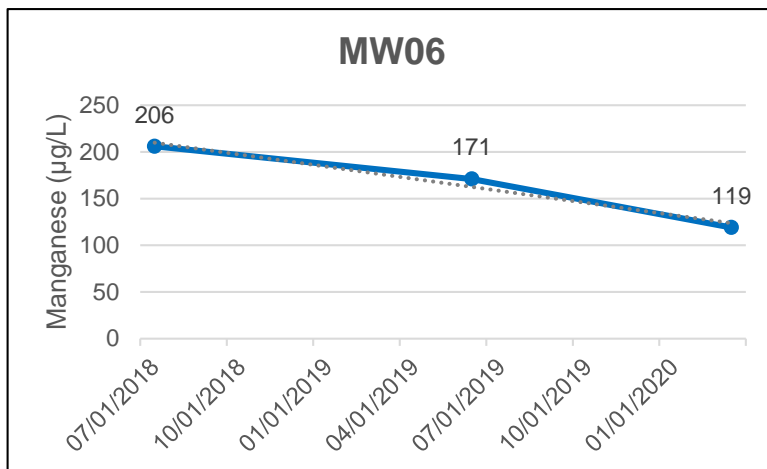
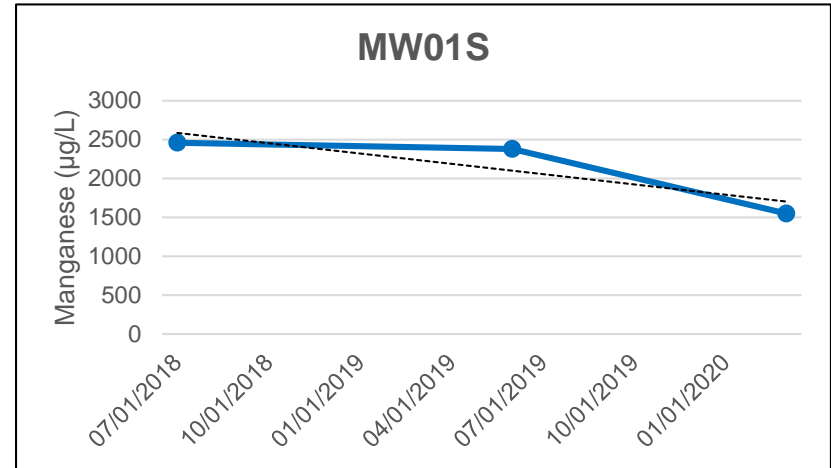
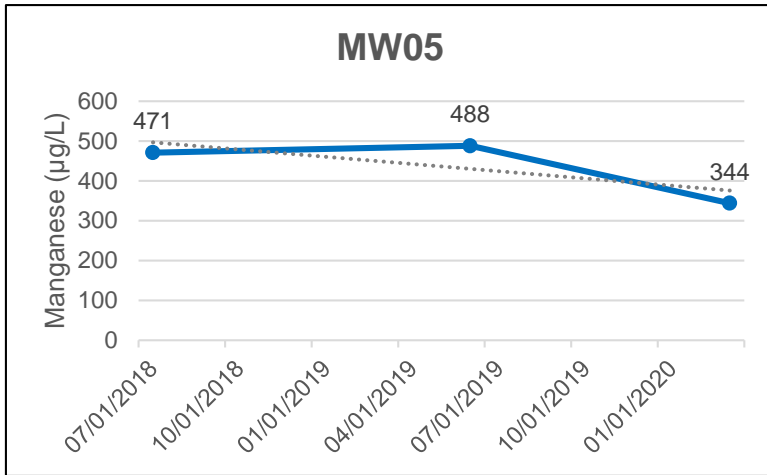
- **Three LTM events completed prior to site closeout following removal of landfill, per MDE Solid Waste ARAR.**
- **Groundwater Evaluation drafted to conclude if COC (manganese) is from site or from upgradient source, per ROD.**
  - **Cumulative data presentation.**
  - **Demonstrate elevated manganese upgradient.**
  - **Show lack of increasing trends on MDE RCRA I & II parameters.**
  - **Reevaluate HH risk.**
  - ***Recommend no further action based on upgradient manganese and completing the three statutory LTM events.***



# Groundwater Evaluation Results



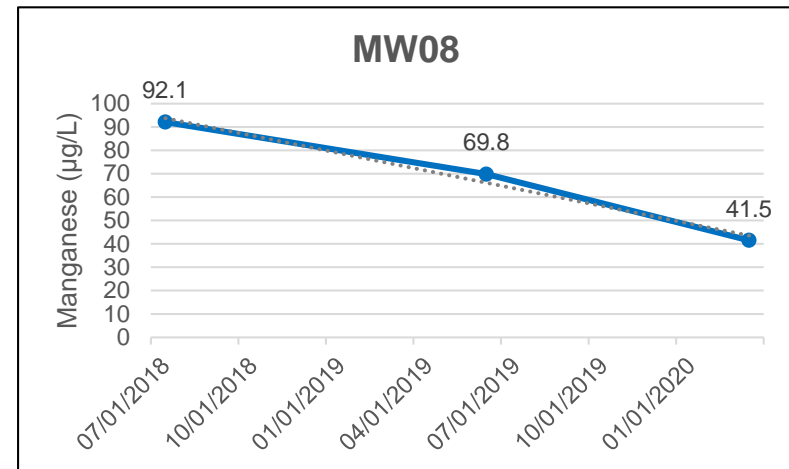
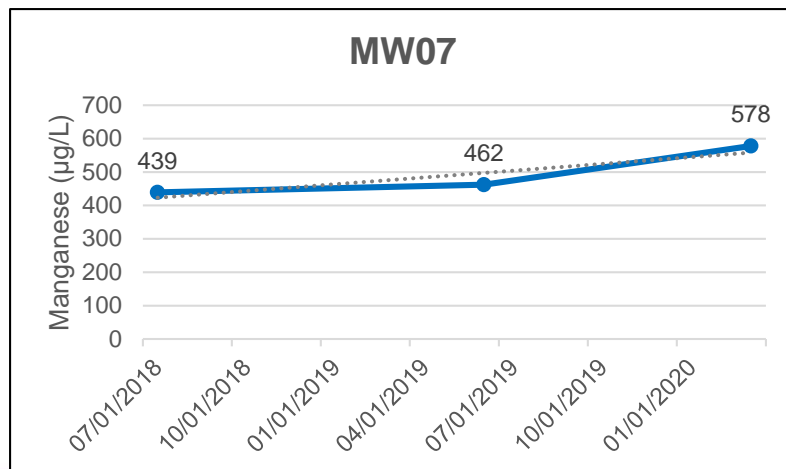
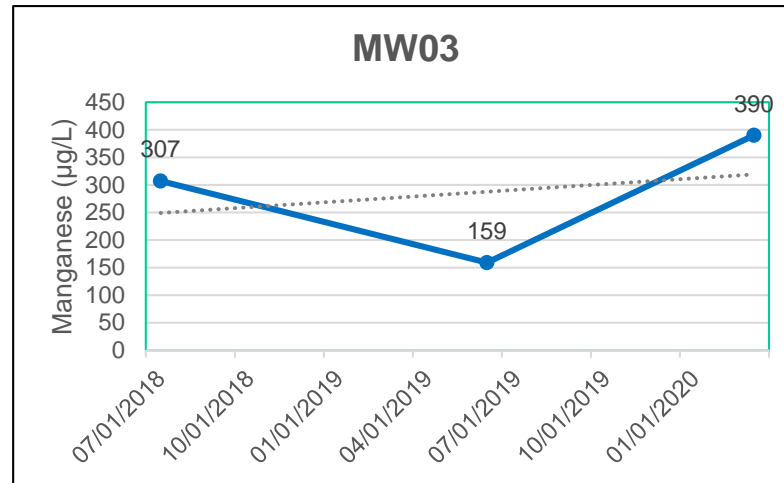
## Manganese Trends – Upgradient Wells MW05, MW06, MW01S, MW01D



# Groundwater Evaluation Results



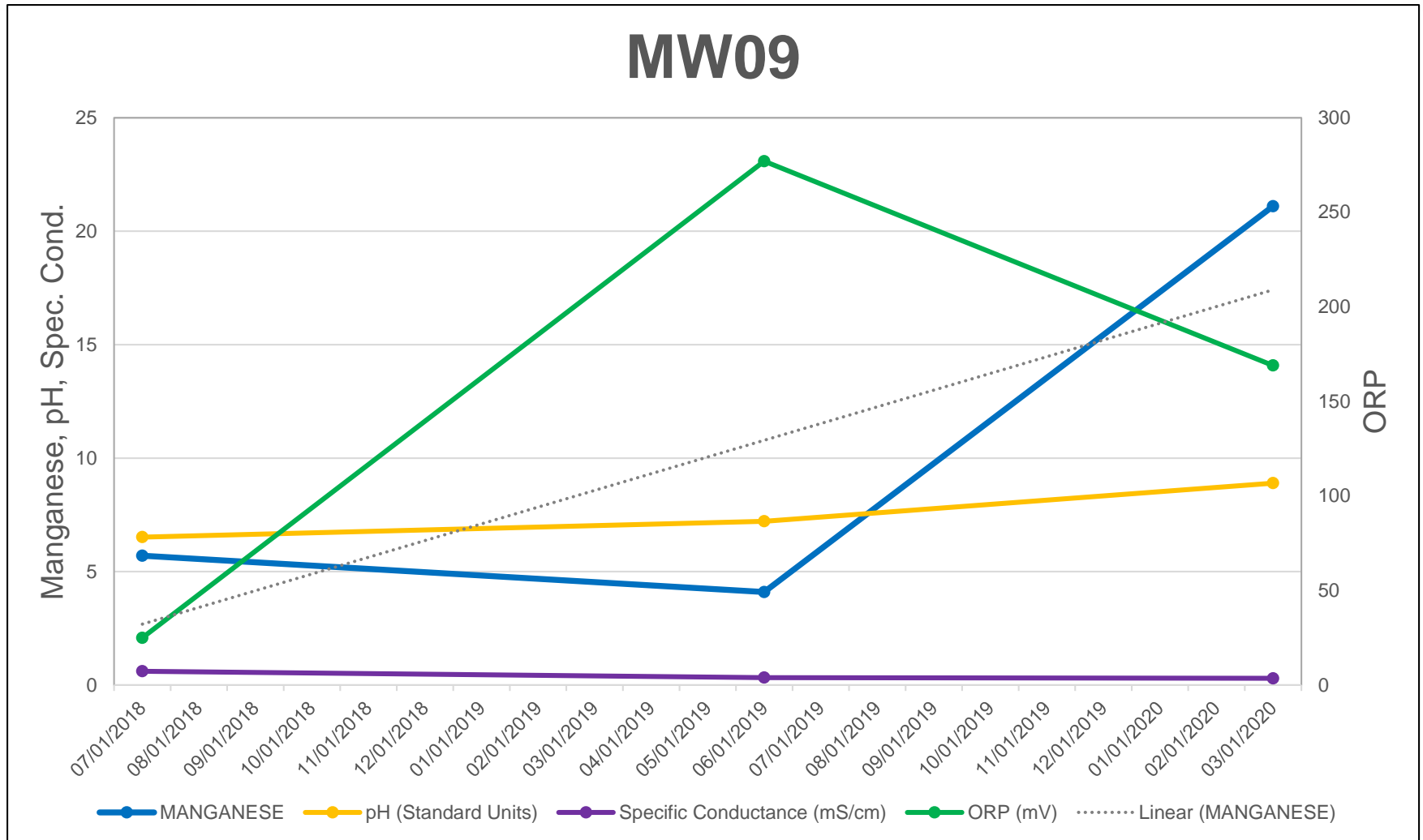
## Manganese Trends – Downgradient Wells MW03, MW07, MW08



# Groundwater Evaluation Results



## Manganese Trends – Landfill Footprint Well MW09

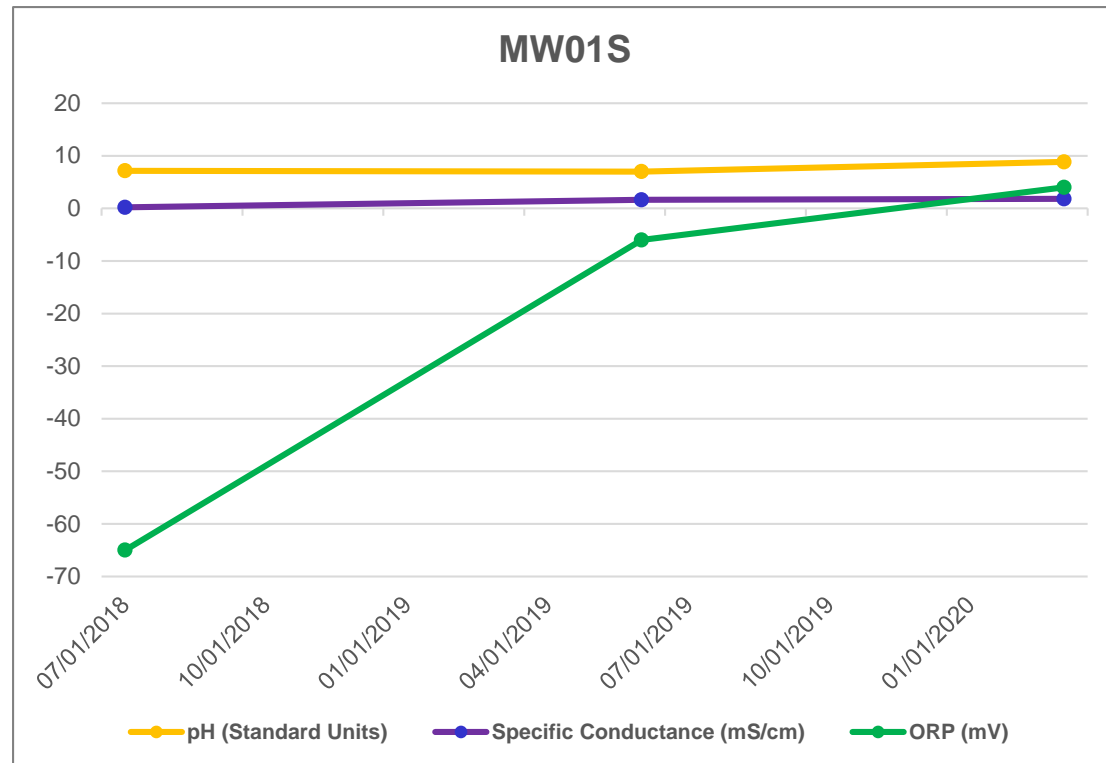
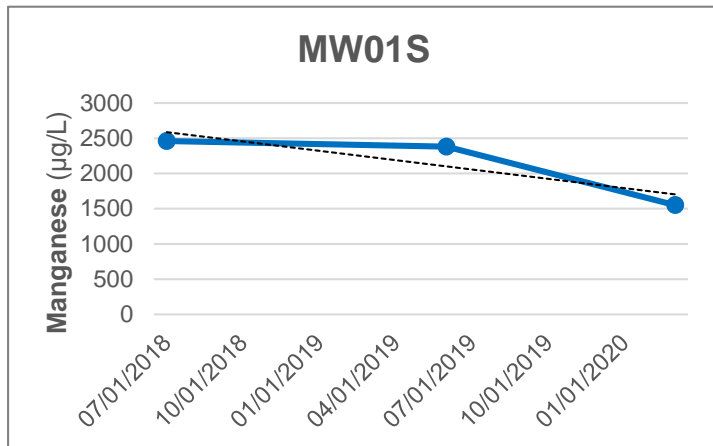


# Groundwater Evaluation Results

## Groundwater quality parameter plots

–Water quality data from trend plots- E.g.,

- Certain metals/inorganics
- pH
- Spec. Cond.
- ORP



# Groundwater Evaluation Results-

## VOCs, SVOCs, PAHs, and Explosives



- **No detections or problematic detections of VOCs, SVOCs, PAHs, or Explosives. The following are the only detections in these analytical suites during Event No. 3:**
  - **Bromomethane detection (0.93 J  $\mu\text{g/L}$ ) in duplicate of non-detect(<1) parent sample at MW07.**
    - This COPC is evaluated in the HH risk evaluation. It contributes an HQ of 0.12 for Gastrointestinal System target organ.
    - (Iron contributes HQ of 0.49 to same GS target organ).
  - **Bis(2-ethylhexyl)phthalate detection (1.3 J) at well MW08.**
    - This is evaluated in the COPC screening but is below the RSL.

# Groundwater Evaluation Results

## MDE RCRA I & II Parameter Trends



- **Three temporal data points of marginally different values for most parameters.**
- **Generally downward trends or variable trends in downgradient wells GW03, GW07, GW08. Some increases between LTM Events 1 and 3, but not at levels above background that cause an unacceptable risk. E.g.,**
  - **Nitrate-N:**
    - Increase from <0.05 to 0.12 mg/L in GW03
    - No increase (remains <0.05 mg/L) in GW07
    - Increase from 0.098 to 0.36 mg/L in GW08
  - **Iron (Background Threshold Value is 18,700 µg/L):**
    - Increase from 1,360 to 2,900 µg/L in GW03
    - Increase from 6,770 to 6,870 µg/L in GW07
    - Increase from 1,040 to 3,050 µg/L in GW08

# Groundwater Evaluation Results –

## Human Health Risk-Ratio Evaluation



- Risk screening analysis based on methodologies used to calculate EPA RSLs to conservatively assess potential exposure and toxicity to human receptors.
- Tap water RSLs based on a lifetime resident for carcinogens and a child resident for noncarcinogens.
  - RSLs based on HQ of 0.1 because of the additive noncarcinogenic effects of some chemicals (some chemicals affect the same target organ or exhibit similar mechanisms of action)
  - RSLs based on ILCR of  $1 \times 10^{-6}$  were used for carcinogenic chemicals. A cancer risk of  $1 \times 10^{-6}$  may be interpreted as one additional case in one million exposed individuals.

# Groundwater Evaluation Results – Human Health Risk-Ratio Evaluation



## SUMMARY OF RESIDENTIAL RISKS AND HAZARD INDICES FOR EXPOSURES TO GROUNDWATER

Chemical	ILCR			Non-Cancer HQ			
	Maximum Concentration <sup>(1)</sup> (ug/L)	Tapwater RSL <sup>(2)</sup> (ug/L)	Estimated ILCR	Primary Target Organs	Tapwater RSL <sup>(2)</sup> (ug/L)	Estimated HQ	
<b>Metals</b>							
Arsenic	2.7	0.052	5.2E-05	Dermal, CVS	6	0.45	
Cobalt	2.5	NA	NA	Thyroid	6	0.42	
Iron	6870	NA	NA	GS	14000	0.49	
Manganese	1550	NA	NA	CNS	430	3.6	
<b>VOCs</b>							
Bromomethane	0.93	NA	NA	GS	7.5	0.12	
<b>Total ILCR</b>			<b>5E-05</b>	<b>Total HI</b>			<b>5</b>

1 - The maximum concentration was used as the exposure point concentration.

2 - USEPA Regional Screening Levels (RSLs) for Chemical Contaminants at Superfund Sites, May 2020.

### Target Organ HIs

HI = Hazard Index

HQ = Hazard Quotient

ILCR = Incremental Lifetime Carcinogenic Risk

NA = Not Applicable

RSL = Regional Screening Level

Total CVS HI = 0.5

Total Dermal HI = 0.5

Total GS HI = 0.6

Total CNS HI = 4

Total Thyroid HI = 0.4

Target Levels: cumulative ILCR = 1E-04 for carcinogens, cumulative HI = 1 for noncarcinogens

### Target Organ Abbreviations:

CNS = Central Nervous System

CVS = Cardiovascular System

GS = Gastrointestinal System



# Groundwater Human Health Risk-Ratio Evaluation



- ILCR within EPA's acceptable risk range of  $1 \times 10^{-4}$  to  $1 \times 10^{-6}$ . Therefore, no unacceptable carcinogenic risks.
- Total cumulative HI is 5, which is above EPA threshold of 1.
  - Target organs: Cumulative HI for CNS > 1 (manganese and bromomethane).
  - Primary risk driver is manganese
- All metals COCs except manganese are lower than background
  - Max cobalt of 0.5  $\mu\text{g/L}$  is from upgradient well MW05.
  - Max manganese of 1,550  $\mu\text{g/L}$  is from upgradient well MW01S.

Chemical	EPC - Max Concentration ( $\mu\text{g/L}$ )	Background Threshold Value ( $\mu\text{g/L}$ )
<b>Metals</b>		
Arsenic	2.7	7.09
Cobalt	2.5	17.7
Iron	6,870	18,700
Manganese	1,550	897

# Conclusion



- **Groundwater medium can be closed out based on the stipulations in the ROD.**
  - **Three LTM events were completed.**
  - **Trend analyses do not indicate issues warranting further response.**
  - **Human health risk evaluation completed.**
    - Non-cancer HI is greater than threshold of 1. Manganese is main risk driver.
    - However, max concentrations of the COCs (except manganese) are less than background threshold values.
    - Manganese is elevated above the manganese PRG of 430 ug/ L (HI=1) in upgradient wells and flowing into the site.

# Conclusion



- **Upgradient manganese source may need investigation.**
  - **On-Annex property or state property on other side of fence.**
  - **Put on Team's partnering Parking Lot**
- **Closeout Process**
  - **Memo and signatures cover for Final Groundwater Evaluation Report.**
  - **Final RACR for Site 38 (soil RACR completed previously)**

# Upcoming Deliverables



- **Draft Groundwater Evaluation Report**
  - **Demonstrate elevated manganese upgradient**
  - **Show lack of increasing trends on MDE RCRA I & II parameters**
  - **Reevaluate risks as needed to demonstrate no issue.**
  - **Recommend no further action based on upgradient manganese and completing the three statutory LTM events.**
- **Final Groundwater Evaluation Report**
  - **With NFA Concurrence Signature Page**
- **Site close-out / Complete RACR for groundwater (signature currently on schedule for May 2021).**

# Contacts and Questions



## Points of Contact:

- **NAVFAC Washington:** Joseph Rail
- **NAVFAC Washington (Base RPM):** Andrew Louder

## Questions ?



# **SITE 68 Former Building 259 Contamination Pre-EE/CA Investigation**

**Presented By  
Joseph Rail  
Naval Facilities Engineering Command (NAVFAC)  
Washington**

**10/15/20**

# Site 68 Location



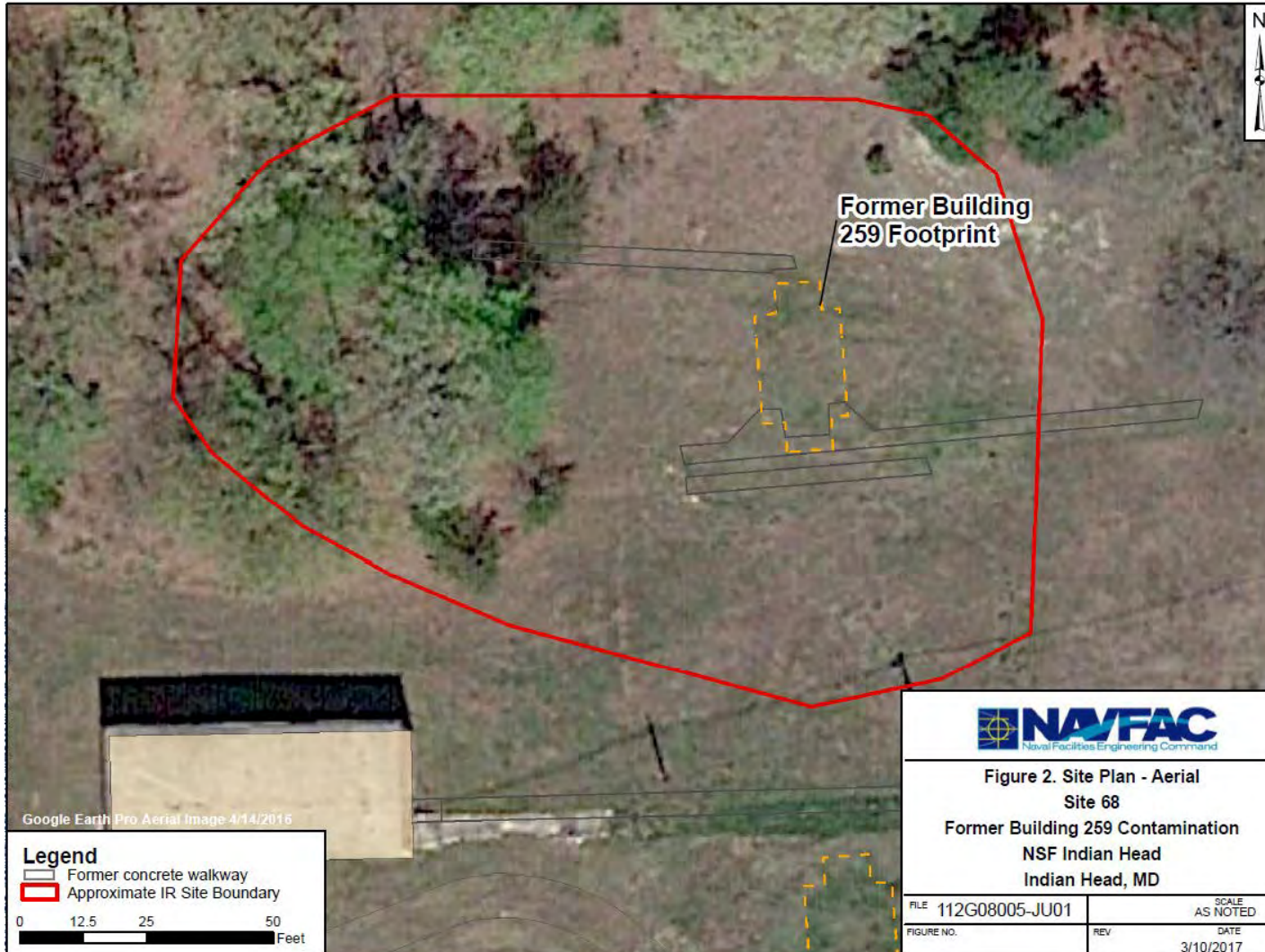
# Site 68 Background & History



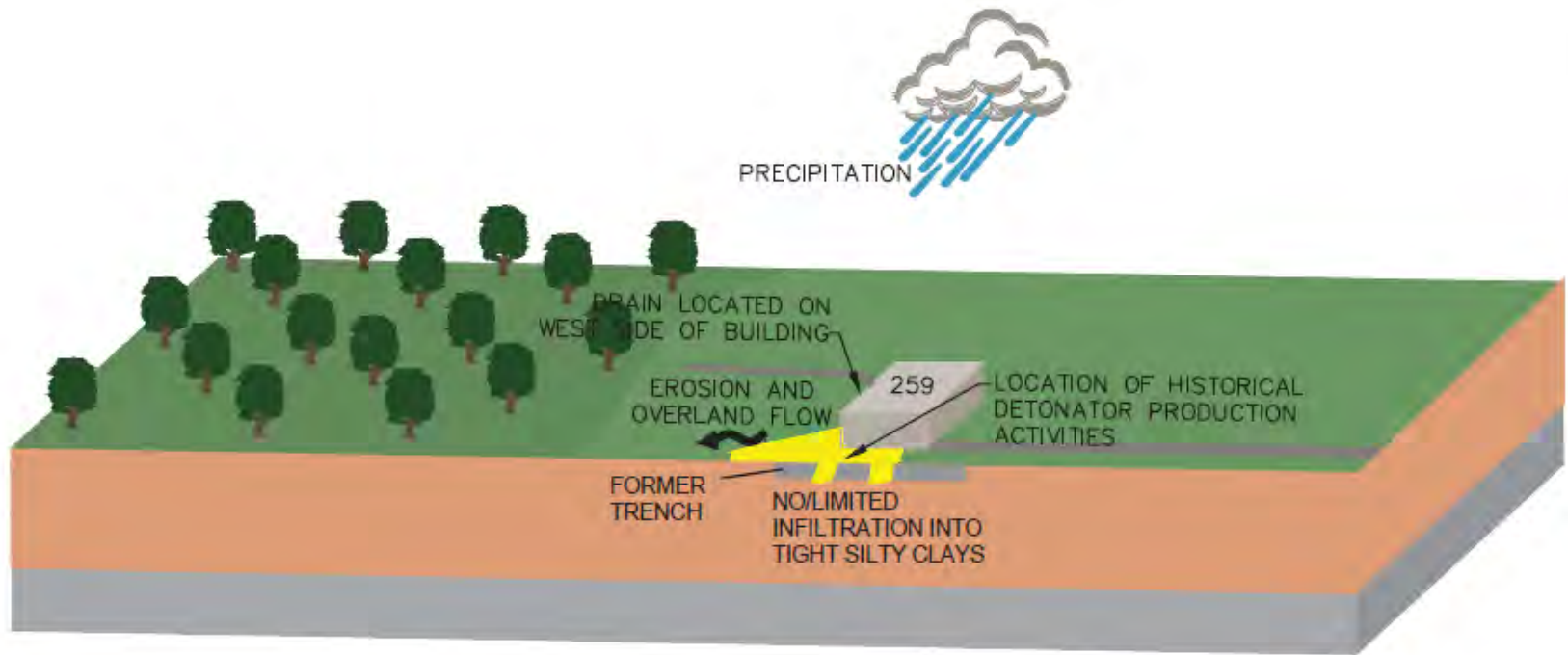
- **Location:** Building 259 – Old Storehouse / Detonator Production.
- **Current Use:** None. Demolished
- **Contaminant source:** Mercury and lead from detonator production outside building. Lead azide was produced outside the building and cooled by water that ran through the trench.
- **World War I:** Building 259 was a former inert storehouse constructed in 1917. Detonator production activities occurred during World War I timeframe.







# Site 68 Layout



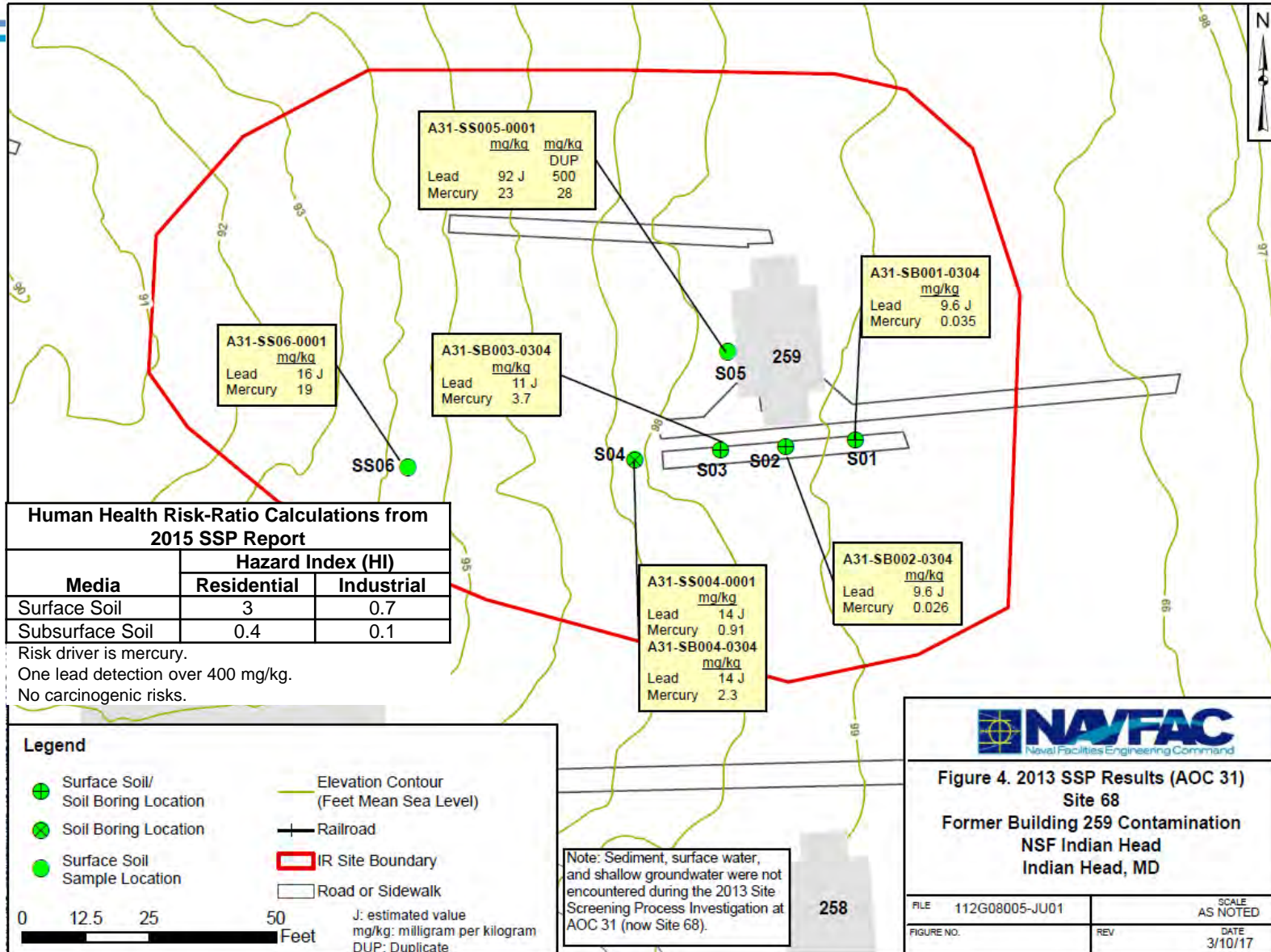
# Conceptual Site Model based on SSP Investigation



## LEGEND

-  CONTAMINANT
-  WATER TABLE (NOT ENCOUNTERED)
-  SILTY SANDS
-  SILTY CLAYS AND CLAY

# 2013 SSP Investigation Results



# Pre-EE/CA Investigation



## Problem Statement:

- **Soil must be evaluated to refine the spatial contamination limits of mercury and lead for removal alternative development in the EE/CA.**
- **The presence or absence of sediment, surface water, and shallow groundwater media must be observed/reconfirmed. Any sediment, surface water, or groundwater encountered during this investigation will be sampled and undergo the SSP.**
- **The subsurface lithology and presence or absence of water table must be confirmed at more locations at the site. Lithology soil borings must be performed at locations upgradient of, within, and downgradient of the source area.**

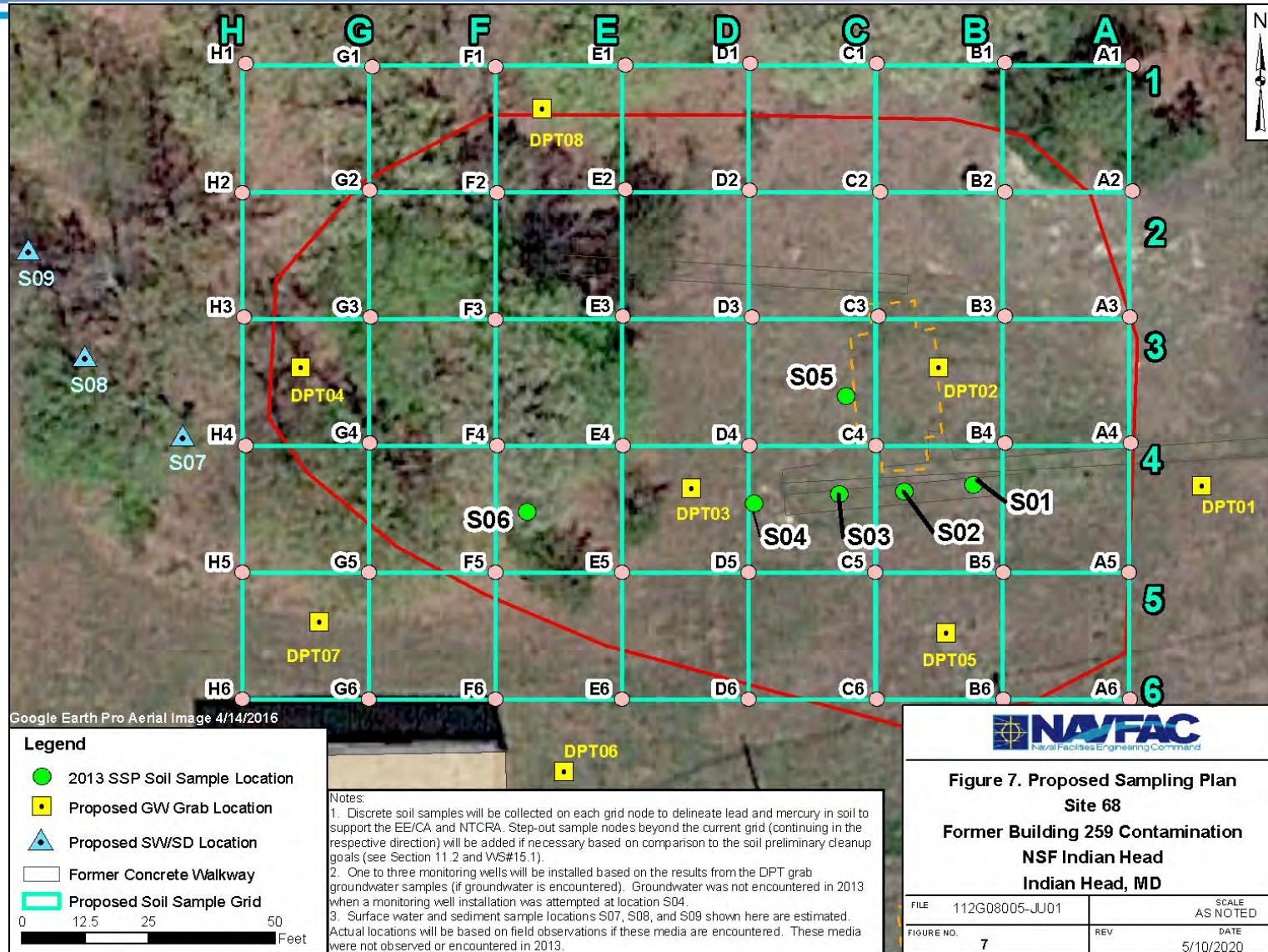
# Pre-EE/CA Investigation



## Analytic Approach:

- **If the Team concludes that the extent of lead and mercury in soil has been determined... based on comparison to the preliminary removal action cleanup levels... then proceed with the soil EE/CA. Otherwise, recommend additional soil data collection.**
- **If groundwater, sediment, or surface water are not present, then recommend NFA for these media.**
- **If groundwater, sediment, or surface water are present, then proceed with SSP risk evaluations; otherwise conclude that the missing media are not an environmental risk. The outcome of the SSP risk evaluations for these other media will [determine if] additional actions are warranted or to recommend NFA for each respective medium.**

# Pre-EE/CA Investigation



# Pre-EE/CA Investigation



## Preliminary Removal Action Cleanup Goals for Soil

Cleanup Goal	Basis
<b><u>Surface Soil (mg/kg)</u></b>	
<b>Lead</b> <b>200</b>	Maryland cleanup level for residential soil (starting July 2020)
<b>Mercury</b> <b>3<sup>(1)</sup></b>	Ecological risk-based action value used for determining extent of NTCRA at IRP Site 28 (CH2M HILL, 2005 and 2006b).
<b><u>Subsurface Soil (mg/kg)</u></b>	
<b>Lead</b> <b>200</b>	Maryland cleanup level for residential soil (starting July 2020)
<b>Mercury</b> <b>11</b>	Human health residential risk-based cleanup value (HI=1) used for the remedial action at the Lab Area IRP site(s) (CH2M HILL, 2011).

1. Value is the maximum mercury soil concentration submitted for toxicity testing for the Site 47 Baseline ERA (CH2M HILL, 2005, 2006a, and 2006b). No adverse effects (survival or growth) were observed in any of the bioassay samples from Site 47 (28-day tests with the earthworm *Eisenia foetida*).

# Pre-EE/CA Investigation



## Results:

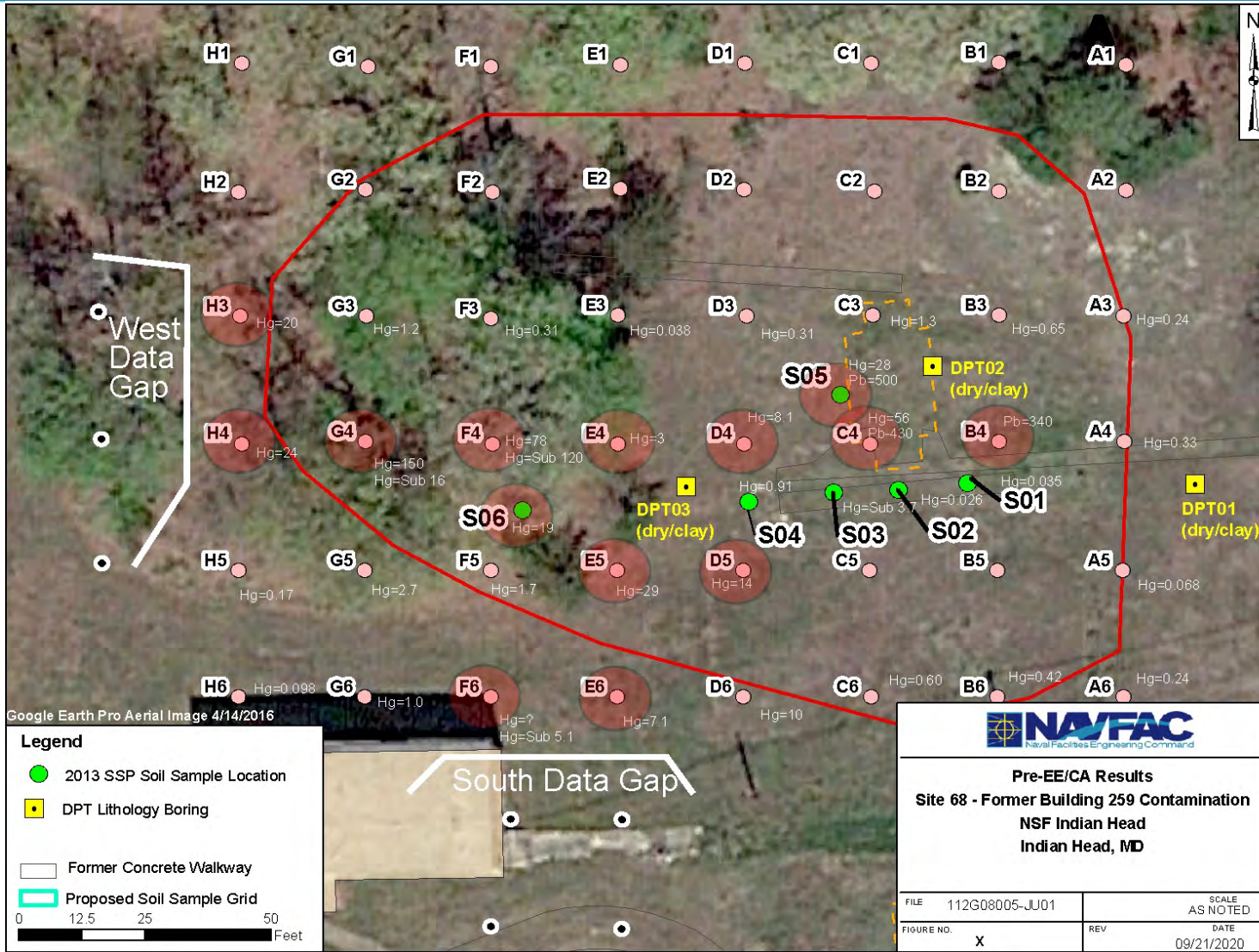
- No surface water, sediment, or groundwater media observed or encountered again (like during 2013 SSP Investigation).
- DPT lithology borings
  - Indicate tight clay again.
  - No water table encountered.
  - Refusal at 15 feet at DPT01, DPT02, and DPT03.
- Surface and subsurface soil results for mercury and lead.
  - Lead exceedance near same 2013 location. Awaiting other data.
  - Mercury contamination unbound at southwest and west. Awaiting one value.



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# Pre-EE/CA Investigation



Cleanup Goals	
Surface Soil (mg/kg)	
Lead	200 (HH)
Mercury	3 (Eco)
Subsurface Soil (mg/kg)	
Lead	200 (HH)
Mercury	11 (HH)

- **Await remaining lead data and one mercury value.**
  - **Confirm lead bounded.**
  - **Confirm step-out locations for mercury (still analyze Hg & Pb).**
- **Remobilize for expanded step-out samples on south and west:**
  - **CWAP modification.**
  - **Subcontract modifications.**
  - **Utility Clearance.**
  - **Surface and subsurface soil samples for lead and mercury.**
    - Additional subsurface soil sampling at F4 and G4.
    - Additional subsurface soil sampling intervals at expanded locations to avoid another remobilization.

# EE/CA and Action Memo



- **Compiled EE/CA and Action Memo documents – awaiting input of target removal area to complete development and comparative analysis of alternatives.**
- **Removal Action Objectives**
  - Reduce ecological risk from exposure to mercury contamination in surface soil above the cleanup level.
  - Prevent residents, trespassers, and vulnerable site workers from exposure to lead and mercury in surface and subsurface soil at concentrations above the cleanup levels.
- **Removal Action Alternatives**
  - LUCs (*removed – can use for HH, but not for Eco*)
  - Excavation
  - Soil Cover (*new from LANT comment*)
- **Need to**
  - Complete add'l step-out samples fieldwork
  - Finalize Cleanup Levels
  - Finalize Target Removal Area / Volume

# Site 68 Upcoming Milestones



- **Dec 2020 – Fieldwork mobilization**
- **Jan 2021 – Draft EE/CA and Action Memo**
- **April 2021 – Final EE/CA**
- **June 2021 – Final Action Memo (after EE/CA public review period)**
- **July 2021 – Signed Action Memo**

# Contacts and Questions



## Points of Contact:

- **NAVFAC Washington:** Joseph Rail
- **NAVFAC Washington (Base RPM):** Andrew Louder

## Questions ?

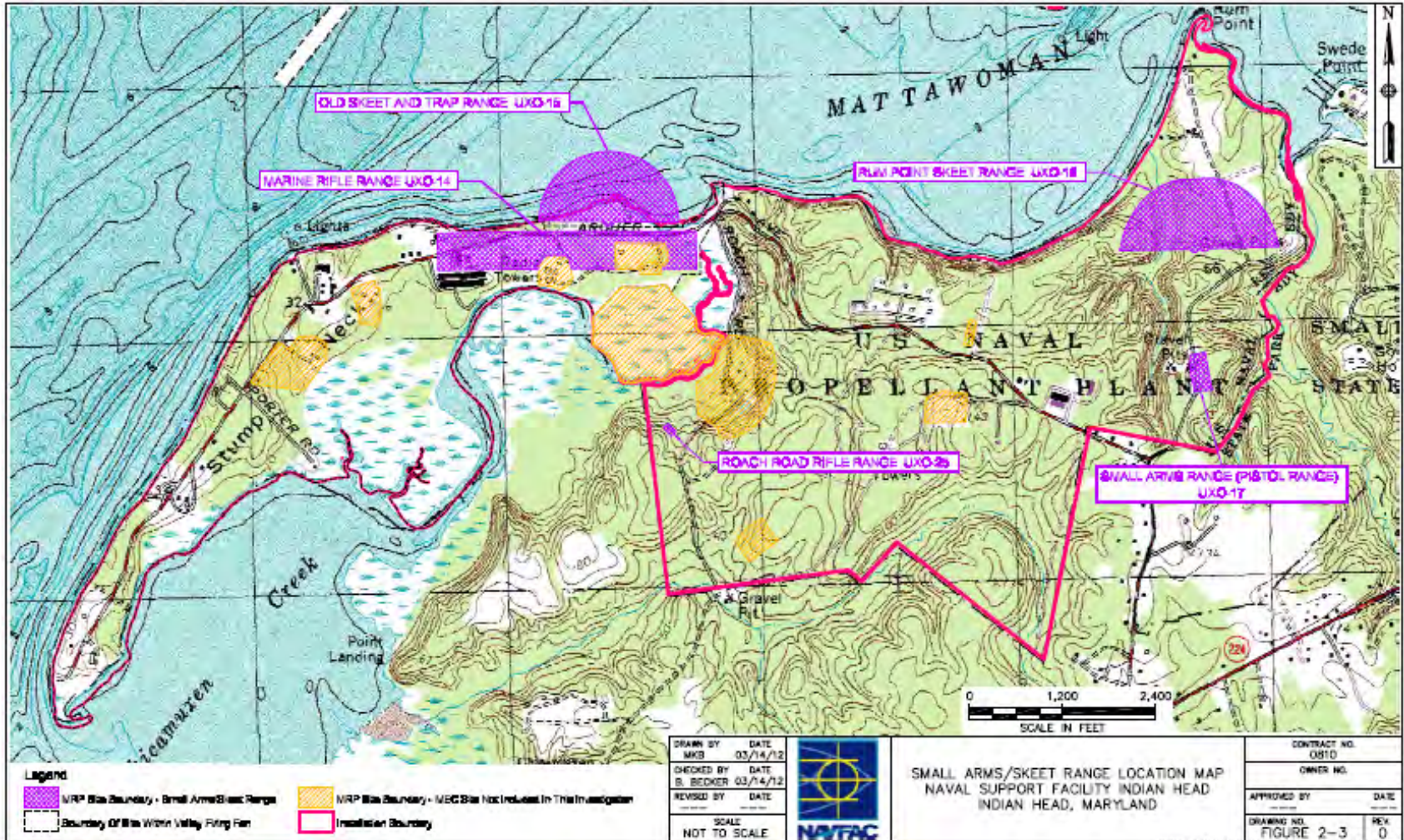


# **STUMP NECK SMALL ARMS/SKEET RANGE REMOVAL ACTION UPDATE**

**Presented By**  
**Joseph Rail**  
Naval Facilities Engineering Command (NAVFAC)  
Washington

**10/15/20**

# Small Arms/Skeet Range Locations



# Project Background



## **UXO 14 & 15:**

- **Work resumed in May 2020 following NOSSA approval of an Explosive Safety Submission (ESS.)**
- **Remaining work included munitions surface clearance, soil excavation (for lead and PAH contamination) & offsite disposal, tree planting, and site restoration.**
- **Contractor demobilized from site in September 2020 and plans to return in early 2021 to complete grading and erosion repairs.**

**UXO 14- Marine Rifle Range- 30.4 acres, used from 1911 to 1918 for rifle training, includes multiple firing lines, two target berms, and hillside impact area.**

**UXO 15- Old Skeet and Trap Range- 29.3 acres, used from 1967 to 1991 for small arms recreational activity, includes two firing points and associated impact area.**



# UXO 14 Excavation & Lead Stabilization



U.S. Navy



U.S. Navy



U.S. Navy

# UXO 14 Tree Planting



U.S. Navy

# UXO 14 Current Conditions



U.S. Navy

# UXO 15 Excavation



U.S. Navy



U.S. Navy



U.S. Navy

# UXO 15 Backfilling



U.S. Navy

U.S. Navy



U.S. Navy

# UXO 15 Current Conditions



U.S. Navy

# Contacts and Questions



## Points of Contact:

- **NAVFAC Washington:** Joseph Rail
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**Questions ?**