

Former NAS Brunswick



Restoration Advisory Board Meeting August 6, 2020





Meeting Agenda



Welcome

- Introductions
 - New Business
 - Old Business
- Virtual Meeting Protocols
- Status of FOST 2020-1 and 2020-2
- Fifth Five-Year Review
- Picnic Pond Update



Meeting Agenda (cont'd)



- Operations and Maintenance Activities
 - Long-Term Monitoring (LTM) Sites
 - Quarry Groundwater Sampling
 - Storm Water Sampling
- GWETS Carbon Replacement
- Site 7 Current and Projected Activities
- Upcoming Work
- Questions/Wrap-Up



Introductions



> RAB Co-Chairs:

- Ms. Suzanne L. Johnson, Esq.
- Mr. David Barney, BRAC Environmental Coordinator, Navy BRAC Program Management Office

> RAB Members:

- Mr. Todd Bober, P.E., Remedial Project Manager, Navy
- Mr. Michael Daly, Remedial Project Manager, United States Environmental Protection Agency (EPA)
- Mr. Iver McLeod, Remedial Project Manager, Maine Department of Environmental Protection (MEDEP)



Introductions



> RAB Members (continued):

- Mr. Steve Levesque, Midcoast Regional Redevelopment Authority (MRRA)
- Mr. Paul Ciesielski, Town of Harpswell, Maine
- Mr. Scott Libby, Town of Topsham, Maine
- Ms. Carol A. White, C.A. White & Associates, Brunswick Area Citizens for a Safe Environment (BACSE)
- Mr. David Page, PhD, Town of Brunswick, Maine



Virtual Meeting Protocols



- > Attendee cameras are not being used; no attendees will be viewed by others.
- Attendee microphones will remain muted except when recognized for questions.
- Webinar sign-in names will be used for the record.
- ➤ Meeting minutes will be prepared by Stenographer consistent with previous meetings
- Please hold questions or comments or enter them in Q&A box as they arise; they will be addressed after each presentations.



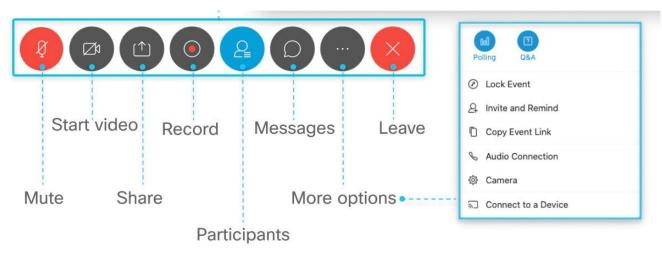
Q&A Options



1) Raise your hand to be recognized and have your microphone unmuted. Click "Participants" button to view panel and the hand icon.

Raise Hand 🐞 in the Participants panel to signal a question

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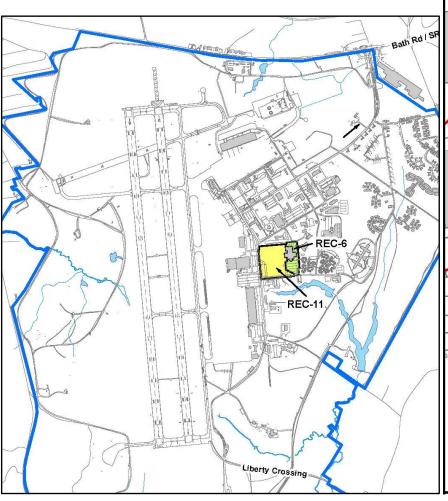
Status of FOST 2020-1 and -2

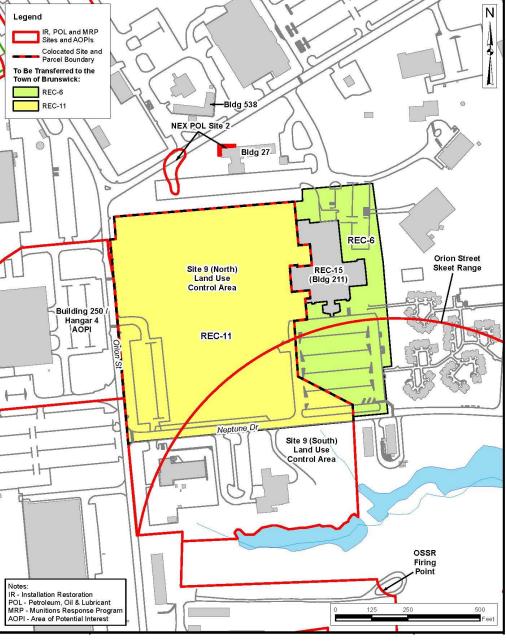


FOST 2020-1 Transfer Parcels

- Parcel REC-6; 3.8 Acres North, East and South of Building 211
- Parcel REC-11; 11.7 Acres of Site 9 Area North of Neptune Drive
- Final FOST signed in May 2020
- Parcels assigned to National Park Service in June 2020 for conveyance to Town of Brunswick for future recreational uses

FOST 2020-1 Transfer Parcels





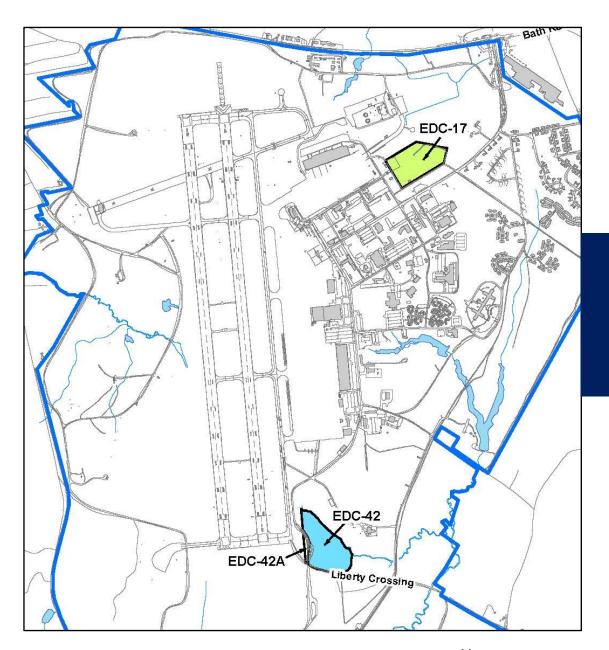


Status of FOST 2020-1 and -2



FOST 2020-2 Transfer Parcels

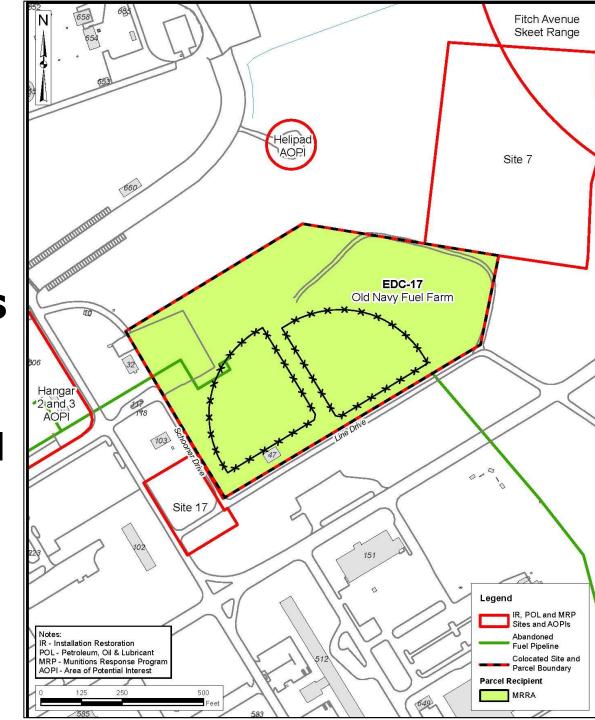
- Parcel EDC-17; 12.6 Acres of the Former Old Navy Fuel Farm
- Parcel EDC-42; 16.0 Acres of Site 2 including Dyers Gate Area
- Navy began FOST preparation June 2020; projected to be signed by December 2020
- Parcels to be transferred to MRRA
- Planned future uses unknown, but reuse plan lists professional office/community mixed use for EDC-17 and business and technology industries and natural areas for EDC-42



FOST 2020-2 Transfer Parcels

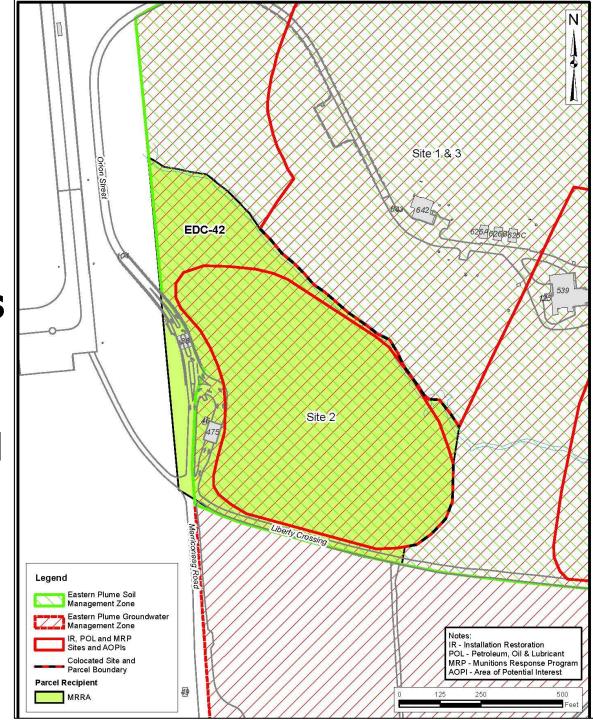
FOST 2020-2 Transfer Parcels

Sites within or Adjacent to Parcel EDC-17



FOST 2020-2 Transfer Parcels

Sites within or Adjacent to Parcel EDC-42





Five-Year Review



- Noted during November 2019 RAB meeting
- Newspaper notice announcing initiation of the review ran in Brunswick Times-Record on June 2, 2020
- Objective Ensure that implemented remedies remain protective of human health and the environment
- Reviews do not include sites that do not yet have signed RODs or contaminants not identified as chemicals of concern in RODs



Five-Year Review



- Navy solicited comments and concerns about the remedies though questionnaires sent to site stakeholders
- Final document must be signed by September 2020
- Public notice of completion of five-year review to be published in Brunswick Times-Record
- Findings will be presented at the next RAB meeting



Picnic Pond PRAP and ROD



- Public Presentation and Informational Meeting September 11, 2019, at Bowdoin College
- Public Comment Period 10/9 to 11/8, 2019
- Proposed Remedial Action Plan (PRAP) Informational Open House and Public Hearing - October 23, 2019, at Curtis Memorial Library
- Appendix G of the Record of Decision (ROD) includes Responses to Comments (RTC)
- 35 comments were submitted in writing
- Navy has prepared responses for incorporation into the ROD
- Draft ROD sent to EPA Region1 and Maine DEP on May 13, 2020
- Final ROD anticipated in Mid September 2020



Picnic Pond Sediment



Summary of Human Health and Ecological Risks		
Pond/Area	Human Health Risk	Ecological Risk
Pond A	None identified	Prevent or reduce risk to ecological receptors to concentrations of DDx and PAHs in sediment exceeding PRGs
Pond B	Prevent exposure to recreational users to concentrations of lead in sediment exceeding PRG	Prevent or reduce risk to ecological receptors to concentrations of PAHs in sediment exceeding PRG
Pond C Area	None identified	None identified
Picnic Pond	Prevent or reduce risk by recreational users to concentrations of TPH in sediment exceeding PRG	Prevent or reduce risk to ecological receptors to concentrations of PAHs in sediment exceeding PRG



Picnic Pond Summary

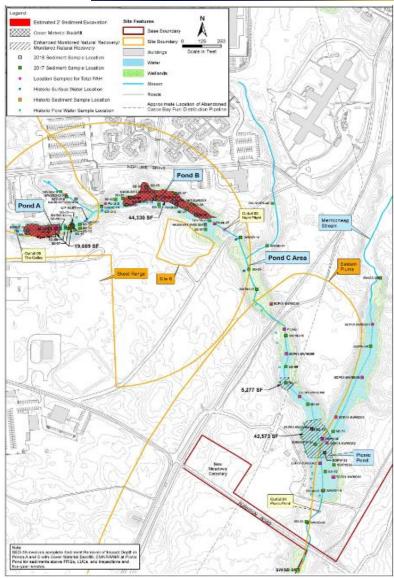


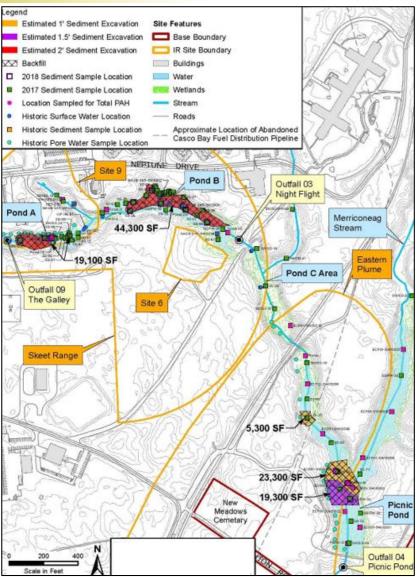
- Draft Navy ROD recommends removal of sediments that result in elevated risk above PRGs in Pond A, Pond B, and Picnic Pond
- ROD expected to be finalized in September 2020
- Conduct pre-design investigation(s), as necessary
- Develop scope and contract sediment excavation
- Perform Remedial Action, summer/fall 2021



PRAP to ROD









Long-Term Monitoring



Fall 2019 LTM Sampling Event

- Sites 1/3 Landfill, Site 2, Site 9, Site 17, Eastern Plume
 - Sampling performed in October 2019
 - Data review and evaluation completed, LTM reports in Navy review



O&M Activities



Spring 2020 LTM Sampling Event

- ➤ Site 7 12 wells, cadmium and manganese analysis
- ➤ Eastern Plume 10 wells plus GWETS influent/effluent, CVOCs and 1,4 dioxane analyses
 - Sampling performed in early June
 - Lab analysis underway, some results in



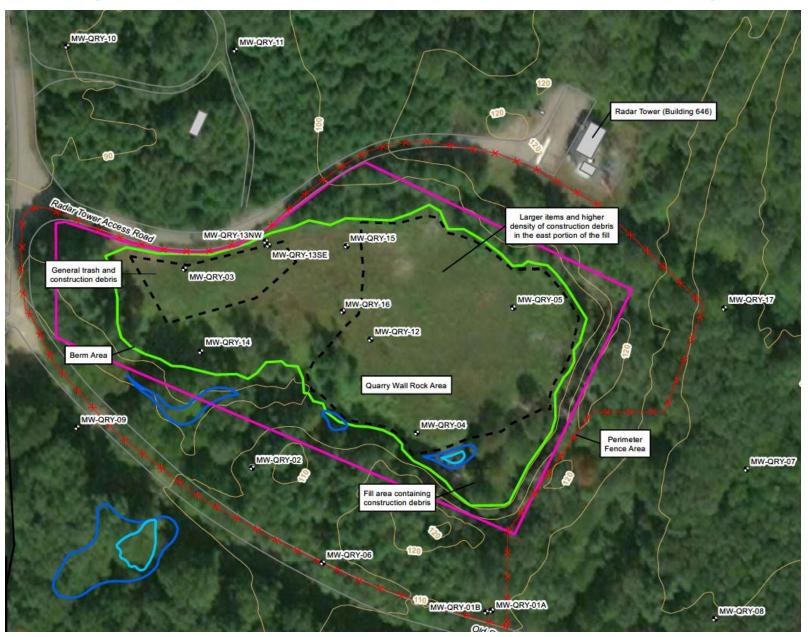
O&M Activities (cont'd)



Other Spring 2020 Sampling

- Quarry 19 wells, PAH, explosives, metals analyses
- Purpose: Take a snapshot of existing wells for groundwater quality and flow direction and use this information to develop Long Term Monitoring Program for Quarry.

Quarry Groundwater Sampling



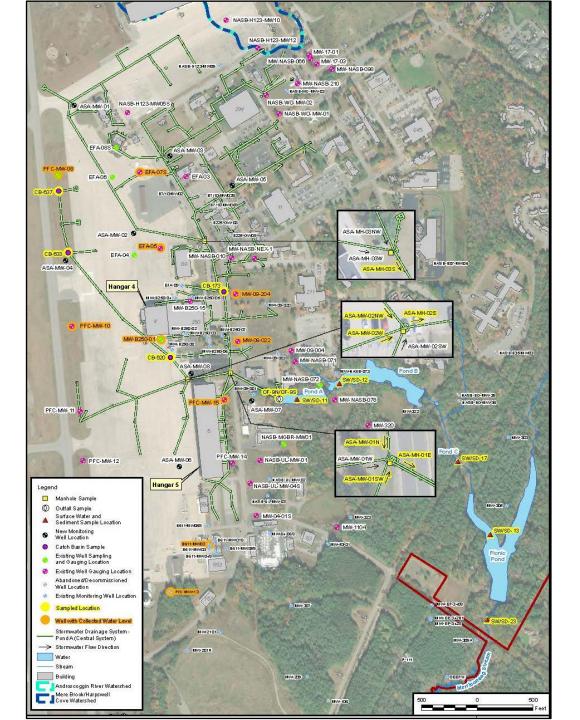


O&M Activities (cont'd)

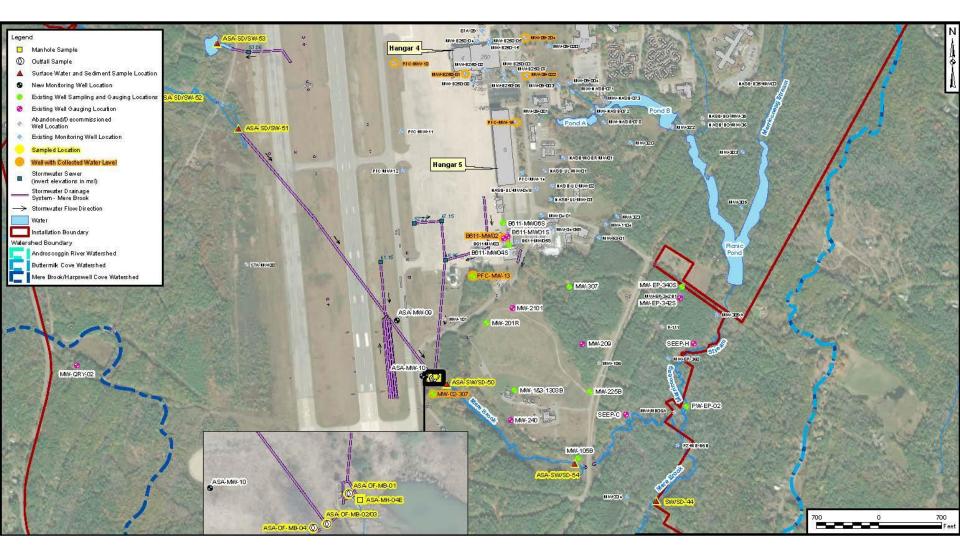


- Airfield Area Storm Drain System Catch basins, outfalls, surface water, sediment (48 samples), PFAS analysis
 - <u>Purpose</u>: Collect snapshot of PFAS levels in storm water system to assist in updates to site conceptual model
 - Sampling performed in early June
 - Lab analysis underway

Stormwater Sample Locations Pond A System and Picnic Pond



Stormwater Sample Locations Mere Brook System





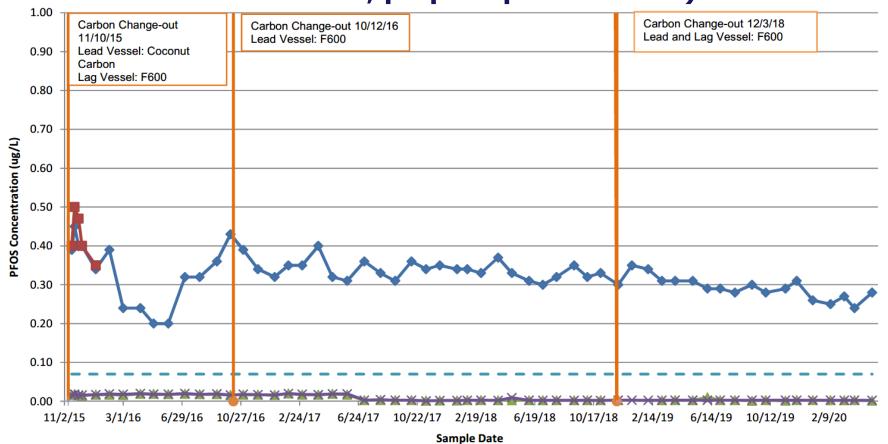


- Monthly sampling at the GWETS is being performed for PFAS compounds
- PFAS treatment consists of passing water through two granular activated carbon (GAC) tanks, hooked up in series, for PFAS removal via adsorption
- Monthly samples are collected from the following locations:
 - Treatment plant influent
 - Between lead (1st) and lag (2nd) GAC carbon tanks
 - After lag carbon tank
- ➤ Recent sampling results show lead GAC unit is experiencing breakthrough of PFAS compounds
- Lag GAC tank is still effectively treating PFAS compounds prior to discharge to the infiltration gallery





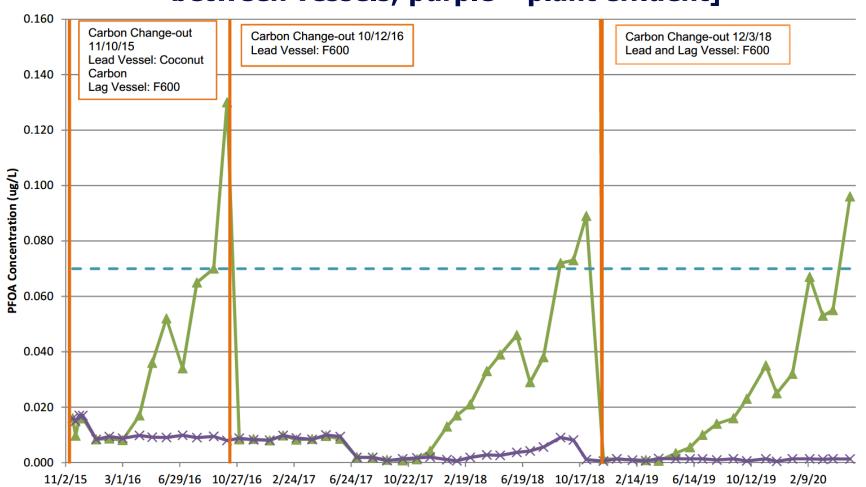
PFOS Results (blue – influent; green – between carbon vessels; purple – plant effluent)







PFOA Results [blue – influent (off-scale, ~ 1.5 ug/L); green – between vessels; purple – plant effluent]







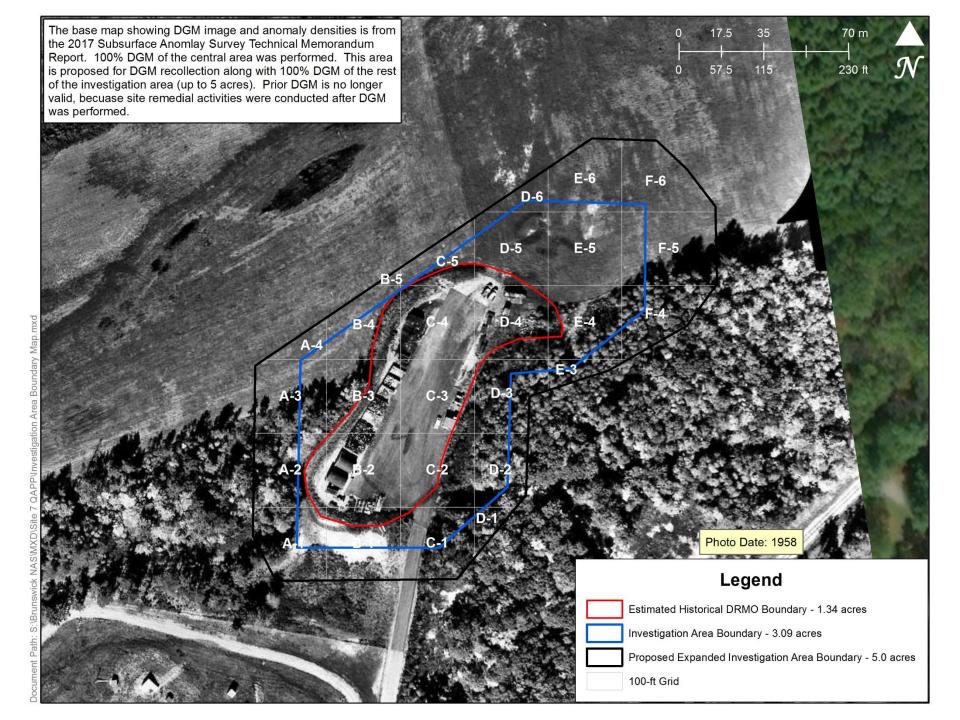
Path forward

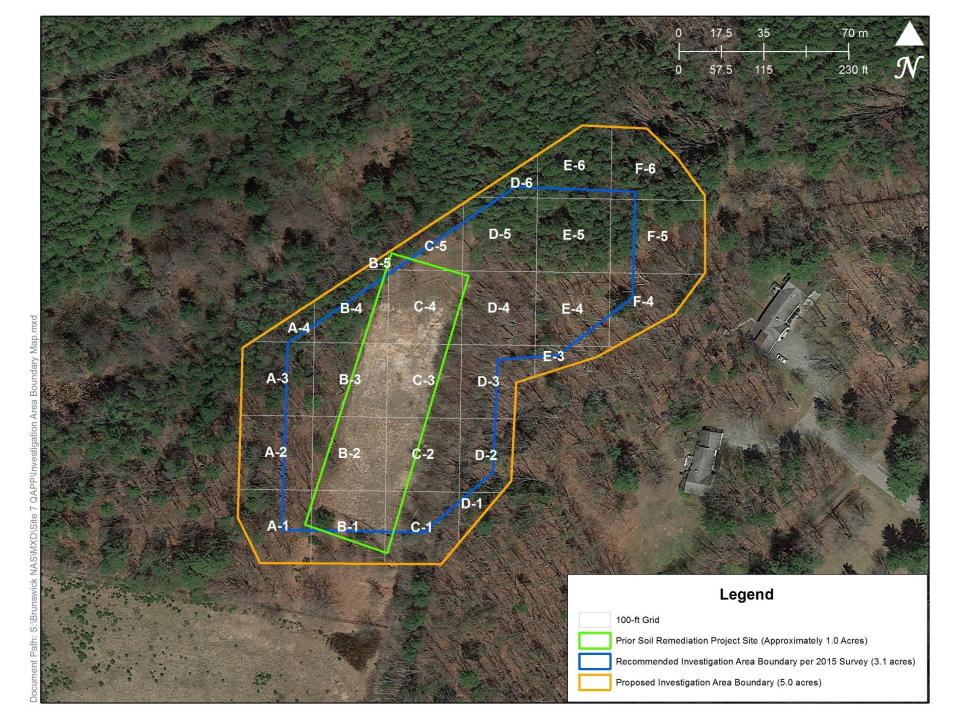
- > The Navy is tasking the O&M Contractor to perform a carbon changeout on the lead GAC vessel
 - Carbon replacement tentatively planned for September 2020
- Monthly monitoring will continue

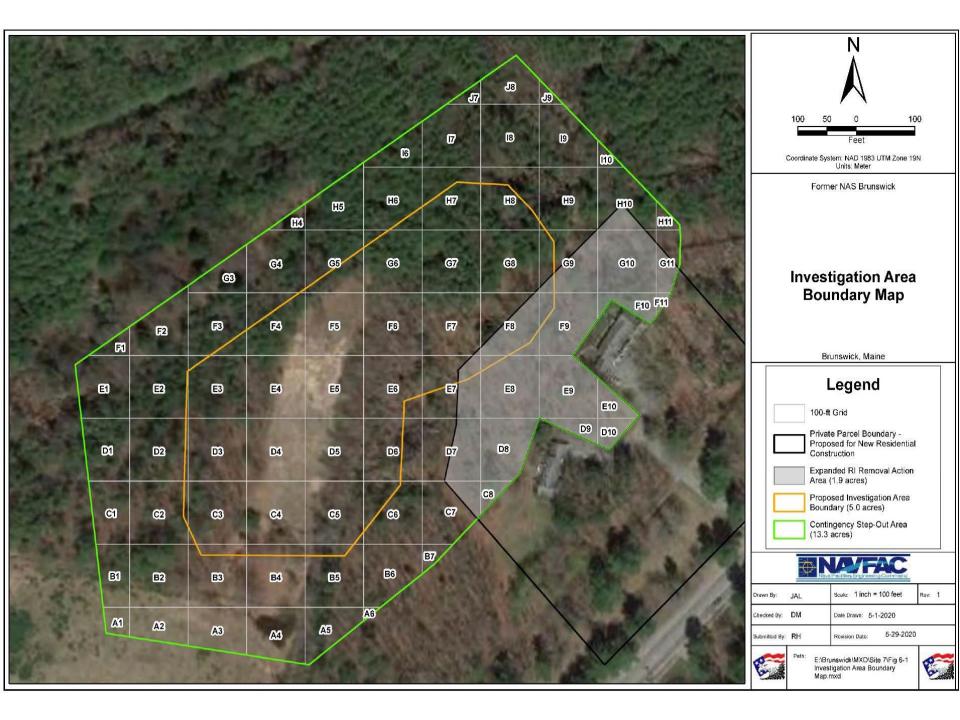




- During 2017 soil excavation activities to address cadmium-contaminated soil, radiological devices and inert munitions items were discovered at the former DRMO
- Metal debris signatures (geophysical anomalies) have been identified within and outside of the site boundary and are assumed to be buried scrap metal/metallic debris associated with former DRMO activities
- Navy decided to investigate the anomalies at the site and surrounding areas to determine whether these areas contained munitions items
- > The probability of encountering live munition items related to former DRMO activities is low











- > 5-acre RI to conduct Digital Geophysical Mapping (DGM) over 100% of the investigation area
 - Statistics-based approach will be used to select locations to intrusively investigate a number of individual DGM targets
 - Exploratory test digs will be performed at the selected locations
 - Radiological screening will be conducted during munitions activities
- > The types of MEC and/or MPPEH known or suspected to be present include the following:
 - Mk 23 Practice Bomb Body(approximately 8 inches long) inert/empty (30 recovered)
 - AN-M57 Flare (2 recovered)
 - MK 13 Flare (1 recovered)





- ➤ Nine radiological devices and two areas of soil containing elevated radiological activity were identified and removed from two soil remediation areas at Site 7 (from 2017 Removal Action)
- Principal study questions
 - What are the vertical and horizontal extents of the MEC hazard?
 - What is the nature and extent of items of potential radiological concern?
 - What types of MEC are present?
 - What is the associated explosive hazard (if any) for the various items of concern?





- ➤ The work schedule was accelerated and work is being conducted in Captain's Way area first where development is planned in the near future
- Results of additional munitions investigation activities in Site 07 will be used to determine if new approach for the site is warranted

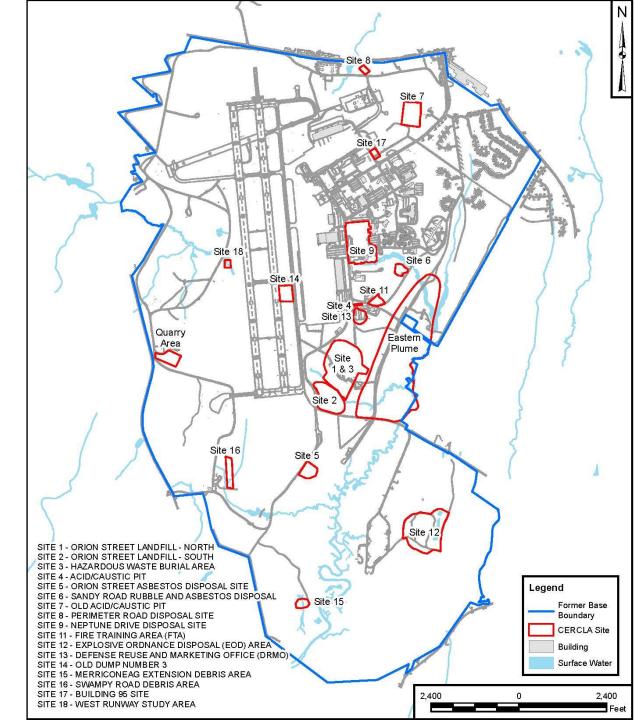


Upcoming Work



- > Fall 2020 LTM sampling
- > Continued Site 07 Evaluation
- Kickoff of the base wide PFAS RI (scoping and planning documents)
- Continued GWETS operation, replace GWETS Carbon, and monthly PFAS sampling
- > Planning for extraction well(s) assessment
- Initiation of private PFAS well sampling
- Development of Draft Quarry GW Monitoring Work plan

Base Map with CERCLA Sites





Questions?



Questions?



Q&A Options

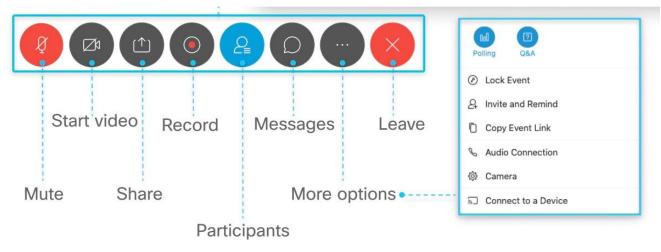


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box.



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Thank You!



Thank you for attending today's meeting!

Next RAB Meeting: Tentatively planned for Wednesday, November 18, 2:00 pm