



Naval Air Station Whidbey Island Restoration Advisory Board Meeting February 2, 2023



NAS Whidbey Island Restoration Advisory Board Meeting



Welcome to the meeting.
Thank you for joining us.

WebEx attendees:

Please help us stay in contact with you, type in the chat:

- First and Last Name
- Email Address
- Phone Number

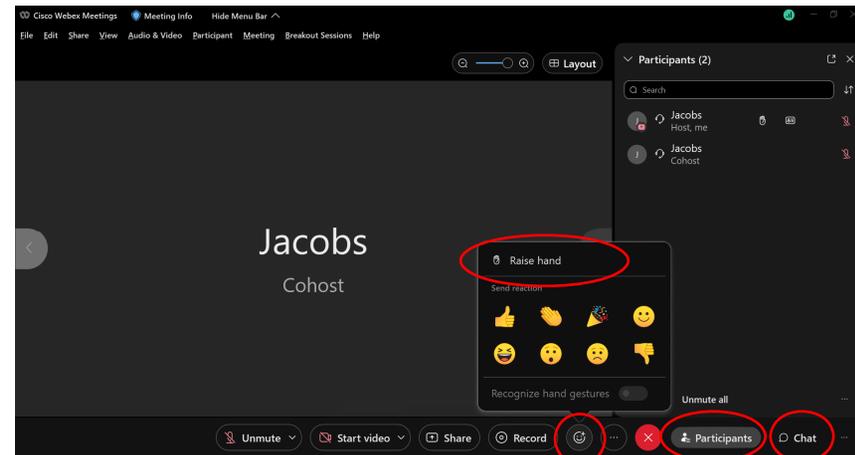
Having trouble?

Contact-

Lisa David

714-473-4125

WebEx Overview



Everyone is muted on entry

To ask a question – click the smiley face, then select “Raise Hand” to request the moderator unmute you

Participants Tab

Click to see list of participants

Chat Tab

Click to type a question in the chat box

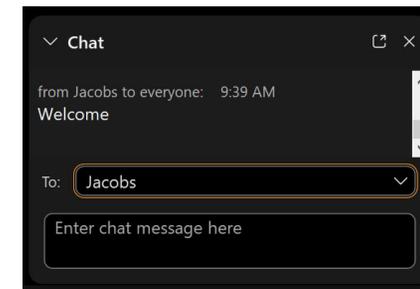
Call in info:

Phone

844-992-4726

Access Code:

2631 834 1243





Agenda



- **Welcome and Introductions**
- **Meeting Organization & Useful Guidelines**
- **RAB Purpose & Administrative Items**
- **Environmental Restoration Program Update**
 - Area 6 Landfill
 - Military Munitions Sites
 - State Petroleum Sites
 - PFAS Drinking Water and Investigation
- **Community Comments/Q&A**
- **Action Items/Next RAB**



Welcome and Introductions



- **Commander Oswalt**
 - **RAB Community Co-Chair:** Doug Kelly
 - **Navy Co-Chairs:** Kendra Clubb & Laura Muhs
 - **RAB Members:**
 - Doug Kelly (Community Co-Chair)*
 - Gary Winlund (Deputy Community Co-Chair)*
 - Al Williams*
 - Celine Servatius*
 - Maddie Rose*
 - Joe Grogan*
 - Martha Yount*
 - Philip Derise*
- *voting member*



Welcome and Introductions



- **RAB Members (continued):**
 - Chan Pongkhamsing (EPA)
 - Ron Johnson (Ecology)
 - Binod Chaudhary (Ecology)
- **Presenters:**
 - Laura Muhs, Laura Himes, & Kendra Clubb
- **Other subject matter experts:**
 - Christie Kroskie & Scott Elkind
- **Navy Public Affairs Officers:**
 - Michael Welding & Sarah Lincoln
- **Meeting Host/IT support/Stenographer/Facilitator:**
 - Jennifer Madsen, Lisa David, Connie Recob, JoAnn Grady



Meeting Organization and Useful Guidelines



- **WebEx and Phone-In Attendees:**

- All lines are muted to reduce feedback; videos are off to preserve bandwidth.
- Questions and comments are encouraged. You will be called on in the order received.
- Write your comment in the chat box and it will be addressed.
- Callers dial *3 to raise your hand; *6 to unmute yourself after being called.



Meeting Organization and Useful Guidelines



- **Questions and Comments:**

- RAB members questions/comments are welcome after each presentation. Please use the 'raise hand' option if you would like to comment and we will open your line and call on you sequentially.
- Community comments are welcome after the conclusion of all the presentations. Again, we request you use the 'raise hand' option and you will be called on sequentially.
- Questions/comments are to focused only on presentation topics, limited to two minutes, and respectful.
- If you would rather write your comment, please locate the 'chat box' and feel free to write your comment and it will be addressed.



Overview : What is the RAB?



“A RAB is a stakeholder group that meets on a regular basis to discuss **environmental restoration** at a specific property that is either currently or was formerly owned by the DoD, but where the DoD oversees the environmental restoration process....”

RAB members are a conduit of information between the community and the Navy.

What is **Environmental Restoration?**

- Includes all environmental investigations and/or cleanup that fall under the Comprehensive Environmental Response, Compensation, and Liability Act regulatory framework.
- Also includes the Military Munitions Response Program and State-regulated Petroleum cleanups.
- Does not include installation compliance issues – pipelines, underground storage tanks, storm water, etc.

More information on RABs, including the RAB Rule Handbook, can be found at: <http://www.denix.osd.mil/rab/home/>



Administrative Items



- **Approve November 2021 RAB Meeting Minutes**
- **Review November 2021 RAB Action Items**
 - **How often is the fence at Lake Hancock inspected?**
 - Annually
 - **Navy to contact Garrett Newkirk to further discuss MS-4 permit concerns**
 - Complete
 - **Provide information on alternative AFFF usage by the DoD**
 - Revised military specification for a fluorine free foam was published on 13Jan2023 (https://quicksearch.dla.mil/qsDocDetails.aspx?ident_number=285047)
 - **Notify RAB members when documents that are of interest to them are made available**
 - Provided project matrix in Spring 2022, but will provide more regular updates going forward.
 - **Updating PFAS information on website (<https://www.navfac.navy.mil/NASWIPFAS>)**
 - Complete; last update in December 2022



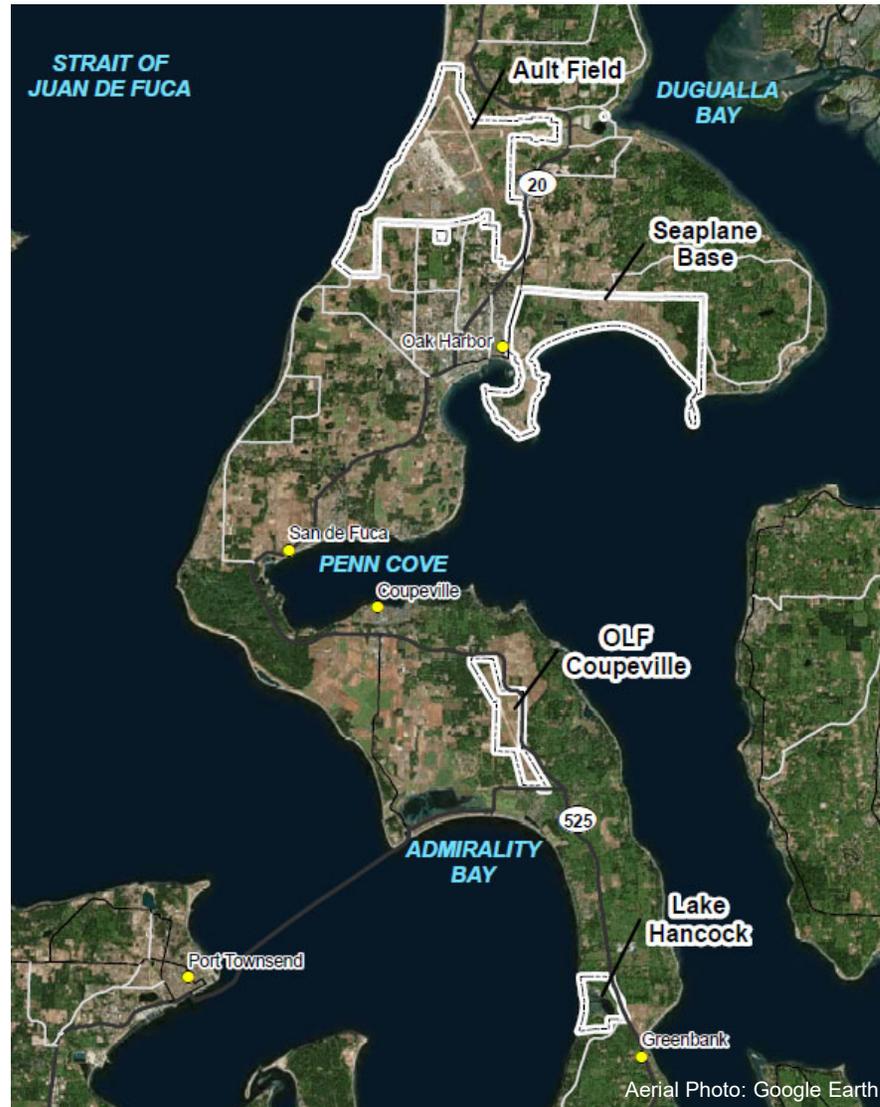
NAS Whidbey Island Environmental Restoration



Laura Himes, P.E.

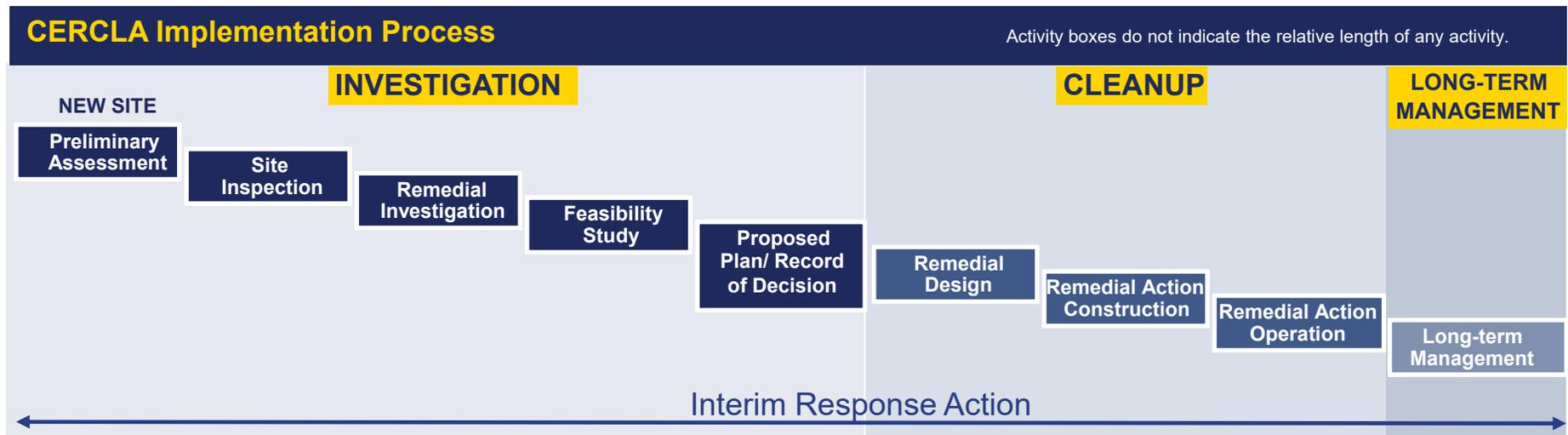
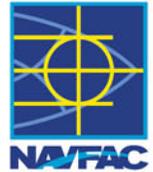


NAS Whidbey Island Environmental Restoration Sites





CERCLA PROCESS



- Conducted under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – AKA “Federal Cleanup Law”
- Interim response actions, such as drinking water response actions, can occur any time in the CERCLA process
- Formal public comment period for Proposed Plans



NAS Whidbey Island Environmental Restoration Sites



RAB member tour – August 31, 2022:

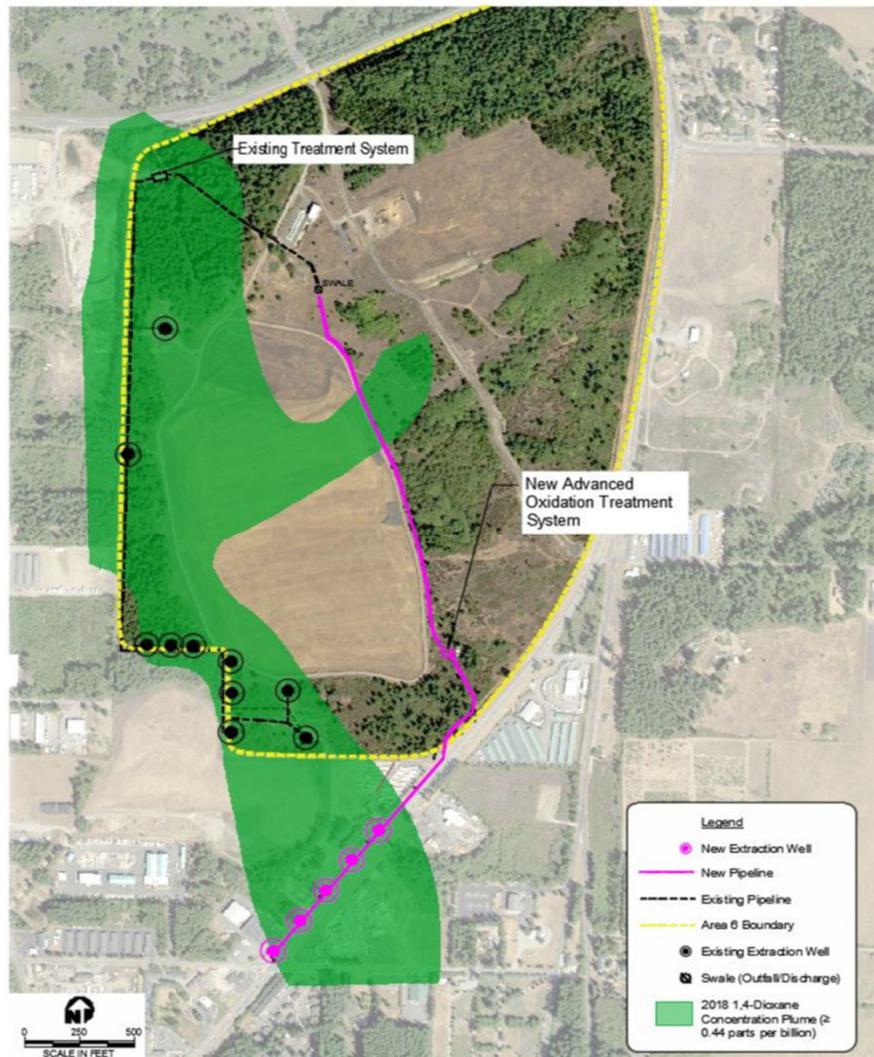
- **Sites including:**
 - Site 1 Beach Landfill (pictured)
 - PFAS sites at Ault Field, OLF Coupeville & Seaplane Base
 - Area 6 Landfill including South AOP system
 - Petroleum sites at Ault Field and Seaplane Base
 - Coupeville Drinking Water Plant including PFAS treatment





Area 6 - ROD Amendment Summary

September 2019



Area 6 –1993 Record of Decision (ROD)

- Previous landfill operations: Former Industrial Waste Disposal Area (1969-early1980s); Area 6 Landfill (1969-1992)
- ROD remedy includes: Landfill cap; groundwater treatment plant for chlorinated solvents; groundwater monitoring; and land use controls

1,4-dioxane

- Emerging contaminant 1,4-dioxane was discovered in 2003, current groundwater treatment plant does not treat it

ROD amendment includes the following:

- Adds 1,4-dioxane as a chemical of concern (COC)
- Remove COCs (1,1-DCA and cis-1,2-DCE) that have reached cleanup levels
- Modifies cleanup levels for 1,1-DCE and vinyl chloride
- Groundwater treatment using Advanced Oxidation Processes (AOP) including new additional treatment plant to south, upgrading current treatment plant to AOP from air stripper and expanding the well network.
- Integrated remedy that will comprise of an active treatment component, monitored natural attenuation (MNA) (passive treatment), and Institutional Controls (ICs)
- Prior to the transition from active to passive remediation, the Navy will validate the efficacy of MNA.



Area 6 Landfill Update

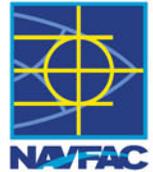


Work conducted since last RAB...

- Southern AOP Groundwater Treatment System:
 - AOP full time operation since October 2021
 - Meeting remediation goals for 1,4-dioxane and vinyl chloride
 - Finalized Construction Completion Report
- Western AOP Groundwater Treatment Plant:
 - Finalized Design in January 2022
 - Contract for construction awarded in July 2022
- Downgradient Delineation:
 - Secured real estate access agreements with City of Oak Harbor
 - Finalized work plans
 - Drilled five new monitoring wells and sampled groundwater (Dec 2022-Jan 2023)
- Routine operation activities:
 - Performed land use control inspections
 - Conducted on-going west groundwater treatment system and landfill maintenance and operation
 - Conducted groundwater monitoring



Area 6 Landfill Update



Work planned before next RAB...

- Western AOP system:
 - Finalize Remedial Action Management Plan
 - Construction beginning in May/June 2023
- Downgradient delineation investigation:
 - Survey new groundwater wells
 - Evaluate groundwater sampling results to determine if additional wells are necessary
- Sixth-CERCLA Five Year Review:
 - Contract and begin preparing
 - Due in August 2024
- Routine operation activities:
 - Continue on-going west groundwater treatment systems (west and south AOP) and landfill maintenance and operation
 - Conduct groundwater monitoring



Military Munitions Response Program Update



Presenter:

Laura Himes, P.E.

Primary Subject Matter Expert:

Scott Elkind, P.E.

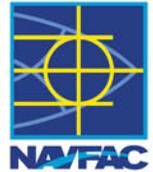


Military Munitions Response Program Update





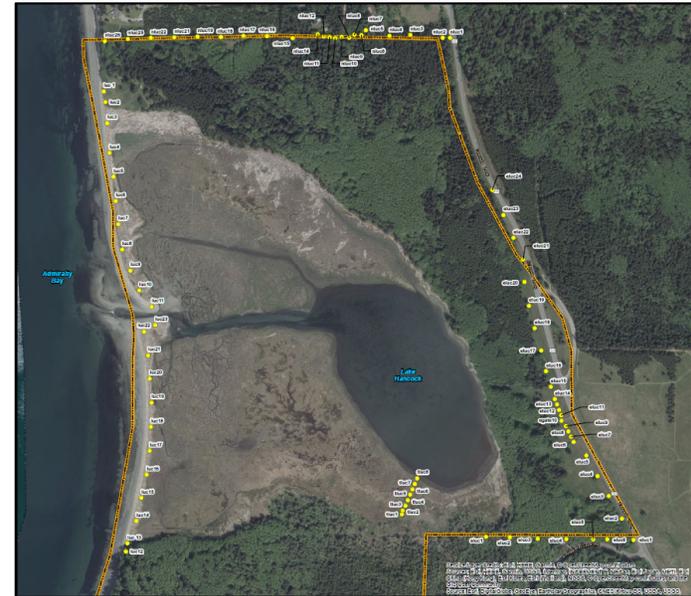
Lake Hancock Target Range



Work conducted since last RAB...

2022 Surface Clearance

- Surface Clearance covers approx. 28 acres
- 111 munition anomalies identified and removed
- Repaired approx. 20 feet of fencing
- Repaired 1 damaged sign
- Example item: Expended 2.75" practice warhead





Lake Hancock Target Range



Work planned before next RAB...

- Reporting:
 - Finalize 2022 Surface Clearance Completion Report

Future work planned...

- Land use controls, including:
 - Annual inspection and 2023 surface clearance within entire removal action area
 - Maintain signage and fencing
- Five-Year Review (2023)





State Petroleum Program Update



Presenter:

Laura Himes, P.E.

Primary Subject Matter Expert:

Christie Kroskie, L.G.



State Petroleum Program Update

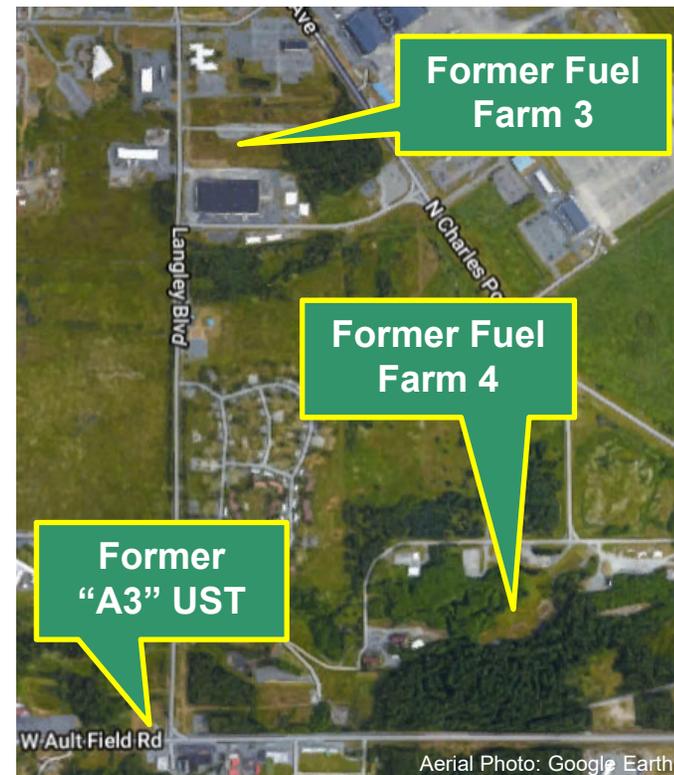
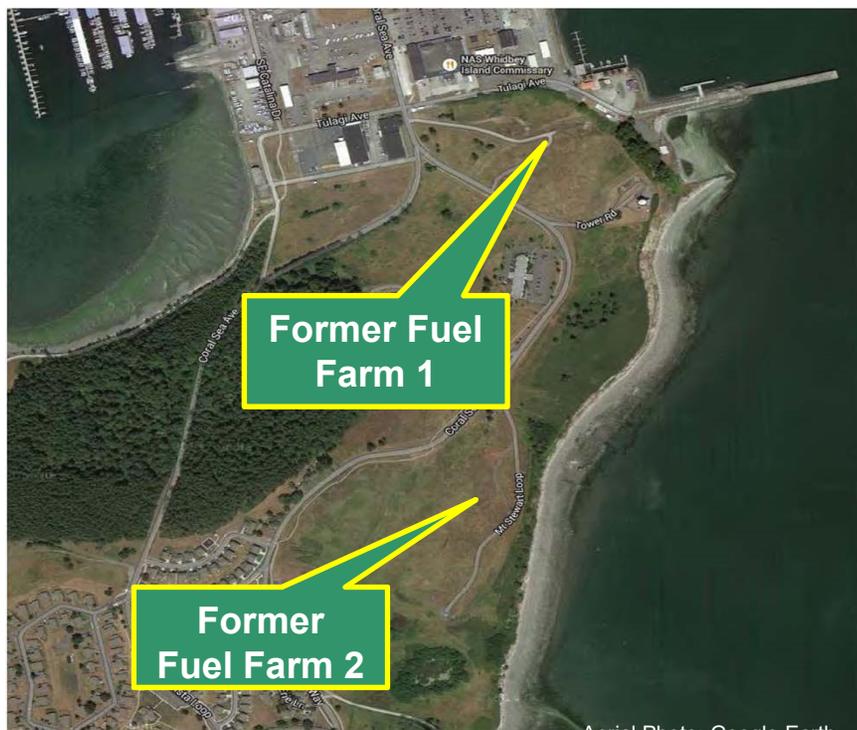


Work conducted since last RAB:

- Continued free-product recovery and groundwater monitoring/sampling
- Former “A3” UST reporting complete, waiting on WA Dept. of Ecology No Further Action Letter and Land Use Controls

Work planned before next RAB:

- Free-product recovery and groundwater monitoring/sampling at Fuel Farms
- Fourth Five-Year Review Report





5 Minute Break

Break



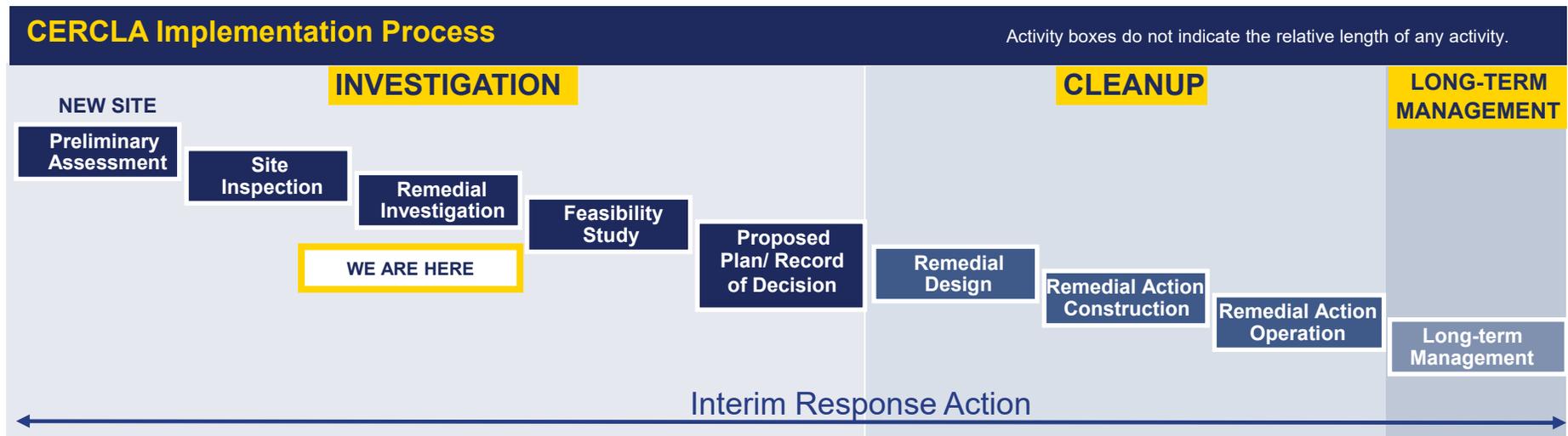
PFAS Drinking Water & Investigation Update



Kendra Clubb, P.E.



Where are we in PFAS investigations?



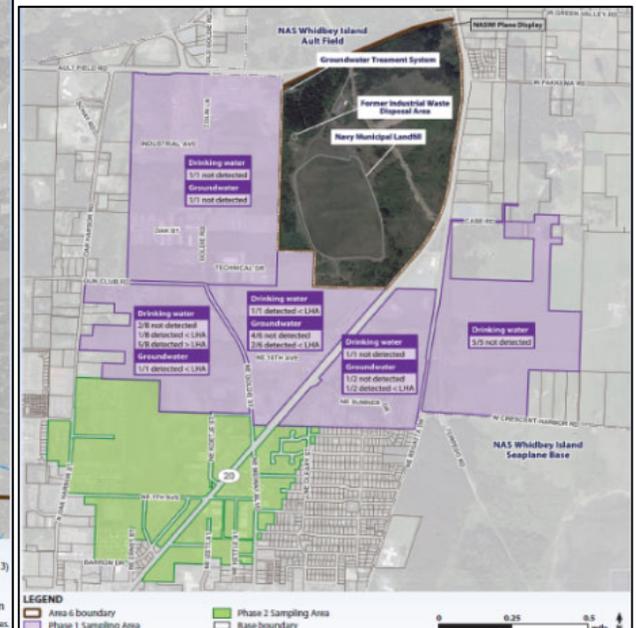
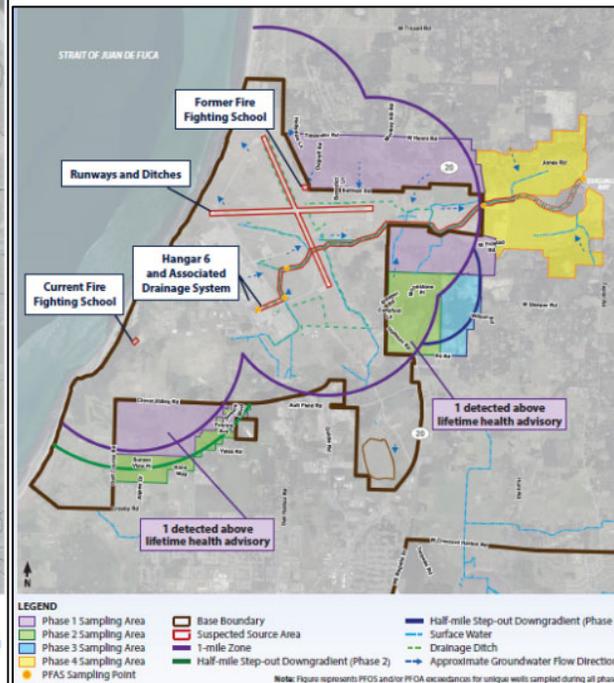
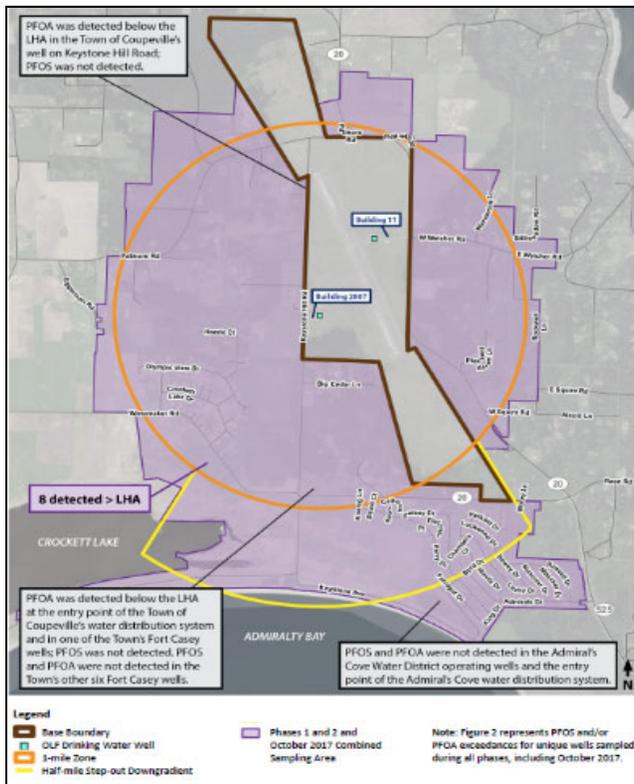
- Conducted under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – AKA “Federal Cleanup Law”
- Interim response actions, such as drinking water response actions, can occur any time in the CERCLA process
- Formal public comment period for the Proposed Plans



PFAS Drinking Water Update



- 287 off-base drinking water wells sampled
- 16 wells exceed 70 parts per trillion (ppt) PFOS and/or PFOA
 - 8 wells south of OLF Coupeville and 8 wells near Ault Field and Area 6 (associated with 36 homes)





PFAS Drinking Water Update



Work conducted since last RAB...

- Biannual drinking water well sampling (April-June 2022, Nov/Dec 2022)
- Continued to provide bottled water or point of use treatment for homes with exceedances of 70 ppt PFOS and/or PFOA
- Long-term solution in Coupeville:
 - Town operated the PFAS treatment system (water remains significantly below 70 ppt)
 - Town worked on easements for last segment of new waterline on private property
 - Navy awarded new construction contract for new waterlines
- Long-term solution in Oak Harbor (near Ault Field and Area 6):
 - November 2021 – Connected one home to new drinking water well and one home to nearby water system
 - Conducted quarterly sampling of new drinking water well
 - April 2022 – Obtained easement with City of Oak Harbor for new waterline
 - June 2022 – Connected 24 homes to the City of Oak Harbor waterline



PFAS Drinking Water Update

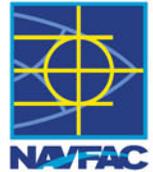


Work planned before next RAB...

- Biannual drinking water well sampling (Spring 2023)
- Long-term solution in Coupeville:
 - Town will continue to operate PFAS treatment system
 - Town will work to secure easements for new waterline
 - Navy will obtain necessary temporary access agreements, finalize work plans, and if all easements secured, start construction
- Long-term solution in Oak Harbor (near Ault Field and Area 6):
 - Provide final service line packages and stop all bottled water
 - Continue to conduct quarterly sampling of new drinking water well



PFAS Investigations Update



Work conducted since last RAB...

- Seaplane Base Site Inspection:
 - Revised report based on May 2022 EPA PFAS Regional Screening Levels
- Baseline Groundwater Model for Ault Field/Seaplane Base:
 - Finalized work plans
 - April-June 2022: Installed 5 new monitoring wells and stilling wells; collected groundwater depths from new and existing wells
 - Started developing model
- OLF Coupeville Remedial Investigation (RI):
 - Finalized work plans
 - Jan-April 2022: Installed 10 new monitoring wells; collected new and existing monitoring wells samples; collected surface water/sediment samples
 - Secured access agreements for off-base monitoring wells and surface water/sediment samples
 - Drafted work plan addendum for off-base wells



OLF Coupeville PFAS RI



Sampling tool used to obtain groundwater samples



Drilling new monitoring well and soil samples



Complete groundwater well installation (two wells at 'same location' and 'different depths')



PFAS Investigations Update



Work conducted since last RAB...

- Area 31, Former Runway Fire School RI:
 - Finalized work plans
 - March-June 2022, January 2023: Installed 9 new monitoring wells; collected samples from new and existing monitoring wells; collected surface water/sediment samples; and conducted aquifer testing
- Area 6 Landfill RI:
 - Site reconnaissance for new wells and other sample locations
 - Finalized work plans
 - Made progress on access agreements for off-base monitoring wells
- Current Fire Training Area RI:
 - Site reconnaissance for new wells and other sample locations
 - Drafted work plans
- NAS Whidbey Island “Specialty Areas”:
 - Drafted Preliminary Assessment for Boardman Range, Racon Hill, Lake Hancock, & Coos Head/Bay



PFAS Investigations Update



Work planned before next RAB...

- Seaplane Base Site Inspection:
 - Finalize report
- Baseline Groundwater Model for Ault Field/Seaplane Base:
 - Quarterly downloads of well transducer data
 - Draft model and associated report
- OLF Coupeville RI:
 - Finalize work plan addendum
 - Complete access agreements for off-base work
 - May 2023 – Start off-base field work
 - Continue working on draft report; planning for next phase of RI
- Area 31, Former Runway Fire School RI:
 - Continue working on draft report; planning for next phase of RI



PFAS Investigations Update



Work planned before next RAB...

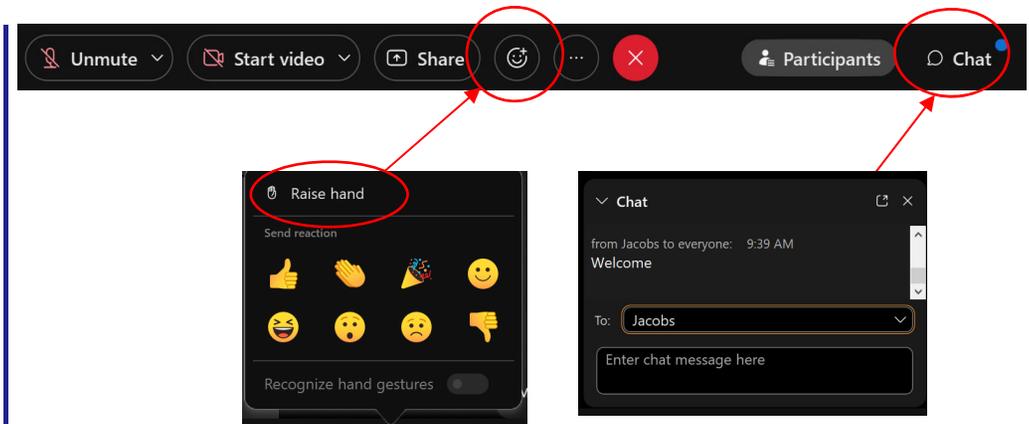
- Area 6 Landfill RI:
 - Feb-April 2023: Install new monitoring wells; collect samples from new and existing monitoring wells and surface water/sediment locations
 - Continue progress on access agreements for off-base monitoring wells
- Current Fire Training Area RI:
 - Finalize work plans
 - April 2023: Start installing new monitoring wells; collecting samples from new and existing monitoring wells and surface water/sediment locations
- NAS Whidbey Island “Specialty Areas”:
 - Finalize Preliminary Assessment for Boardman Range, Racon Hill, Lake Hancock, & Coos Head/Bay



Community Comments



- **We welcome comments from community members**
 - Raise hand, “Raise Hand” in WebEx, or Chat to the host to unmute your audio line
 - If joined by phone, dial *3 to raise hand and *6 to unmute
 - If prefer to write a comment, use ‘chat box’
- **Questions will be answered in the order received**
- **Please keep comments to 2 minutes**



WebEx Overview

- **Use the “Raise Hand”**
 - the moderator will “unmute” you to ask your question
- **Use the “Chat Box”**
 - type question at any time
 - the moderator will ask your question



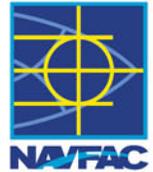
Action Items/Next RAB



- **Action Items**
- **Next RAB ~ Fall 2023**



THANK YOU



**Thank you for attending the
February 2023 NAS Whidbey Island RAB**

**For more information or additional
questions please contact:**

Naval Air Station Whidbey Island Public Affairs

Email: WHDB_NASWI_PAO@navy.mil

Phone: 360-257-2286



Relevant websites



- **NASWI RAB**

<https://www.navfac.navy.mil/NASWIRAB>

- **NASWI PFAS**

<https://www.navfac.navy.mil/NASWIPFAS>

- **Navy ER Program**

<https://www.navfac.navy.mil/Business-Lines/Environmental/Products-and-Services/Environmental-Restoration/>