



Naval Air Station Whidbey Island Restoration Advisory Board Meeting October 17, 2023



NAS Whidbey Island Restoration Advisory Board Meeting



Welcome WebEx attendees!

Please type in the chat:

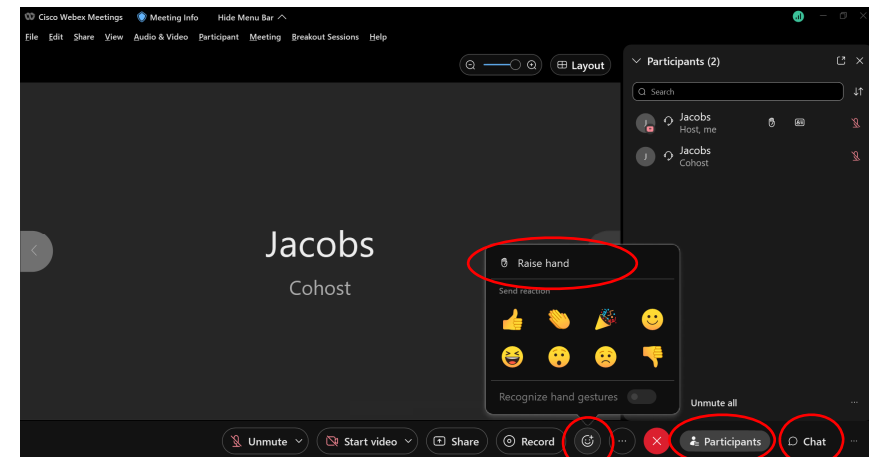
- first and last name
- email address
- phone number

Turn off video to preserve bandwidth

Online support available:

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

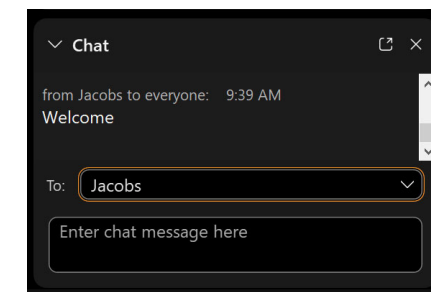
Click to type a question in the chat box

Call in:

844-992-4726

Access Code:

2633 875 2643





Agenda



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



Welcome and Introductions



- **Captain Hanks**
 - **RAB Community Co-Chair:** vacant
 - **Navy Co-Chairs:** Kendra Clubb & Laura Muhs
 - **RAB Members:**
 - 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, Angie Scofidio, JoAnn Grady



Question and Answer Guidelines



RAB Members will be invited to ask questions or comment about the work after each Navy presentation. Please raise your hand (or use the 'raise hand' option on your WebEx page) and when called on, state your name for the scribe.

Community Member comments or questions are welcome during the "community" portion of the meeting after all the Navy presentations and RAB members have had the opportunity to speak. Please raise your hand, and when called on, state your name for the scribe.

We request that comments and questions focus on presentation topics and observe a 2-minute time limit to allow for everyone to participate in the Q&A.



WEBEX Guidelines



Online Attendees

- All microphones are muted to reduce feedback.
- Videos are off to preserve bandwidth.
- By phone dial *3 to raise your hand to notify the web host that you have a comment or question, and *6 to unmute yourself after being called on. Please state your name for the scribe.
- If you prefer to write your comment, please enter your comment in the chat box and the web host will state your comment in the order received.



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 Department of Defense (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 (CERCLA) regulatory framework.
- Also includes the Military Munitions Response Program (MMRP) 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](http://www.denix.osd.mil/rab/home/), can be found at: <http://www.denix.osd.mil/rab/home/>



Environmental Cleanup Communication and Outreach Initiative (ECCOI)



- **Launched in Fall 2022 by DoD**
- **Ongoing initiative intended to enhance communication with community residents, RAB members, and other stakeholders**
- **Examining the effectiveness of existing communication methods**
- **Using findings to improve communication tools to better convey environmental cleanup information**
- **ECCOI personnel are visiting NAS Whidbey Island to observe the RAB and conduct interviews to gather feedback on our program**





Administrative Items



- **Approve February 2023 RAB Meeting Minutes**
- **Vote in new RAB Community Co-Chair**
- **Review February 2023 RAB Action Items**
 - **Provide free product recovery data for the fuel farms and show how those levels are reducing or provide Ecology's website addresses to view the previous reports.**
 - See: <https://apps.ecology.wa.gov/cleanupsearch/site/10786#site-documents>
 - **Continue to determine if historical PFAS drinking water data can be placed on the new public website.**
 - In progress.
 - Drinking water data from 2016-2018: <https://www.navfac.navy.mil/Business-Lines/Environmental/Products-and-Services/Environmental-Restoration/PFAS-Reading-Room/2018-PFAS-FOIA-Request-Results/#Washington>
 - Drinking water data from 2021-present:
<https://www.acq.osd.mil/eie/eer/ecc/pfas/map/pfasmap.html>



Administrative Items continued



- **Review February 2023 RAB Action Items continued:**
 - **Obtain update from Ecology on their draft recommended PFAS levels – confirm they are still draft.**
 - PFAS levels remain draft; see:
<https://apps.ecology.wa.gov/publications/summarypages/2209058.html>
 - **Provide brief update at next RAB regarding the storm water infrastructure status and spoil management practices.**
 - Annual assessments are performed to evaluate impediments to flow. Dredging/cleaning of channels is only performed if needed. Typically not performed annually. The last dredging was performed in June/July 2022, which included the channel from the east end of the airfield (Hanger 9) to the eastern Navy property line. Spoils were deposited on Navy property along the access road north of the channel.



NAS Whidbey Island Environmental Restoration



Laura Himes, P.E.

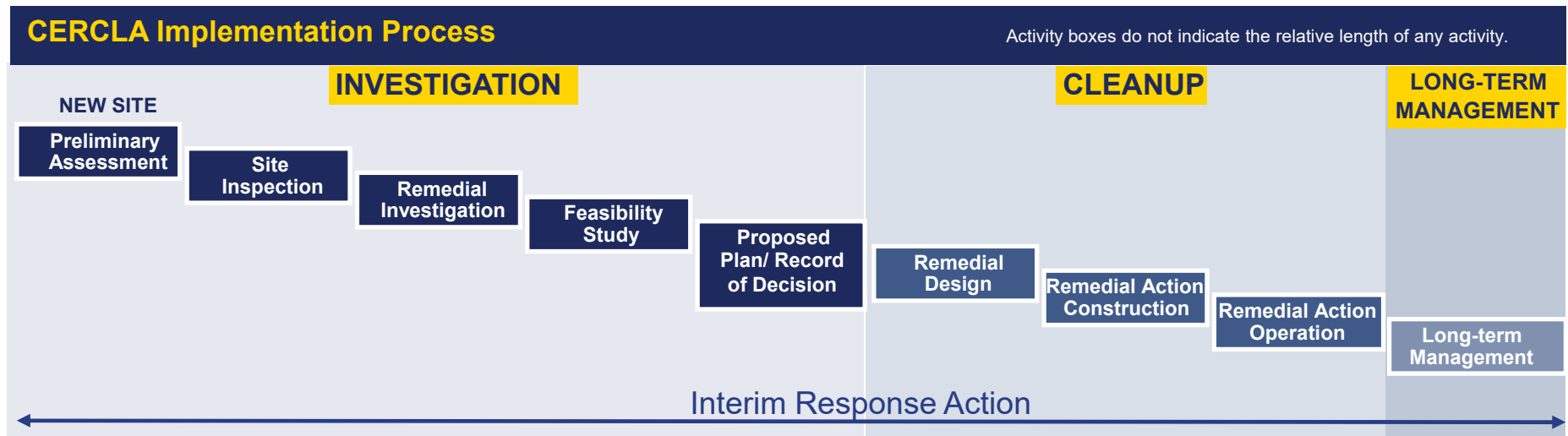


NAS Whidbey Island Environmental Restoration Sites





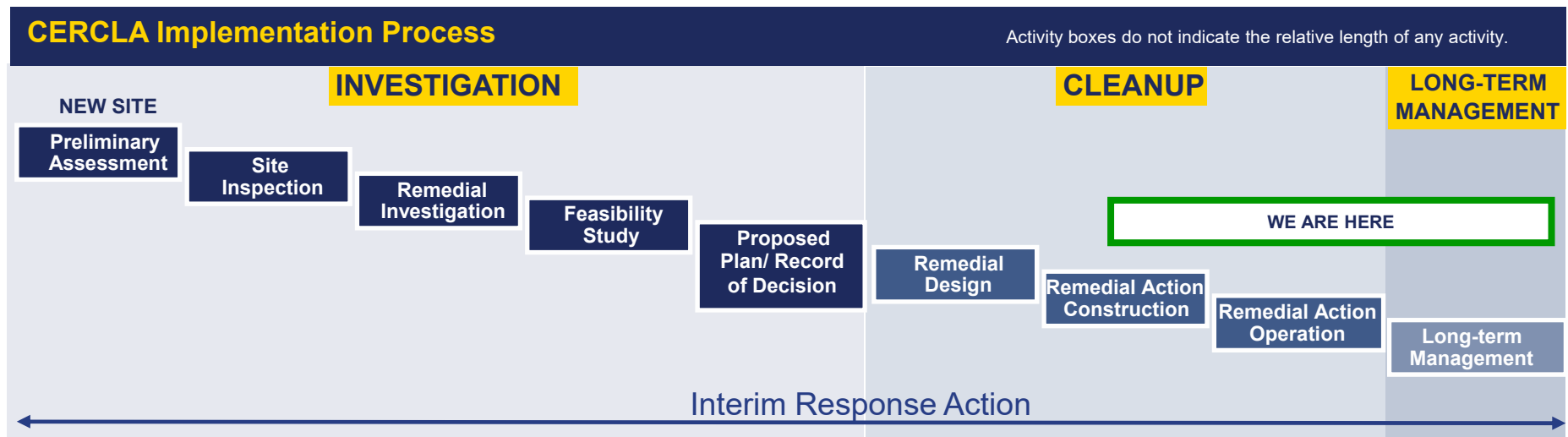
CERCLA PROCESS



- Conducted under CERCLA
- Interim response actions, such as drinking water response actions, can occur any time in the CERCLA process
- Formal public comment period for Proposed Plans



CERCLA Five Year Review (FYR)

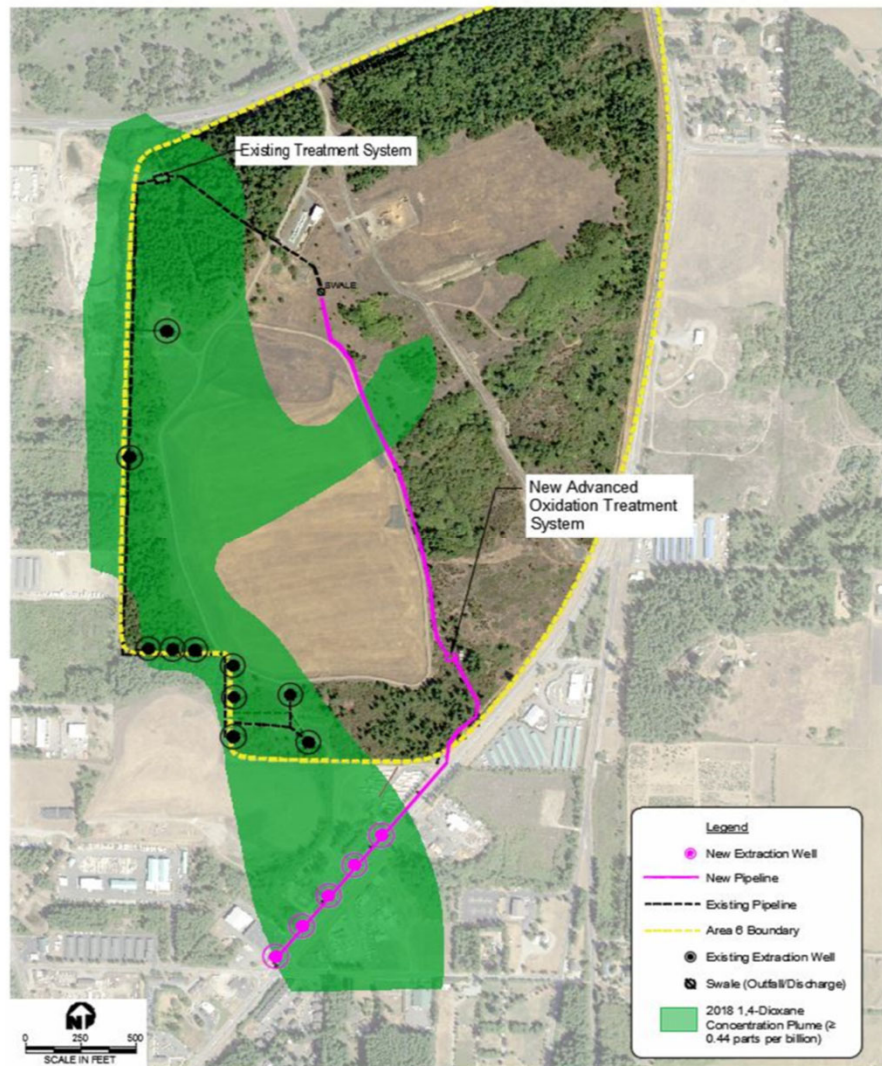


- FYRs are required for sites where cleanup complete but land use controls are required, cleanup ongoing (including groundwater monitoring), and/or have land use controls to restrict land use.
- The Sixth CERCLA FYR process for NAS Whidbey Island has begun:
 - Conducted for sites that have a Record of Decision
- Ensure that the remedial actions selected in the Record of Decisions (RODs) for Operable Units 1, 2, 3, 4 and 5 remain protective of human health and the environment.
- Final due August 2024



Area 6 - ROD Amendment Summary

September 2019



Area 6 –1993 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
 - Treated 85 million gallons to date
- Western AOP Groundwater Treatment Plant:
 - Finalized Remedial Action Management Plan
 - Started construction in June including shutting down existing system in early August
- Downgradient Delineation:
 - Validated groundwater results from five new monitoring wells sampled in Jan 2023
 - Secured real estate access agreements with City of Oak Harbor (second phase of work) and finalized addendums to work plans
 - Drilled two new monitoring wells and sampled groundwater (Sept 2023-Oct 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 – West AOP Plant Construction Demolition of Air Stripper Plant





Area 6 Landfill Update



Work planned before next RAB...

- Western AOP system:
 - Continuing construction activities
- Downgradient delineation investigation:
 - Survey new groundwater wells
 - Evaluate groundwater sampling results to determine if additional wells are necessary
- Routine operation activities:
 - Continue on-going south AOP groundwater treatment system and landfill maintenance and operation
 - Conduct groundwater monitoring



Military Munitions Response Program Update



Presenter:

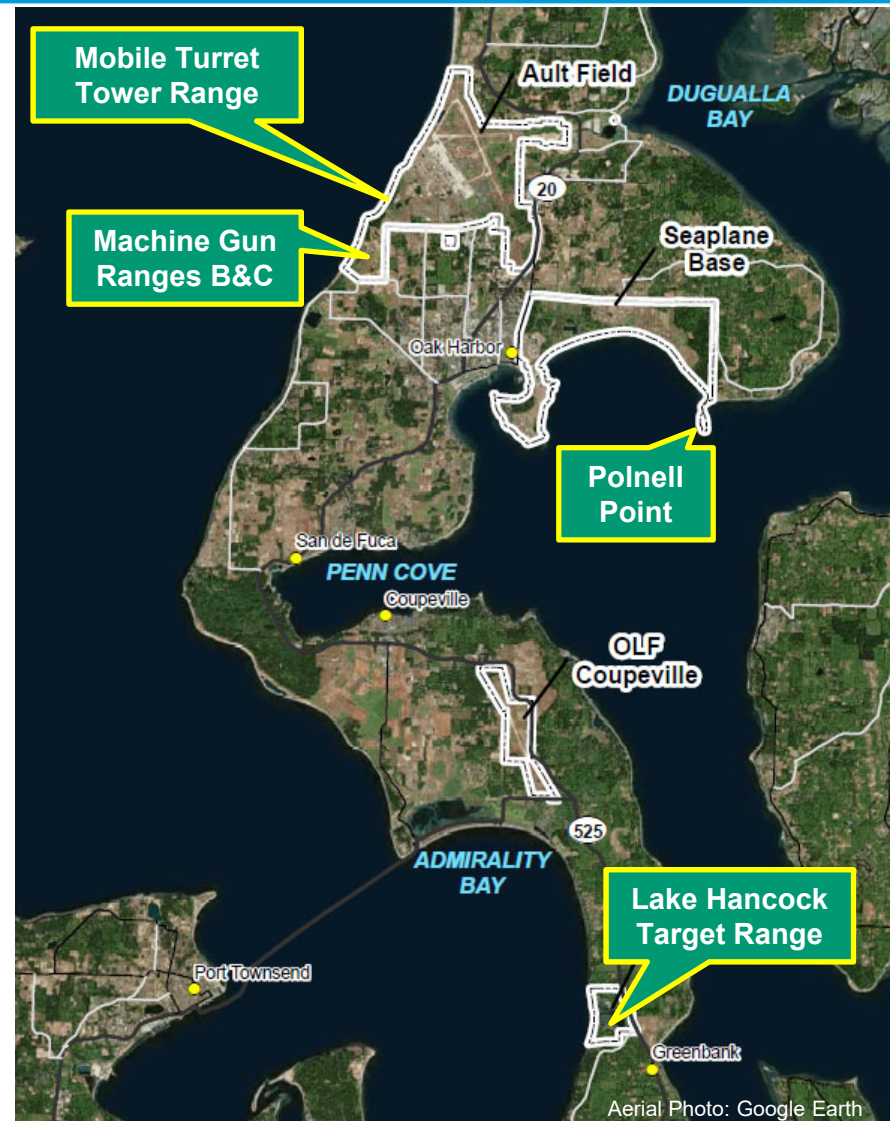
Laura Himes, P.E.

Primary Subject Matter Expert:

Scott Elkind, P.E.



Military Munitions Response Program Update





Lake Hancock Target Range



Work conducted since last RAB...

- Reporting
 - Finalized 2022 Surface Clearance Completion Report
- 2023 Surface Clearance
 - Completing planning and associated documents
 - Field work in October 2023





Lake Hancock Target Range



Work planned before next RAB...

- Land use controls, including:
 - Complete 2023 surface clearance within entire removal action area
 - Maintain signage and fencing
- Reporting:
 - Prepare 2023 Surface Clearance Completion Report

Future work planned...

- Continue annual surface clearance
- FYR





State Petroleum Program Update



Presenter:

Laura Himes, P.E.

Primary Subject Matter Expert:

Christie Kroskie, L.G.



State Petroleum Program Update

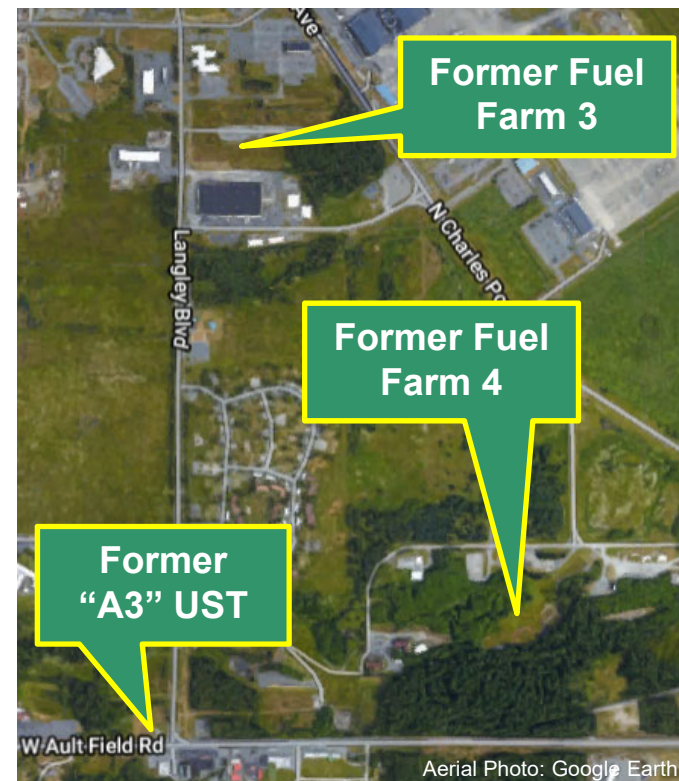
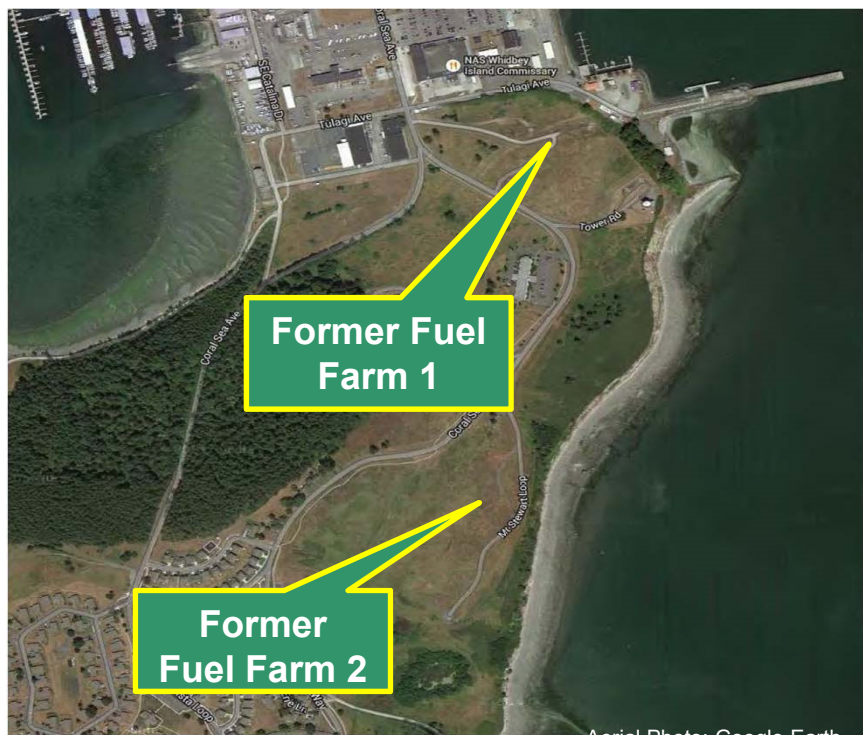


Work conducted since last RAB:

- Continued free-product recovery and groundwater monitoring/sampling
- Fourth FYR

Work planned before next RAB:

- Free-product recovery and groundwater monitoring/sampling at Fuel Farms





Petroleum Sites FYR



Why conduct a Five-Year Review?

- Required by WAC 173-340-420(3) for sites where contaminants left in place above unrestricted land use in order to restrict site use.
- Ensure that the cleanup actions (remedies) chosen for the sites are functioning properly and are protective of human health and the environment.

Remedies at Fuel Farms 1, 2, 3, and 4 are functioning as intended and are protective of human health and the environment.

- Free product recovery being conducted during winter months when free product thickness is greatest.
- Land use controls are effective in preventing exposure to contaminants at concentrations above cleanup levels.
- Natural attenuation is occurring.
- Compliance/groundwater monitoring activities are not being conducted exactly at the frequency (or analytes) as specified in the Decision Document, but still characterize nature and extent of dissolved-phase petroleum hydrocarbon plumes



5 Minute Break

Break



PFAS Drinking Water & Investigation Update



Kendra Clubb, P.E.



PFAS Drinking Water Update



Work conducted since last RAB...

- Biannual drinking water well sampling (April-July 2023)
- Continued to provide bottled water or point of use treatment for 4 homes with exceedances of 70 ppt PFOS and/or PFOA
- Long-term solution in Coupeville:
 - Town operated the PFAS treatment system, including media changeout in March 2023 and quarterly sampling
 - Town secured 10 easements in support of new drinking water line
 - Navy prepared work plans & temporary access agreements for new drinking water line
- Long-term solution in Oak Harbor (near Ault Field and Area 6):
 - Conducted quarterly sampling of new drinking water well for one home
 - Prepared Construction Completion Report for removal action performed in Nov 2021 and June 2022
 - Prepared Technical Memorandum for quarterly sampling conducted from Nov 2021-Nov 2022



PFAS Drinking Water Update

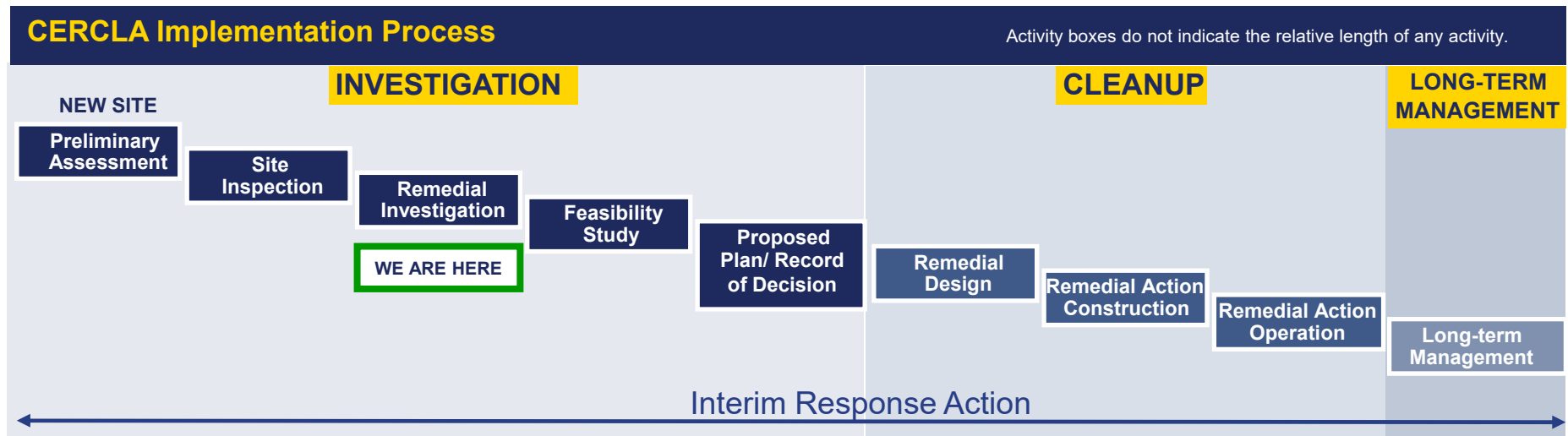


Work planned before next RAB...

- Biannual drinking water well sampling (late fall/early winter 2023)
- Long-term solution in Coupeville:
 - Town will continue to operate PFAS treatment system, including quarterly sampling
 - Navy finalize necessary temporary access agreements and work plan, and perform construction of new waterlines
- 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 through Nov 2023, then switch to biannual sampling in 2024



Where are we in PFAS investigations?



- Conducted under CERCLA
- 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



NAS Whidbey Island PFAS Remedial Investigation (RI) Locations



- **Ault Field**

- Former Area 6 Landfill
- Former Runway Fire School
- Current Fire Training Area
- Ault Field Airfield
- Former Wastewater Treatment/Sewage Lagoon Area

- **Seaplane Base**

- Building 18 Maintenance Building
- Former Biosolids Application Area

- **OLF Coupeville**



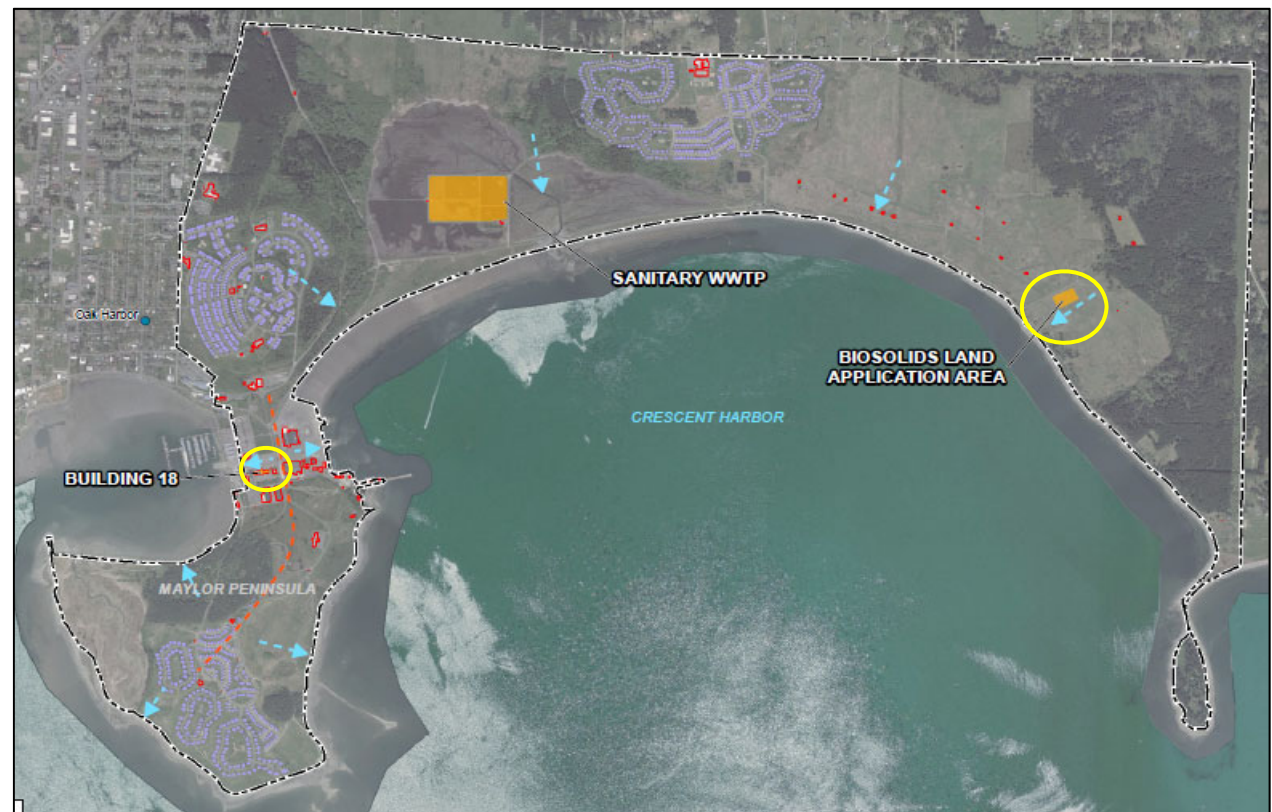


Seaplane Base PFAS RI Locations



- Building 18 Maintenance Building
- Former Biosolids Application Area

NOTE: Yellow boundaries are where RIs are being conducted.





PFAS Investigations Update



Work conducted since last RAB...

- OLF Coupeville RI:
 - Finalized work plan addendum & access agreements for off-base RI
 - May-June 2023: Installed, sampled, and surveyed two new off-base and one off-base monitoring wells and collected off-base sediment and surface water samples
 - Continue preparing the draft RI report
 - Awarded contract for next phase of RI
- Current Fire Training Area RI:
 - Finalized work plans
 - June-Oct 2023: Installed monitoring wells and lysimeters; collected samples from new and existing monitoring wells; collected surface water/sediment samples; and conducted aquifer testing
- Baseline Groundwater Model for Ault Field/Seaplane Base:
 - Prepared Groundwater Model Report



OLF Coupeville & Ault Field Current Fire Training Area RI



Drilling new monitoring well and collected soil samples at OLF Coupeville



Lysimeter installation at Current Fire Training Area



Discrete groundwater sample collection at Current Fire Training Area



PFAS Investigations Update



Work conducted since last RAB...

- Area 31, Former Runway Fire School RI:
 - Continue preparing the draft RI report & awarded contract for next phase of RI
- Area 6 Landfill RI:
 - February-July 2023: Installed monitoring wells and lysimeters; collected samples from new and existing monitoring wells; collected surface water/sediment samples; conducted aquifer testing; and resurveyed well network
 - Finalized access agreements for off-base monitoring wells
- NAS Whidbey Island “Specialty Areas”:
 - Finalized Preliminary Assessment for Boardman Range, Racon Hill, Lake Hancock, & Coos Head/Bay
- Seaplane Base Site Inspection (SI):
 - Finalize SI Report recommending that Building 18 (Maintenance Building) and Former Biosolids Application Area proceed to RI



PFAS Investigations Update



Work planned before next RAB...

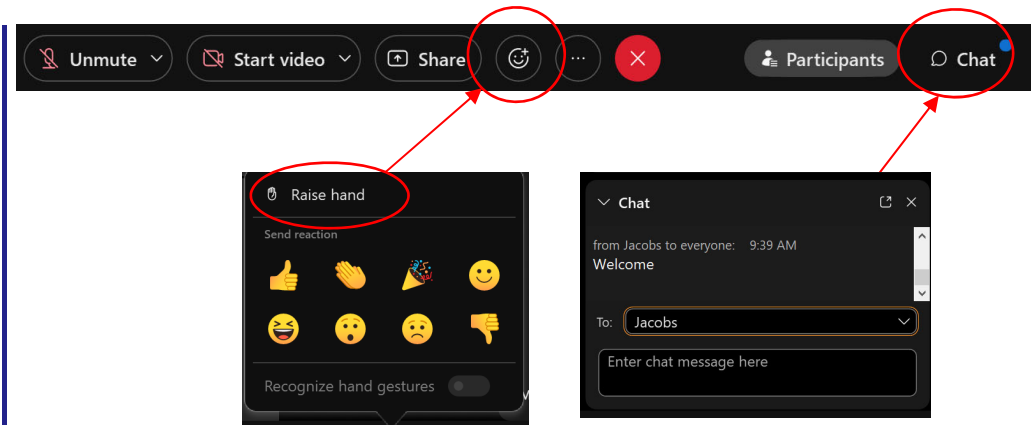
- Baseline Groundwater Model for Ault Field/Seaplane Base:
 - Finalize report
- OLF Coupeville RI:
 - Continue preparing the draft RI report & draft work plans for next phase of RI
- Area 6 Landfill RI:
 - October-December 2023: Install new off-base monitoring wells; collect samples from new monitoring wells; and survey new wells
 - Start preparing draft RI report
- Area 31, Former Runway Fire School RI:
 - Continue preparing the draft RI report & draft work plans for next phase of RI
- Current Fire Training Area RI:
 - Start preparing draft RI report
- *NEW* Ault Field Airfield RI:
 - Start preparing the draft work plans



Community Comments



- **We welcome comments from community members**
- **In-person**
 - Please use microphone and state your name.
- **Virtual**
 - 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, please enter it in the ‘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 ~ Spring 2024**



THANK YOU



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

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

Naval Air Station Whidbey Island Public Affairs

Email: NASWIPAO@us.navy.mil

Phone: 360-257-2286



Relevant websites



- **NASWI RAB**

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

- **NASWI and DoD PFAS**

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

<https://www.acq.osd.mil/eie/eer/ecc/pfas/map/pfasmap.html>

- **Navy Environmental Restoration Program**

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