



Naval Air Station Whidbey Island Restoration Advisory Board Meeting November 30, 2021



NAS Whidbey Island Restoration Advisory Board Meeting



Welcome to the meeting.
Thank you for joining us.

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

- First and Last Name
- Email Address
- Phone Number

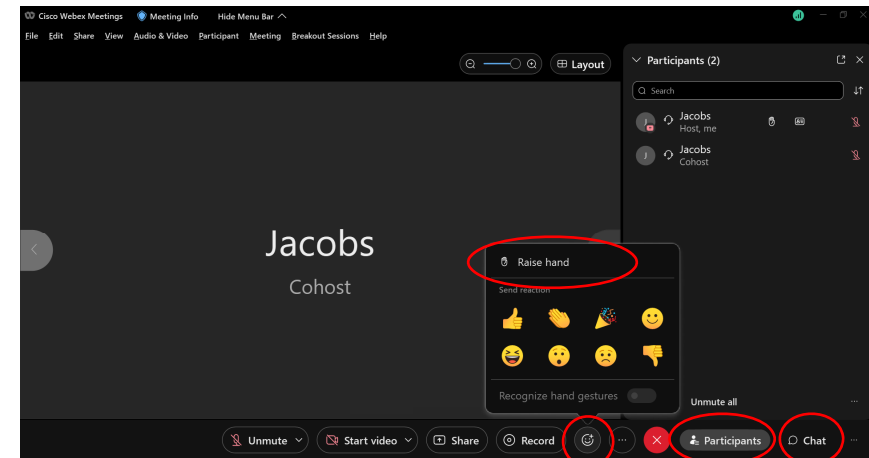
Having trouble?

Contact-

Leti Solaun

352-246-5246

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

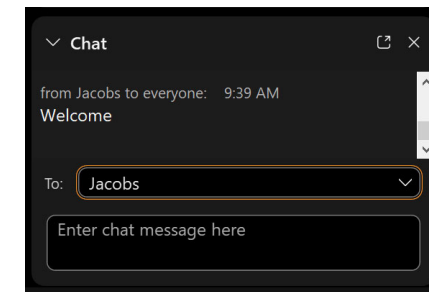
Call in info:

Phone

844-992-4726

Access Code:

2631 467 8462





Meeting Organization and Useful Guidelines



- To avoid feedback during our meeting, all lines are presently muted. We encourage comments from both the RAB members and the community and ask that you please use the 'raise hand' option if you would like to comment and we will open your line and call on you sequentially.
 - If you've joined the meeting via phone, dial *3 to raise your hand, and *6 to unmute yourself after being called
- In order to not interrupt the flow of presentations, we request that RAB members hold questions or comments until after each presentation. At that time the floor will be opened for discussion.
- We welcome comments from community members and will open the floor during the "community" portion of the meeting. Again, we request you use the 'raise hand' option and you will be called on sequentially.
 - We request comments be focused on the issues at hand and be limited to two minutes to ensure everyone wanting to speak has the chance. We anticipate all comments and questions will be discussed respectfully.
 - If you would rather write your comment, please locate the 'chat box' and feel free to write your comment and it will be addressed.



Agenda



- | | |
|--------------------|--|
| 4:45 – 5:00 | Community Joining WebEx Meeting |
| 5:00 – 5:15 | Welcome and Introductions |
| 5:15 – 5:30 | RAB Purpose & Administrative Items |
| 5:30 – 6:30 | Environmental Restoration Program Update <ul style="list-style-type: none">• Area 6 Landfill• Military Munitions Sites• State Petroleum Sites• PFAS Drinking Water and Investigation |
| 6:30 – 6:50 | Community Comments/Q&A |
| 6:50 – 7:00 | Action Items/Next RAB |



Welcome and Introductions



- **Captain Hanks**
- **RAB Community Co-Chair:** Doug Kelly
- **Navy Co-Chairs:** Kendra Clubb & Melissa Gehrmann
- **RAB Members:**
 - *Doug Kelly (Community Co-Chair)**
 - *Gary Winlund (Deputy Community Co-Chair)**
 - *Kathy Lester (Community Member)**
 - *Al Williams (Community Member)**
 - *Celine Servatius (Community Member)**
 - *Maddie Rose (Community Member)**
 - *Joe Grogan (Community Member)**
 - *Martha Yount (Community Member)**
 - *Philip Derise (Navy)**

**voting member*



Welcome and Introductions



- **RAB Members (continued):**
 - Chan Pongkhamsing (EPA)
 - Ron Johnson (Ecology)
 - Michael Shaljian (Ecology)
 - Sandra Caldwell (Ecology)
- **Update presenters:**
 - Laura Himes & Kendra Clubb
- **Other subject matter experts:**
 - Kristeen Bennett & Chris Generous
- **Navy Public Affairs Officers:**
 - Michael Welding & Ken Johnson
- **Meeting Hostess/Facilitator/IT support/Stenographer:**
 - Jennifer Madsen, JoAnn Grady, Leti Solaun, Katie Nelson



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....”*

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 CERCLA regulatory framework.
- Also includes the Military Munitions Response Program and State-regulated Petroleum cleanups.
- Does not include installation compliance issues – pipelines, USTs, 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 May 2021 RAB Meeting Minutes**
- **Review May 2021 RAB Action Items**
 - Navy to provide template PFAS letter to an agricultural operator to RAB Members
 - Kendra emailed on May 18, 2021



NAS Whidbey Island Environmental Restoration



Laura Himes, P.E.



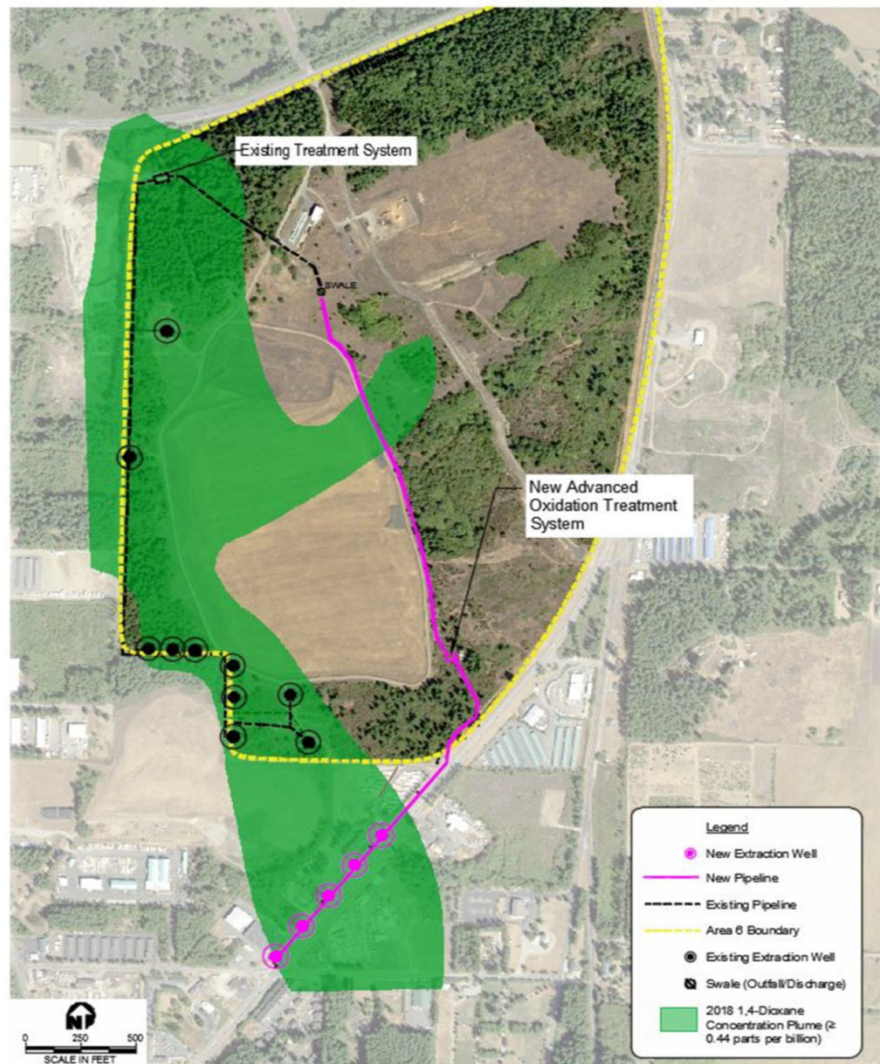
NAS Whidbey Island Environmental Restoration Sites





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 Plant Construction Completed and System Operational
 - Work included installing and testing plumbing, electrical, and system controls
 - AOP full time operation since October 2021
 - Meeting remediation goals for 1,4-dioxane and vinyl chloride
- Continue design for Western AOP Groundwater Treatment Plant
- Routine operation activities:
 - Performed land use control inspections
 - Conducted on-going groundwater treatment system and landfill maintenance and operation
 - Conducted groundwater monitoring



Area 6 – South Plant Construction



Pulling transducer cables



Transducer cables terminating at AOP



Pump and motor assembly



Production well – plumbing, electrical, grounding



Area 6 – South Plant Construction



AOP System Plumbing



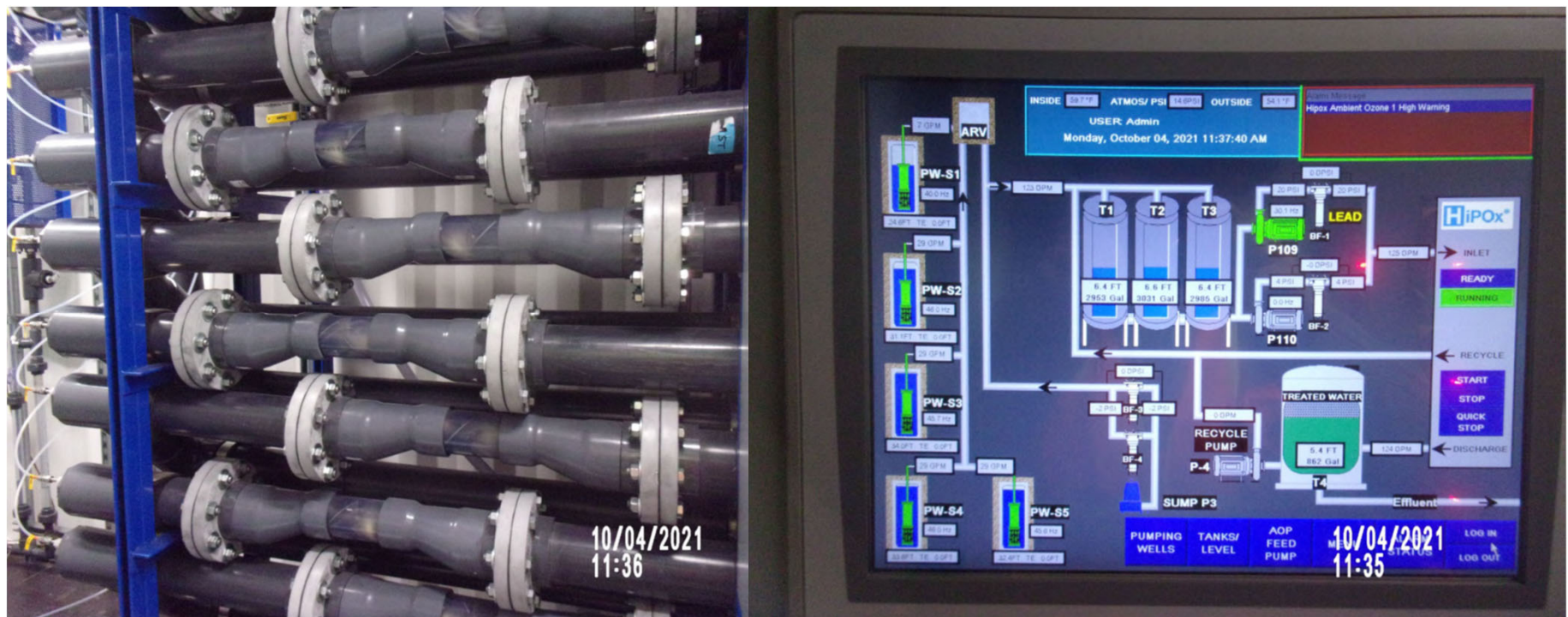
Peroxide System and Pumps



Area 6 – South Plant Construction



System Operating





Area 6 – South Plant Construction



Hydroseeding



New grass (1 month after hydroseeding)



Plant building



Area 6 Landfill Update



Work planned before next RAB...

- Operate South AOP System
 - Prepare construction completion report
- Finalize design for Western AOP system
- Downgradient delineation investigation (install monitoring wells to south)
 - Begin real estate actions with off-site property owners
 - Begin drafting work plans
- Routine operation activities
 - Continue on-going groundwater treatment system and landfill maintenance and operation
 - Conduct groundwater monitoring



Military Munitions Response Program Update



Presenter:

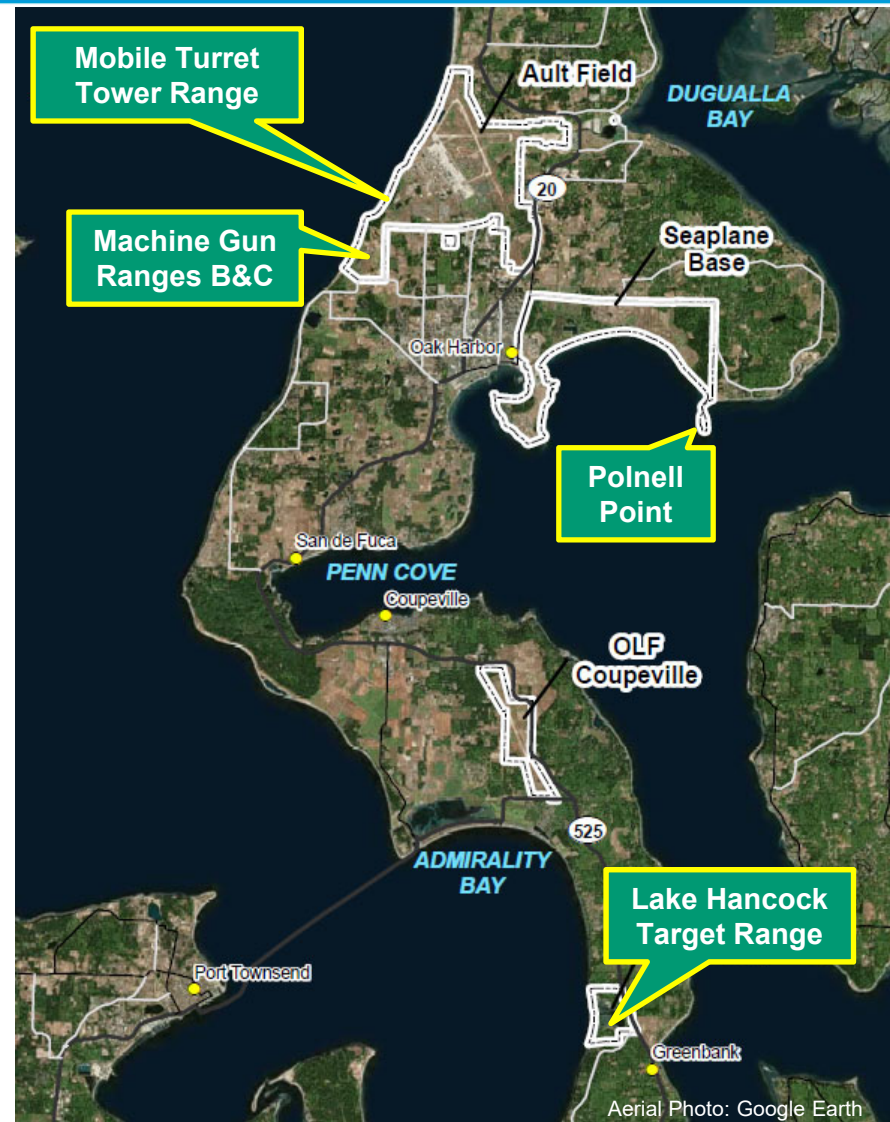
Laura Himes, P.E.

Primary Subject Matter Expert:

Chris Generous, L.G.



Military Munitions Response Program Update





Lake Hancock Target Range



Work conducted since last RAB...

2021 Surface Clearance

- Surface Clearance covers 29 acres
- 79 munition anomalies identified, all “Material Documented as Safe”
- Repaired approx. 20 feet of fencing
- Repaired 8 signs damaged by storms
- Example item: Expended 2.75” practice warhead





Lake Hancock Target Range



Work planned before next RAB...

- Reporting:
 - Finalize 2021 Surface Clearance Completion Report

Future work planned...

- Land use controls, including:
 - Annual inspection and 2022 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:

Kristeen Bennett, L.G./P.G.

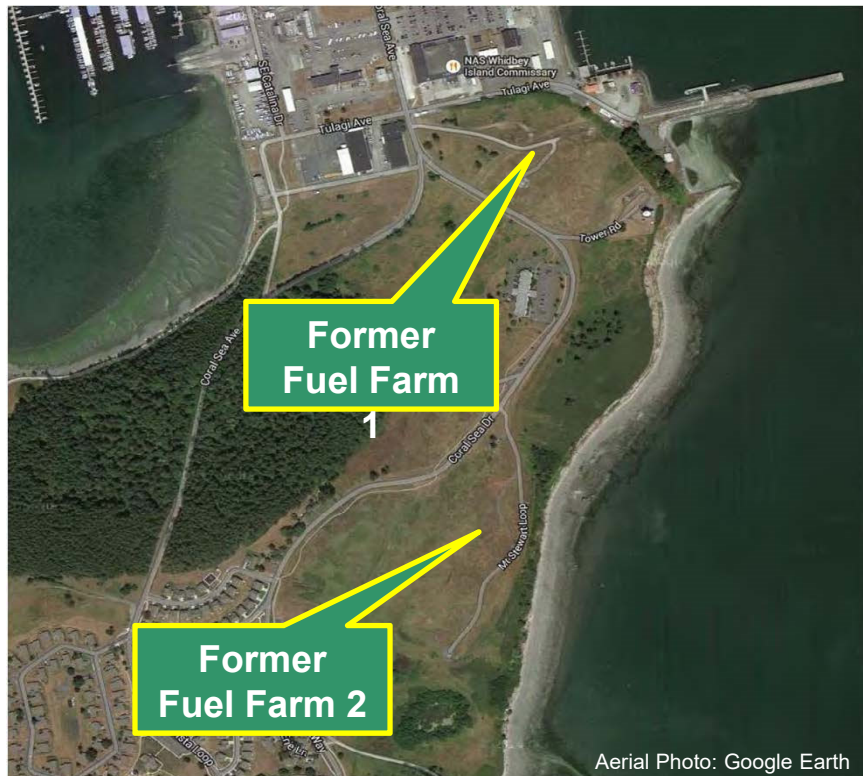


State Petroleum Program Update



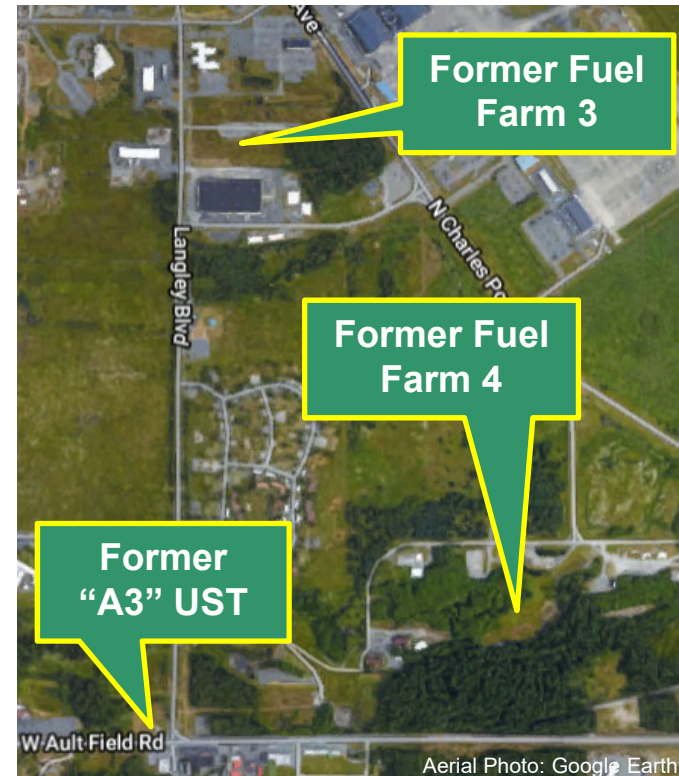
Work conducted since last RAB:

- Continued free-product recovery and groundwater monitoring/sampling
- Soil sampling and excavation at Former "A3" UST



Work planned before next RAB:

- Free-product recovery and groundwater monitoring/sampling at Fuel Farms
- Former "A3" UST reporting and Ecology consultation





Former “A3” UST Excavation



PCS Excavation (13 OCT 2021)



SE excavation side wall (15 OCT 2021)



Backfilling (20 OCT 2021)



Hydro-seeding (03 NOV 2021)



5 Minute Break

Break



PFAS Drinking Water & Investigation Update



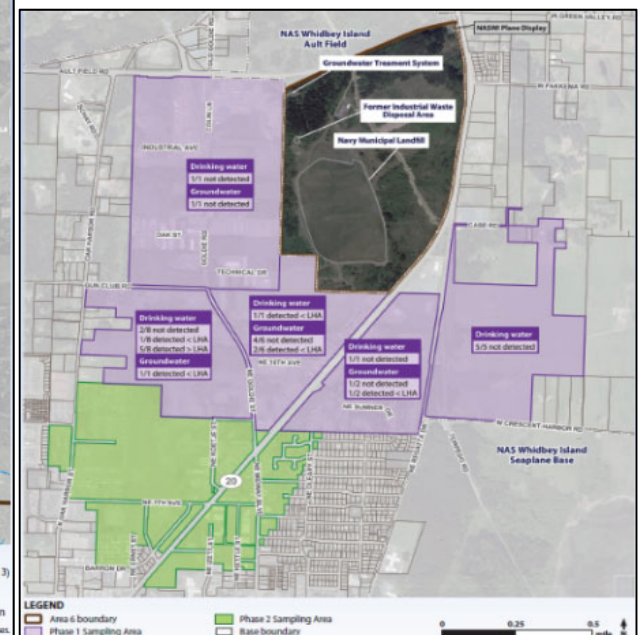
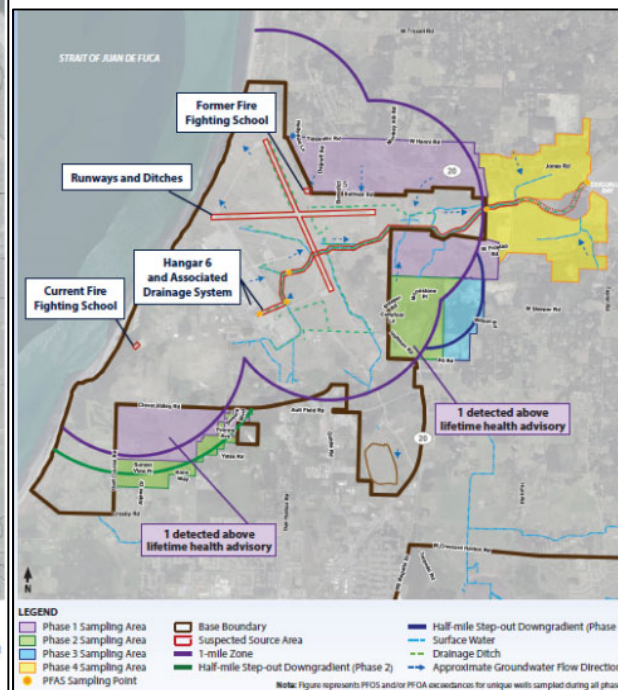
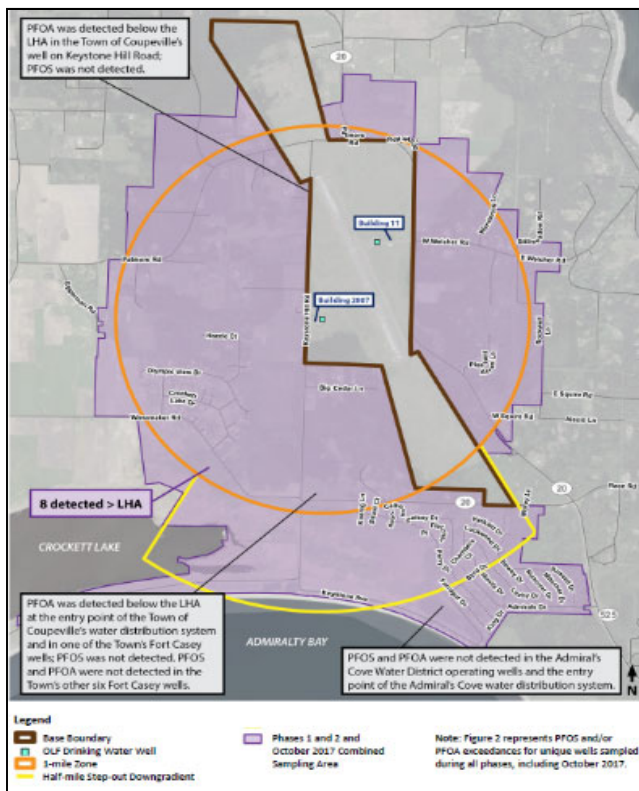
Kendra Clubb, P.E.



PFAS Drinking Water Update



- 286 drinking water wells sampled
- 16 wells exceed EPA's lifetime health advisory
 - 8 wells south of OLF Coupeville and 8 wells near Ault Field and Area 6





PFAS Drinking Water Update



Work conducted since last RAB...

- Biannual drinking water well sampling (October 2021)
- Continued to provide bottled water or point of use treatment for homes with PFOS/PFOA exceedances (36 homes total)
- Long-term solution in Coupeville
 - Awarded Cooperative Agreement (CA) with Town for PFAS Water Treatment Plant Operations and Maintenance
 - Town staff completed the first quarterly PFAS sampling under CA
 - Finalized revised design for last segment of new water main
 - Town resumed work on easements for new water main
- Long-term solution in Oak Harbor (near Ault Field and Area 6)
 - Work Plans/Design finalized
 - Started construction on November 2



PFAS Drinking Water Update



Work planned before next RAB...

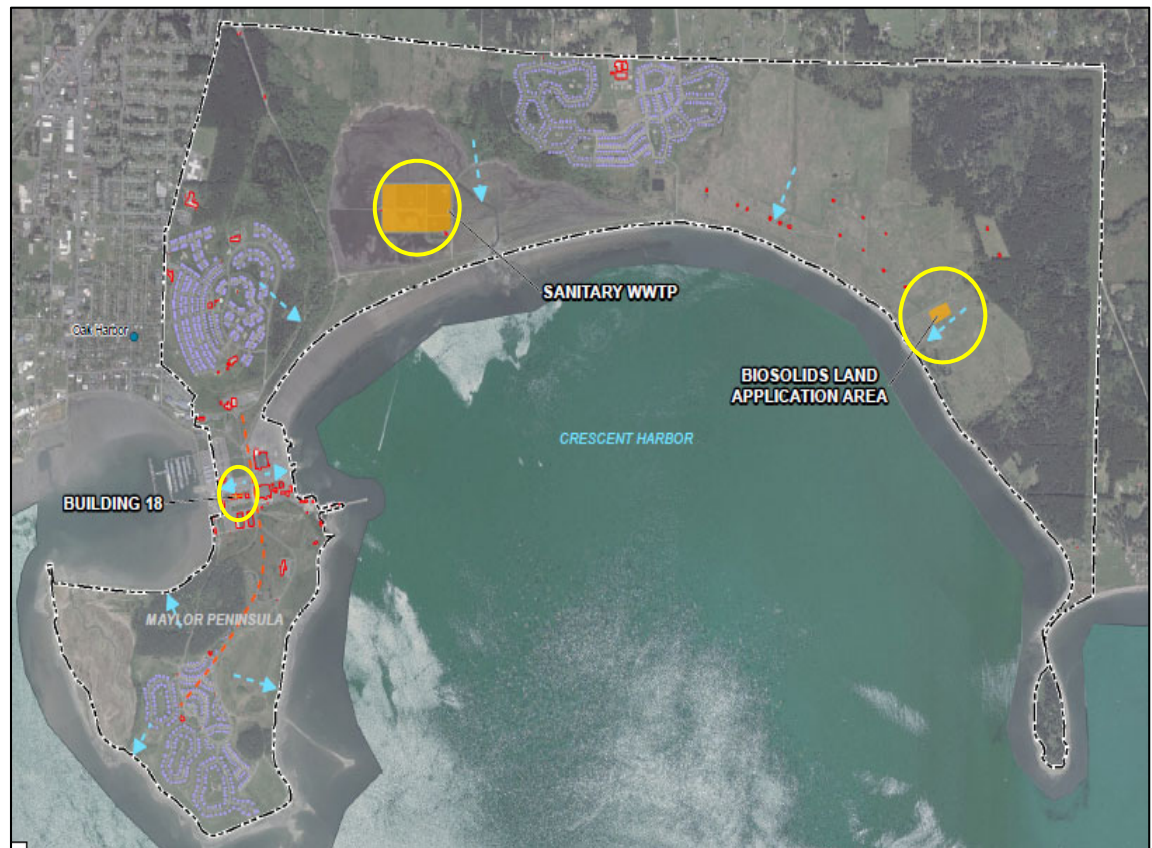
- Spring 2022 biannual drinking water well sampling
- Long-term solution in Coupeville
 - Town will continue work under CA for PFAS Water Treatment Plant Operations and Maintenance
 - Town will continue work on easements for last segment of water main
- Long-term solution in Oak Harbor (near Ault Field and Area 6)
 - Complete all construction for drinking water removal actions



Seaplane Base PFAS SI



- 6 sites evaluated in PA
- 3 sites no further action
- 3 sites evaluated in SI
- # sites moving to RI pending SI final report





PFAS Investigations Update



Work conducted since last RAB...

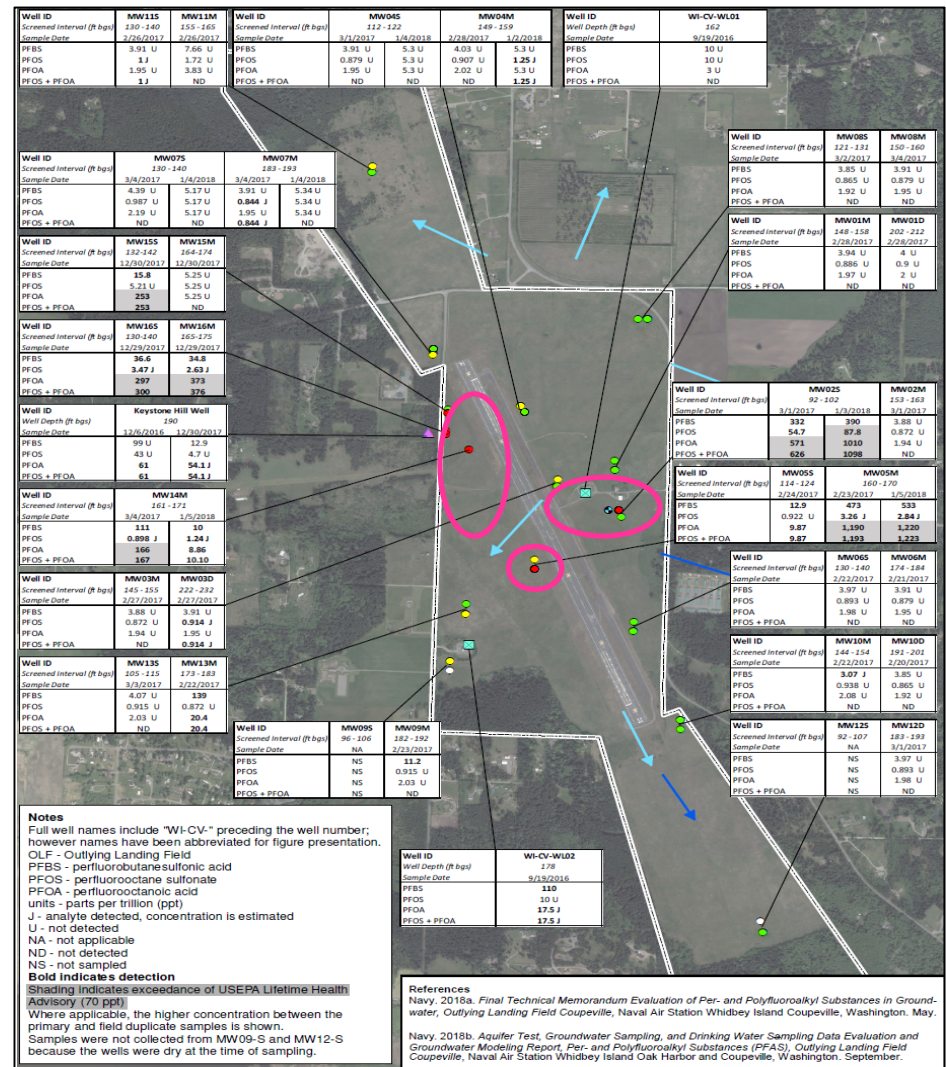
- Ault Field:
 - Finalized Ault Field Phase 2 Site Inspection (SI) Report
 - Drafted Area 31 Remedial Investigation (RI) Work Plans
 - Started Work Plans for Current Fire Training Area and Area 6 Landfill RI
 - Started Work Plans for Baseline Groundwater Model
- Seaplane Base:
 - Drafted Seaplane Base SI Report
- OLF Coupeville:
 - Finalized OLF Supplemental SI Report
 - Drafted OLF Supplemental SI Report Addendum
 - Drafted OLF RI Work Plans
- NAS Whidbey Island “Specialty Areas”:
 - Drafted Preliminary Assessment for Boardman Range, Racon Hill, Lake Hancock, & Coos Head/Bay



OLF Coupeville PFAS SI and RI



- **Supplemental SI complete**
 - PFOS, PFOA, and PFBS exceed screening levels in areas with pink circles
- **Remedial Investigation**
 - Install new wells on-base where there is little or no PFAS data
 - Install up to five off-base wells to east, south and west
 - Collect sediment and surface water sampling, as necessary
 - Perform human health risk assessment
 - Refine groundwater and PFOS, PFOA, and PFBS transport model





PFAS Investigation Update



Work planned before next RAB...

- Ault Field:
 - Finalize Area 31 RI Work Plans; start field work
 - Draft Work Plans for Current Fire Training Area and Area 6 Landfill RI
 - Complete Work Plans for Baseline Groundwater Model; start field work
- Seaplane Base:
 - Finalize Seaplane Base SI Report
- OLF Coupeville:
 - Finalize OLF Supplemental SI Report Addendum
 - Finalize OLF RI Work Plans; conduct on-base field work
 - Draft OLF RI Work Plan Addendum for off-base work
- NAS Whidbey Island “Specialty Areas”:
 - Finalize Preliminary Assessment for Boardman Range, Racon Hill, Lake Hancock, & Coos Head/Bay



5 Minute Break

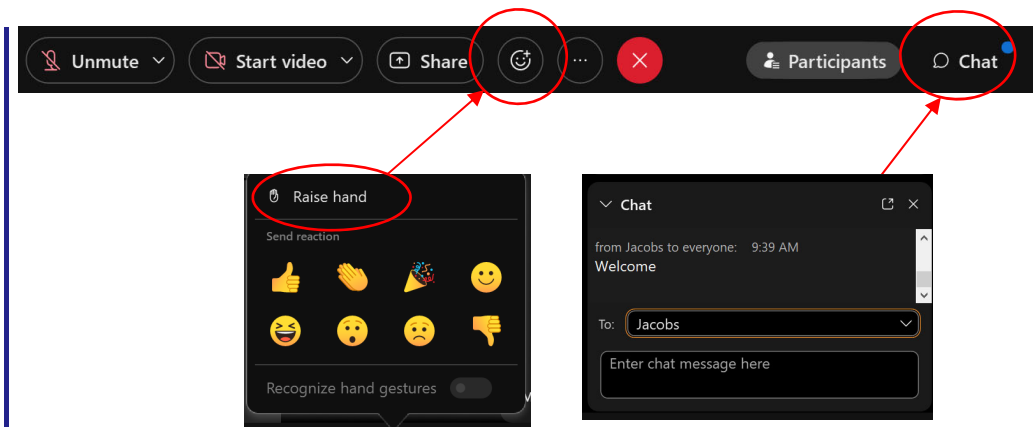
Break



Community Comments



- **We welcome comments from community members**
 - “Raise Hand” 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 ~ Spring 2022**



THANK YOU



**Thank you for attending the
November 2021 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://navfac.navy.mil/NASWIRAB>

- **NASWI PFAS**

<https://navfac.navy.mil/NWPFAS>

- **Navy ER Program**

https://www.navfac.navy.mil/navfac_worldwide/specialty_centers/exwc/products_and_services/ev/erb/prog.html