



Naval Air Station Whidbey Island Restoration Advisory Board Meeting May 17, 2021



NAS Whidbey Island Restoration Advisory Board Meeting (RAB)



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

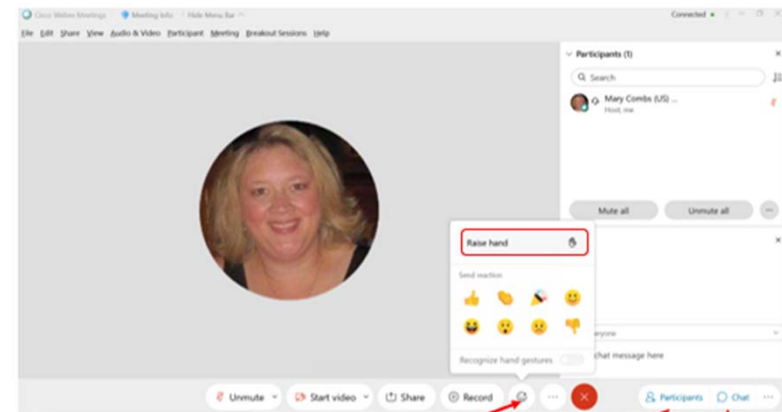
- First and Last Name
- Email Address
- Phone Number

Having trouble?

Contact-

Deepti Nair 510-846-5935
Jody Lipps 614-657-4810

WebEx Overview



Everyone is Muted on Entry-

Click the "Raise Hand" Icon for the moderator to "unmute"

Participant Tab:

Click to See List of Participants

Chat Tab:

Click to ask Questions

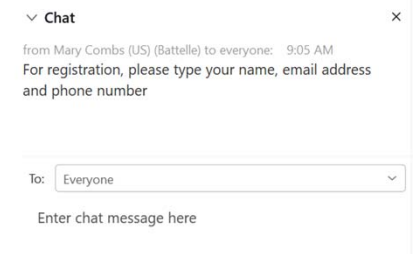
Call in info:

Phone

+1 602 585 0123

Access Code:

130 596 3297





Agenda



- | | |
|--------------------|--|
| 4:45 – 5:00 | Community Joining WebEx Meeting |
| 5:00 – 5:15 | Welcome and Introductions |
| 5:15 – 5:20 | Moment of Silence for David Macys |
| 5:20 – 5:35 | Ground Rules, RAB Purpose & Administrative Items |
| 5:35 – 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 Groundwater |
| 6:30 – 6:50 | Community Comments/Q&A |
| 6:50 – 6:55 | Action Items & Vote |
| 6:55 – 7:00 | Next Meeting Date and Agenda Topics |



Welcome and Introductions



- **Captain Army**
- **RAB Members (next page)**
- **Navy Co-Chairs:**
 - Kendra Clubb & Melissa Gehrman
- **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:**
 - Mary Combs, JoAnn Grady, Deepti Nair, Jody Lipps, Lori Stefano



Welcome and Introductions



- **RAB Members:**

- *Kathy Lester (Community Co-Chair)**
- *Gary Winlund (Deputy Community Co-Chair)**
- *Al Williams (Community Member)**
- *Celine Servatius (Community Member)**
- *Maddie Rose (Community Member)**
- *Joe Grogan (Community Member)**
- *Martha Yount (Community Member)**
- *Philip Derise (Navy)**
- Chan Pongkhamsing (EPA)
- Ron Johnson (Ecology)
- Michael Shaljian (Ecology)
- Sandra Caldwell (Ecology)

**voting member*



Moment of Silence for David A. Macys



**November 30, 1947 –
February 21, 2021**

- **31 years in Navy: Toxicologist, Industrial Hygienist, Safety Officer, Environmental Officer, and Executive Officer**
- **Volunteer for Island County Community Health Advisory Board (2005-2017)**
- **Volunteer for Island County Environmental Health Assessment Team (2002-2006)**
- **Member of Naval Air Station Whidbey Island RAB (2005-2020)**

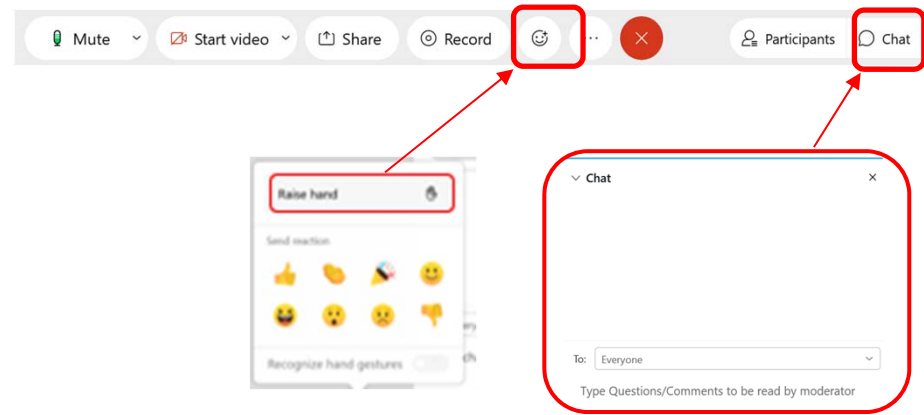


Overview : Ground Rules



To avoid technical issues-

- **Everyone is on Mute**
 - “Raise Hand” or Chat to the Host to Unmute Your Audio Line
- **Be respectful**
- **Speak Honestly**
- **Speak to the Topic**



WebEx Overview

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



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 October 2019 RAB Meeting Minutes**
- **Review October 2019 RAB Action Items**
 - How much free product has been recovered from the fuel farms in the last few months?
 - During 2019-2020 field season, 7.4 gallons were recovered during the winter months at Former Fuel Farm 1, 2, and 3.
 - Is the Navy still sampling petroleum annually by the Marina?
 - There are no requirements for the Navy to sample petroleum at the Marina; however, the Navy's Stormwater Compliance Program is proactively developing a plan to sample total petroleum hydrocarbons at stormwater outfalls if a sheen is observed.
- **Community Co-Chair Nominations & New RAB member (vote at end of meeting)**



NAS Whidbey Island Environmental Restoration



Laura Himes, P.E.



NAS Whidbey Island Environmental Restoration Sites





Area 6 Landfill Update



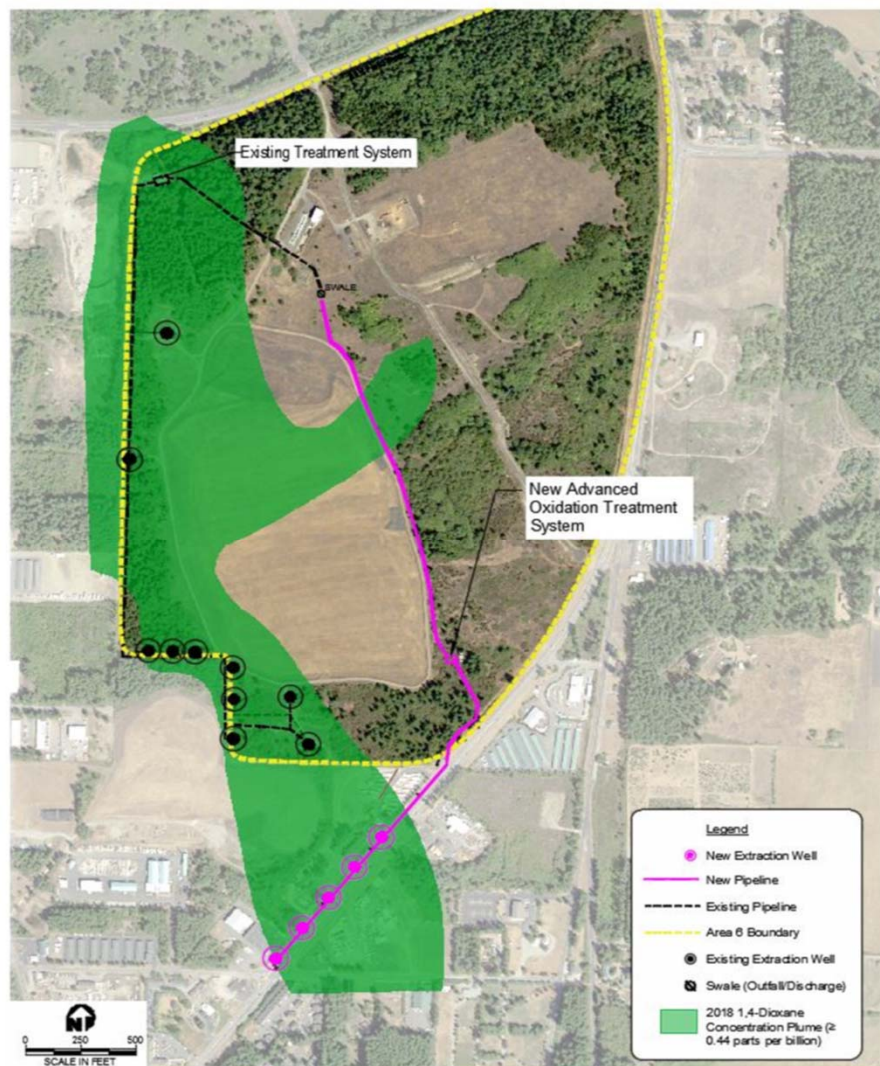
Work conducted since last RAB...

- Work Plans for Southern Advanced Oxidation Process (AOP) Groundwater Treatment Plant Construction
- Secured real estate agreements (easement) with WSDOT/City of Oak Harbor for Southern Groundwater Treatment Plant
- Construction of Southern 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 - 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 – South Plant Construction



Effluent Line Trench





Area 6 – South Plant Construction



Concrete Pad for AOP System





Area 6 – South Plant Construction



AOP System and Building





Area 6 – South Plant Construction



Influent Line Trench





Area 6 – South Plant Construction



Production and Monitoring Well Drilling and Installation





Area 6 Landfill Update



Work planned before next RAB...

- South AOP System Tentative Construction Schedule
 - AOP system startup: ~ June 30, 2021
 - Construction complete: ~ August 31, 2021
- Continue design for Western AOP system
- Routine operation activities
 - Continue on-going groundwater treatment system and landfill maintenance and operation



Military Munitions Response Program Update



Presenter:

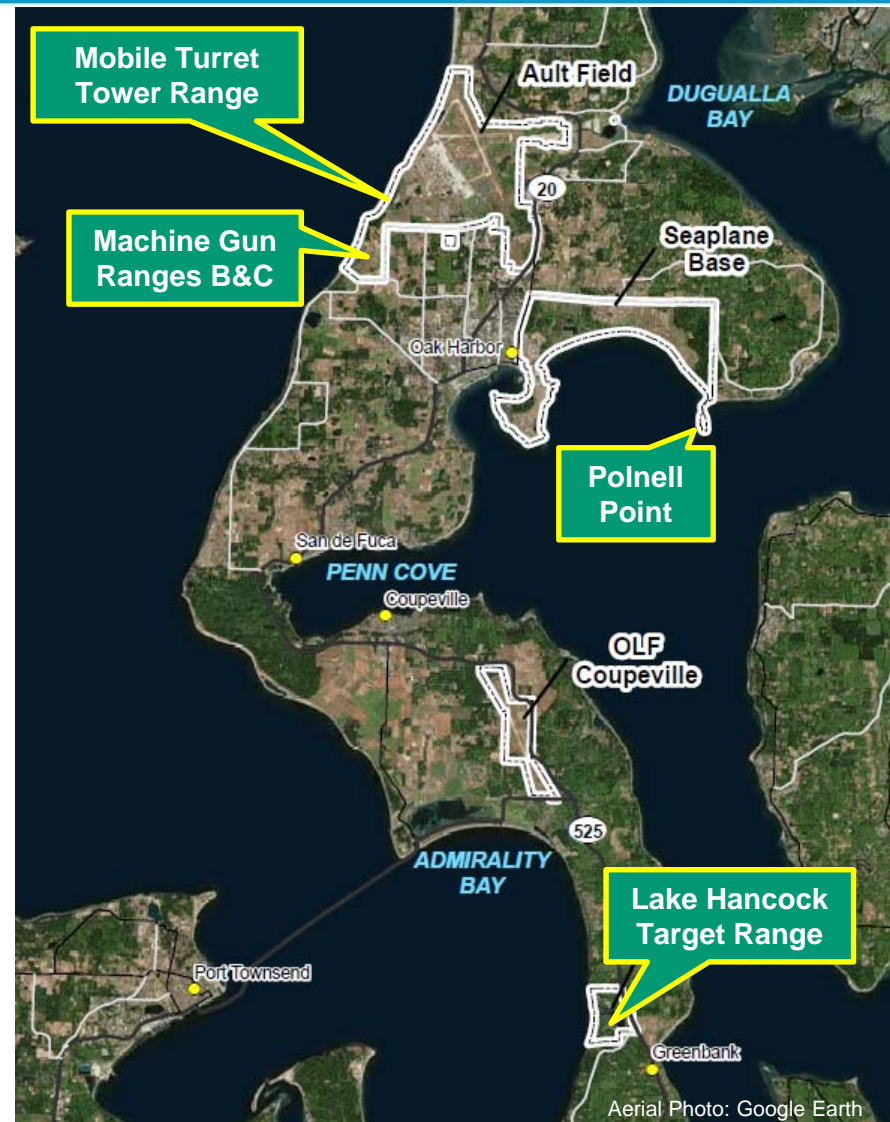
Laura Himes, P.E.

Primary Subject Matter Expert:

Chris Generous, L.G.



Military Munitions Response Program Update



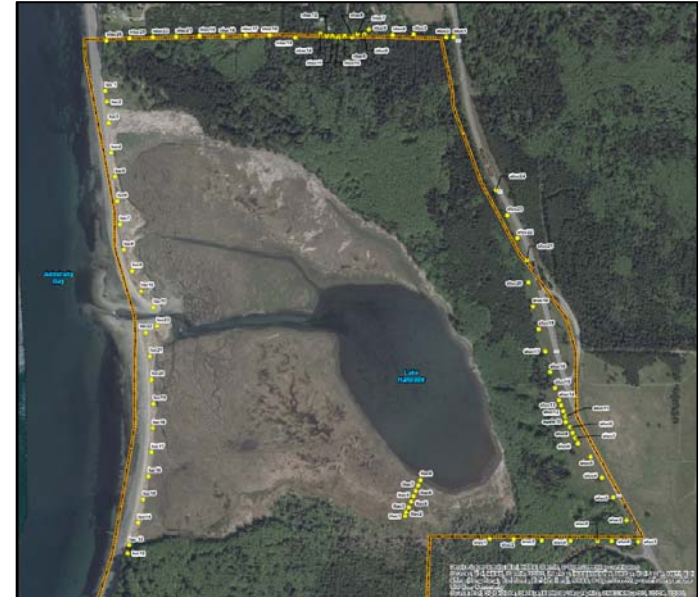


Lake Hancock Target Range



Work conducted since last RAB...

- 2020 Removal Action
 - Repaired 220 feet of fencing
 - Installed 5 additional signs
- Surface Removal (28.7 acres)
 - 168 munition anomalies identified, all "Material Documented as Safe"
 - Example item: Expended 2.75" practice warhead





Lake Hancock Target Range



Work planned before next RAB...

- Reporting:
 - Finalize 2020 Surface Clearance Completion Report

Future work planned...

- Land use controls, including:
 - Annual inspection and 2021 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.

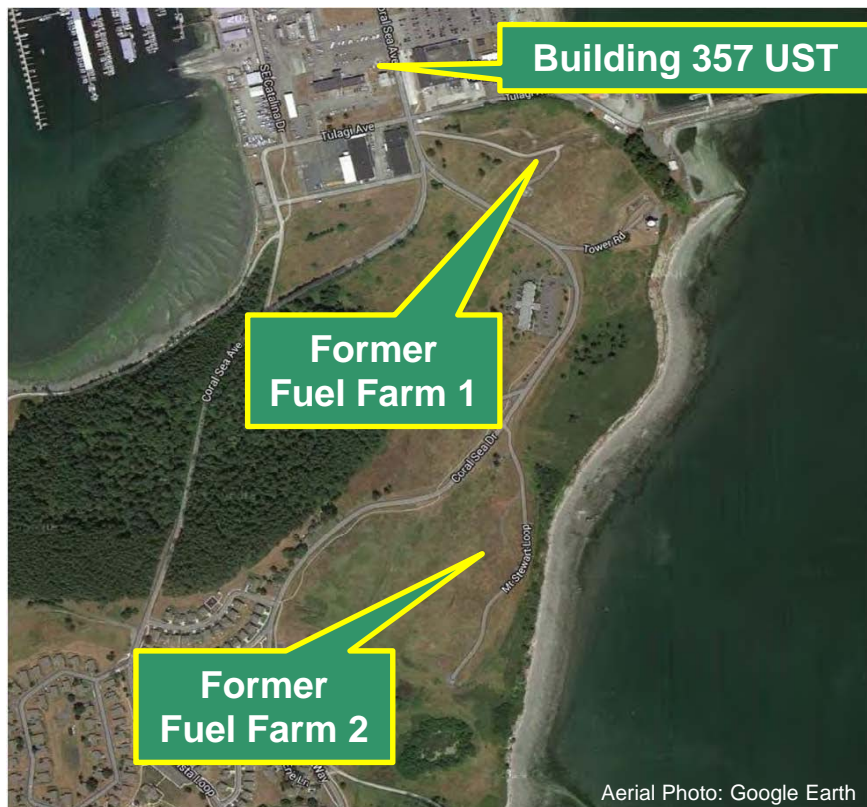


State Petroleum Program Update



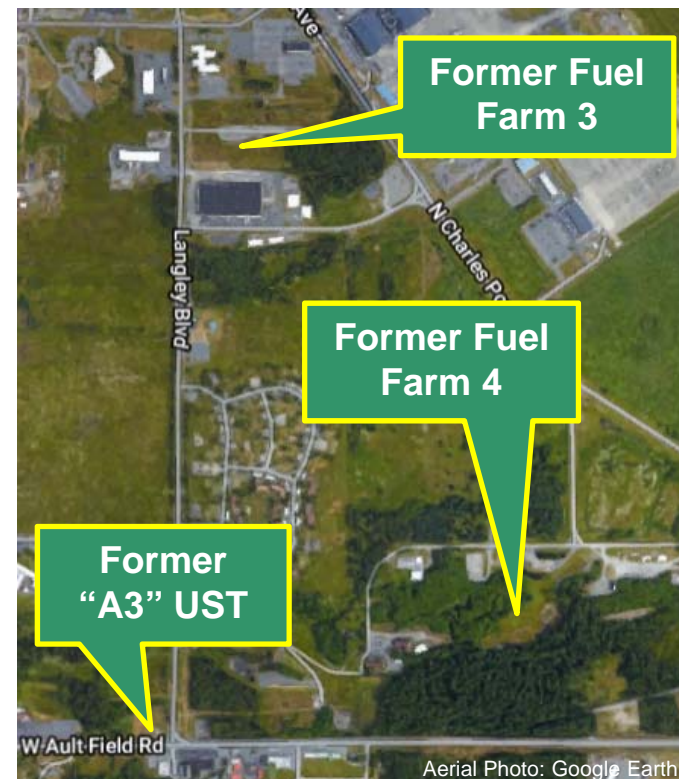
Work conducted since last RAB:

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



Work planned before next RAB:

- Free-product recovery and groundwater monitoring/sampling at Fuel Farms
- Excavation at Former "A3" UST, if needed





5 Minute Break

Break



PFAS Drinking Water & Groundwater Investigation Update



Kendra Clubb, P.E.



PFAS Drinking Water Update



Work conducted since last RAB...

- Biannual drinking water well sampling (November 2019 – April 2021)
 - Identified one new drinking water well above EPA health advisory
- Continued to provide bottled water or point of use treatment for homes with PFOS/PFOA exceedances (36 homes total)
- Long-term solution in Coupeville
 - Completed 2 of 3 segments of new water main & associated 7 of 10 service line connections (March 2020)
 - Completed PFAS Water Treatment Plant (WTP) (January 2021)
 - Developed Draft PFAS WTP Operations & Maintenance (O&M) Manual
 - Initiated Cooperative Agreement with Town for PFAS WTP O&M
 - Revised design for last segment of new water main



Coupeville Water Main Extension & Service Line Connections



New pavement on Keystone Hill Road after water main installation (photo above)



Placing new water main on State Route 20 (photo above)



Backflow preventer and water meter at service line connection (photo to left)



Coupeville WTP Extension & PFAS Treatment



Outside of new WTP
(photo above)



Inside new WTP with
new granulated activated
carbon vessels and pipe
(photo above)



Inside existing WTP with new
pipe, electrical conduit, and
hydropneumatic tanks (photo
to left)



PFAS Drinking Water Update



Work conducted since last RAB...

- Long-term solution in Oak Harbor (near Ault Field and Area 6)
 - Solutions evaluated: New drinking water well, point-of-entry well treatment, & connection to Navy or public water supply.
 - Finalized Engineering Evaluation and Cost Analysis
 - Public comment: November 9, 2019 – December 9, 2019
 - Finalized Action Memorandum
 - Public comment: July 18, 2020 – August 18, 2020
 - Award design/construction task order (September 2020)
 - Work Plans/Design under development



PFAS Drinking Water Update



Work planned before next RAB...

- Fall 2021 biannual drinking water well sampling
- Long-term solution in Coupeville
 - Finalize PFAS WTP O&M Manual
 - Finalize Cooperative Agreement with Town for PFAS WTP O&M
 - Complete revised design for last segment of new water main
 - Award new task order for new water main; start work plans (construction planned in 2022)
- Long-term solution in Oak Harbor (near Ault Field and Area 6)
 - Finalize Work Plans/Design
 - Construction summer 2021



PFAS Groundwater Investigation Update

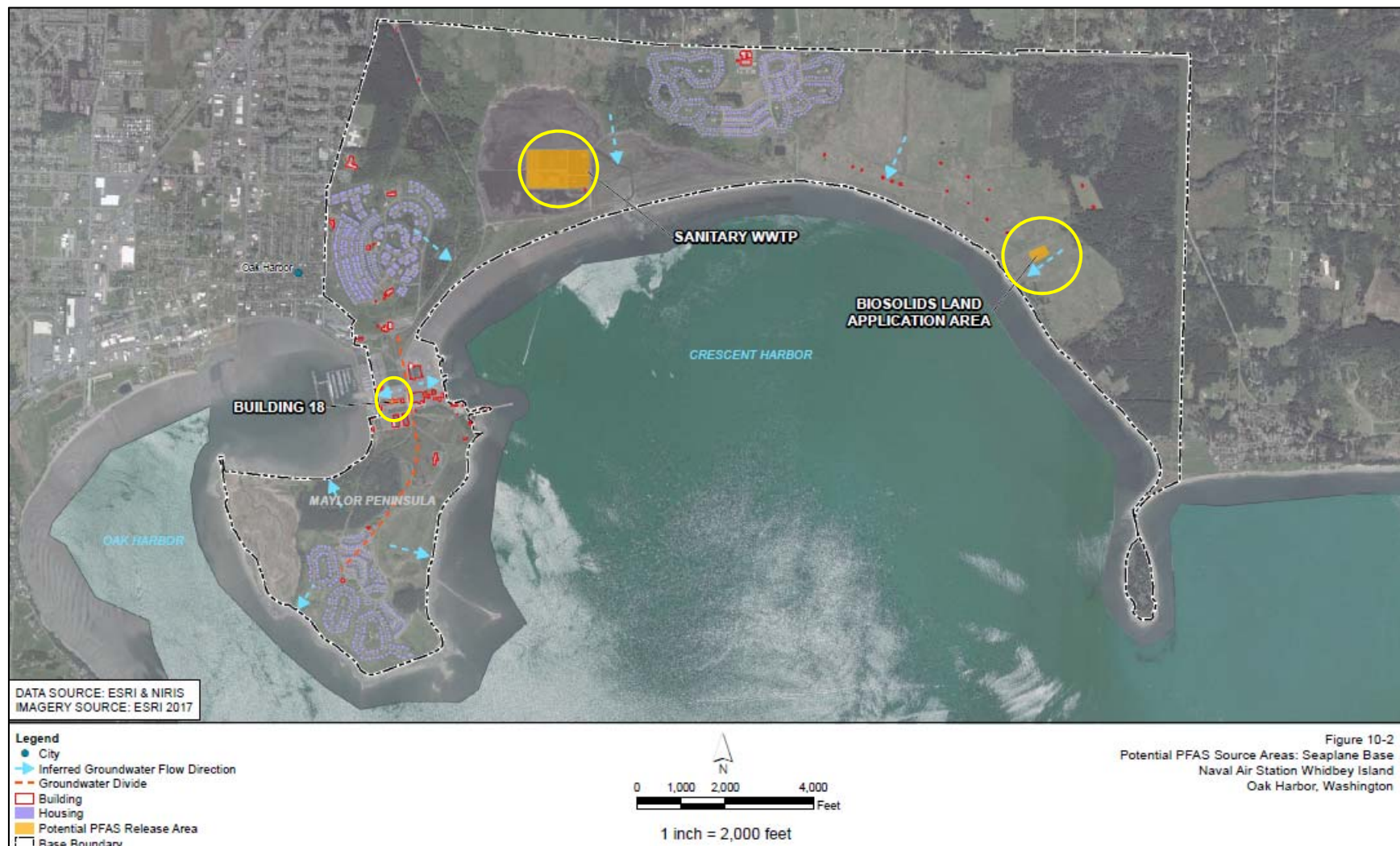


Work conducted since last RAB...

- Ault Field:
 - Completed work plans and field work for Phase 2 of Ault Field Site Inspection (SI); report pending
 - Started work plans for Area 31 Remedial Investigation (RI)
- Seaplane Base:
 - Completed work plans and field work for PFAS SI
- OLF Coupeville:
 - Completed work plans and field work for Phase 2 of OLF Supplemental SI; report pending
 - Started work plans for OLF RI (on-base and off-base evaluation)
- NAS Whidbey Island “Specialty Areas”:
 - Started PFAS evaluation/Preliminary Assessments for Boardman Range, Racon Hill, Lake Hancock, & Coos Head/Bay



Seaplane Base PFAS SI





Seaplane Base PFAS SI

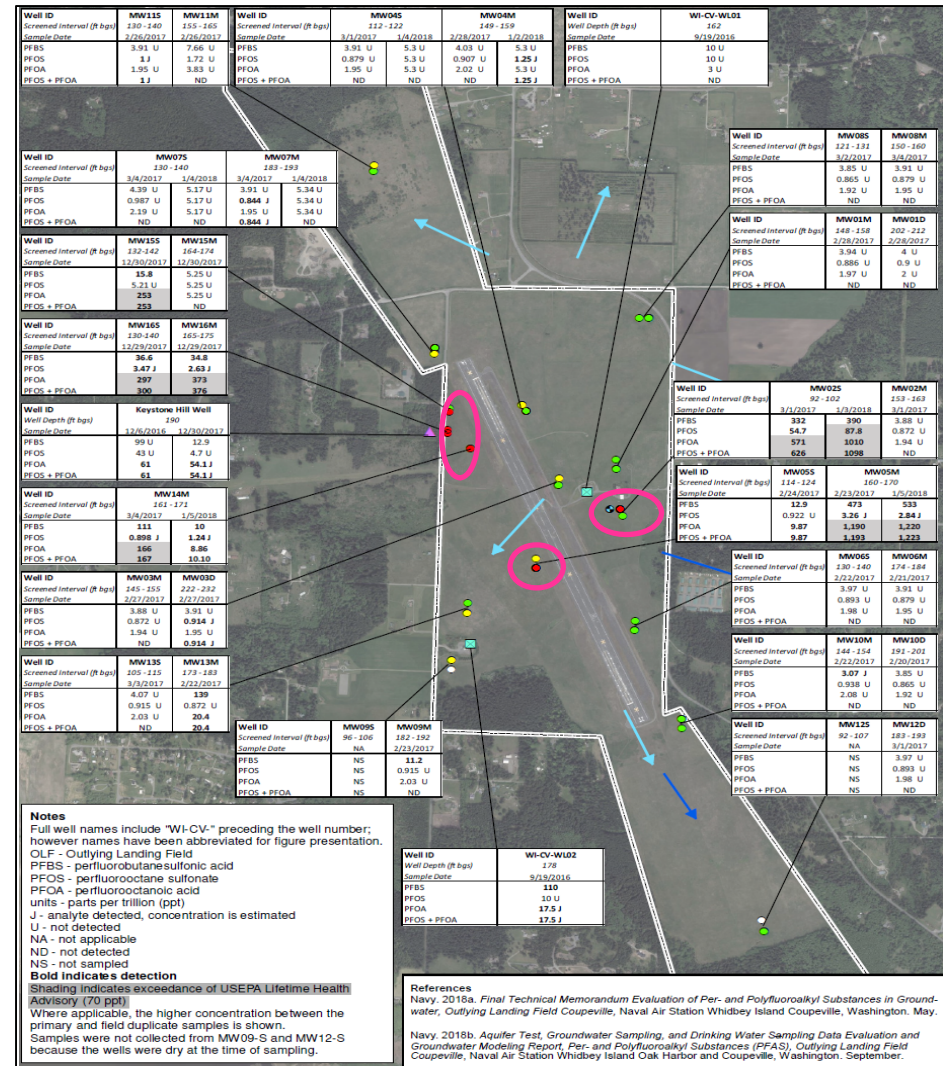




OLF Coupeville PFAS Site Inspection (SI) & Remedial Investigation (RI)



- **Phase 1 & 2 SI: complete (see figure)**
 - Initial SI
 - Aquifer test near Keystone Well
- **Phase 3 SI: report pending**
 - Source evaluation
 - Data gap collection
 - Updated groundwater model & PFAS transport model
- **Phase 1 RI: work plans pending**
 - On-base and off-base delineation
 - Risk evaluation
 - Field work planned winter 2021/2022





PFAS Groundwater Investigation Update



Work planned before next RAB...

- Ault Field:
 - Finalize Ault Field Phase 2 SI Report
 - Finalize Area 31 RI Work Plans
 - Award contract for Current Fire Training Area and Area 6 Landfill RI
- Seaplane Base:
 - Draft SI Report
- OLF Coupeville:
 - Finalize OLF Supplemental SI Report and Addendum
 - Finalize OLF RI Work Plans
- NAS Whidbey Island “Specialty Areas”:
 - Complete PFAS evaluation/Preliminary Assessments for Boardman Range, Racon Hill, Lake Hancock, & Coos Head/Bay



2021 NDAA – Section 335 - Agricultural Operation Notifications



- **NDAA = National Defense Authorization Act**
- **Section 335: Requires DoD to notify agricultural operations in areas near DoD confirmed PFAS release**
 - Operations within one mile down gradient of installation
 - All operations' addresses provided by US Department of Agriculture
 - PFOS and PFOA trigger for notification = 70 parts per trillion
 - PFBS trigger for notification = 40,000 parts per trillion
- **NAS Whidbey Island processed 73 letters**
 - 50 letters near Ault Field/Area 6
 - 23 letters near OLF Coupeville



5 Minute Break

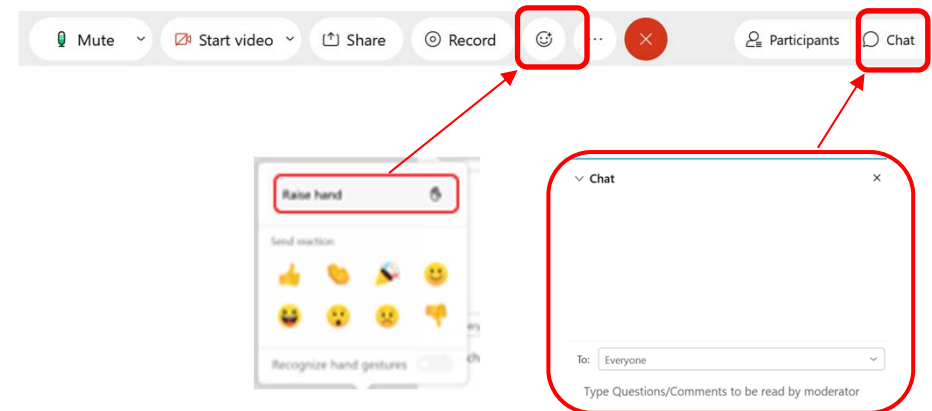
Break



Community Comments



- **Everyone is on Mute**
 - “Raise Hand” or Chat to the Host to Unmute Your Audio Line
 - Individual Phone Lines will be unmuted (one at a time)
 - State Your Name and Question
- **Questions will be answered in sequential order**
- **2 minute limit**
- **Please be succinct**



WebEx Overview

- **Use the “Chat Box”**
 - type question at any time
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New Community Co-Chair & RAB Member Vote



- New RAB Member Vote
- New Community Co-Chair Nominations/Vote



Action Items/Next RAB



- **Action Items**
- **Next RAB ~ Fall 2021**



THANK YOU



**Thank you for attending the
May 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