



# **Naval Air Station Whidbey Island Restoration Advisory Board Meeting October 23, 2019**



# Agenda



**5:00 – 5:10**

**Welcome and Introductions**

**5:10 – 5:25**

**Overview**

- **The Newly signed RAB Charter**
  - RAB Charter and Purpose
  - Ground Rules
- **Administrative Items**
  - Approve RAB Meeting Minutes
  - April 2019 RAB Action Items

**5:25 – 6:20**

**Environmental Restoration Program Overview/Update**

- **CERCLA Five Year Review**
- **Area 6 Landfill Update**
- **Military Munitions Update**
- **State Petroleum Sites Update**
- **PFAS Update**

**6:20 – 6:50**

**Community Comments**

**6:50 – 6:55**

**Action Items**

**6:55 – 7:00**

**Next Meeting Date and Agenda Topics**



# Implementing the RAB Charter



- **RAB Meetings are structured similarly to city council meetings**
  - Advisory board members will begin using the Roberts Rules of Order which allows for voting on actions
  - Seating RAB members together facilitates discussion amongst the RAB members
- **Advisory board members are a conduit of information between the community and the Navy.**
  - Encourage community members to relay concerns and questions to RAB community Co-Chair and/or RAB community members. This facilitates our discussion and helps us disseminate information more effectively.



# Implementing the RAB Charter (cont.)



- **Navy is working to increase communication with all RAB members by:**
  - Conducting technical meetings to discuss technical reports in greater depth
    - First technical meeting held July 2019
  - Providing regular updates; and,
  - Providing needed technical education seminars to assist RAB members in understanding technical documents.



# 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/>



# Overview of RAB Roles



## Restoration Advisory Board Members:

### *Non-voting board members:*

- Navy Co-Chairs – Melanie Bengtson and Kendra Leibman (Page 3 of Charter)
- Representatives from EPA (Chan Pongkhamsing) and Ecology (Sandra Caldwell, Ben Forson, Ronnie Jackson)
- Local government - Island County Health Department (Doug Kelly)

### *Voting board members:*

- Community Co-Chairs (Page 4 of Charter)
- Elected RAB members (Page 4 of Charter)
- Co-chairs conduct the meetings to maintain order.

**A facilitator may be appointed by the Navy Co-chairs to enhance meeting effectiveness – not a RAB member.**

## Public:

- Public comments and concerns are most efficiently addressed by directly communicating with RAB Co-chair and/or other community RAB members. These concerns will be brought to the entire board.
- Anyone may attend and make comments and observations on the Navy's environmental restoration program during the 'community' concerns portion of the meeting.



# General Ground Rules



- **Please turn cell phones off or to vibrate.**
- **If you must take an urgent call, please take the call outside the room.**
- **Be respectful of others.**
- **Please talk one at a time and wait to be recognized by a Co-Chair.**
- **Please limit side conversations.**
- **Be patient when listening to others speak and do not interrupt them please.**
- **Please stay on topic, while limiting conversation to agenda topics.**
- **Please address any concerns about the discussion or the meeting with the Co-Chairs.**



# Ground Rules – Addressing Public Questions



- **Advisory Board member questions will be addressed after each presentation topic**
- **Following the presentations, there will be a community comment/concern segment. Public questions will be addressed during this time.**
- **To make sure everyone has an opportunity to speak, requesting each individual is limited to 3 minutes of public questions.**
- **To help our stenographer capture information for the record:**
  - **Microphone stand will be at front for questions.**
  - **Please state name prior to question.**
- **If additional questions remain after 7 pm, they can be addressed one on one with the Navy following the meeting.**





## Administrative Items



- **Approve RAB Meeting Minutes**
  - **Requires RAB Member vote**
- **April 2019 RAB Action Items - Handout provided**



# NAS Whidbey Island Environmental Restoration Sites





# CERCLA Program Five Year Review (FYR)



- **Final Fifth CERCLA FYR has been completed and signed (on website)**
- **EPA concurred with the Navy protectiveness statements**

## **Requirement:**

- Ensure that the remedial actions selected in the Record of Decisions (RODs) for Operable Units (OUs) 1, 2, 3, 4 and 5 remain protective of human health and the environment.
- ***Note OLF is not part of this because there is no remedial action/Record of Decision (ROD) yet.***





# CERCLA Program FYR Protectiveness Statements



## Protectiveness evaluations and statements

- Remedies at OU 1 Area 5, OU 3, OU 4, and OU 5 Areas 1 and 52 remain protective of human health and the environment.



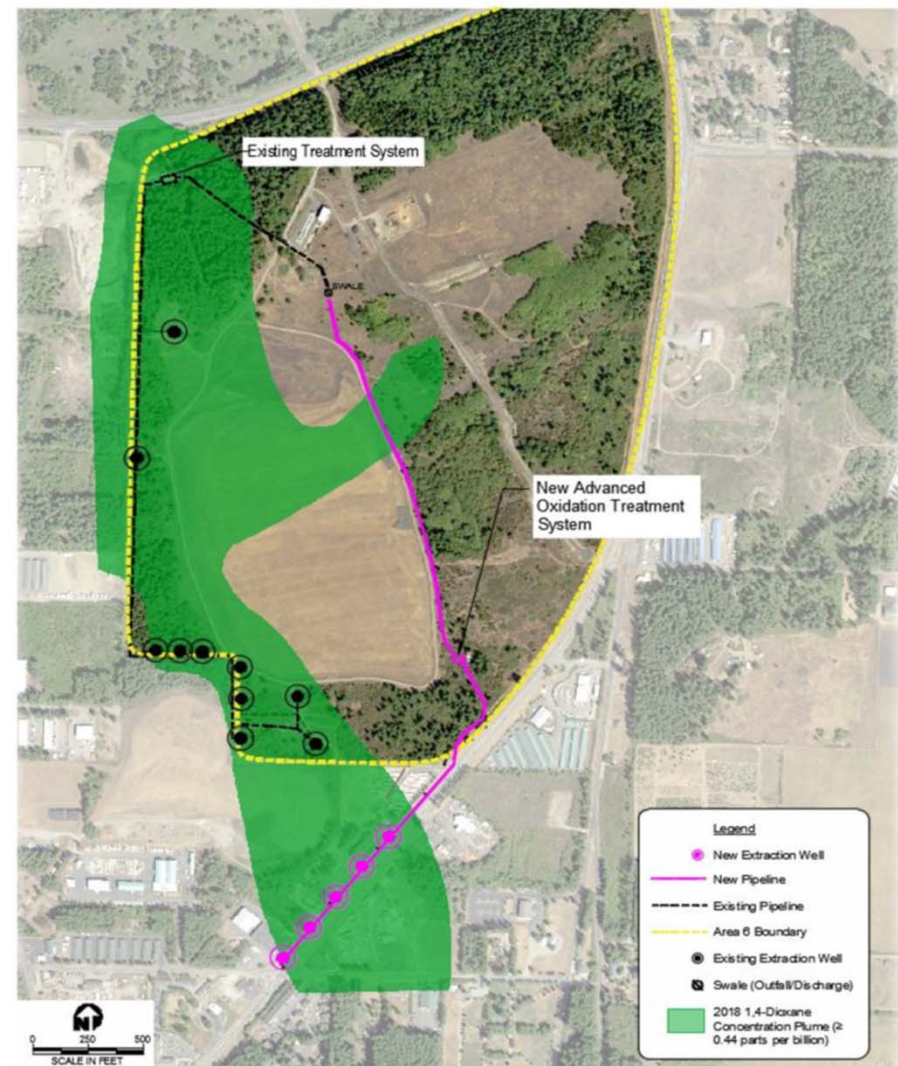


# Five Year Review (FYR) Protectiveness Statements



## Protectiveness evaluations and statements

- The remedy at OU 1 Area 6 is **Short-Term Protective**.
  - Implement ROD Amendment for 1,4-dioxane.







# Five Year Review (FYR) Protectiveness Statements



## Protectiveness evaluations and statements

- **The remedies at OU 2 and OU 5 Area 31 are Short-Term Protective.**
  - PFOS and PFOA in these areas could impact the future protectiveness of the remedy.
  - On-going PFAS investigations and evaluations
  - Next FYR to determine if the current remedies will continue to be protective with respect to PFAS in the future.





# Recommendations and Follow-up Actions from this Fifth Five-Year Review



## OU 1 Area 6

- Update the Land Use Control (LUC) Implementation Plan
  - increase frequency of checking well installation/groundwater use via the Island County Public Health Hydrogeology Datasystem to ensure that there are no potential groundwater use receptors.
- Implement the ROD Amendment

## OU 2 and OU 5 Area 31

- Next FYR to determine if the current remedies will continue to be protective with respect to PFAS in the future.



# **CERCLA Program Area 6 Landfill**



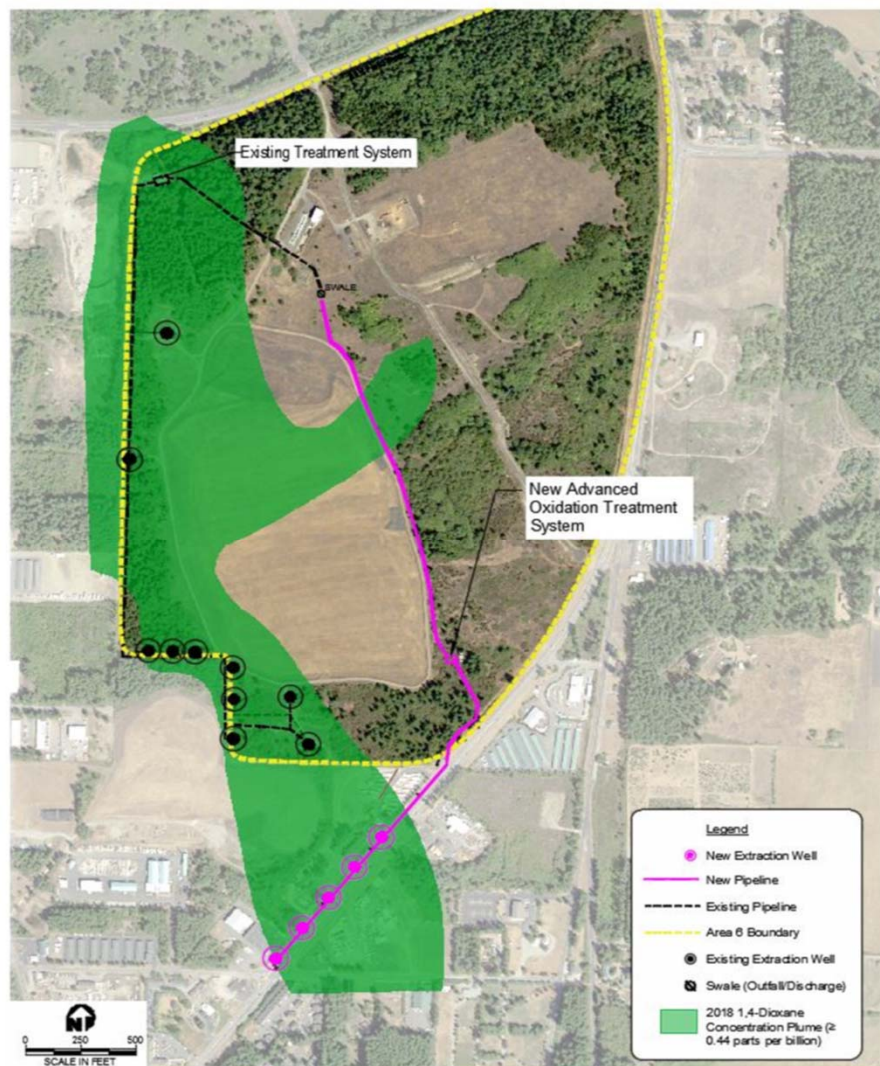
## **Work conducted since last RAB...**

- **Finalized ROD Amendment**
  - Both EPA and Captain Army signed
  - On RAB Website
- **Contract award for Southern Advanced Oxidation Groundwater Treatment Plant**
- **Routine Remedial Action Operation Related**
  - Performed LUC inspections
  - Conducted on-going groundwater treatment system and landfill maintenance and operation
  - Conducted fall groundwater monitoring





# Area 6 - ROD Amendment Summary



## Area 6 –1993 Record of Decision (ROD)

- Landfill Cap
- Current GW Treatment System for chlorinated solvents
- Groundwater monitoring
- Land Use Controls (LUCs)

## 1,4-dioxane

- Emerging contaminant 1,4-dioxane was discovered in 2003, current groundwater system 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.



## **CERCLA Program Area 6 Landfill**



### **Work planned before next RAB...**

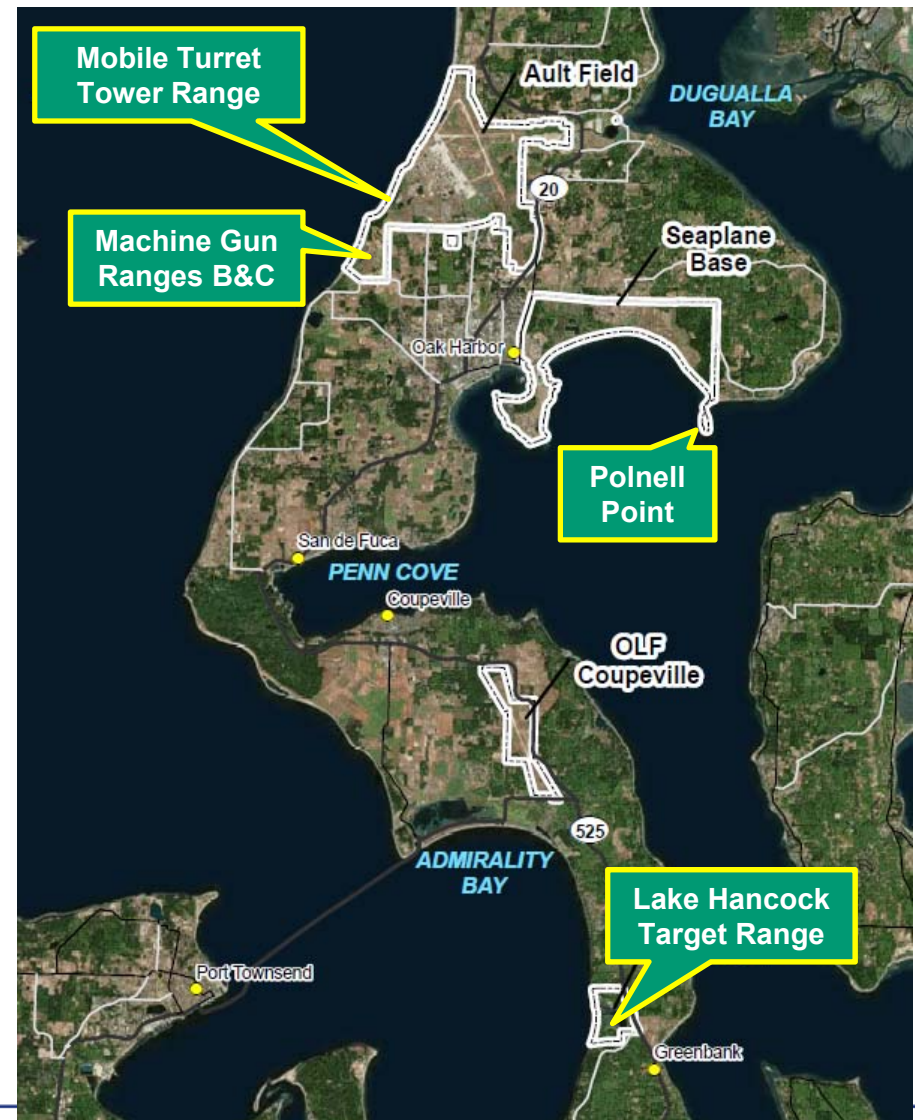
- **Work Plans for Southern Advanced Oxidation Groundwater Treatment Plant Construction**
- **Working on securing real estate agreements with WSDOT/City of Oak Harbor for Southern groundwater treatment plant**
- **Remedial Action Operation Related (VOCs)**
  - **Continue on-going groundwater treatment system and landfill maintenance and operation**



# Military Munitions Response Program



- **Work planned before next RAB...**
  - **Reporting:**
    - Lake Hancock Remedial Action Construction Report
- **Future work planned...**
  - **Land use controls**
  - **Lake Hancock specific:**
    - Annual and/or five-year inspections and surface removal of munition debris (if required) around target area
    - Repair/fix signage and fencing







# Petroleum Restoration Program Update

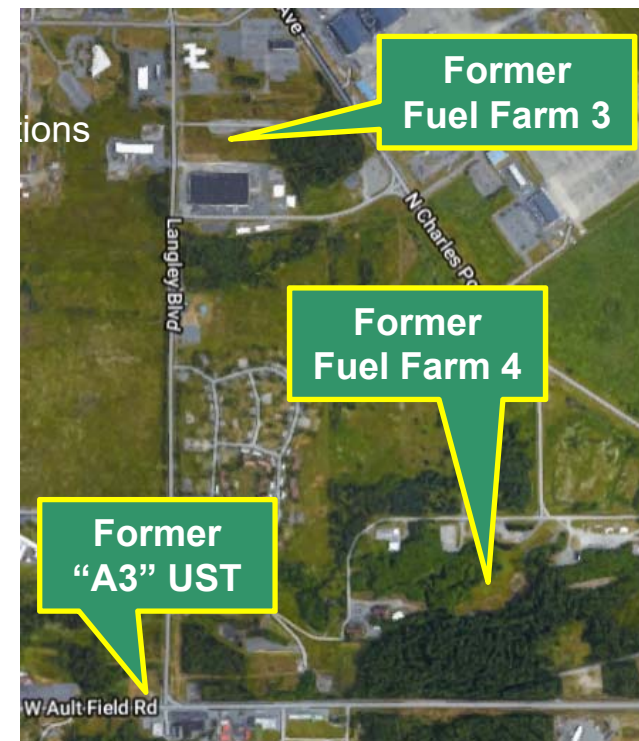
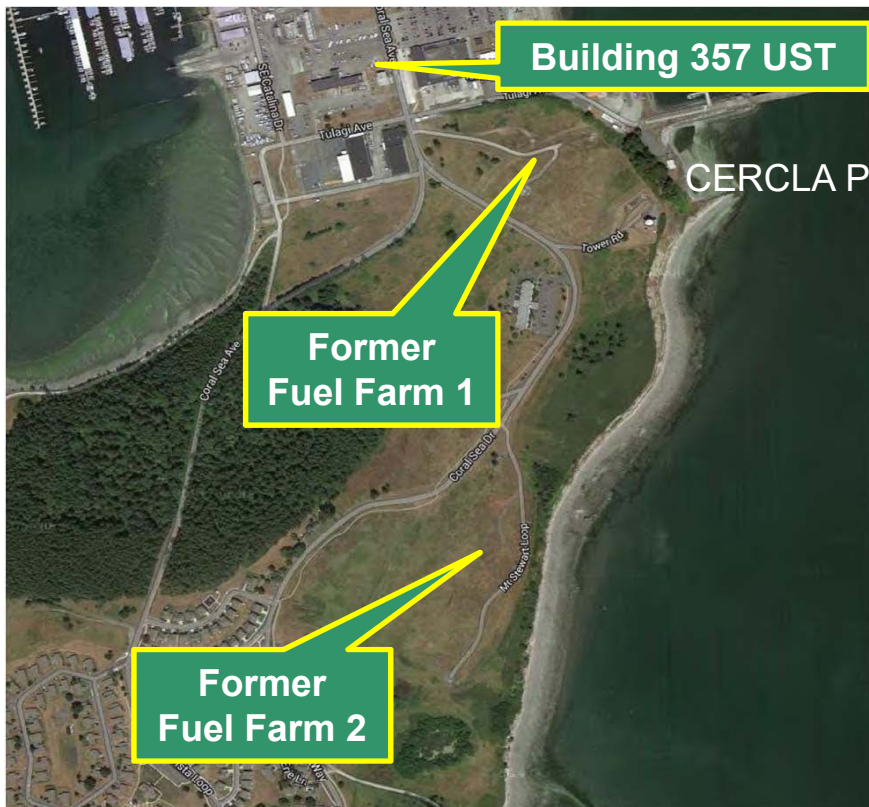


## Work conducted since last RAB:

- Continued free-product recovery and groundwater monitoring/sampling
- Planning for "A3" UST follow-on work

## Work planned before next RAB:

- Free-product recovery and groundwater monitoring/sampling at Fuel Farms
- Award of "A3" UST follow-on work





# PFAS Drinking Water



## Work conducted since last RAB...

- **Off-Base Residences**
  - April 2019 biannual drinking water sampling event complete
  - Continued to provide bottled water to homes with PFOS/PFOA exceedances
  - **Long-term solution in Coupeville**
    - New granulated activated carbon (GAC) treatment system online (July 2019)
    - Continue construction of GAC treatment system building extension
    - Began water main construction (Oct 2019)
  - **Long-term solution in Oak Harbor near Ault Field (including Area 6)**
    - Draft Engineering Evaluation/Cost Analysis (EE/CA) complete
    - Draft Final EECA will be available for public comment in October/November at Oak Harbor Library



# PFAS Drinking Water



## Work planned before next RAB...

- **Off-Base Residences**
  - **October 2019 biannual drinking water sampling event**
  - **Long-term solution in Coupeville**
    - Complete GAC treatment system building extension
    - Complete water main and service line construction
  - **Long-term solution in Oak Harbor near Ault Field (including Area 6)**
    - Finalize Engineering Evaluation/Cost Analysis (EE/CA)
    - Publish Action Memorandum based on EE/CA for public comment
    - Finalize Action Memorandum
    - Start contract process for design and construction of selected long-term solutions





# Coupeville PFAS Treatment System Progress



East side of new building extension (photo 1)



West side of new building extension (photo 2)



Photo 3

Four GAC vessels (two trains) (photo 3)



Photo 4

Existing treatment plant building with new piping, conduit, and hydropneumatic tanks (photo 4)



# PFAS Groundwater Investigation



## Work conducted since last RAB...

- **Completed draft work plans for full Ault Field Site Inspection (SI) (includes well installation near runways, aprons, and other areas of interest)**
- **Completed internal draft work plans for Seaplane Base SI**
- **Completed work plans for OLF Supplemental Site Inspection**
- **Started and continue to conduct OLF Supplemental SI field work**





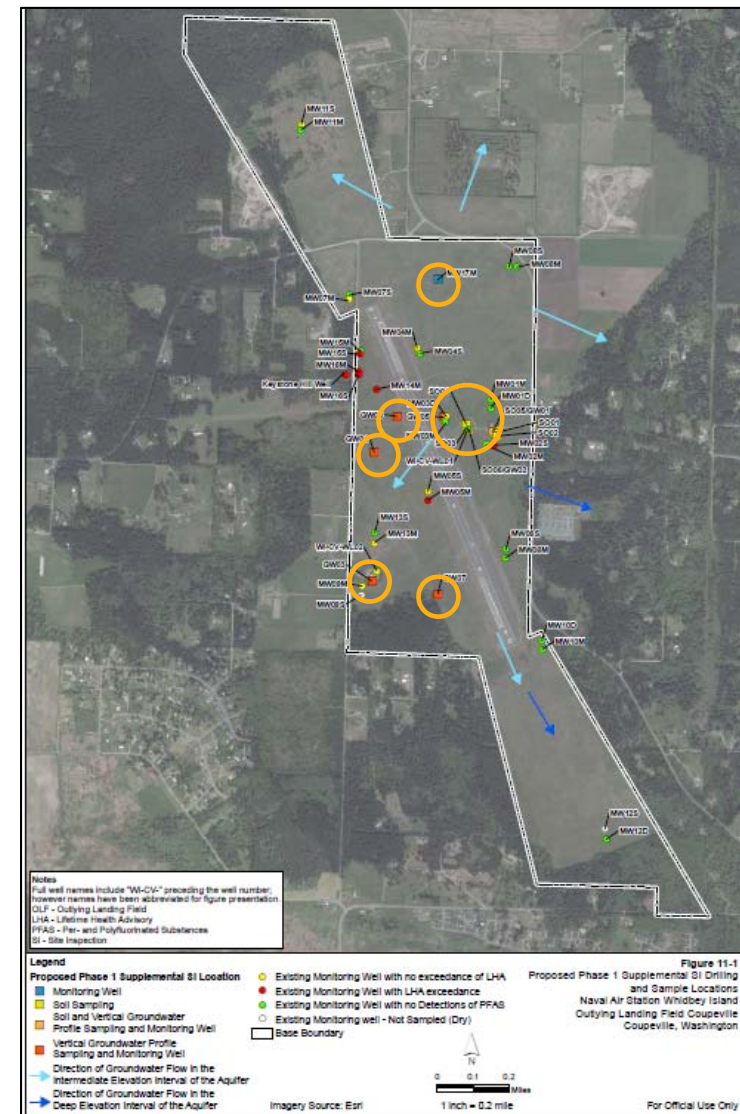
# PFAS Groundwater Investigation



## OLF Coupeville Supplemental SI:

- Refine groundwater model and PFAS 'plume(s)' location on- and off-base
- Three phases of work: 15 new monitoring on-base and 3 new monitoring wells off-base
- Started discussions with property owners to obtain necessary land access agreements for new Phase 3 off-base wells

○ New monitoring well location for Phase 1





# PFAS Groundwater Investigation



## Work planned before next RAB...

- Complete work plans and start field work for Full Ault Field SI
- Complete work plans for Seaplane Base SI
- Complete Phases 1 and 2 of OLF Coupeville Supplemental SI
- Finalize all land access agreements and start field work for Phase 3 of OLF Coupeville Supplemental SI



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



# Community Input



- **Community Comments/Concerns**
  - April 2019 RAB Action Items - Handout provided
  - Community Co-Chair discussing community feedback
  - Public comments
    - Please use microphone and state your name.
    - To make sure everyone has an opportunity to speak, requesting each individual is limited to 3 minutes of public questions.
- **Action Items**
- **Next Meeting Date, Time and Location**
- **Future Agenda/Discussion Topics**
  - Any topics the RAB would like to hear?
- **Meeting Adjournment**