

“Building and Preserving Alaska’s Future”

AMAKNAK

FORMERLY USED DEFENSE SITE

STATUS UPDATE AND INITIAL RESTORATION ADVISORY BOARD MEETING

Rena Flint, Project Manager
Tom Reed, Project Engineer
Kendall Campbell, Tribal Liaison

U.S. Army Corps of Engineers – Alaska District

19 February 2020



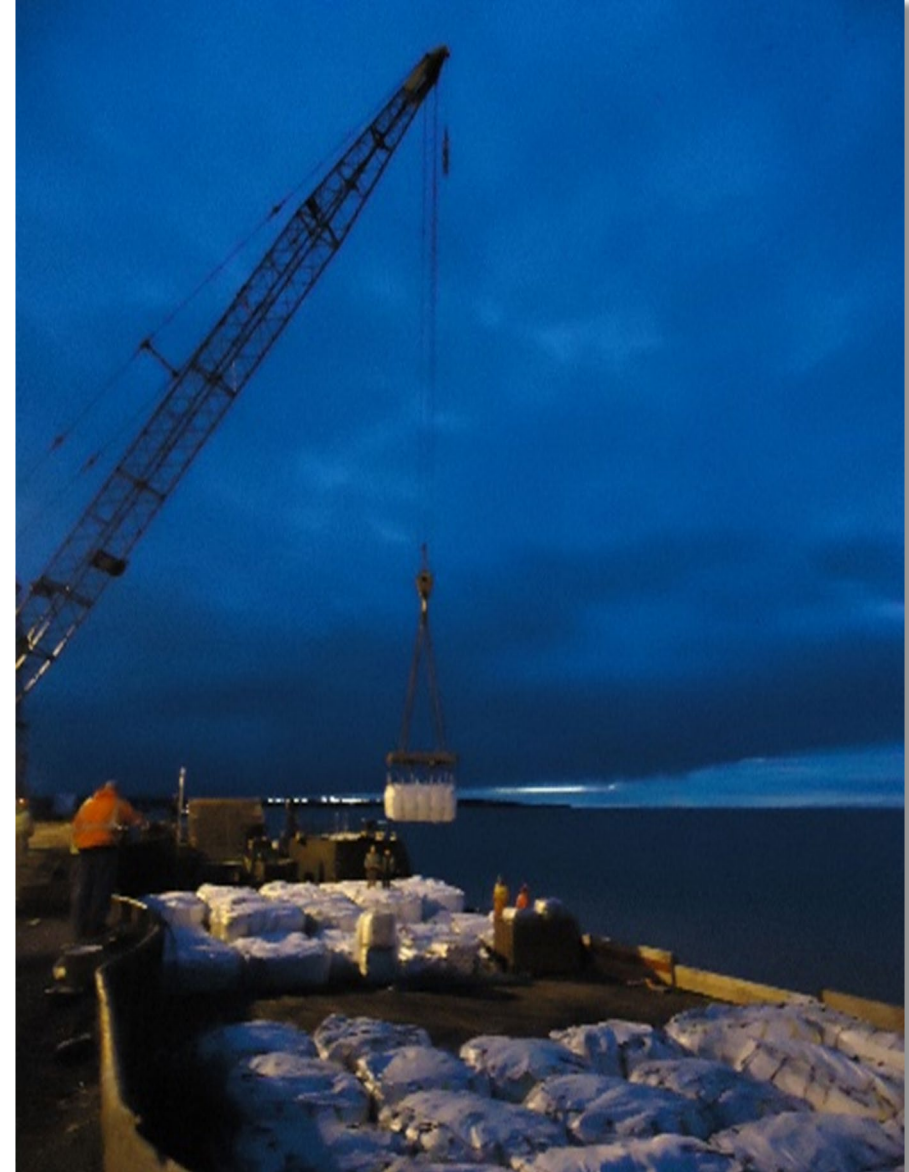
**US Army Corps
of Engineers®**





MEETING AGENDA

- **WELCOME AND INTRODUCTIONS**
- **AMAKNAK FORMERLY USED DEFENSE SITE (FUDS)**
- **RESTORATION ADVISORY BOARD (RAB) INFORMATION**
 - RAB Purpose
 - Responsibilities of RAB Members
 - How to get involved
 - Inducting Members
 - Amaknak FUDS RAB Mission and Operating Procedures
- **PROJECT UPDATES**
 - Information Repository Refresh
 - Pre-World War II Tank Farm Groundwater Monitoring
 - Dutch Harbor Vicinity Removal Actions
 - Interim Risk Management Communication
- **NEXT STEPS FOR ACTIVE PROJECTS**
- **QUESTIONS AND ANSWERS**
- **SCHEDULE NEXT MEETING**
- **CONTACT INFORMATION**





INTRODUCTIONS



- Meeting Attendees
 - Please introduce yourself
 - Name, affiliation, what you're hoping to get out of the meeting
- U.S. Army Corp of Engineers Team
 - Rena Flint, Project Manager
 - Tom Reed, Project Engineer
 - Kendall Campbell, Tribal Liaison
 - Jennifer Anderson, Brice Engineering LLC
 - Erik Dahl, Brice Engineering LLC
 - David Munro, Tetra Tech
 - Maggie Poyant, Tetra Tech
- Alaska Department of Environmental Conservation
 - Rachael Petraeus

*Hello, my
name is...*



TRIBAL COORDINATION



Alaska District Tribal Liaison

What I do:

- Support building and strengthening respect and tribal relationships
- Facilitate cross cultural communication and consultation
- Encourage two-way ongoing dialogue and understanding

Outcomes:

- Establish a relationship first
- Learn Tribe's history
- Learn issues of concern for tribal community
- Understand Individual Tribe's Government Processes and Culture
- Understand Cultural Differences
- Update Tribes about Federal Governmental Processes
- Update Tribes on USACE policies, programs and processes



ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (ADEC)



Our Mission:

Conserve, improve, and protect Alaska's natural resources and environment and control water, land, and air pollution, in order to enhance the health, safety, and welfare of the people of the state and their overall economic and social well being.

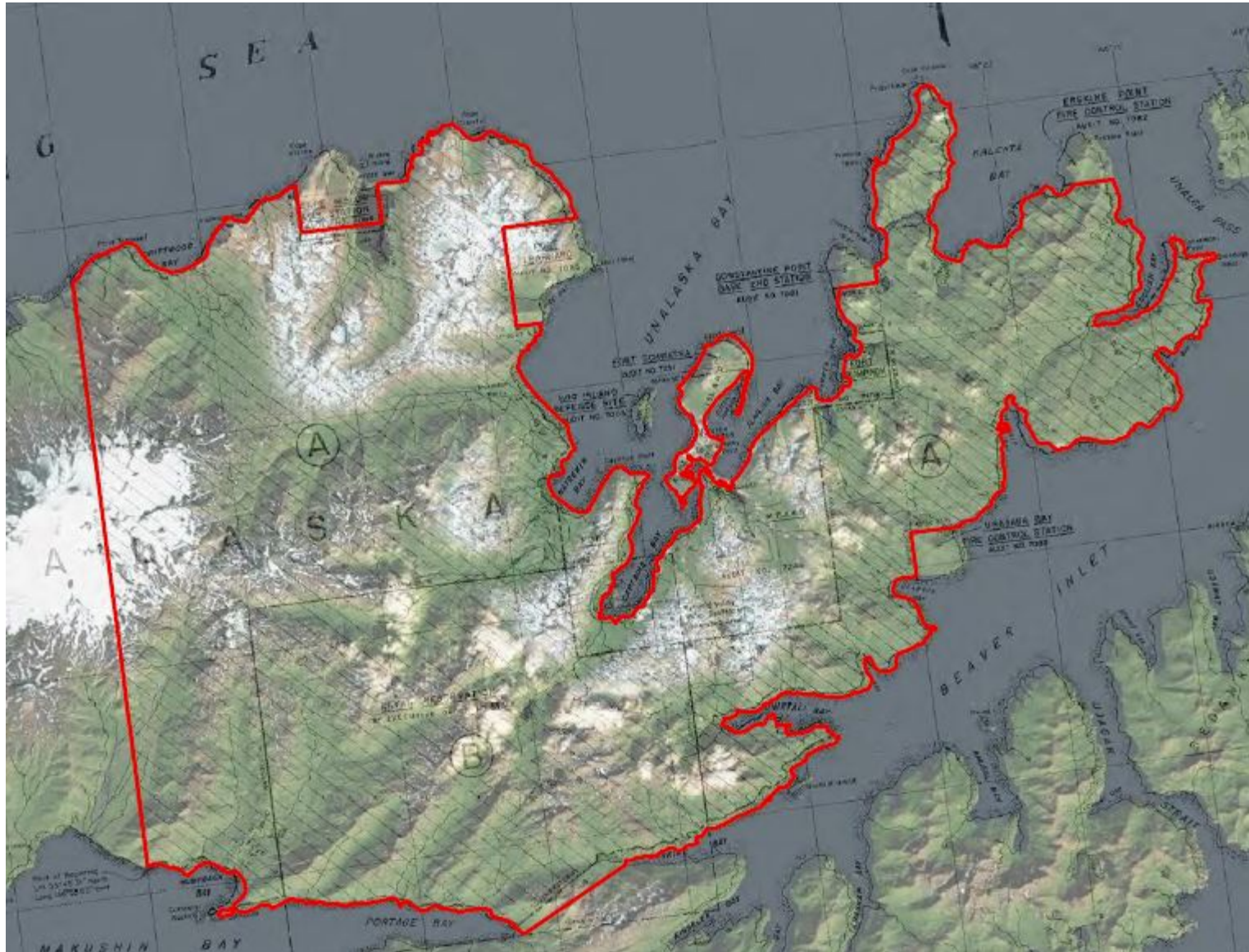
Spill Prevention and Response (SPAR) Division - Contaminated Sites Program - Federal Facility Oversight Section

- **Regulatory Oversight**
 - Ensure protection of human health, safety, welfare and the environment
 - Provide reviews and comments on and approved site characterization, monitoring and cleanup plans that have been implemented.

ADEC Project Manager: Rachael Petraeus
Phone: 907-269-7520
Email: rachael.petraeus@alaska.gov












AMAKNAK FUDS PROPERTY





AMAKNAK FUDS PROJECTS 1986 TO RESPONSE COMPLETE (RC)



PROJECT NAME		TYPE	TIMELINE	Present
01	Work Prior to 1990		1989-1994	
02	Project not used			
03	Pre-WWII Tank Farm		1992-----2008-----RC	
04	Submarine Base/ Ship Repair		1993---2001	
05	Strawberry Hill Landfill		1993---2001	
06	Fort Mears Landfill		1993---2001	
07	Captain's Dock Chemical Agent Disposal	3Rs	1993-----RC	
08	Dutch Harbor Vicinity		1994-----2015---RC	
09	Range Complex No. 1	3Rs	2009-----RC	
10	Unalaska Power Plant Area		2010-2014	
11	Rocky Point Transformers and Pipelines		2010----2017	
12	Petroleum Contaminated Stockpiles		2012-2015	

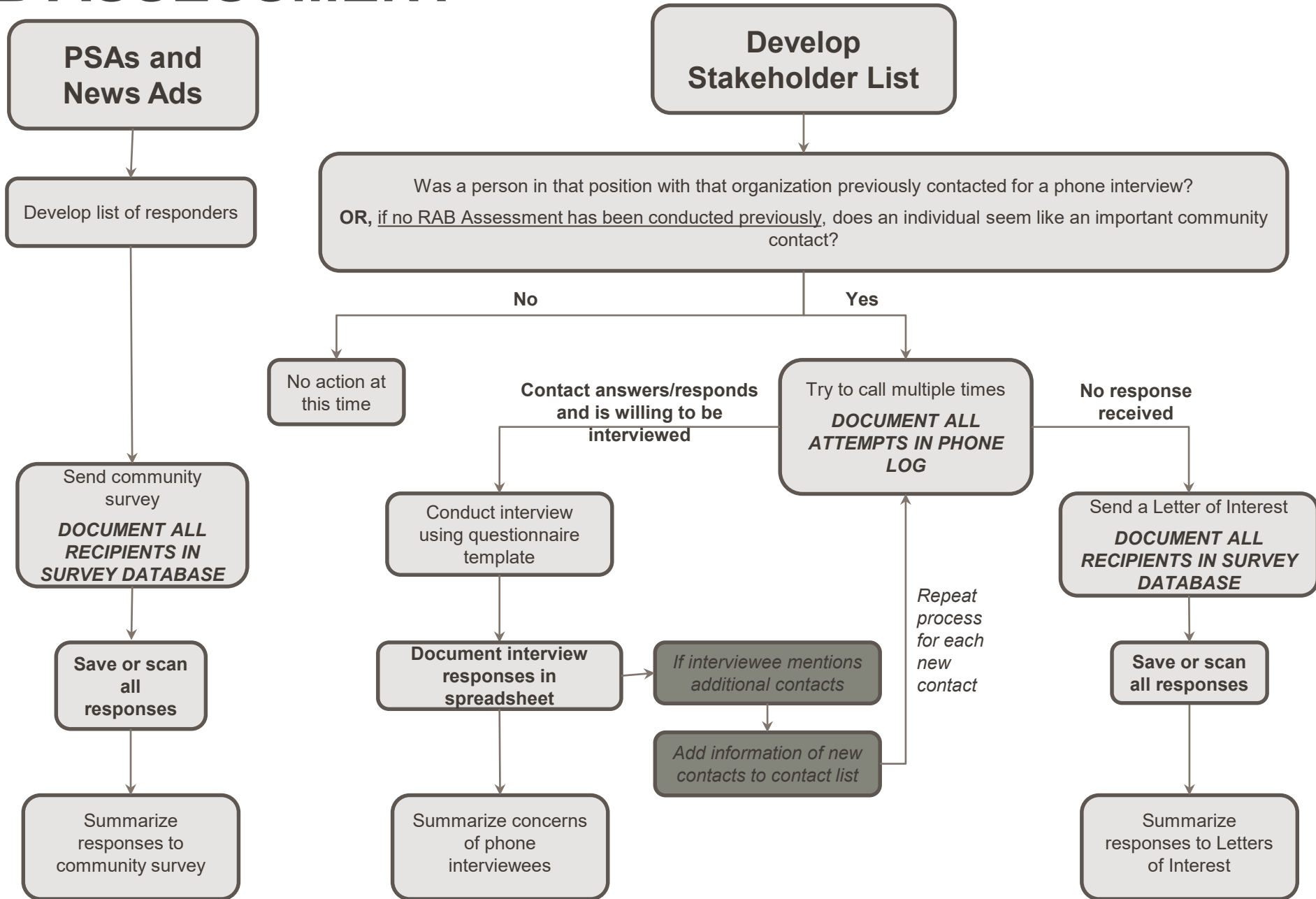


AMAKNAK FUDS RESTORATION ADVISORY BOARD



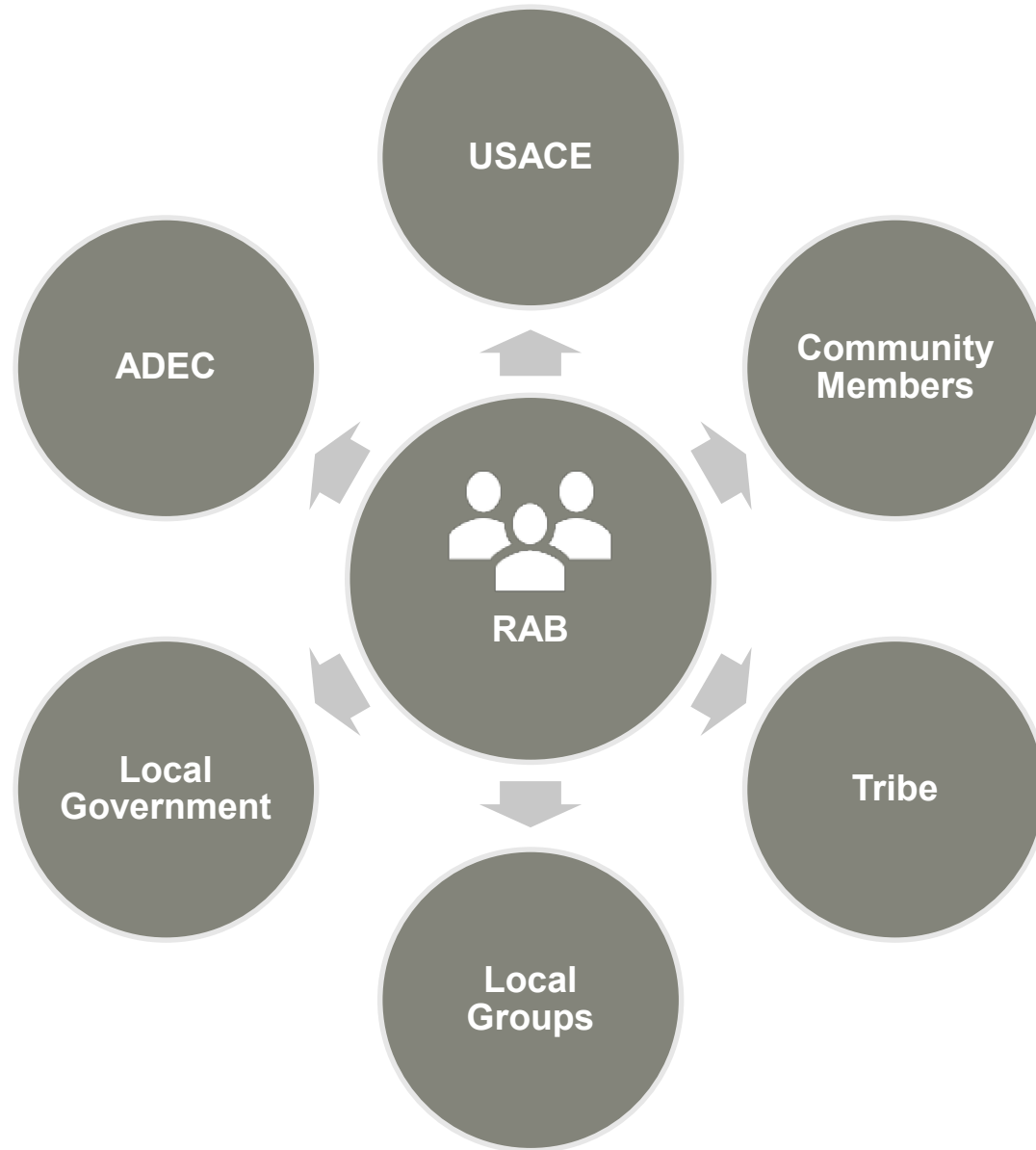


RAB ASSESSMENT



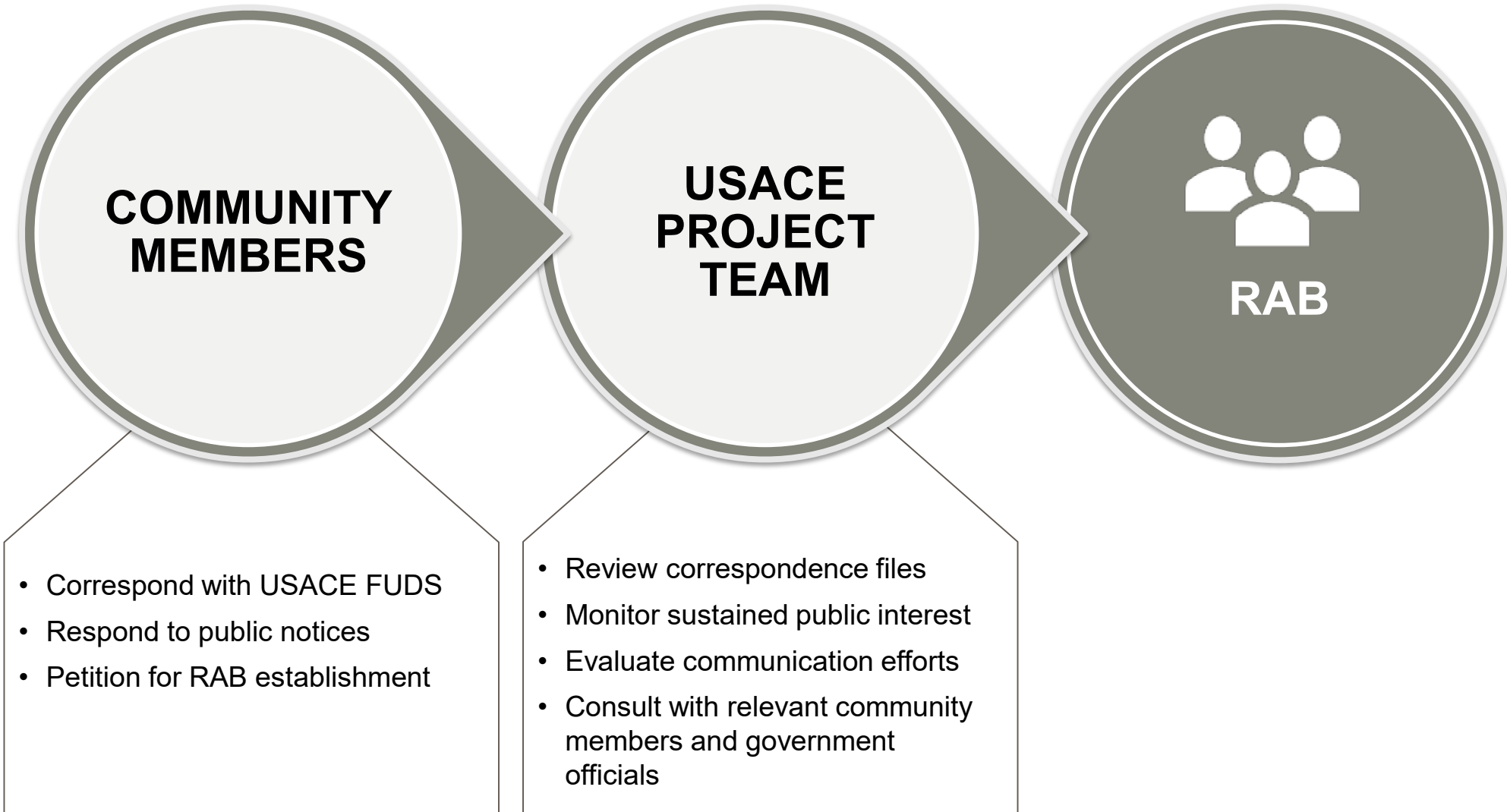


RAB PURPOSE



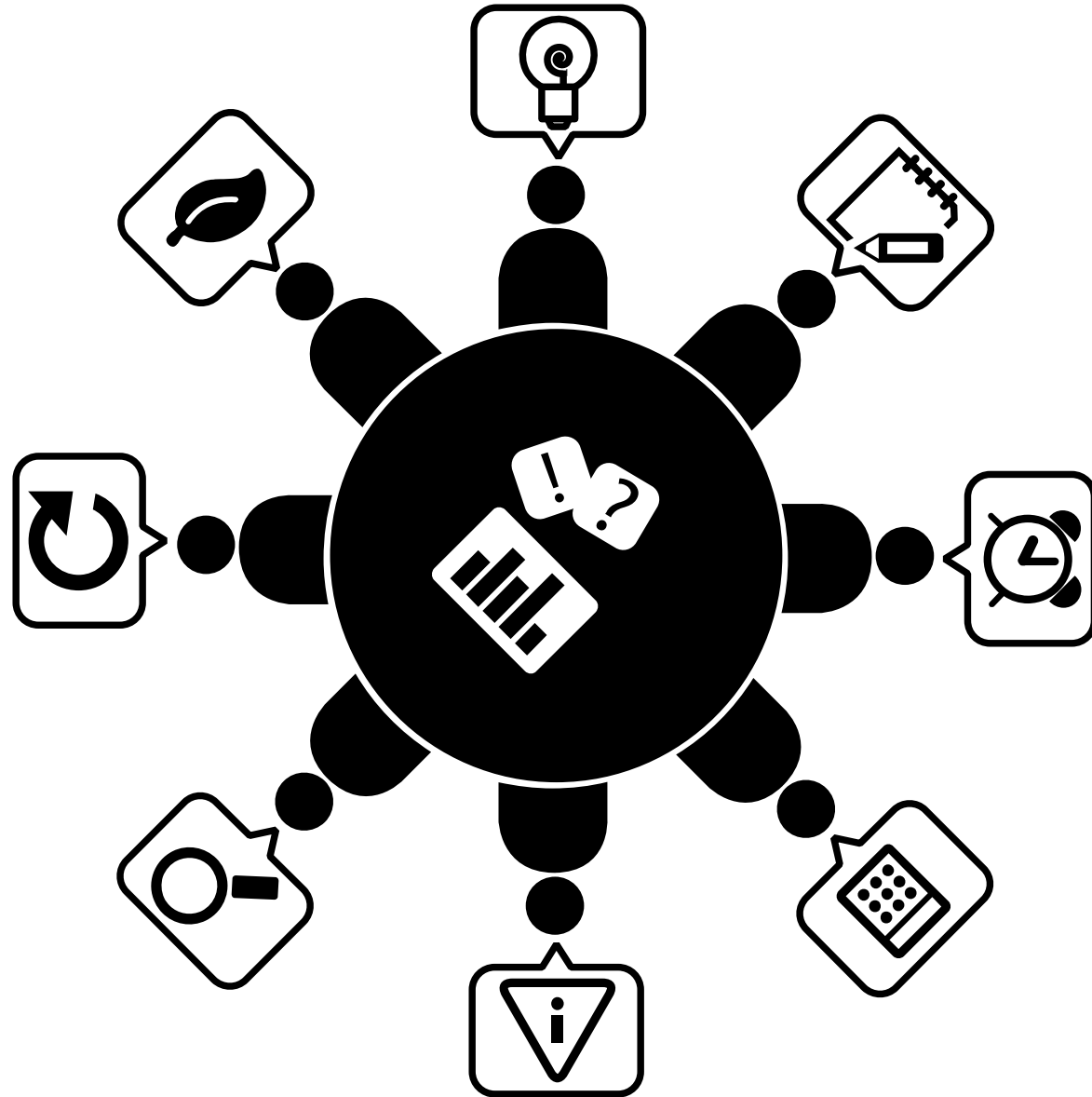


RAB FORMATION





RAB MEETINGS





RAB MEMBER RESPONSIBILITIES



- Regularly review and comment on technical documents and plans relating to the ongoing environmental studies and restoration activities at the Amaknak FUDS property
- Members serve as liaisons with the community and be available to meet with community members and groups
- Membership terms will be decided by the RAB but members typically serve multiple years and attend at a minimum 1 meeting per year





MEMBERSHIP FORMS



MEMBERSHIP FORM

First Name: _____ Last Name: _____
Please identify your affiliation(s) type and name:

- Community Member _____
- Business Representative _____
- Civic Organization _____
- Environmental Organization _____
- Public Agency _____
- Other _____

Mailing Address: _____ City: _____
 State: _____ Zip: _____

Physical Address: _____ City: _____
 State: _____ Zip: _____

Phone: _____ (Day) _____ (Eve)

Email: _____
Explain briefly your interests in serving on the RAB:

DRAFT CONDITIONS FOR MEMBERSHIP

RAB membership duties and responsibilities include reviewing and commenting on technical documents and activities associated with environmental investigation and cleanup activities at the Amaknak Formerly Used Defense Site.

RAB members are asked to serve a multi-year term and attend all RAB meetings. Those who are not able to attend on a consistent basis may be asked to resign. RAB members will be expected to be available to the general community and civic organizations to facilitate the exchange of information and/or concerns between the community and the RAB.

Priority for RAB membership will be given to local residents who are affected by cleanup activities at the Amaknak Formerly Used Defense Site.



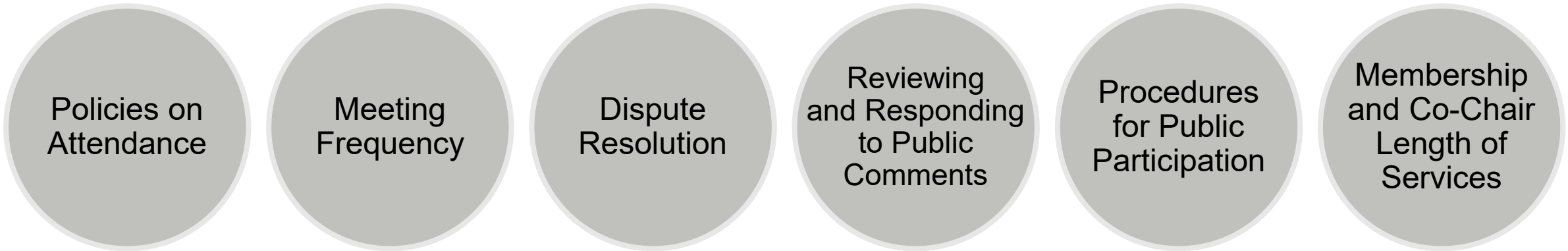
AMAKNAK FUDS RAB MISSION AND OPERATING PROCEDURES



AMAKNAK FUDS RAB DRAFT MISSION

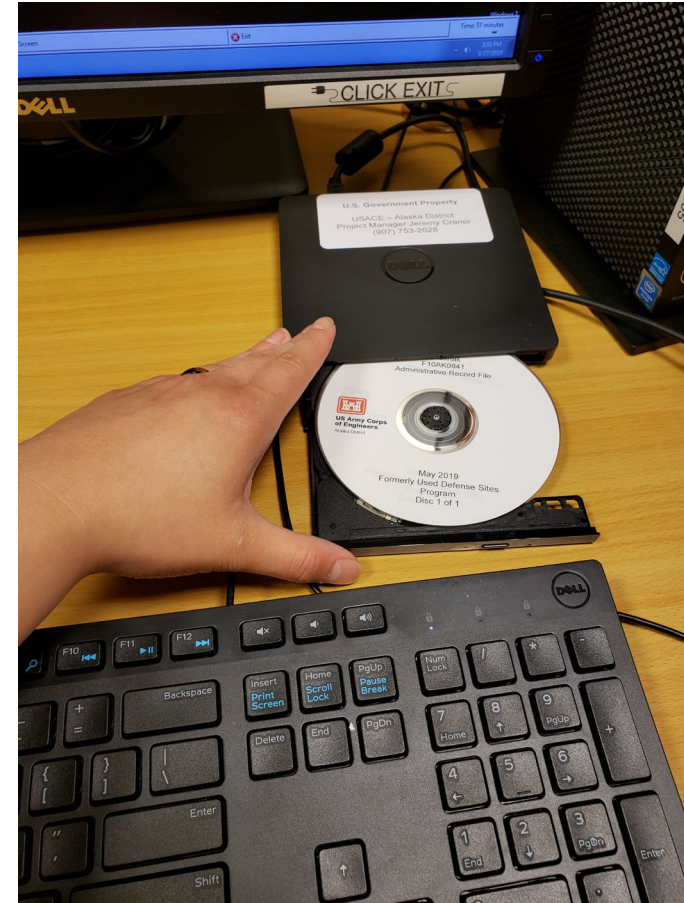
The Amaknak RAB mission is to establish and maintain a forum with all stakeholders for the exchange of information in an open and interactive dialogue concerning the restoration program in the Amaknak community.

DRAFT OPERATING PROCEDURES





INFORMATION REPOSITORY REFRESH



SITE MAP

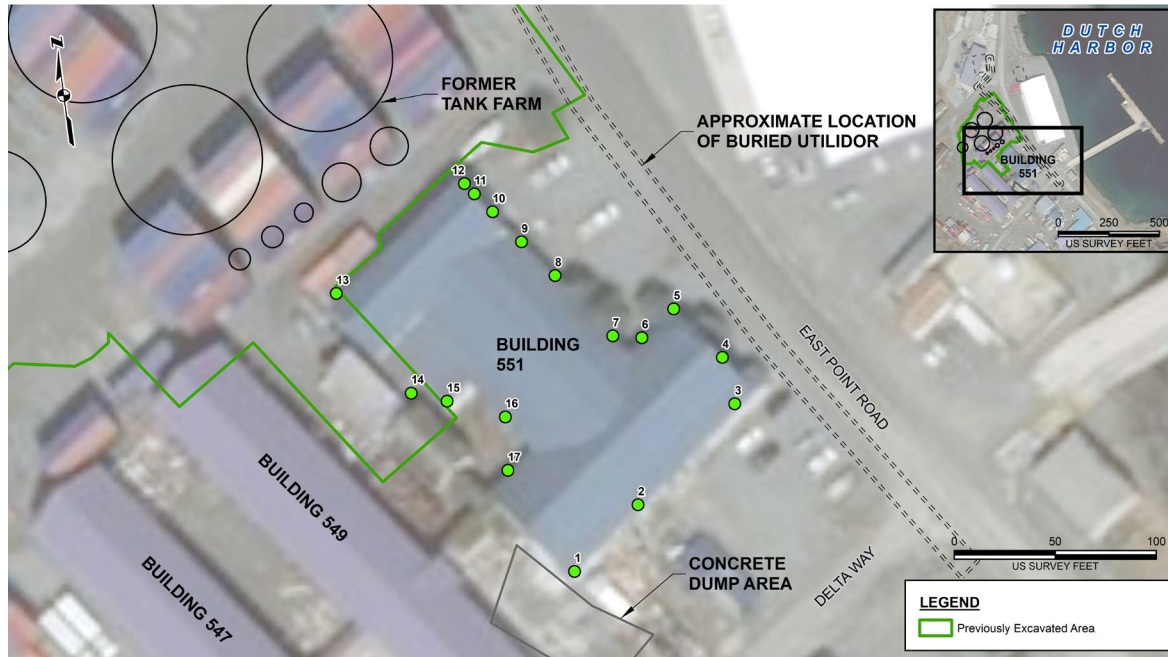




2019-2020 ACTIVITY SUMMARY

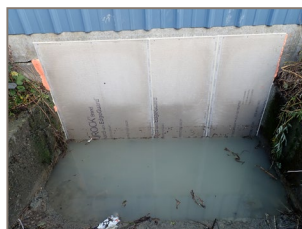


- Monitoring Well Network Maintenance/Optimization
- Groundwater Monitoring
- Building 551 Crawlspace Covers
- Information to Site Users
- Groundwater Use Determination
- 2nd Periodic Review of Remedy



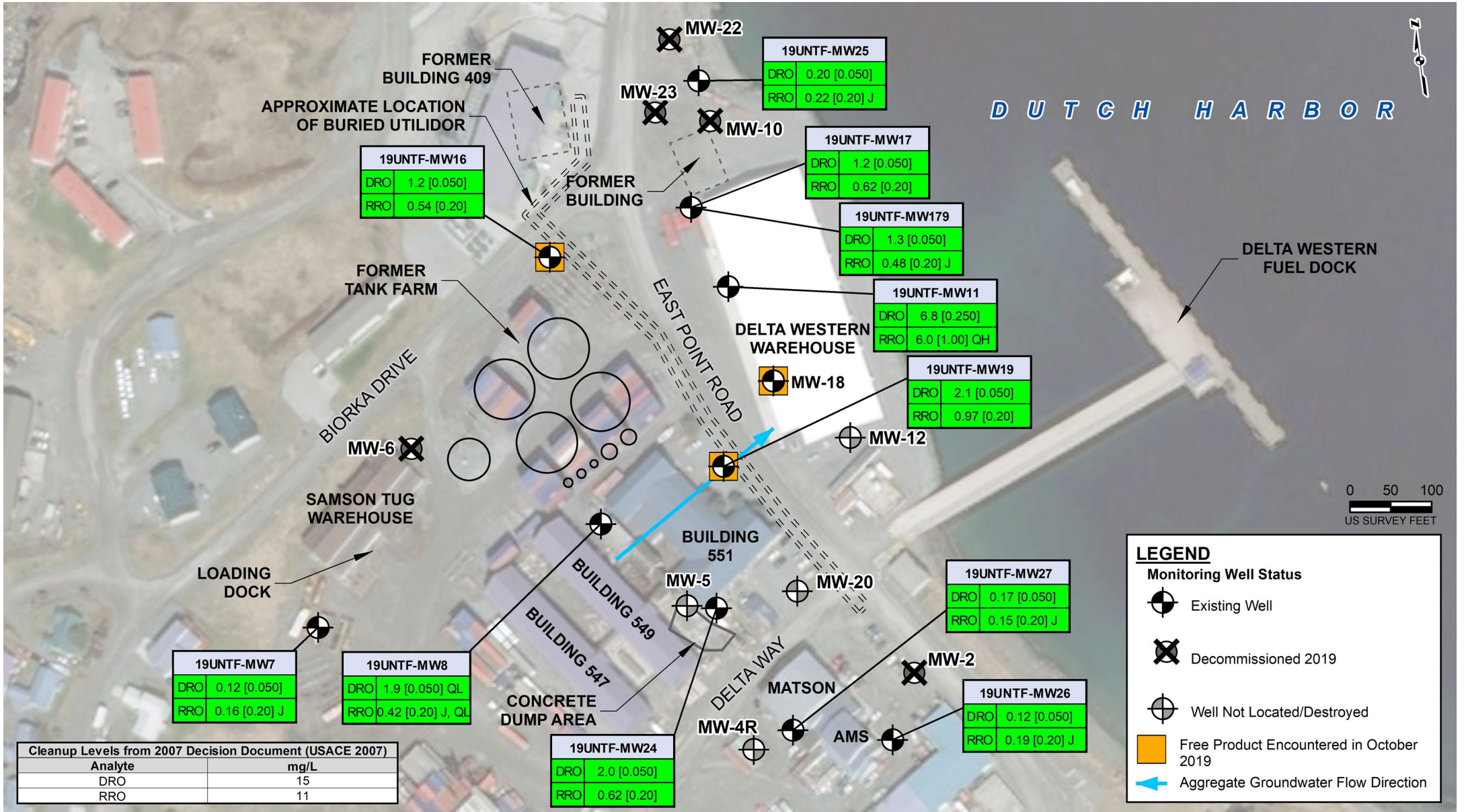


BUILDING 551 EXPOSURE PATHWAY PROTECTION





GROUNDWATER MONITORING



Cleanup Levels from 2007 Decision Document (USACE 2007)

Analyte	mg/L
DRO	15
RRO	11

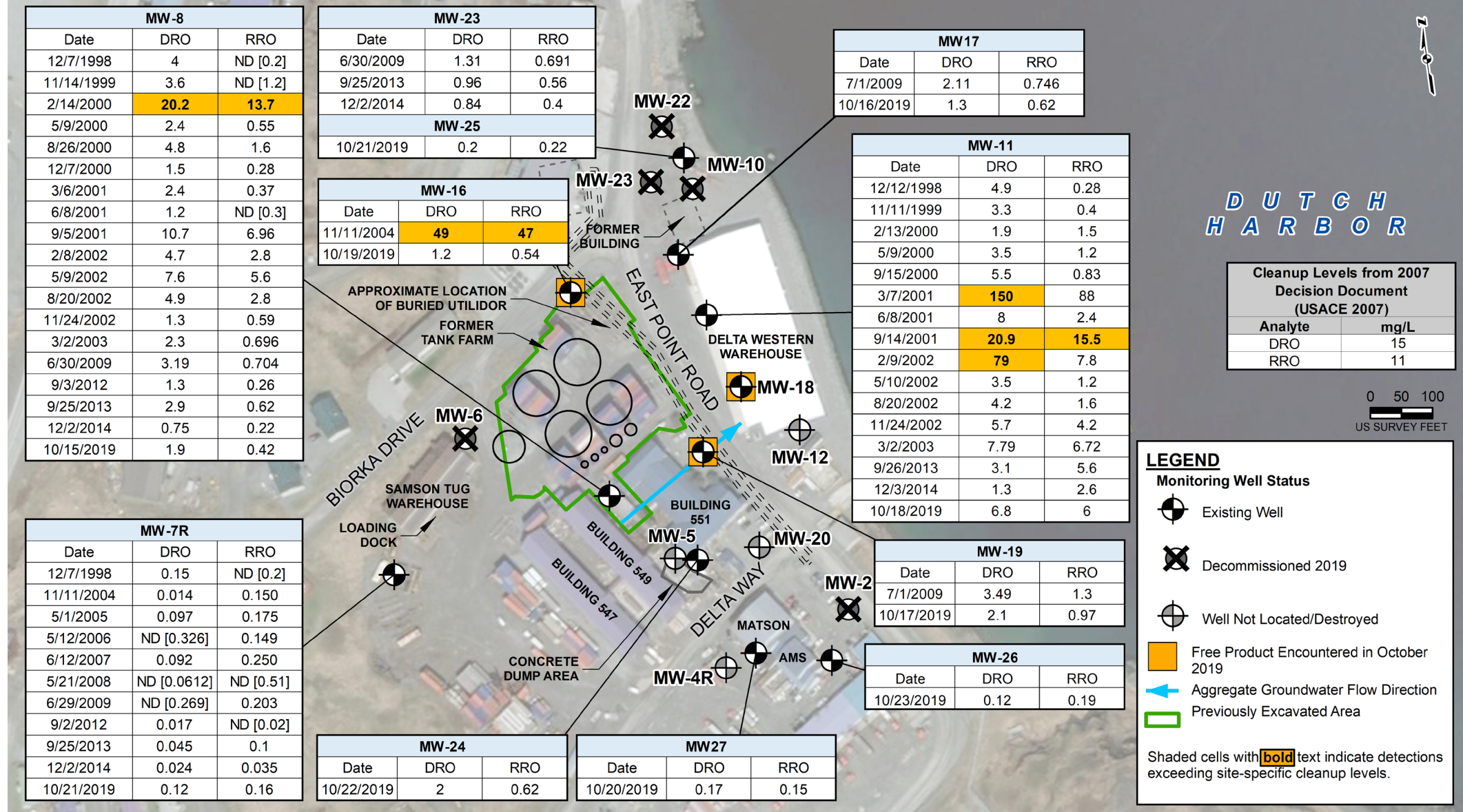
LEGEND

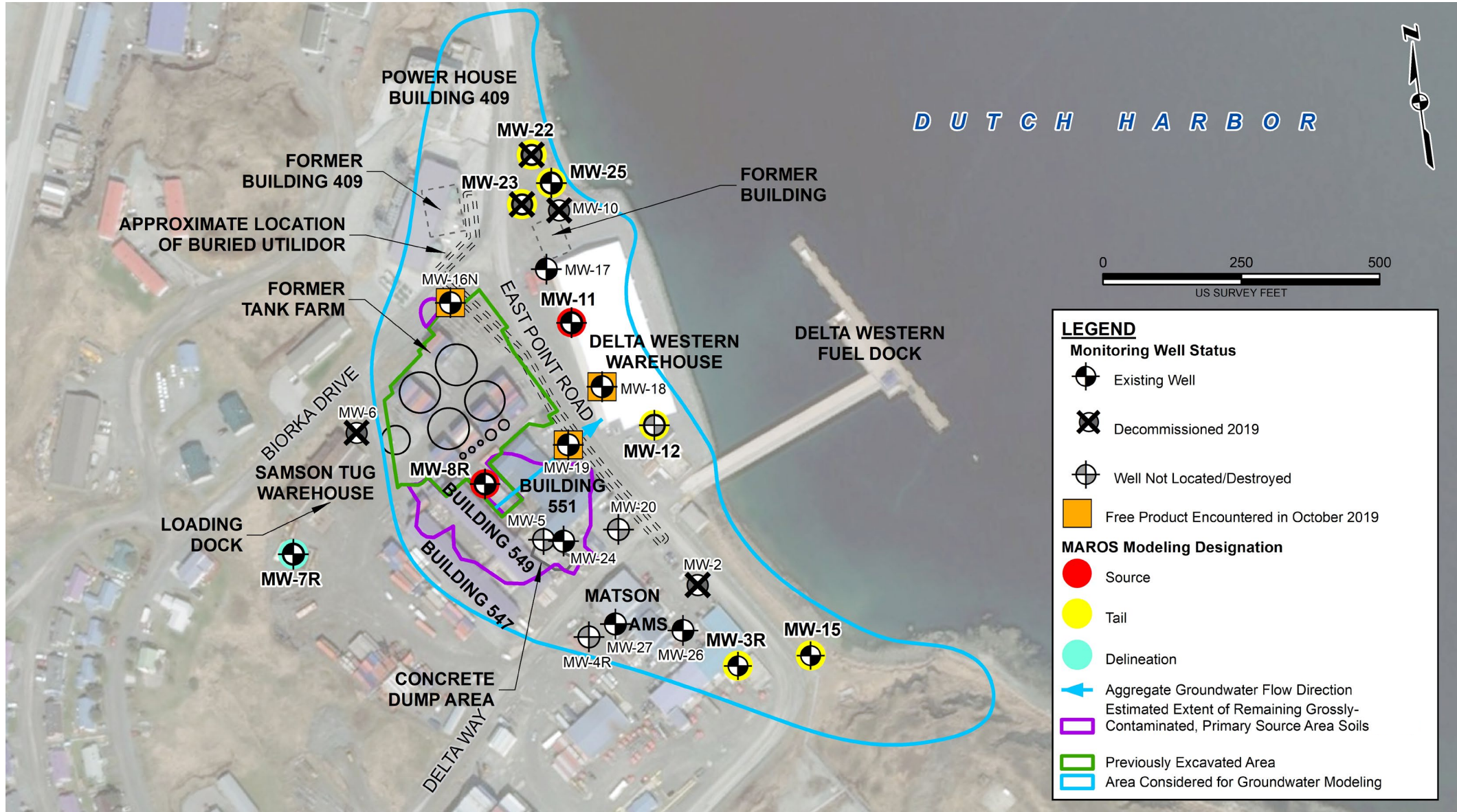
Monitoring Well Status

- Existing Well
- Decommissioned 2019
- Well Not Located/Destroyed
- Free Product Encountered in October 2019
- Aggregate Groundwater Flow Direction



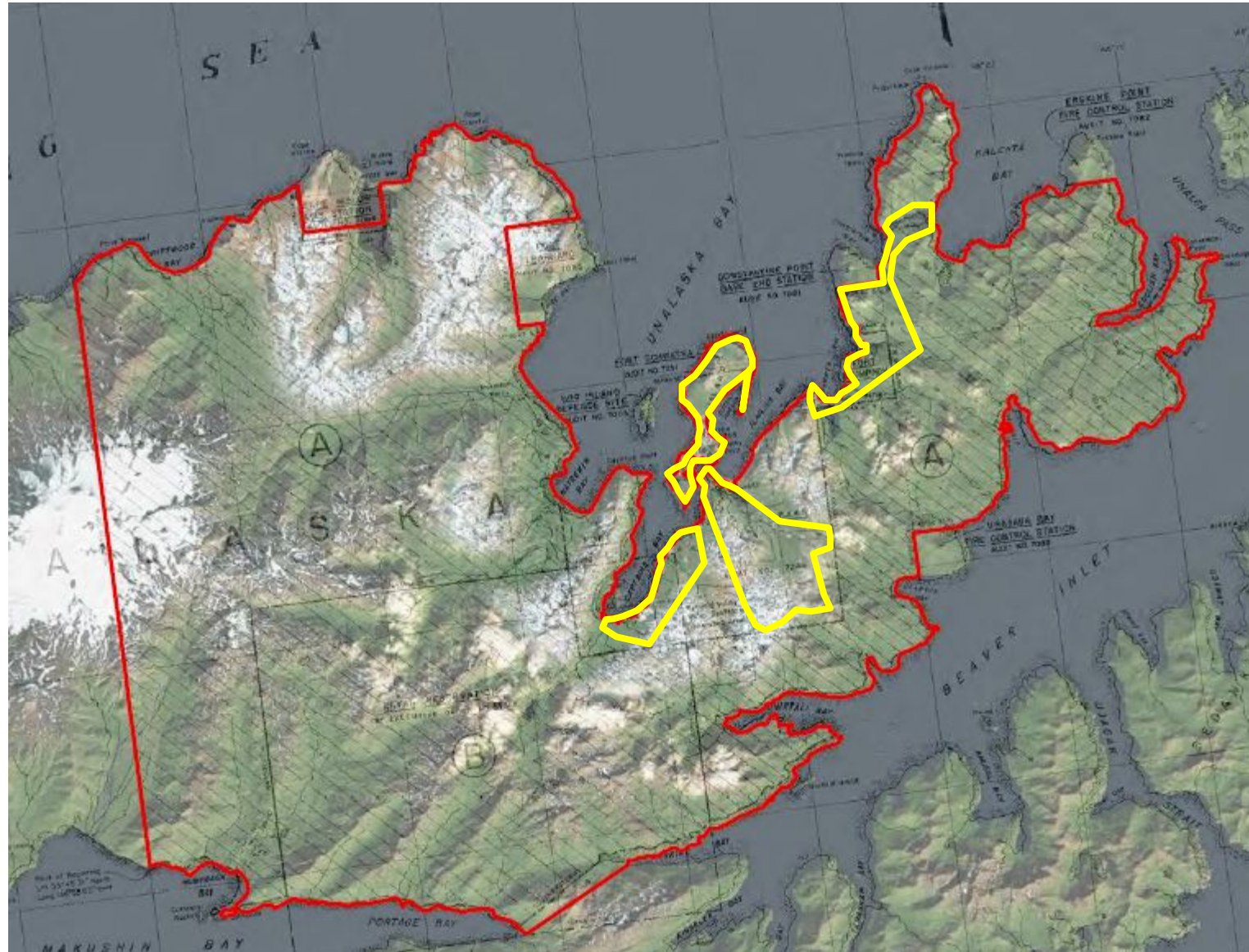
TREND ANALYSIS







DUTCH HARBOR VICINITY PROJECT





REMOVAL OF PIPELINES, TANKS, AND ASSOCIATED POL-SOIL





INTERIM RISK MANAGEMENT COMMUNICATION



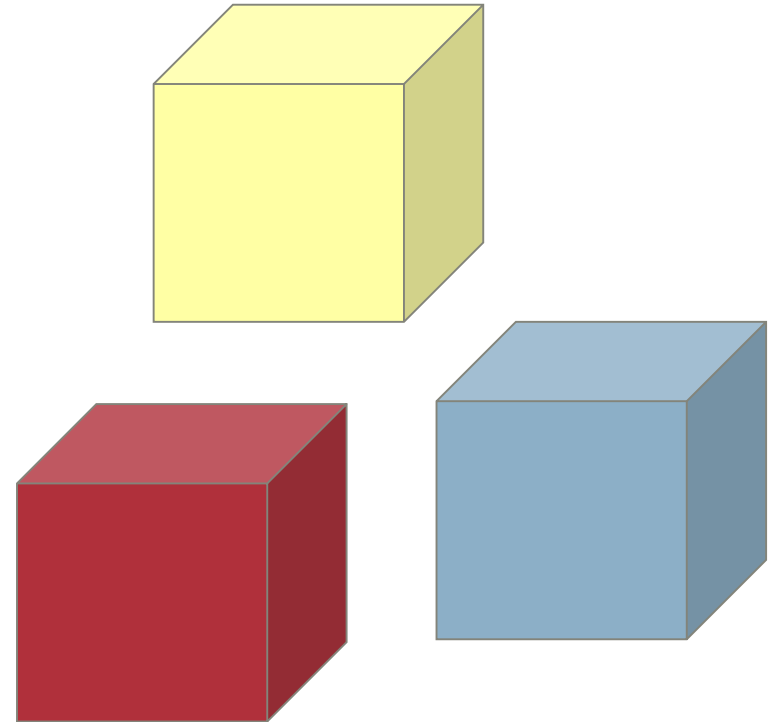
Recognize
Retreat
Report



NEXT STEPS



- RAB Membership Forms
- Amaknak FUDS RAB Mission and Operating Procedures
- Status of Cleanup Activities and Timeline
- Site Closures
- Organization of remaining impacts
- Path Forward
- Rescore MMRP risk and conduct a future remedial investigation and feasibility study
- Next Newsletter – May 2020
- Schedule Next Meeting





OPEN DISCUSSION



QUESTIONS?

Q&A



Comments



THANK YOU



CONTACT INFORMATION

PROJECT MANAGER

Rena Flint

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Rena.B.Flint@usace.army.mil

USACE- ALASKA DISTRICT PUBLIC AFFAIRS OFFICE

(907) 753-2520

Public.affairs3@usace.army.mil

<http://www.poa.usace.army.mil/Library/Reports-and-Studies/>. On that webpage, look under "Documents Available for Public Review" and expand the Environmental Cleanup link.





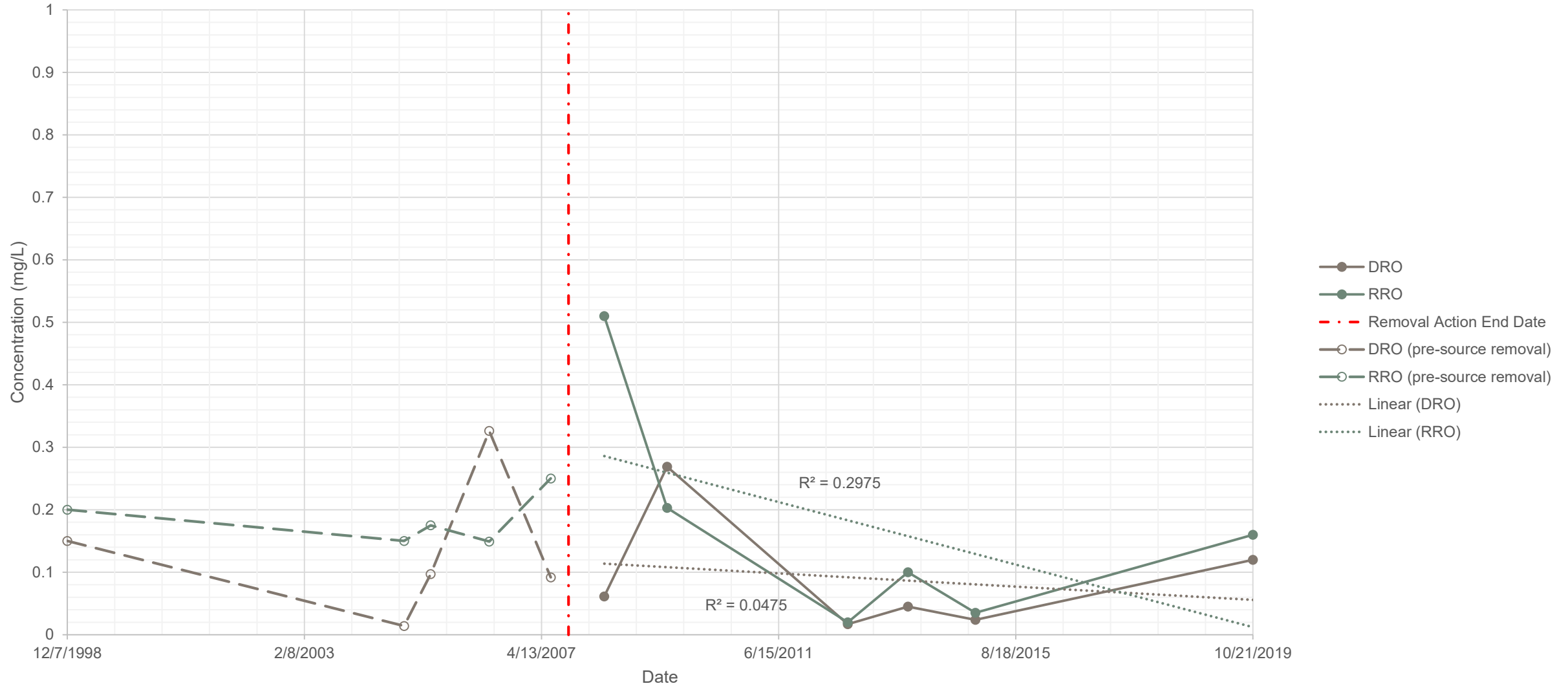
SUPPORTING DATA



MW-7R



MW-7R

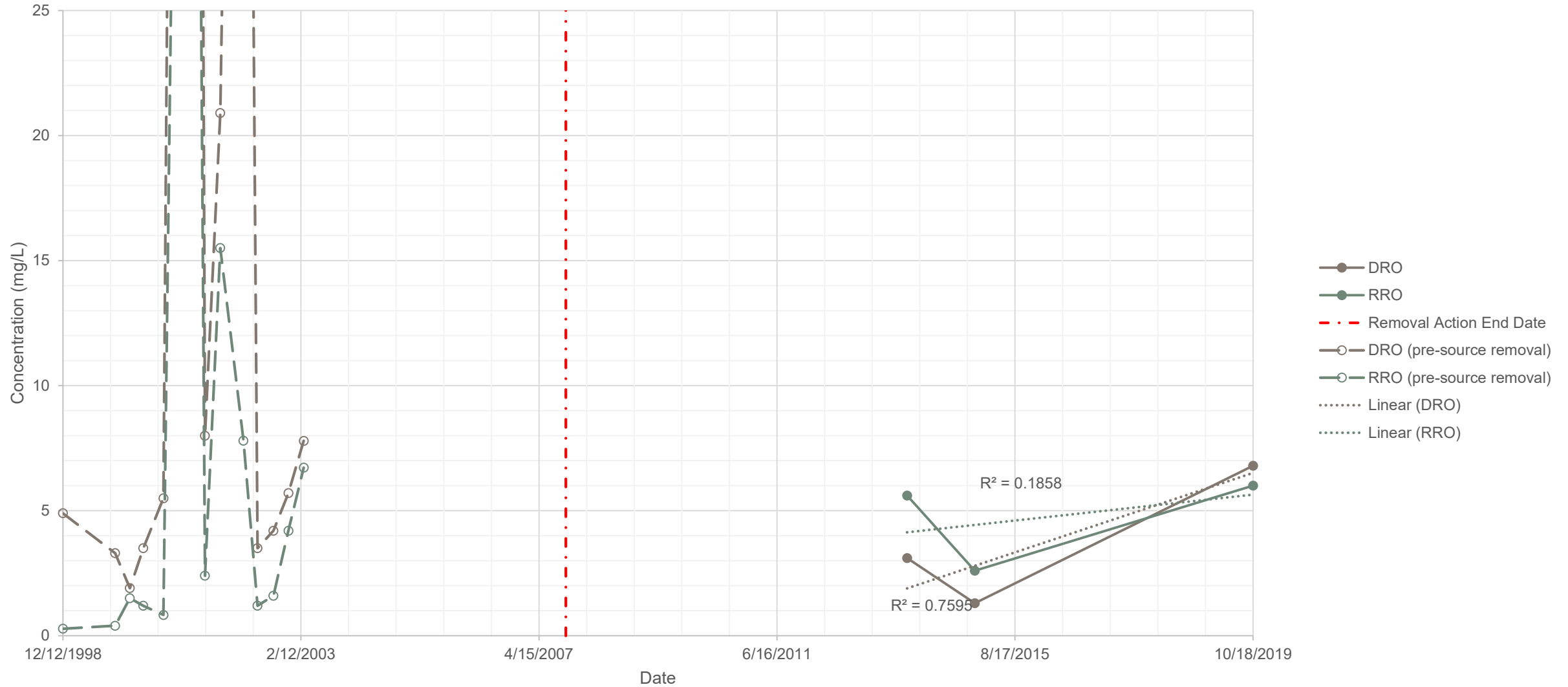




MW-11



MW-11

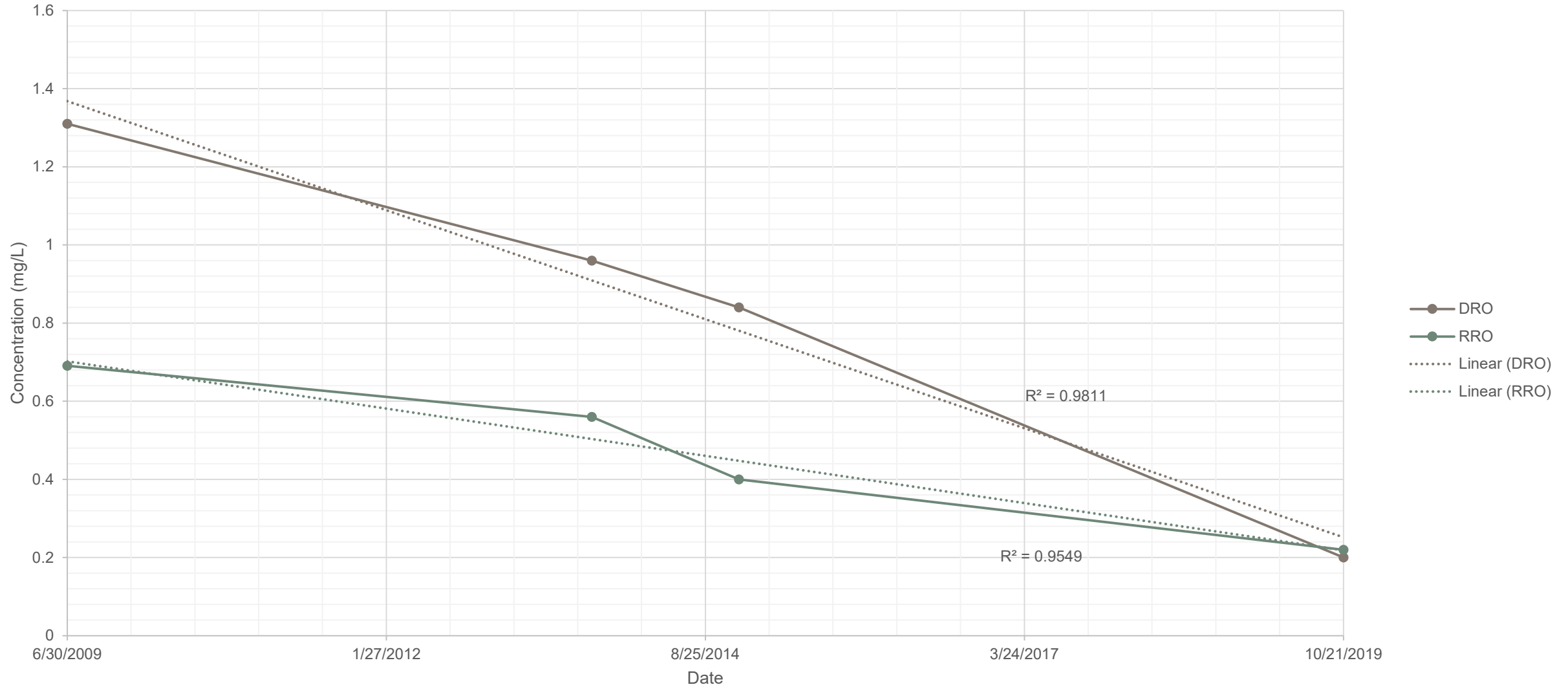




MW-23 AND MW-25



MW-23 and MW-25



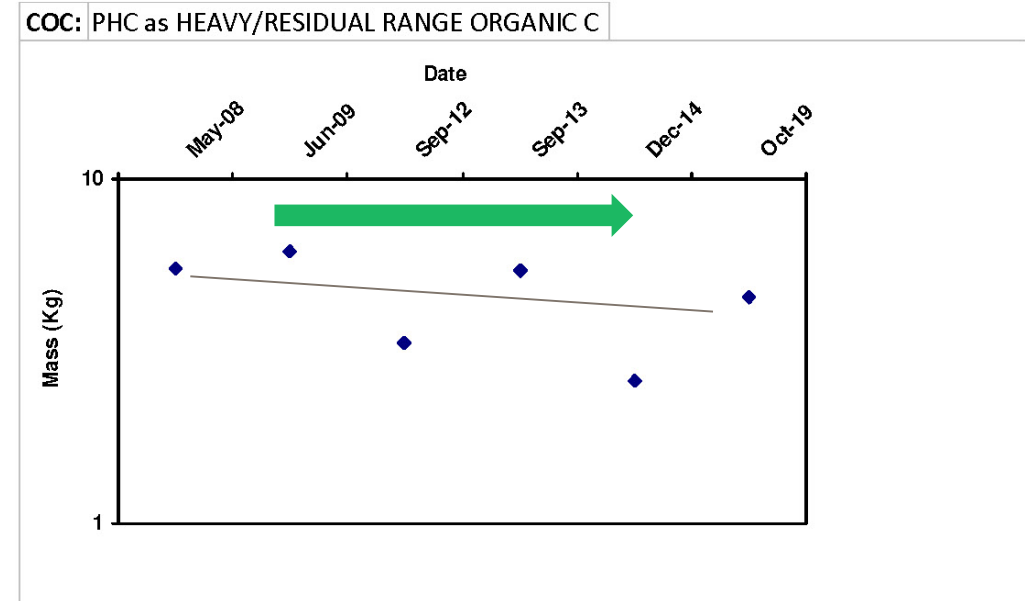
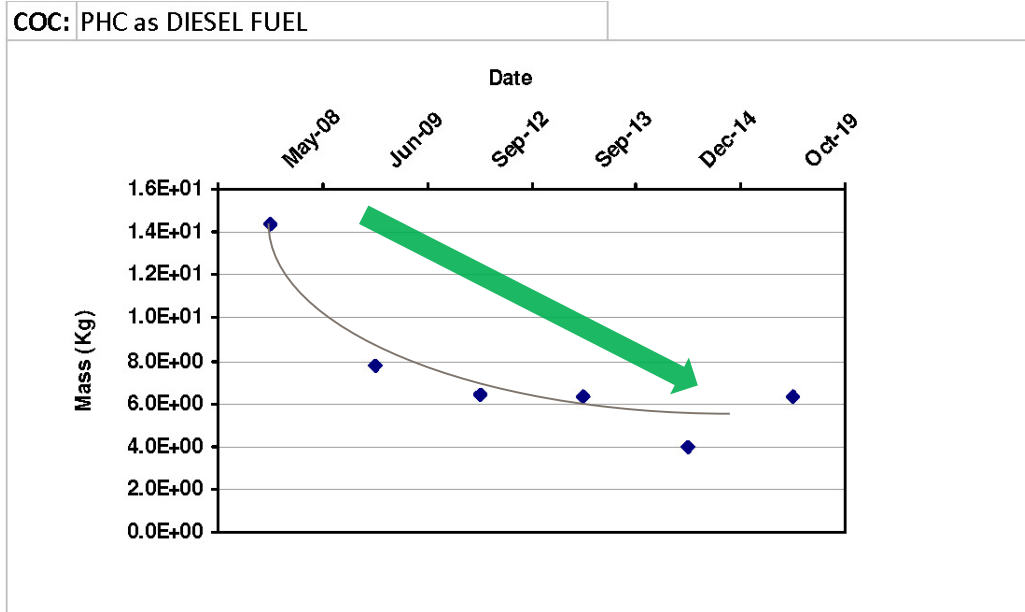


TREND ANALYSIS (MAROS)



Mass of contaminant plume in groundwater

- DRO is DECREASING since soil removal
- RRO is STABLE since soil removal





TREND ANALYSIS (MAROS)



Location of center of contaminant plume

- DRO/RRO plume has moved 220 feet to the northwest since source soils were removed.
- Movement back and forth perpendicular to groundwater, likely from fluctuations in concentrations from tidal/rain effects.

COC: PHC as DIESEL FUEL

Change in Location of Center of Mass Over Time

