



# **Second Five-Year Review of Records of Decision**

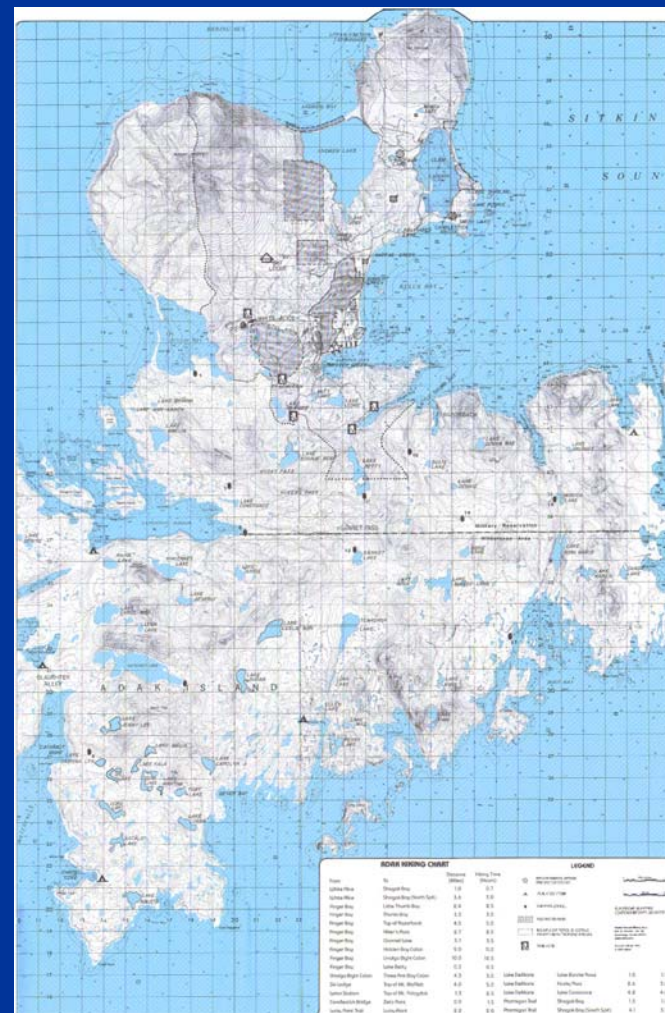
**Former Adak Naval Complex  
Adak, Alaska**

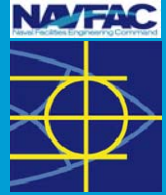
**A Presentation to the Adak Restoration Advisory Board  
April 19, 2006**



# Agenda

- Why conduct a five-year review?
- Who participates in the review?
- How does the review work?
- Which sites are included?
- What are the remedies?
- What is the status of OU B-2 Sites?
- Are the remedies functioning properly?
- ROD amendment
- What is the status of the SAERA Sites?
- What are the review results?
- What happens after the review is complete?
- Questions



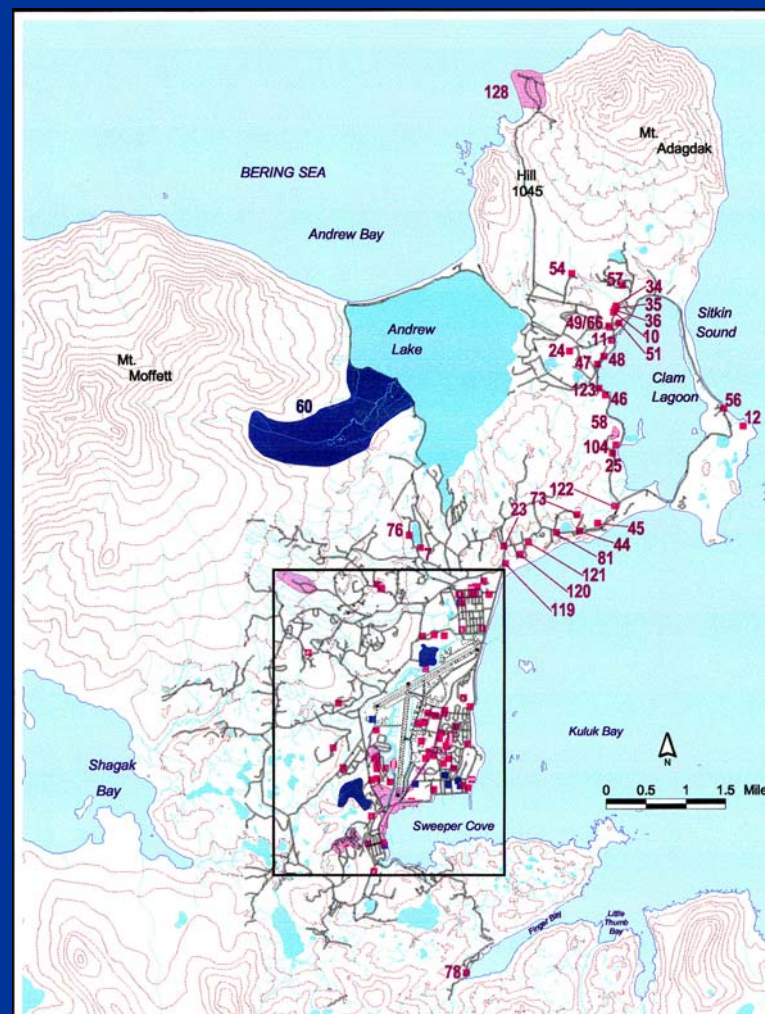


# Why Conduct a Five-Year Review?

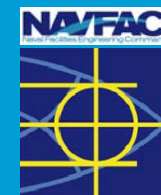
- It is required by law
- The *Comprehensive Environmental Response Compensation and Liability Act* (CERCLA - the "Superfund law") requires that reviews of cleanup actions at Superfund sites be conducted at least once every five years.

# Why Conduct a Five-Year Review?

- Ensure that the cleanup solutions (remedies) chosen for the site are functioning properly
- Ensure that remedies continue to protect human health and the environment
- The reviews are required for those Superfund sites where contaminants remaining in place limit site use.

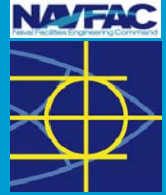


# Who Participates in the Review?



- A diverse range of interested parties including:
  - U.S. Navy which performs the review
  - EPA and Alaska DEC provide input
  - The Aleut Corporation
  - Alaska DOT
  - City of Adak
  - US Fish and Wildlife
  - Other interested parties





# How does the Review Work?

- The Navy asked the following questions:
  - Are remedies functioning as intended?
  - Are remedy assumptions still valid?
  - Any new information?

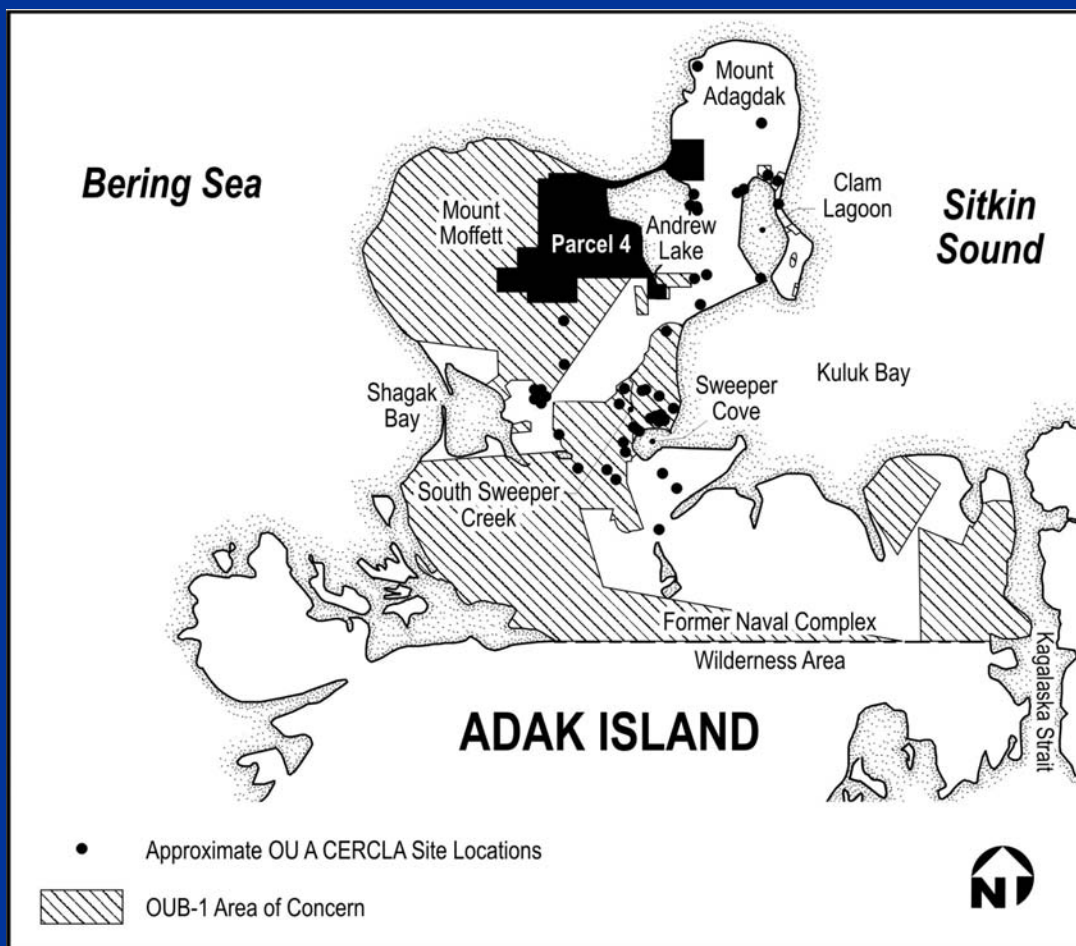
# How does the Review Work?

- These questions are answered through:
- Interviews with
  - EPA, Alaska DEC, USFWS, RAB members, TAC, Alaska DOT, Navy technical staff, and the community
- Document and data reviews
- Site inspections
- Review of environmental regulations
- Review of toxicological standards



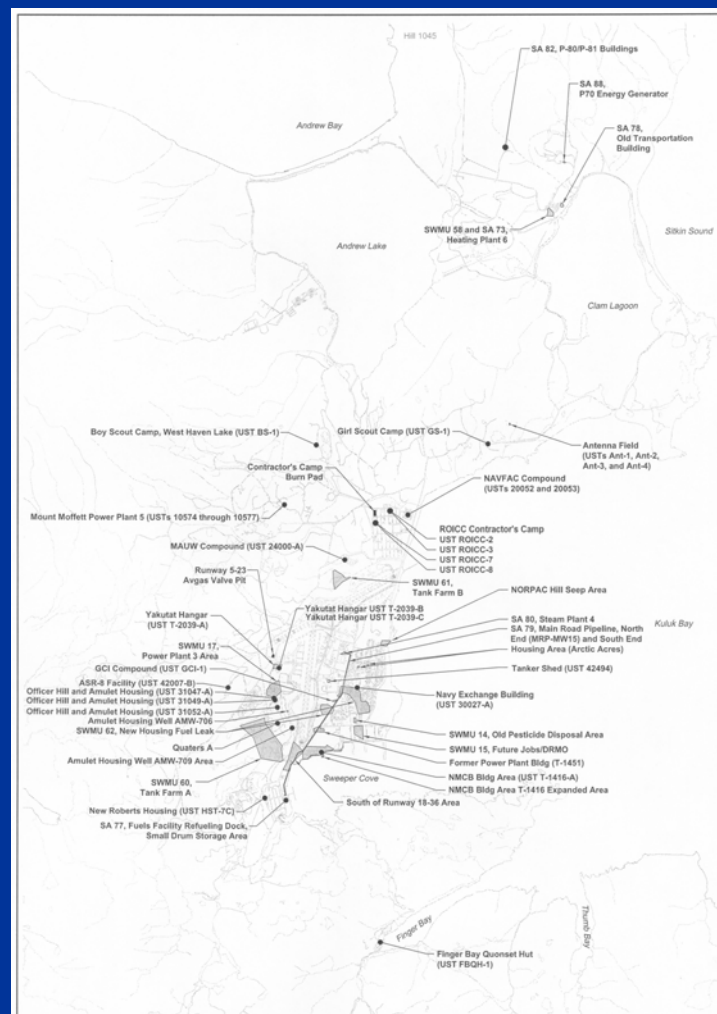
# Which Sites are Included?

- Sites in Operable Unit A – 58 CERCLA sites and water bodies



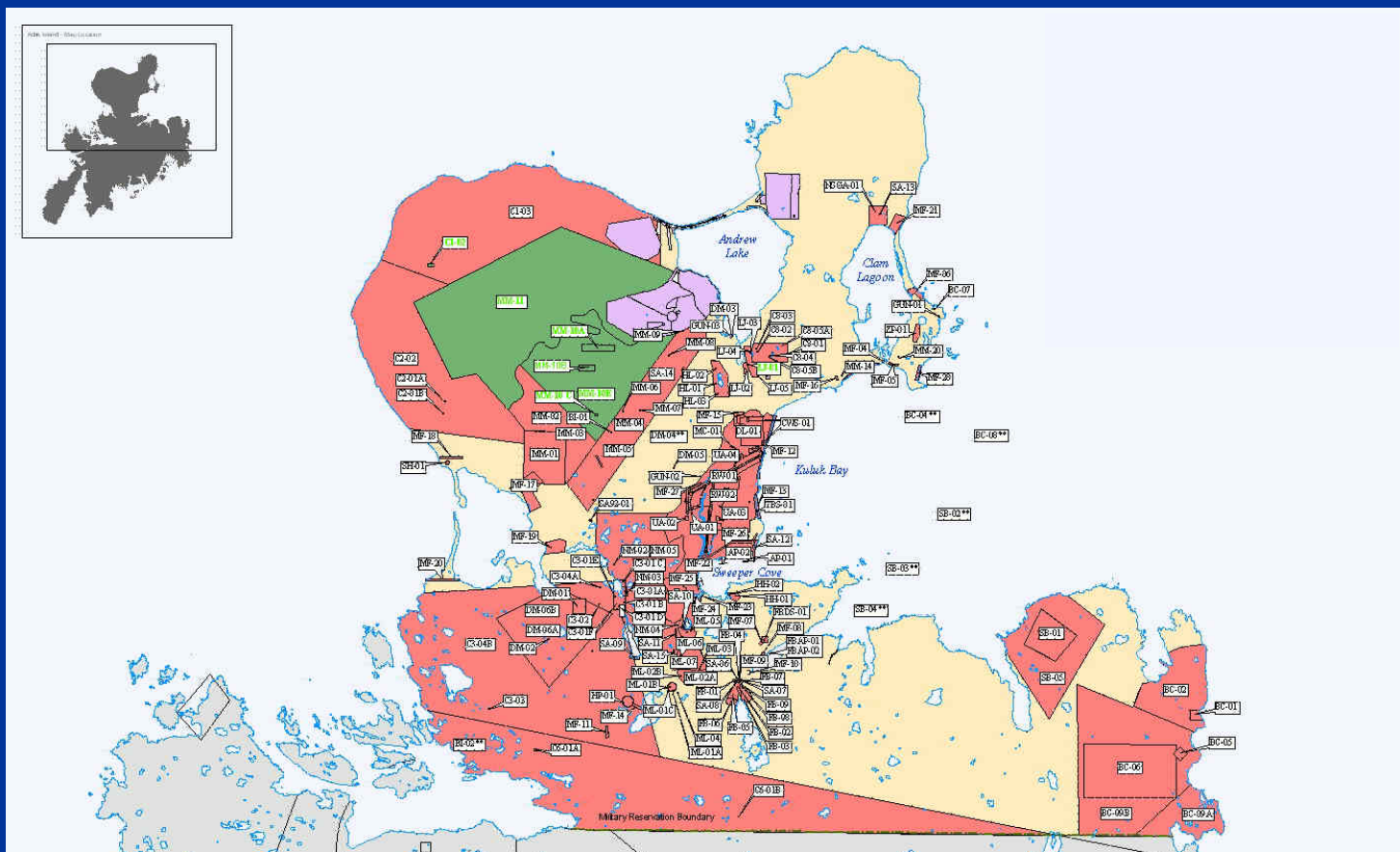
# Which Sites are Included?

- 128 petroleum sites included in the review but are addressed under state petroleum cleanup regulations
- CERCLA regulations do not apply to petroleum
- State cleanup standards are at least as stringent as federal standards



# Which Sites are Included?

- 144 ordnance and explosives or unexploded ordnance (OE/UXO) areas of concern outside of Parcel 4 were included in the OU B-1 ROD.



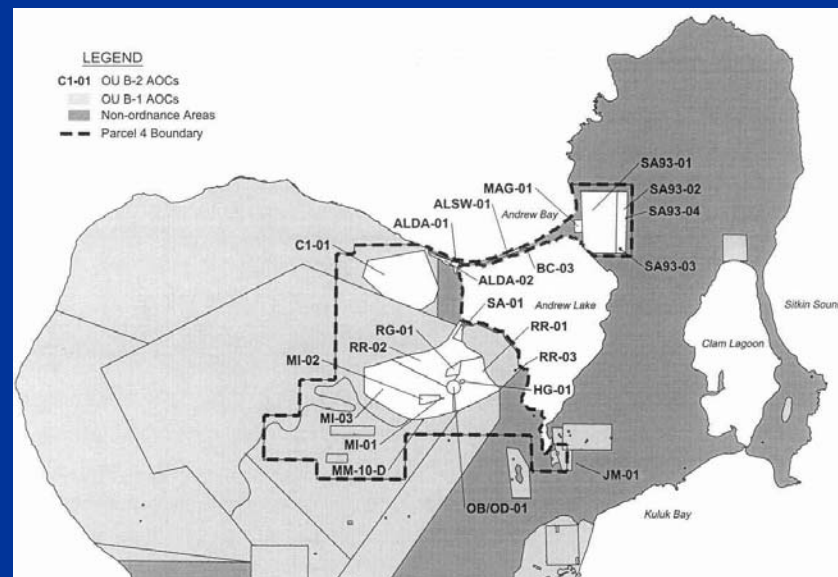
# What are the Remedies?

- **OU A Remedies**
  - Free-product recovery
  - Limited soil removal
  - Limited groundwater monitoring
  - Monitored natural attenuation
  - Institutional controls
  - Engineered controls
  - Marine monitoring
  - Fish and shellfish consumption advisory
- **OU B-1 Remedies**
  - Ordnance clearance to depths of 4 feet
  - Ordnance awareness/education program

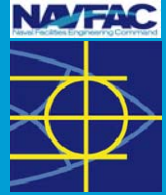


# What is the Status of OU B-2 Sites?

- OU B-2 sites within land transfer Parcel 4
- Twenty-two sites in the RI/FS stage
- Draft final RI/FS for OU B-2 prepared in 2003 and is under review
- Munitions and Explosives of Concern (MEC) items are known to be present
- Navy has implemented interim measures to protect human health and the environment until final remedy is determined

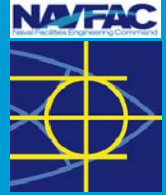


# Are the Remedies Functioning Properly?

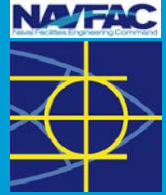


- **Remedy components are functional for most OU A Sites**
  - Landfill caps and covers in-place
  - Limited soil removal remedy implemented at most sites
  - Long-term monitoring on-going
  - Institutional and engineering controls inspected annually and maintained as needed
  - Natural attenuation of chemicals in groundwater has been demonstrated
  - Interim free-product recovery remedy completed at most sites
- **Limited soil removal still required at 2 sites**

# Are the Remedies Functioning Properly?



- 360 acres on Mount Moffett still need to be cleared of MEC
- MEC has been cleared to 4 feet at all other OU B-1 sites
- Sampling and soil removal complete at OU B-1
- Navy has aggressively implemented the MEC awareness program
  - Despite aggressive implementation, some unsafe behavior still reported
  - Navy needs community assistance to eliminate future unsafe behavior and keep everyone safe



# ROD Amendment

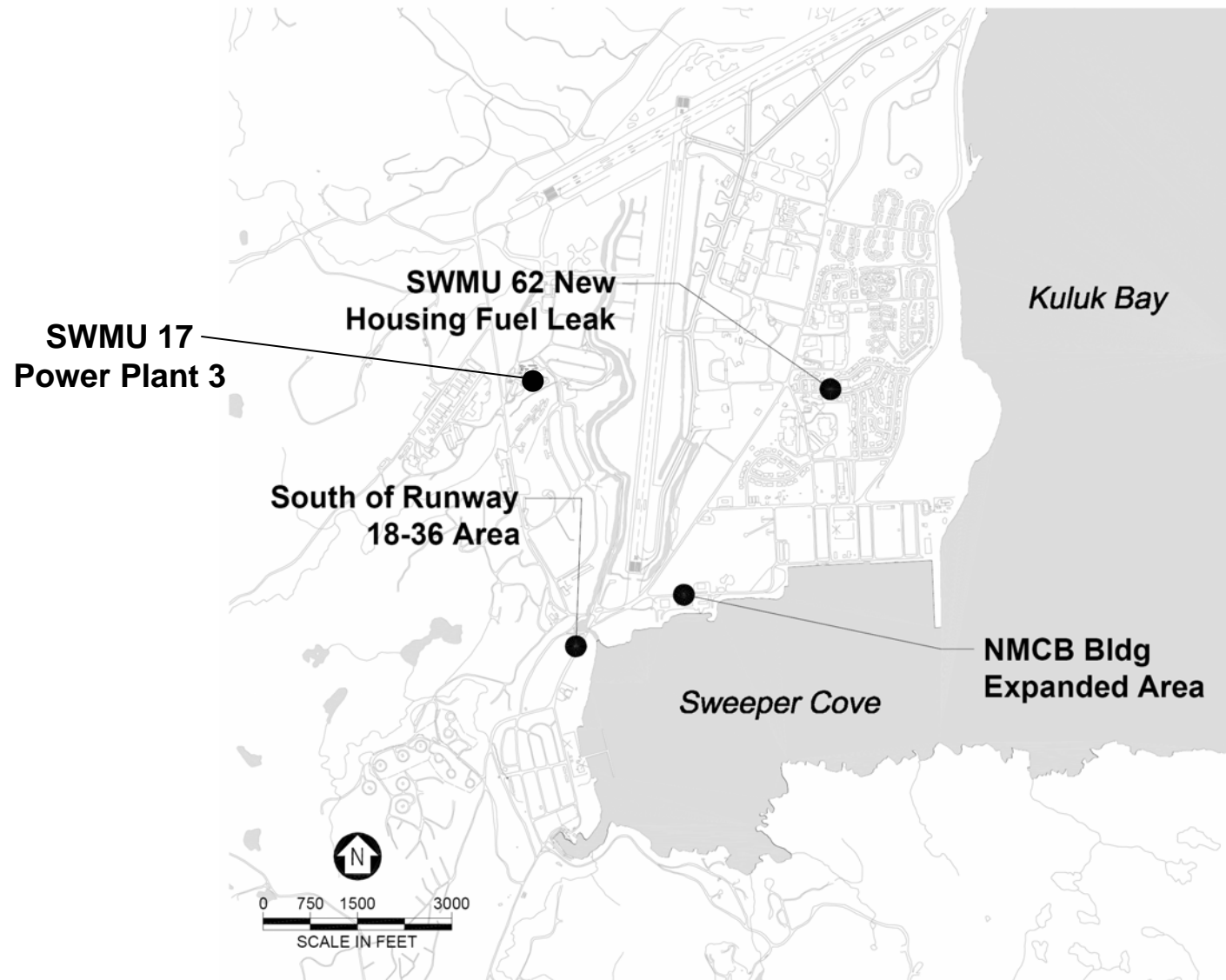
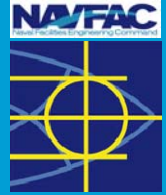
- **March 2002 - Petroleum sites were switched from EPA to state responsibility**
- **The Federal Facility Agreement (FFA) and State-Adak Environmental Restoration Agreement (SAERA) were amended to make this change**
- **These sites were added to the existing list of petroleum sites covered under SAERA.**
- **October 2003 - OU A ROD was amended to also reflect this change.**



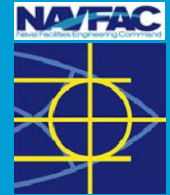
# ROD Amendment

- Post-ROD evaluation and action required at fourteen petroleum sites that moved from the OU A ROD to SAERA
- ROD interim remedy for these 14 sites was free-product recovery
- May 2005 - Decision Document was executed under SAERA for 10 sites by the U.S. Navy and Alaska DEC in May 2005.
- NMCB decision document executed March 2006; remedies are free-product recovery, MNA, and institutional controls
- The decision document specified monitored natural attenuation (MNA) or limited groundwater monitoring as remedies for these 10 of these sites.
- Monitoring requirements at these 10 sites are specified in the current *Comprehensive Monitoring Plan*
- Final remedies for the remaining three sites are currently being evaluated under SAERA

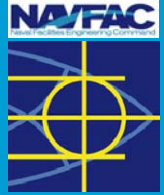
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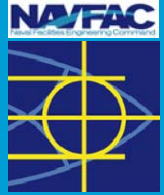


	Internal	Draft	Final	Internal Review	Agency Review	Public Comment	Final	Internal	Draft	Final
<b>10 No Risk Sites</b>										
<b>NMCB</b>										2006
<b>South of Runway 18-36</b>									April 2006	
<b>SWMU 62</b>									April 2006	
<b>SWMU 17</b>						Nov 2006				
	<b>SC/RA/FFS</b>			<b>Proposed Plan</b>				<b>Decision Document</b>		



# What is the Status of SAERA Sites?

- Remedies implemented in 2006
  - NMCB
  - SWMU 62
  - South of Runway 18-36
  
- Additional investigation at Area 303 in 2006
  
- Decision on remedy for SWMU 17 in 2006/2007



# What are the Review Results?

- Remedies are protective or expected to be protective of human health and the environment at all sites with the following recommendations:
  - Revise risk-based concentrations for sediment evaluation at SWMU 11, Palisades landfill
  - Complete limited soil removal at ASR-8 Facility and SA 77
  - Resolve MEC clearance approach at Mount Moffett sites
  - Continue to improve MEC education awareness program
  - Conduct visual inspection of shoreline at NORPAC Hill Seep Area
  - Re-evaluate SAERA remedy at SA 88, P-70 Energy Generator site
  - Implement 2005 IC inspection recommendations for engineering control repairs at the landfill sites

# What Happens After the Review?

- Act on recommendations identified during the review
- The Navy will continue monitoring
- Continue with 5-year reviews until the sites have achieved cleanup objectives



# Questions

