

**APPENDIX I**  
FORMERLY USED DEFENSE SITES GUIDANCE

**From:** [Emily Creely](#)  
**To:** [Emily Creely](#)  
**Subject:** FW: [EXT] RE: AU aleutian follow up  
**Date:** Tuesday, June 08, 2021 9:47:53 AM

---

**From:** Flint, Rena B CIV USARMY CEPOA (USA) <[Rena.B.Flint@usace.army.mil](mailto:Rena.B.Flint@usace.army.mil)>  
**Sent:** Thursday, May 20, 2021 1:48 PM  
**To:** Emily Creely <[ecreely@dowl.com](mailto:ecreely@dowl.com)>  
**Subject:** [EXT] RE: AU aleutian follow up

**WARNING:** *External Sender - use caution when clicking links and opening attachments.*

Thank you Emily,

I really appreciate the opportunity to coordinate with you on this project.

Your map looks to intersect many of our active (underway or future) FUDS projects namely: Ballyhoo Spit, Mount Ballyhoo, Margaret Bay-Airport, Unalaska Valley, Pre-WWII Tank Farm, and Range Complex No. 1.

Please find attached some resources for your use:

Range Complex No. 1 Safety Guide

2019 Property Summary

As I said on the phone in 2020, I closed the old property-wide "Dutch Harbor Vicinity" Project by breaking the large project area up into 8 new smaller projects by geographic region: Unalaska Valley, Pyramid Valley and Port Levashef, Summer Bay-Humpy Cove, Margaret Bay-Airport, Museum of the Aleutians, Mount Ballyhoo, Ballyhoo Spit, Little South America.

In 2020, we formed also a Restoration Advisory Board (RAB).

Attached are some outreach materials leading up to the so far 3 RAB meetings hosted.

The hazard evaluation priority for Range Complex No. 1 is 4, where Priority 1 indicates the highest potential hazard and Priority 8 the lowest potential hazard in the program.

Please let me know if I can help further. I am still looking into the "consultation" question.

Thanks,

Rena

Rena B. Flint  
Project Manager, FUDS NALEMP  
U.S. Army Corps of Engineers

PO Box 6898  
2204 Talley Ave, Rm 200  
JBER, AK 99506  
907-753-2680, 907-201-3108

## Introduction

The purpose of this guide is to provide information about the military training activities that took place at the former Amaknak Military Facilities and to raise awareness of the explosive hazards that may exist at the range.

The former Amaknak Military Facilities were used from 1911 to 1952 for a variety of military activities. The site consists of the former Dutch Harbor Naval Operating Base and other facilities on Unalaska and Amaknak Islands. The U.S. Navy first established a communication facility in 1911 and a weather station in 1939. By 1942, the Navy had constructed a port and submarine and seaplane bases. During this same time, the U.S. Army built air and coastal artillery defense sites and support facilities. Most of the former Amaknak Military Facilities were either decommissioned or declared surplus by 1952. An area of the former Amaknak Military Facilities, known as Range Complex No. 1, has been identified through historical research and site visits as having potential explosive hazards. The munitions known or suspected to have been used at the property include medium caliber munitions and small arms ammunition.

Range Complex No. 1 is located on and in the surrounding waters of Unalaska Island in the Aleutian Islands chain of Alaska. The land is publicly and privately owned, and is used for commercial fishing, and residential and industrial purposes.

Because explosive hazards associated with military munitions from past military activities may remain on and in the surrounding waters of Range Complex No. 1, the U.S. Army Corps of Engineers recommends that landowners and visitors follow the **3Rs of Explosives Safety – Recognize, Retreat and Report.**



An example of a medium caliber munition

## Former Amaknak Military Facilities

### For More Information



**US Army Corps of Engineers.**

The U.S. Army Corps of Engineers is responsible for identifying, investigating and, when necessary, conducting an appropriate response to address contamination and military munitions resulting from past Department of Defense activities at Formerly Used Defense Sites, also referred to as FUDS.

For information about the former Amaknak Military Facilities, contact the FUDS Information Center by calling the toll-free number 1-855-765-FUDS (3837). For general information about the FUDS Program, visit [www.fuds.mil](http://www.fuds.mil).

### Follow the 3Rs of Explosives Safety

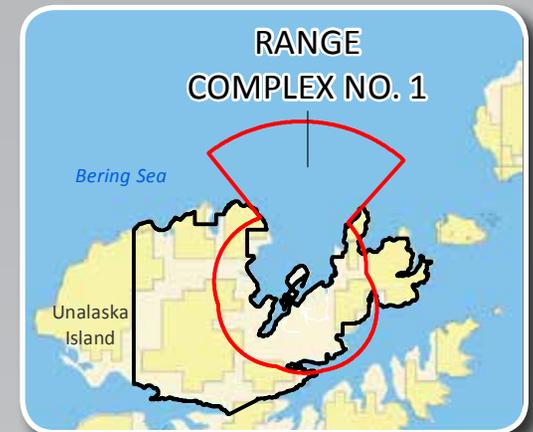


Visit the U.S. Army's Explosives Safety Education website:  
[3Rs.mil](http://3Rs.mil)

## 3Rs Safety Guide

### Former Amaknak Military Facilities

**Alaska  
Aleutians West**



### Range Complex No. 1

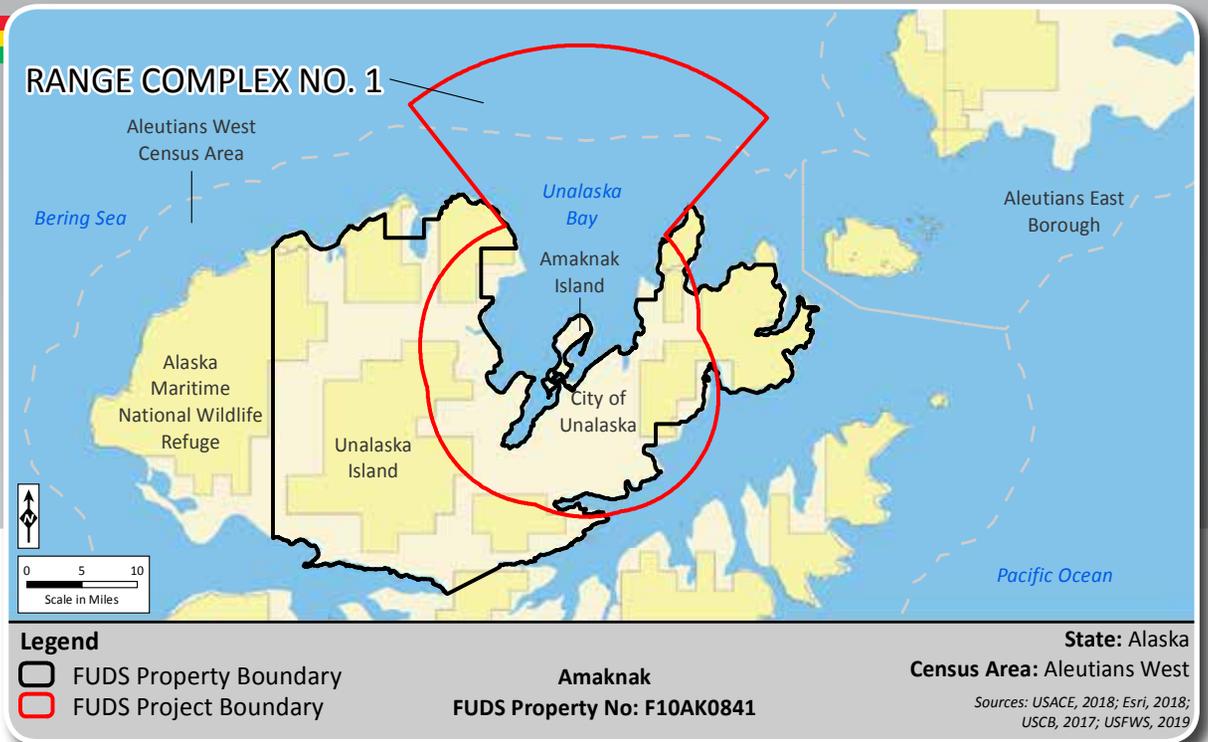


**US Army Corps of Engineers.**



Source: Library of Congress

Headquarters area of the former Naval Operating Base at Dutch Harbor, Unalaska Island, Alaska



## Frequently Asked Questions

**Q:** What types of potential hazards exist?

**A:** Military munitions, such as medium caliber munitions and small arms ammunition, were potentially used at the former Amaknak Military Facilities. The U.S. Army Corps of Engineers is unable to rule out the presence of munitions that may pose an explosive hazard.

**Q:** What do I do if I suspect I may have come across a military munition?

**A:** If you suspect you may have come across a military munition, the best way to ensure your safety is to follow the 3Rs of Explosives Safety: **R**ecognize – when you may have encountered a munition and that munitions are dangerous; **R**etreat – do not approach, touch, move or disturb it, but carefully leave the area; and **R**eport – call **911** and advise the police of what you saw and where you saw it.

**Q:** What are the findings of the work that the government has completed?

**A:** Historical research and site inspections indicate that military munitions were potentially used at these ranges, and some munitions may

remain on the property and in the surrounding waters of Range Complex No. 1. The U.S. Army Corps of Engineers has determined that further investigation is required for Range Complex No. 1 at the former Amaknak Military Facilities.

**Q:** What will be done next?

**A:** The U.S. Army Corps of Engineers will make explosives safety education material that is based on the 3Rs available to landowners and the community. Additionally, it will coordinate with landowners as it plans required response activities.

**Q:** Where can I get more information?

**A:** For more information, call the Formerly Used Defense Sites Information Center toll-free number 1-855-765-FUDS (3837). Additional information can be found by searching on the property name, Amaknak, in the Geographic Information System tool on the Formerly Used Defense Sites website at [www.fuds.mil](http://www.fuds.mil).

## Follow the 3Rs of Explosives Safety

**Recognize**

when you may have encountered a munition and that munitions are dangerous.

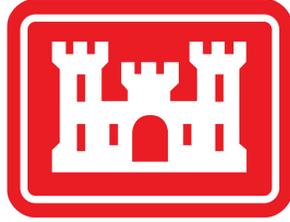
**Retreat**

do not approach, touch, move or disturb it, but carefully leave the area.

**Report**

call 911 and advise the police of what you saw and where you saw it.

UNCLASSIFIED



US Army Corps of Engineers  
BUILDING STRONG®

# AMAKNAK

Formerly Used Defense Sites Program Management Action Plan

Published by: U.S. Army Corps of Engineers, Environmental Programs

Data as of 2019 Annual Report to Congress

UNCLASSIFIED

## Table of Contents

<b>I.</b>	<b>Statement of Purpose</b>	<b>3</b>
<b>II.</b>	<b>Acronyms</b>	<b>5</b>
<b>III.</b>	<b>Property Information</b>	<b>7</b>
	A. Property Description	7
	B. Locale	7
	C. Organization	7
	D. National Priorities List Status	8
	E. Project Summaries	9
<b>IV.</b>	<b>Cleanup Program Strategy</b>	<b>10</b>
	A. Historic Activity	10
<b>V.</b>	<b>Installation Restoration Program (IRP)</b>	<b>11</b>
	A. IRP Summary	11
	B. IRP Schedule	11
	C. Project Descriptions	12
	D. Cost	13
<b>VI.</b>	<b>Military Munitions Response Program (MMRP)</b>	<b>14</b>
	A. MMRP Summary	14
	B. MMRP Schedule	14
	C. Project Descriptions	14
	D. Cost	15
<b>VII.</b>	<b>Community Involvement</b>	<b>16</b>
	<b>Appendix I: IRP Project Descriptions</b>	<b>18</b>
	<b>Appendix II: MMRP Project Descriptions</b>	<b>30</b>

# I. Statement of Purpose

## A. Management Action Plan

The Management Action Plan (MAP) is to outline the total multi-year environmental cleanup program for a Formerly Used Defense Site (FUDS) property. The plan will define the cleanup program requirements and propose a comprehensive approach and associated costs to conduct future investigations and response action at each cleanup site.

## B. Formerly Used Defense Sites Program

During the past two centuries, the Department of Defense (DOD) has used land throughout the United States to both train Soldiers, Airmen, Sailors and Marines, and test new weapons to ensure the nation's military readiness. As training and testing needs changed, DOD obtained property or returned it to private or public uses. When no longer needed, many of these properties were cleaned up according to the best practices available at the time and then transferred to other owners such as private individuals or federal, state, tribal, or local government entities.

Today, DOD is responsible for the environmental restoration (cleanup) of properties that were formerly owned by, leased to or otherwise possessed by the United States and under the jurisdiction of the Secretary of Defense prior to October 1986. Such properties are known as Formerly Used Defense Sites or FUDS. The U.S. Army is DOD's lead agent for the FUDS Program. The U.S. Army Corps of Engineers executes the FUDS Program on behalf of the U.S. Army and DOD. The U.S. Army and DOD are dedicated to protecting human health and the environment by investigating and, if required, cleaning up potential contamination or munitions that may remain on these properties from past DOD activities.

The scope and magnitude of the FUDS Program are significant, with more than 10,000 properties identified for potential inclusion in the program. Information about the origin and extent of contamination or munitions, land transfer issues, past and present property ownership, applicable laws and DOD policies must be evaluated before DOD considers a property eligible for Defense Environment Restoration Account funding under the FUDS Program. Environmental cleanup at FUDS properties is conducted under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA).

### **C. Installation Restoration Program (IRP)**

Installation Restoration Program (IRP) category projects include sites that require response actions to address releases of: (a) Hazardous substances and pollutants or contaminants; (b) Petroleum, Oil, and Lubricants (POLs); (c) Hazardous wastes or hazardous waste constituents; and (d) Explosive compounds released to soil, surface water, sediment, or groundwater as a result of ammunition or explosives production or manufacturing at ammunition plants. The IRP category also includes response activities to address UXO, DMM, or munitions constituents MC posing an explosive, human health, or environmental hazard that are incidental to an existing IRP site.

The relative risk site evaluation (RRSE) framework is a methodology used by all DoD Components to evaluate the relative risk posed by a site in relation to other sites. It is a tool used across all of DoD to group sites into high, medium, and low categories based on an evaluation of site information using three factors: the contaminant hazard factor (CHF), the migration pathway factor (MPF), and the receptor factor (RF). Factors are based on a quantitative evaluation of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) hazardous substances, pollutants, or contaminants and a qualitative evaluation of pathways and human and ecological receptors in the four media most likely to result in significant exposure groundwater, surface water, sediment, and surface soils.

### **D. Military Munitions Response Program (MMRP)**

In 2001, DoD established the Military Munitions Response Program (MMRP). The MMRP addresses munitions response sites (MRSs) at Formerly Used Defense Site locations. MRSs are sites that are known or suspected to contain unexploded ordnance, discarded military munitions, or munitions constituents (MC). Through the MMRP, DoD complies with environmental cleanup laws, such as the Comprehensive Environmental Response, Compensation, and Liability Act, also known as Superfund.

To prioritize funding and cleanup of MRSs that pose the greatest threat to safety, human health, and the environment, DoD uses the Munitions Response Site Prioritization Protocol (MRSP). The MRSP consists of three separate modules to evaluate hazards associated with explosives, chemical warfare materiel, MC, and other incidental environmental contaminants. The MRSP scores affect how DoD sequences MRSs for cleanup. In addition to relative risk, DoD considers other factors such as economic, programmatic, and stakeholder concerns, as well as reuse and redevelopment plans, when prioritizing sites for cleanup.

## II: Acronyms

<b>BD/DR</b>	Building Demolition and Debris Removal
<b>CERCLA</b>	Comprehensive Environmental Response, Compensation, and Liability Act
<b>CHE</b>	Chemical Warfare Material Hazard Evaluation
<b>COMM/REL</b>	Community Relations
<b>CON/HTRW</b>	Containerized/Hazardous, Toxic and Radioactive Waste
<b>CTC</b>	Cost to complete
<b>CWM</b>	Chemical Warfare Material
<b>DD</b>	Decision Document
<b>DERP</b>	Defense Environmental Restoration Program
<b>DOD</b>	Department of Defense
<b>EE/CA</b>	Engineer Evaluation/Cost Analysis
<b>EHE</b>	Explosive Hazard Factor
<b>EP</b>	Evaluation Pending
<b>FFA</b>	Federal Facilities Agreement
<b>FUDS</b>	Formerly Used Defense Sites
<b>FUDSMIS</b>	Formerly Used Defense Sites Management Information System
<b>FS</b>	Feasibility Study
<b>HQDA</b>	Headquarters, Department of the Army
<b>HHE</b>	Health Hazard Evaluation
<b>IAG</b>	Interagency Agreement
<b>IRA</b>	Interim remedial action
<b>IRP</b>	Installation Restoration Program
<b>LTM</b>	Long Term Management
<b>MAP</b>	Management Action Plan
<b>MMRP</b>	Military Munitions Response Program
<b>MMRP/CWM</b>	Military Munitions Response Program/Chemical Warfare Materials
<b>MRSPP</b>	Military Munitions Site Prioritization Protocol
<b>NKSH</b>	No Known or suspected Hazard
<b>NLR</b>	No Longer Required
<b>NPL</b>	National Priorities List
<b>PA</b>	Preliminary Assessment
<b>PA/INPR</b>	Preliminary Assessment/Inventory Project Report
<b>PCO</b>	Project Closeout
<b>PN</b>	Preliminary Negotiations
<b>QA</b>	Quality Assurance
<b>RA</b>	Remedial Action
<b>RA-C</b>	Remedial Action-Construction
<b>RA-O</b>	Remedial Action-Operations
<b>RAB</b>	Restoration Advisory Board
<b>RC</b>	Response Complete

UNCLASSIFIED

<b>RCRA</b>	Resource Conservation and Recovery Act
<b>RD</b>	Remedial Design
<b>RmA-C</b>	Removal Action-Construction
<b>RmD</b>	Removal Design
<b>RI/FS</b>	Remedial Investigation/Feasibility Study
<b>RIP</b>	Remedy in Place
<b>ROD</b>	Record of Decision
<b>RRSE</b>	Relative Risk Site Evaluation
<b>SI</b>	Site Investigation
<b>TAPP</b>	Technical Assistance for Public Participation
<b>TRC</b>	Technical Review Committee

### III. Property Information

---

**FUDS Number:** F10AK0841

**FFID:** AK09799F299500

**Name:** AMAKNAK

---

#### A. Property Description

Dutch Harbor is located on Amaknak Island in Unalaska Bay of Unalaska Island in the eastern Aleutian Islands of Alaska. This site consists of approximately 4,000 acres. The Naval base had two fuel tank farms on Amaknak Island. One was abandoned and removed in 1942. The second, Rocky Point, was leased by the Navy to a private oil company following World War II. Fort Mears Army Base was also constructed on Amaknak Island. One of the tank farms at this site is still in use by a commercial oil company. The site is owned by the City of Unalaska, two native corporations, and a number of private interests. This property is known or suspected to contain military munitions and explosives of concern (e.g., unexploded ordnance) and therefore may present an explosive hazard.

#### B. Locale

**City:** UNALASKA

**State:** AK

**Latitude:** 53.865894

**Longitude:** -166.606367

**Congressional District:** 00

**Size (Acreage):** 188420

#### C. Organization

**Division:** Pacific Ocean Division

**District:** Alaska District

**Phone:** 907-753-2520

#### Current Owners:

Type	Name

Tribe	NATIVE AMERICAN ANCSA The surface land owner is Ounalashka Native Corporation, and subsurface land owner is the Aleut Native Corporation.
-------	---

**D. National Priorities List Status**

The National Priorities List (NPL) is the list of national priorities among the known releases or threatened releases of hazardous substances, pollutants, or contaminants throughout the United States and its territories. The NPL is intended primarily to guide the EPA in determining which sites warrant further investigation.

**National Priorities List (NPL) Status:** Not on the NPL

## E. Project Summaries

The below table outlines all projects that have been identified on this FUDS property. The table provides information on the category of project, the legal driver, the RRSE or MRSP score that is used for prioritization, the total funding for the project, the status of work on the project, and the actual or anticipated remedy in place and response complete dates.

Project Number	Category	Name	Legal Driver	RRSE	MRSP	Status	RIP	RC
0	PA/INPR	PA/INPR Funding				Complete		
01	CON/HTR W	WORK PRIOR TO 1990	CERCLA			Complete	09/1994 Actual	09/1994 Actual
02	PRP/HTR W	ROCKY POINT FUEL FARM	CERCLA			Complete	09/1998 Actual	09/1998 Actual
03	HTRW	PRE-WWII TANK FARM	State			Underway	08/2008 Actual	09/2025 Scheduled
04	HTRW	SUBMAR BASE/SHIP REPAIR	State			Complete	09/2001 Actual	09/2001 Actual
05	HTRW	STRAWBERRY HILL LANDFILL	CERCLA			Complete	09/2001 Actual	09/2001 Actual
06	HTRW	FORT MEARS LANDFILL	CERCLA			Complete	09/2001 Actual	09/2001 Actual
07	MMRP/CW M	Captain's Dock Chem Agent Disposal	CERCLA		EP	Underway	09/2035 Scheduled	09/2035 Scheduled
08	CON/HTR W	DUTCH HARBOR VICINITY	State			Underway	09/2020 Scheduled	09/2020 Scheduled
09	MMRP	Range Complex No. 1	CERCLA		04	Future	09/2045 Scheduled	09/2045 Scheduled
10	PRP/HTR W	Unalaska Powerplant Area PRP	CERCLA			Complete	09/2014 Actual	09/2014 Actual
11	CON/HTR W	Rocky Point Transformers and Pipelines	State			Complete	09/2017 Actual	09/2017 Actual
12	CON/HTR W	Petroleum Contaminated Stockpiles	CERCLA			Complete	09/2015 Actual	09/2015 Actual

## IV. Cleanup Program Summary

### A. Historic Activity

The Navy first acquired land on Amaknak Island for a radio station and other facilities in 1930. Further acquisition occurred in the 1940s. After the Japanese bombing in 1942, housing was moved to Unalaska Island, and the garrison was abandoned in 1947. The Bureau of Land Management made the land available for Native selection. Most of the land on Amaknak Island is now owned by the Ounalashka Corporation. Other landowners include the City of Unalaska, private landowners, and Native allotment holders. There are other contaminated areas around Dutch Harbor. Hazards at this site that resulted from DoD activity include petroleum contamination associated with above ground storage tanks and underground storage tanks. Eligible debris was removed in 1985, and the aqua-fuel systems (except the remaining pipe networks) were removed in 1991. A major removal and remediation effort began in 1997 and continued through 2001.

## V. Installation Restoration Program (IRP)

### A. IRP Summary

Inception of IRP: 10/1986

Projects Identified: 10

Projects at Response Complete: 8

Remedy-in-Place (RIP): 09/2020

Response Complete (RC): 09/2025

IRP completion (including LTM): 09/2025

### B. IRP Schedule

#### Project Schedule

Project No	Category	Site Type	Status	Response Complete
01	CON/HTRW	Building Demolition/Debris Removal	Complete	09/1994 Actual
02	PRP/HTRW	Contaminated Fill	Complete	09/1998 Actual
03	HTRW	Mixed Waste Area	Underway	09/2025 Scheduled
04	HTRW	Landfill	Complete	09/2001 Actual
05	HTRW	Contaminated Fill	Complete	09/2001 Actual
06	HTRW	Contaminated Sediments	Complete	09/2001 Actual
08	CON/HTRW	Underground Storage Tanks	Underway	09/2020 Scheduled
10	PRP/HTRW	Spill Site Area	Complete	09/2014 Actual
11	CON/HTRW	POL (Petroleum/Oil/Lubricants) Lines	Complete	09/2017 Actual
12	CON/HTRW	Contaminated Soil Piles	Complete	09/2015 Actual

#### Phase Schedule

Project No	Phase	Phase Type	Status	Start	End
01	SI	Remedial Response	Complete	10/1988	09/1989
01	RD	Remedial Response	Complete	10/1989	09/1990
01	RA-C	Remedial Action	Complete	10/1993	09/1994
02	PN	PRP	Complete	10/1994	09/1998
02	SI	Remedial Response	Complete	10/1995	09/1996
03	SI	Remedial Response	Complete	10/1995	09/1996
03	RI/FS	Remedial Response	Complete	10/1991	09/2006
03	RD	Remedial Response	Complete	10/1986	09/2006
03	RA-C	Remedial Action	Complete	10/1997	08/2008

UNCLASSIFIED

03	RA-O	Remedial Action	Underway	10/2014	09/2025
03	LTM	Remedial Response	Complete	10/1998	05/2015
04	RI/FS	Remedial Response	Complete	10/1997	09/2001
04	EE/CA	Removal Response	Complete	10/1993	09/1994
04	RD	Remedial Response	Complete	10/1998	09/1999
04	LTM	Remedial Response	Complete	10/2001	06/2002
05	SI	Remedial Response	Complete	10/1993	09/1995
05	RI/FS	Remedial Response	Complete	10/1993	09/2001
05	LTM	Remedial Response	Complete	10/2001	06/2002
06	RI/FS	Remedial Response	Complete	10/1994	09/2001
06	LTM	Remedial Response	Complete	10/2001	09/2007
08	RI/FS	Remedial Response	Complete	10/2005	09/2008
08	RD	Remedial Response	Complete	10/1994	09/2008
08	RA-C	Remedial Action	Underway	10/1994	09/2020
08	LTM	Remedial Response	Complete	10/2011	09/2012
10	PN	PRP	Complete	10/2009	09/2014
11	RmD	Removal Action	Complete	09/2012	12/2013
11	RmA-C	Removal Action	Complete	09/2013	09/2017
12	RmD	Removal Action	Complete	09/2013	09/2013
12	RmA-C	Removal Action	Complete	09/2013	09/2015

**Five-Year Review**

**Status:** No Reviews Planned

**C. Project Descriptions**

Please see **Appendix I** for detailed IRP project descriptions

**D. Costs**

**Funding To Date\* (\$K):** \$23,528

**2019 Funding (\$K):** \$562

**CTC (\$K):** \$0

Project No	Phase	Status	< 2019	2019	2020	2021	2022	2023	2024	2025 +
03	SI	Complete								
03	RI/FS	Complete								
03	RD	Complete								
03	RA-C	Complete								
03	RA-O	Underway								
03	LTM	Complete								
08	RI/FS	Complete								
08	RD	Complete								
08	RA-C	Underway								
08	LTM	Complete								

\*Past costs are approximate and not inflated to reflect current year fiscal dollars.

= phase funded

## VI. Military Munitions Response Program (MMRP)

### A. MMRP Summary

**Inception of MMRP:** 10/1986

**Projects Identified:** 2

**Projects at Response Complete:** 0

**Remedy-in-Place (RIP):** 09/2045

**Response Complete (RC):** 09/2045

**MMRP completion (including LTM):** 09/2069

### B. MMRP Schedule

#### Project Schedule

Project No	Category	Site Type	Status	Response Complete
07	MMRP/CWM	Chemical Weapons	Underway	09/2035 Scheduled
09	MMRP	Multi Use Range	Future	09/2045 Scheduled

#### Phase Schedule

Project No	Phase	Phase Type	Status	Start	End
07	SI	Remedial Response	Complete	10/2002	09/2004
07	RI/FS	Remedial Response	Future	10/2031	09/2032
07	EE/CA	Removal Response	Complete	10/1993	09/1997
07	RD	Remedial Response	Future	10/2033	09/2034
07	RA-C	Remedial Action	Underway	10/1995	09/2035
07	LTM	Remedial Response	Underway	10/2010	09/2069
09	RI/FS	Remedial Response	Future	10/2029	09/2033
09	RA-C	Remedial Action	Future	10/2043	09/2045
09	LTM	Remedial Response	Future	10/2048	09/2064

#### Five-Year Review

**Status:** No Reviews Planned

### C. Project Descriptions

Please see **Appendix II** for detailed MMRP project descriptions

**D. Costs**

**Funding To Date\* (\$K):** \$1,455

**2019 Funding (\$K):** \$0

**CTC (\$K):** \$2,774

Project No	Phase	Status	< 2019	2019	2020	2021	2022	2023	2024	2025 +
07	SI	Complete								
07	RI/FS	Future								
07	EE/CA	Complete								
07	RD	Future								
07	RA-C	Underway								
07	LTM	Underway								
09	RI/FS	Future								
09	RA-C	Future								
09	LTM	Future								

\*Past costs are approximate and not inflated to reflect current year fiscal dollars.

█ = phase funded

## VII. Community Involvement

Since 1993, the Department of Defense (DOD) has supported the development, implementation, and maintenance of the Restoration Advisory Board (RAB) program. Through the RAB program, communities provide input into the decision - making process of DOD's environmental cleanup program. A RAB is a group, equally co - chaired by a DOD representative and a community member, that serves as a forum for exchange of information between government officials and members of the local community on property cleanup issues. In addition to regular RAB meetings, a combination of activities may be conducted to enhance this process. Such activities may include coordinating installation site tours or providing interactive presentations with the use of cleanup technology models. Members of a RAB may include local citizens and representatives of the U.S. Environmental Protection Agency (EPA) and state, local, and tribal governments. The RAB team should reflect the diverse interests of the community and help identify possible issues associated with an installation's environmental cleanup program. RABs provide a link between the community and cleanup decision makers, and should complement other community involvement activities, such as holding public meetings, distributing informative mailings to the public on installation cleanup activities, and establishing local information repositories.

In fiscal year 1998 (FY98), DOD continued to build trust with local communities surrounding military installations by strengthening the RAB program and making new resources available; including the implementation of the Technical Assistance for Public Participation (TAPP) program. The TAPP program was designed to help community members of RABs and TRCs better understand the scientific and engineering issues underlying their properties' environmental cleanup activities. Under TAPP, the installation may contract for an independent technical consultant to advise the RAB on a specific project, which must be identified in the TAPP application. Typical projects may involve reviewing proposed remedial technologies, interpreting health and environmental effects data, or reviewing cleanup documents.

**Reason RAB not Established:** The community has expressed no sufficient, sustained interest in a RAB

---

**APPENDIX I**  
**IRP Project Descriptions**

---

## 1. Identification

---

**Project ID:** 01

**Project Name:** WORK PRIOR TO 1990

**Legal Driver:** CERCLA

**Closeout**

**RIP Date:** 09/1994 Actual

**RC Date:** 09/1994 Actual

---

## 2. Project Description

Project PCO FY2009

## 3. Restoration History

Project 01 marks various cleanup efforts prior to 1990. Amaknak was then divided into several additional projects with different suffixes.

None

## 4. Cleanup/Exit Strategy

No cleanup/exit strategy reported.

## 5. Status

**RRSE:** RC- 09/1994

### Phases

Phase	Status
SI	Complete
RD	Complete
RA-C	Complete

## 1. Identification

---

**Project ID:** 03

**Project Name:** PRE-WWII TANK FARM

**Legal Driver:** State

**Closeout**

**RIP Date:** 08/2008 Actual

**RC Date:** 09/2025 Scheduled

---

## 2. Project Description

The Pre-WWII Tank Farm is located within Management Area No. 4, on the northeast end of Amaknak Island adjacent to Dutch Harbor and Iliuliuk Bay (Figure 2). The site includes the former tank farm and the current Delta Western Fuel Dock area. The site is located on the southwest side of the intersection of Biorka Drive and East Point Road, approximately 200 feet west of the intertidal zone of Dutch Harbor. The contaminants of concern are POL only. The Pre-WWII Tank Farm originally consisted of five wood-stave ASTs. After demolition of the five tanks, approximately 4 feet of clean fill was placed over the entire area. In July 2001, a contractor was selected to treat the remaining contaminated soil using a thermal desorption unit (TDU). RAO groundwater monitoring is progress.

## 3. Restoration History

THIS PROJECT WAS RELEASED FROM PRP STATUS IN 1996. AUTHORIZATION FOR RI/FS, RD, AND RA PORTIONS OF THE HTRW PHASE "PRE-WORLD WAR II TANK FARM ARE A, F10AK-0841-03" WAS RECEIVED, COPY FURNISHED, FROM CEMP-RF ON 24 MAY 93. MRO TRANSFERRED PRP NEGOTIATION AUTHORITY TO NPS.

RA-C complete. RAO continuing.

POL TESTING OF SOIL ON THE UNALASKA BAY SIDE OF THE FORMER FUEL STORAGE SITE WILL BE THE FOCUS OF THIS INVESTIGATION. THE FORMER SITE IS ONLY 50 FEET FROM THE SHORELINE.

#### 4. Cleanup/Exit Strategy

Continue 5 year periodic reviews and groundwater monitoring for petroleum and free-product (POL) until conditions do not represent imminent hazard to health or the environment, then pursue project closeout.

#### 5. Status

RRSE:

##### Phases

Phase	Status
SI	Complete
RI/FS	Complete
RD	Complete
RA-C	Complete
RA-O	Underway
LTM	Complete

## 1. Identification

---

**Project ID:** 04

**Project Name:** SUBMAR BASE/SHIP REPAIR

**Legal Driver:** State

**Closeout**

**RIP Date:** 09/2001 Actual

**RC Date:** 09/2001 Actual

---

## 2. Project Description

HAZARDS ARE SURFACE AND SUBSURFACE CONTAMINATED SOIL, predominantly suspected POL, in the vicinity of Margaret Bay on the Island of Amaknak.

## 3. Restoration History

INPR dated 6 JAN 1994.

THIS PROJECT IS ON HOLD PENDING RESOLUTION OF ITS PRP STATUS. INPR STATES COMMERCIAL CONCERNS OPERATING AT OR NEAR THESE SITES MAY BE RESPONSIBLE PARTIES. HAZARDS ARE SURFACE AND SUBSURFACE CONTAMINATED SOIL.

ADEC does not concur on NDAI determination and will not sign decision document. Adjacent harbor has been determined an impaired water body. USACE position is no contributing release has been found on site to could be tied to harbor contamination. ADEC is requesting more investigation of upland site and harbor under this project.

## 4. Cleanup/Exit Strategy

None

## 5. Status

**RRSE:** RC- 09/2001

**Phases**

<b>Phase</b>	<b>Status</b>
RI/FS	Complete
EE/CA	Complete
RD	Complete
LTM	Complete

## 1. Identification

---

**Project ID:** 05

**Project Name:** STRAWBERRY HILL LANDFILL

**Legal Driver:** CERCLA

**Closeout**

**RIP Date:** 09/2001 Actual

**RC Date:** 09/2001 Actual

---

## 2. Project Description

The Strawberry Hill Landfill is located on Amaknak Island, between Margaret Bay and Rocky Point. The landfill, located on the side of a moderately steep hill known as Strawberry Hill, was constructed in a borrow pit that contained a small pond. The Strawberry Hill Landfill was used as a disposal site for demolished and burned construction waste during WWII. Shortly after construction of the landfill, local residents observed orange staining in the streambed. In 1998, a remedial investigation was conducted to perform drilling activities and collect analytical samples. Elevated levels of arsenic were detected in soil and elevated levels of iron were detected in groundwater and surface water. Additional remedial activities were not recommended because no other contaminants were found at concentrations exceeding regulatory criteria/guidelines.

## 3. Restoration History

Landfill closure obtained through ADEC.

Working with ADEC to closeout site.

## 4. Cleanup/Exit Strategy

RIP/RC complete.

## 5. Status

**RRSE:** RC- 09/2001

### Phases

Phase	Status
-------	--------

UNCLASSIFIED

SI	Complete
RI/FS	Complete
LTM	Complete

## 1. Identification

---

**Project ID:** 06

**Project Name:** FORT MEARS LANDFILL

**Legal Driver:** CERCLA

**Closeout**

**RIP Date:** 09/2001 Actual

**RC Date:** 09/2001 Actual

---

## 2. Project Description

The landfill was constructed by the U .S . Army in June 1942 . It has not been used as a landfill since the closure of Fort Mears in 1947 .

## 3. Restoration History

Following the Japanese bombing of Dutch Harbor on June 3 and 4, 1942 the debris of two barracks and two warehouses , all which had burned to the ground , was disposed of . Warehouse debris, which included a radar set, batteries, and electrical supplies was buried near the Margaret Bay warehouse site . The burial site was the beach area nearby on Unalaska Bay .

## 4. Cleanup/Exit Strategy

Complete Decision Document, implement remedy, achieve RIP/RC, gain regulator concurrence for closeout.

## 5. Status

**RRSE:** RC- 09/2001

### Phases

Phase	Status
RI/FS	Complete
LTM	Complete

## 1. Identification

---

**Project ID:** 08

**Project Name:** DUTCH HARBOR VICINITY

**Legal Driver:** State

**Closeout**

**RIP Date:** 09/2020 Scheduled

**RC Date:** 09/2020 Scheduled

---

## 2. Project Description

CON/HTRW project that is all encompassing throughout Unalaska and Amaknak Island. Additional RmA-C required at some sites.

## 3. Restoration History

RmA-C phase performed in 2015 and 2016.

## 4. Cleanup/Exit Strategy

Project currently in RmA-C addressing POL sources (USTs from buildings) and adjacent soil contamination. RIP/RC anticipated upon completion of all tank and soil removals.

## 5. Status

**RRSE:**

### Phases

Phase	Status
RI/FS	Complete
RD	Complete
RA-C	Underway
LTM	Complete

## 1. Identification

---

**Project ID:** 11

**Project Name:** Rocky Point Transformers and Pipelines

**Legal Driver:** State

**Closeout**

**RIP Date:** 09/2017 Actual

**RC Date:** 09/2017 Actual

---

## 2. Project Description

This CON/HTRW project consists of petroleum-product pipelines, polychlorinated biphenyls (PCB)-containing transformers and transformer vaults, incidental residual petroleum soil contamination, and related ancillary pipelines at the Rocky Point Fuel Farm Area, Amaknak Island, Unalaska, Alaska. This CON/HTRW project includes only DOD responsible facilities and is not to be confused with potential PRP items. Previous removal actions were conducted under the FUDS CON/HTRW Project 08. Project 08 is a property-wide project.

## 3. Restoration History

Presumptive remedy is to remove transformers and fuel containing pipelines. Jan 2011-Project approved.

## 4. Cleanup/Exit Strategy

Removal action complete, achieved regulator concurrence, project closeout complete 9/27/2017.

## 5. Status

**RRSE:** RC- 09/2017

### Phases

Phase	Status
RmD	Complete
RmA-C	Complete

## 1. Identification

---

**Project ID:** 12

**Project Name:** Petroleum Contaminated Stockpiles

**Legal Driver:** CERCLA

**Closeout**

**RIP Date:** 09/2015 Actual

**RC Date:** 09/2015 Actual

---

## 2. Project Description

Disposal of FUDS eligible petroleum POL contaminated soil stockpiles.

## 3. Restoration History

Awarded contract for removal action in Sep 2013. Removal completed in September 2014.

## 4. Cleanup/Exit Strategy

Remove and dispose of POL stockpiles, gain regulator concurrence, and complete project close-out.

## 5. Status

**RRSE:** RC- 09/2015

### Phases

Phase	Status
RmD	Complete
RmA-C	Complete

---

**APPENDIX II**  
**MMRP Project Descriptions**

---

## 1. Identification

---

**Project ID:** 07

**Project Name:** Captain's Dock Chem Agent Disposal

**Legal Driver:** CERCLA

**Closeout**

**RIP Date:** 09/2035 Scheduled

**RC Date:** 09/2035 Scheduled

---

## 2. Project Description

This Formerly Used Defense Site is identified as Amaknak. Amaknak is the small island adjacent to the larger Unalaska Island.

The Unalaska Island, Dutch Harbor, Alaska (Unalaska Island Defense Site) consists of those facilities associated with the operation of the Dutch Harbor Naval Base, plus those defense facilities installed to protect the harbor and its support facilities. Prior to World War II, the Navy had established a communications facility (1911) and weather station (1939) in the Dutch Harbor area. The land for the Naval reservation was withdrawn by Executive Order 5364 dated 5 June 1930. 50,990 acres of this land was Use Permitted to the Army 14 March 1942. The Army acquired an additional 137,430 acres by Executive Order 9153-A dated 30 April 1942.

The major naval facilities at Dutch Harbor consisted of submarine and seaplane bases, plus those activities associated with operating a naval port facility. The Navy also maintained a small landing strip on Amaknak Island. Dutch Harbor was used primarily to support shipping in the Aleutian campaign and for materials being shipped to Soviet Union as part of Lend-Lease.

The Army facilities consisted of Air Defense, Coast Artillery and supporting units. Insufficient level ground was available for construction of an Army Air Field and fighter defense was provided primarily from the airfield at Fort Glenn on Umnak Island.

## 3. Restoration History

OEW removal, HNC project. This project is complete. CEHND conducted a surface and underwater search of sites in FY95. The Phase 2 EE/CA draft report was presented to the public.

Public review period closed 30 Nov 95. The EE/CA was expanded by agreement with OCE in FY93 to include many additional sites on Unalaska Is.

The phase 2 draft EE/CA recommends OEW clearance of some sites, posting warnings for others.  
 Huntsville CX provided munitions trianing for the local EMT and law enforcement on Dutch Harbor.

**4. Cleanup/Exit Strategy**

Conduct RIFS. Implement remedy. Seek project closeout.

**5. Status**

**MRSPP**

MRSPP: 09	EHE: NKSH	CHE: 5	HHE: NKSH
-----------	-----------	--------	-----------

**MRSPP Army Quality Assurance (QA) Panel Review**

Result: Approved with Admin Changes	Date: 2/7/2019
-------------------------------------	----------------

**Media**

No media
----------

**Munitions**

**CWM**

Type: CAIS (chemical agent identification sets)
Location: Suspected (physical evidence)

**Phases**

Phase	Status
SI	Complete
RI/FS	Future
EE/CA	Complete
RD	Future
RA-C	Underway
LTM	Underway

## 1. Identification

---

**Project ID:** 09

**Project Name:** Range Complex No. 1

**Legal Driver:** CERCLA

**Closeout**

**RIP Date:** 09/2045 Scheduled

**RC Date:** 09/2045 Scheduled

---

## 2. Project Description

This Formerly Used Defense Site is identified as Amaknak. Amaknak is the small island immediately adjacent to the larger Unalaska Island.

The Unalaska Island, Dutch Harbor, Alaska (Unalaska Island Defense Site) consists of those facilities associated with the operation of the Dutch Harbor Naval Base, plus those defense facilities installed to protect the harbor and its support facilities. Prior to World War II, the Navy had established a communications facility (1911) and weather station (1939) in the Dutch Harbor area. The land for the Naval reservation was withdrawn by Executive Order 5364 dated 5 June 1930. 50,990 acres of this land was Use Permitted to the Army 14 March 1942. The Army acquired an additional 137,430 acres by Executive Order 9153-A dated 30 April 1942.

The major naval facilities at Dutch Harbor consisted of submarine and seaplane bases, plus those activities associated with operating a naval port facility. The Navy also maintained a small landing strip on Amaknak Island. Dutch Harbor was used primarily to support shipping in the Aleutian campaign and for materials being shipped to Soviet Union as part of Lend-Lease.

The Army facilities consisted of Air Defense, Coast Artillery and supporting units. Insufficient level ground was available for construction of an Army Air Field and fighter defense was provided primarily from the airfield at Fort Glenn on Umnak Island.

## 3. Restoration History

Revised INPR signed 26 JAN 2009. Underground bunkers containing munitions were discovered at Ft. Learnard and ADEC's concern is that there is a similar situation at this project. Area needs to be investigated to either confirm or deny the presence of

underground munitions bunkers.

**4. Cleanup/Exit Strategy**

Conduct RI/FS in outyears. Complete Decision Document. Implement remedy, achieve RIP/RC. Gain regulator concurrence. Pursue project closeout.

**5. Status**

**MRSPP**

MRSPP: 04	EHE: 7	CHE: NKSH	HHE: EP
-----------	--------	-----------	---------

**MRSPP Army Quality Assurance (QA) Panel Review**

Result: Approved	Date: 6/2/2009
------------------	----------------

**Media**

No media
----------

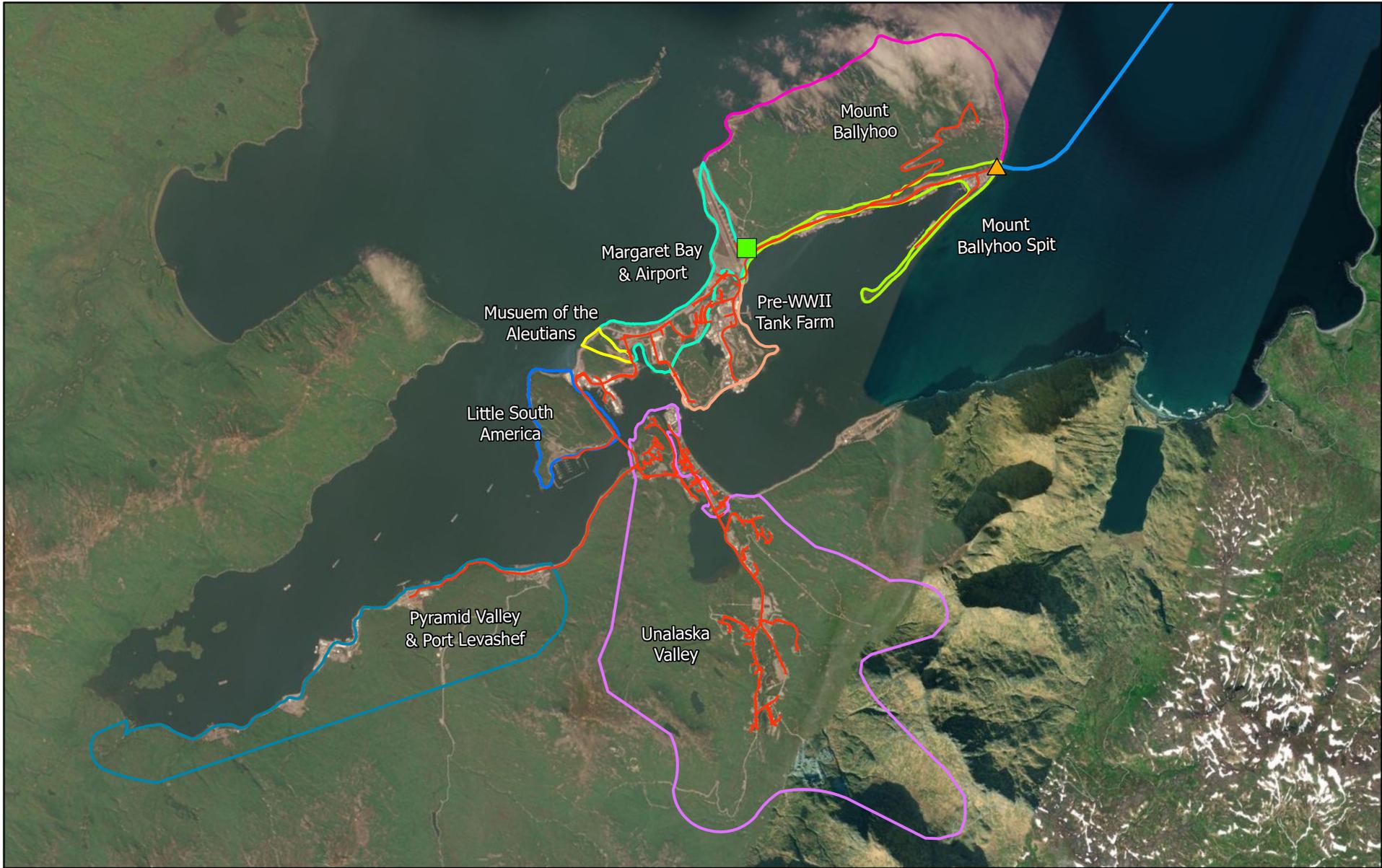
**Munitions**

Type: High explosive (used or damaged)
Source of Hazard: Former range
Location: Suspected (historical evidence)

**CWM**

**Phases**

Phase	Status
RI/FS	Future
RA-C	Future
LTM	Future



<ul style="list-style-type: none"> <li><span style="color: green;">■</span> Existing GCI Facility</li> <li><span style="color: yellow;">▲</span> Beach Manhole</li> </ul>			<b>FUDS within Project Area</b>
<p><b>Installation Method</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">—</span> Terrestrial Fiber Optic Cable</li> <li><span style="color: blue;">—</span> Marine Fiber Optic Cable</li> </ul>			Figure 1
			AU Aleutian
			Date: 5/25/2021