

Attu 2016

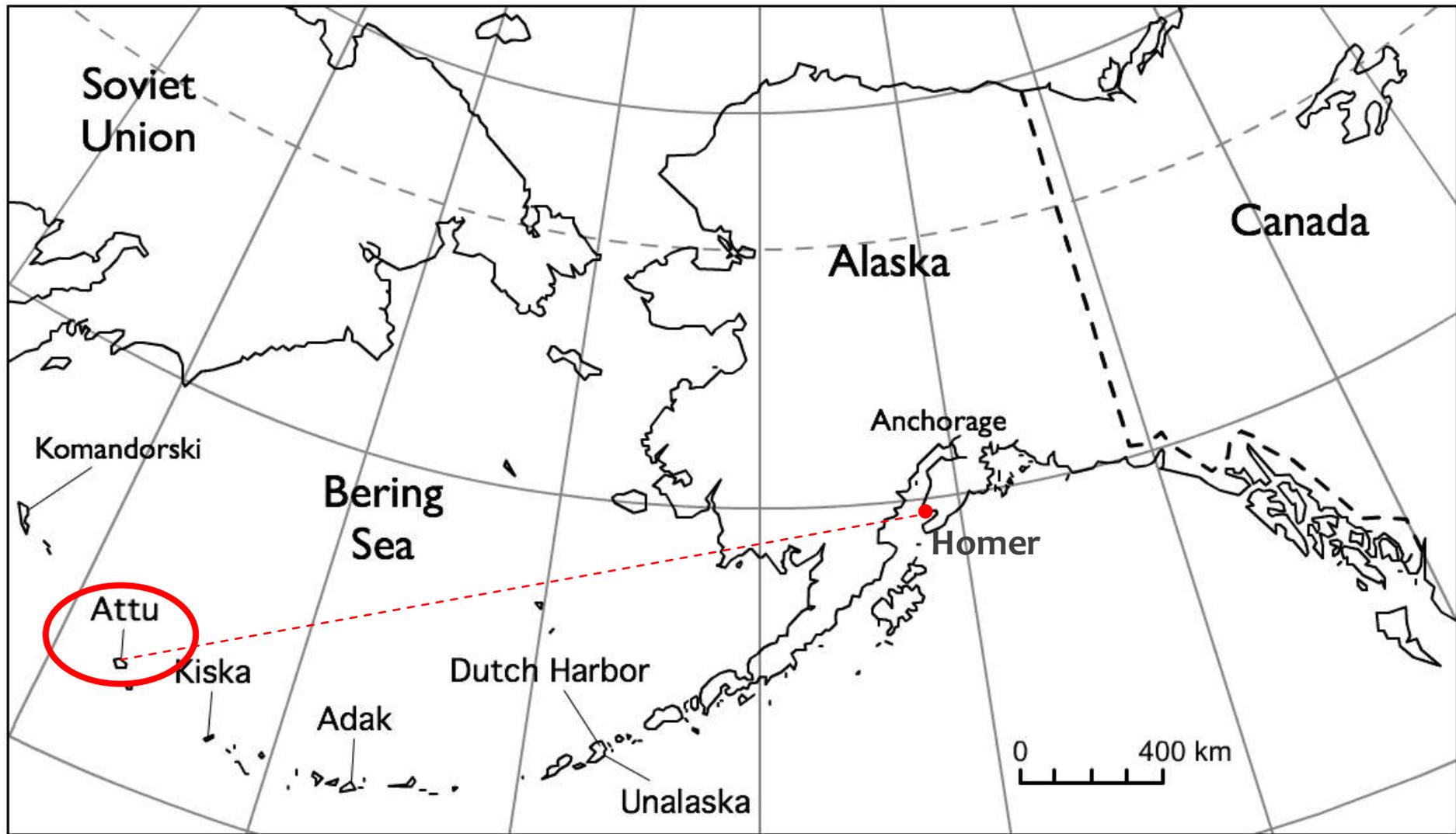
Steps Towards Island Restoration



06.02.2013 09:19

USFWS, Phil Johnson





1,422 miles





- Military occupation and expansion continued for the next 20 years
- U.S. Coast Guard maintained navigational infrastructure from 1969 – 2010
- In 1980 Attu Island was incorporated into the Alaska Maritime National Wildlife Refuge

May 1943 U.S. forces retake Attu

- Following the 3-week battle 549 American lives and approx 2,350 Japanese lives were lost



FORMERLY USED DEFENSE SITE PROGRAM

- Managed by the U.S. Army Corps of Engineers (USACE)
- Addresses contaminated sites located on properties formerly operated or maintained by DoD agencies prior to October 1986
- USFWS works in cooperation with the USACE and the Alaska Department of Environmental Conservation



USFWS, Tim Plucinski





USFWS, Delia Vargas-Kretsinger

Project Lead: USACE, Alaska District

Primary Contractor: Bristol Environmental Services

Subcontractors:

Alaska Minerals – Remote Camp

Northland Services – Marine Transport

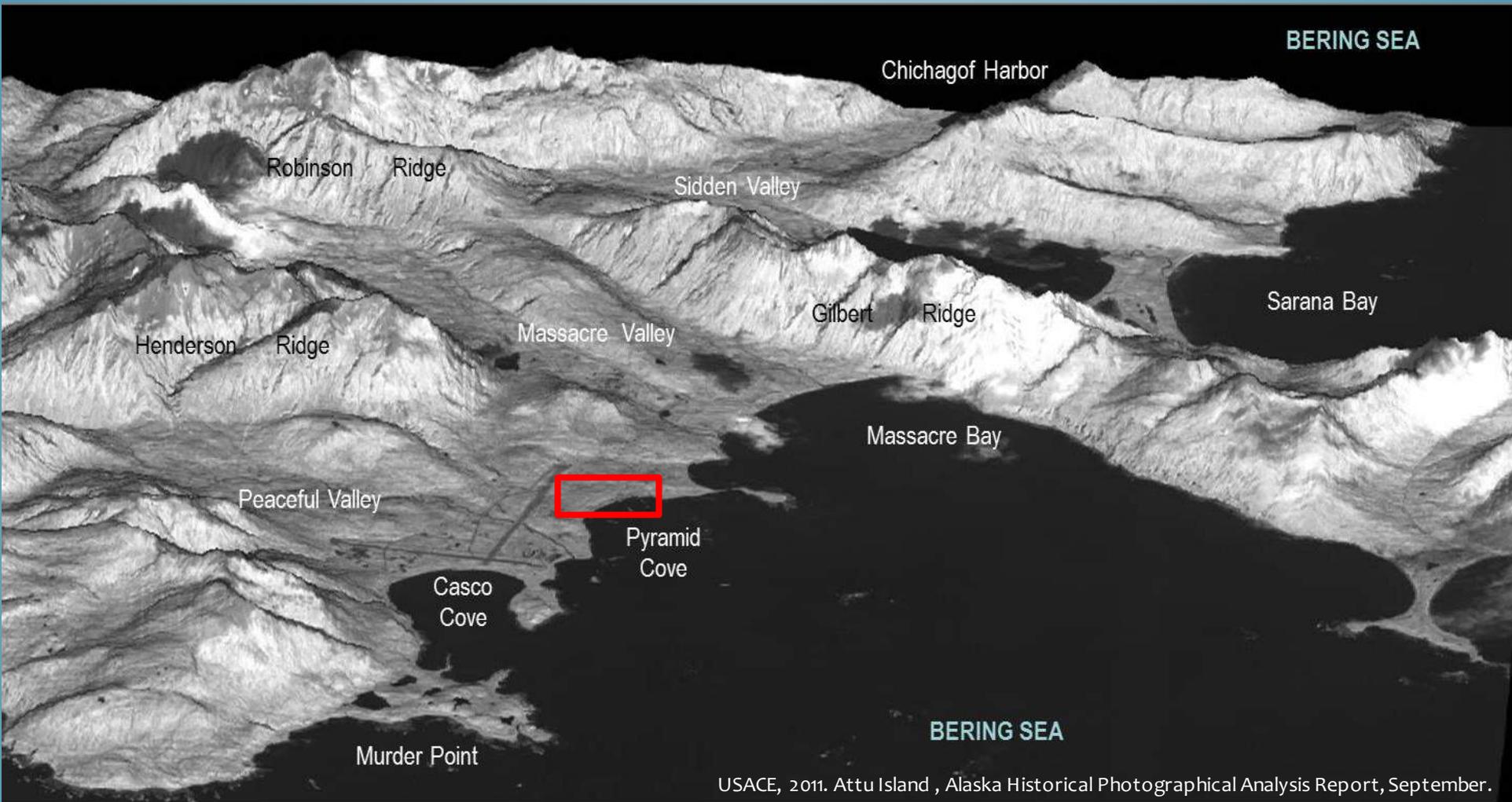
Fairweather – Field Medic

Security Aviation – Air Charter

Waste Management – Solid Waste Disposal

Emerald Alaska – Fuel-Contaminated Soil Recycling





Sites are located In Pyramid Cove

- BEACH AREA

- AST DISPOSAL AREA

AST = Above-Ground Fuel Storage Tank





Currently 30 AOIs identified ranging from 30 acres to > 9,000 acres

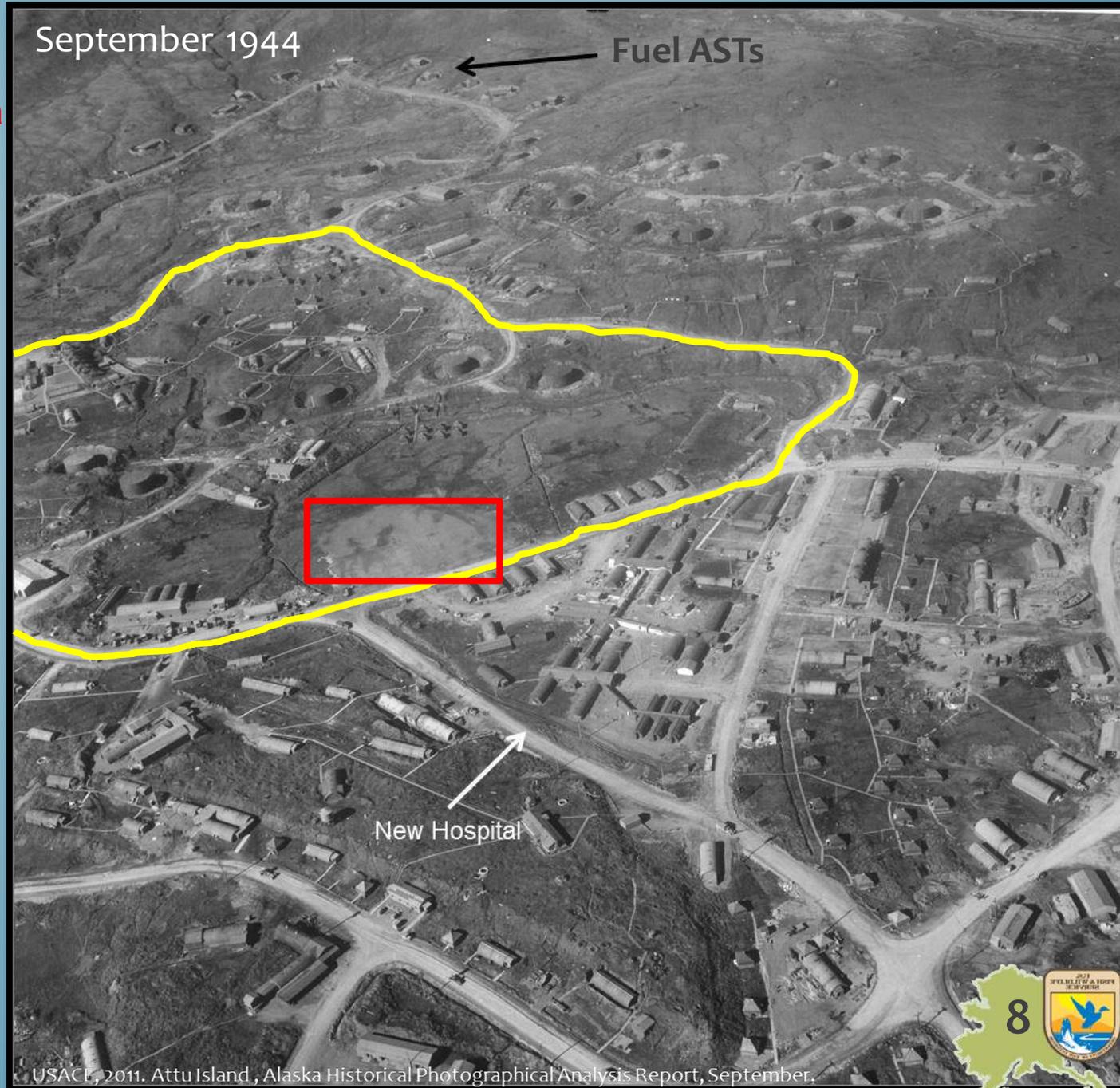
AOI = Area of Interest



AOI 4

AST Disposal Area

- 50+ Portable Fuel ASTs& buoys
- Significant petroleum releases associated w ASTs
- Bird entrapment within petroleum releases was the primary concern
- Bird entrapment w/in tanks also likely



ASTs



USFWS, 2013



USFWS, 2013

06.02.2013 14:47

Leaking ASTs



USFWS, 2013



USFWS, 2013

Bird carcasses in petroleum



USFWS, 2013

06.02.2013 15:30



Ingestion





Carcasses first identified in 2011

Photos taken by Bristol upon arrival in June 2016



Bristol, 2016



Temporary road built to access tanks

Above Ground Fuel Storage Tanks

Tanks emptied and staged for cutting



Tanks cut into pieces



Tank pieces loaded into containers for offsite disposal



USACE, 2016

USACE, 2016

USFWS, 2016

USACE, 2016



Contaminated Soil

Excavation of contaminated soil



USACE, 2016

Contaminated soil rolled up similar to carpet



USACE, 2016

Excavation appeared clean and shallow;
Soil samples will confirm levels of remaining contamination



USACE, 2016



October 1943

AOI 1 Beach Area

- Petroleum release associated w various 55 gallon drums
- Petroleum Burn Pit
- Entrapment risk to birds
- Potential risk to wildlife due to unknown contaminant releases



Pit of burned 55-gallon drums

Petroleum release associated with drums

Excavation of drums and contaminated soil

Loading drums for offsite disposal

Bottom of excavation showing location of soil samples

USFWS, 2013

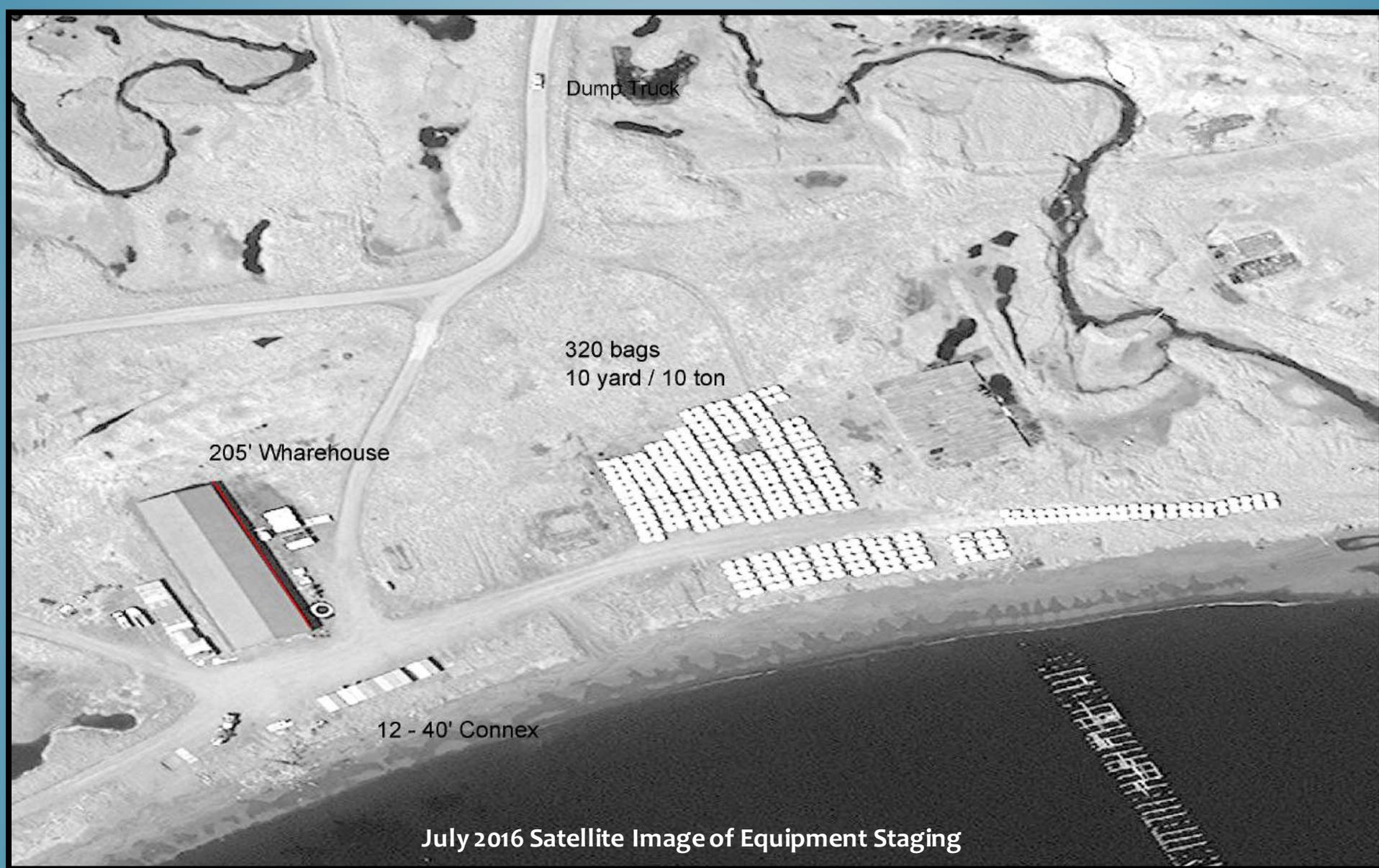
USFWS, 2013

USACE, 2016

USACE, 2016

USACE, 2016





July 2016 Satellite Image of Equipment Staging



9,976 tons of waste shipped offsite for disposal



Displacement of the R/V Tiglax is 580 tons, fueled.

- Contaminated material removed equal to more than 17 Tiglax's.



Field Survey Team

Field survey team mapping additional contaminated sites



Locations and field logged in



Archaeological evaluations



USFWS, Delia Vargas-Kretsinger

USFWS, Tim Plucinski

USFWS, Delia Vargas-Kretsinger



Sites identified during the field surveys:

- Peaceful River Drum Dump
- AST Burn Pile



Drums apparently burned



Peaceful River Drum Dump

USFWS, Tim Plucinski



USFWS, Tim Plucinski

Product seeping into the Peaceful River



USFWS, Tim Plucinski



AST Burn Pile

Large group of burned drums and fuel storage tanks



USFWS, Tim Plucinski

“River” of product oozing downslope towards a wetland.



USFWS, Tim Plucinski





Munitions and Debris Dump

Drums and munitions boxes



Bomb tail fin sections



USFWS, Tim Plucinski

Live .50 caliber munitions and fuses



USFWS, Tim Plucinski

Munitions and Debris Dump

USFWS, Tim Plucinski



ADDITIONAL PHOTOGRAPHS



AST Disposal Area Cleanup



Tank De-Watering



Excavation from a distance with nearly all tanks removed



Beach Area Cleanup



USACE, 2016



Remaining Work



- Fully delineate drums and petroleum releases at the Beach Area
- Excavate drums and contaminated soil for offsite disposal
- Identify list of contaminants and the risks they pose to wildlife

320 bags of contaminated soil staged for offsite disposal



USACE, 2016



Excavating contaminated soil for offsite disposal from a remote Aleutian Island ...



USACE, 2016

\$2.19/pound



Restoring Attu Island as part of the Alaska Maritime National Wildlife Refuge ...



USFWS, Delia Vargas-Kretsinger



PRICELESS!



Video Clip

KTVA Channel 11 News

TOXIC CLEANUP ON ATTU, Part 1



06.02.2013 09:13

