

STATE OF ALASKA

DEPARTMENT OF MILITARY AND VETERANS AFFAIRS

FACILITIES MANAGEMENT OFFICE

Sean Parnell. GOVERNOR

P.O. BOX 5-549
FT. RICHARDSON, ALASKA
99505
PHONE: (907) 428-6867
FAX: (907) 428-6767

Deb Caillouet
Department of Environmental Conservation
Division of Spill Prevention and Response, Contaminated Sites Program
555 Cordova St.
Anchorage, AK 99501

September 25, 2007

Subject: RECORD OF DECISION- Clean-up Complete Determination, Alaska Army National Guard Wales
Federal Scout Armory.

Dear Ms. Caillouet,

The Alaska Army National Guard Environmental Section is pleased to submit the final Record of Decision, Clean-up Complete Determination for the Wales Federal Scout Armory.

Facilities Management–Environmental Department would like to extend our appreciation for working with our Restoration Department to obtain Clean-up Complete status for Wales Federal Scout Armory.

If additional information is needed, I can be reached at 428-6866.

Sincerely,



Herbert "Gil" Guillery
Environmental Program Manager

Enclosure
Record of Decision (Final) AKARNG Wales Federal Scout Armory

CF:
Jennifer Jancauskas
Project File
ARE Read File
FMO Read File

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Spill Prevention and Response
Contaminated Sites Program

RECORD OF DECISION- Cleanup Complete Determination
Alaska Army National Guard Wales Federal Scout Armory

Introduction

Site Name and Location:

Alaska Army National Guard Wales Federal Scout Armory (FSA)

A parcel of land located within Township 2 North, range 45 West, Kateel River Meridian, Cape Nome Recording District, Second Judicial District, State of Alaska. The parcel is further described as follows:

Commencing at the northeast corner of the Wales Native Corporation building,
Thence North 21° 56' West, a distance of 1238.04 feet, more or less, to Corner No. 1 of a lot designated as the T.V. Dish Lot;
Thence along the northwesterly boundary of said lot and parallel with the southeasterly boundary of an existing 20 foot road right of way, North 23 ° 04'30" East, a distance of 20.11 feet, more or less, to Corner No. 2 of said lot;
Thence North 39 °51' East a distance of 50.00 feet, more or less, to Corner No. 3 of said lot;
Thence crossing said road right of way on a bearing of North 50 °09' West a distance of 20.00 feet, to the northwesterly boundary of said road and the TRUE POINT of BEGINNING:

Thence continuing North 50 °09' West, a distance of 60.00 feet, more or less;
Thence North 39 °51' East, a distance of 100.00 feet, more or less;
Thence South 50 °09' West, a distance of 60.00 feet, more or less;
Thence South 39 °51' West, a distance of 100.00 feet to the Point of Beginning.
Contains 0.13 acres, more or less (see attached).

Name and Mailing Address of Contact Party:

Herbert Guillory
Department of Military & Veteran's Affairs
Facilities Management Division
PO Box 5-549
Ft. Richardson, AK 99505-0549

Database Record Key and File Number:

ADEC Reckey No. 1998320103002
File: # 540.38.003
Hazard ID: 3096

Regulatory authority under which the site is being cleaned up:

18 AAC 75

Background

Site Information

The village of Wales is located on Cape Prince of Wales, which lies at the western tip of the Seward Peninsula, 111 miles northwest of Nome (Attachment 1, Figure 1). The Wales FSA is located on property near the north edge of town that is owned by the village of Wales native corporation. The property is between the fork in the road that leads northwest to the Navy Station and northeast to the Airport (Attachment 1, Figure 2). Soil typically consists of sandy, loamy, and peaty layers over permafrost. The site topography is characterized by relatively level, low-lying terrain with thaw lakes and marshland. Surface water on site generally drains eastward toward a culvert and drainage gully, which in turn drains southward into a lagoon at the mouth of Village Creek.

Shallow groundwater in the area can be found during the summer thaw months in the suprapermafrost "active zone" layer. This water is classified as seasonally perched active layer water. Deeper, sub-permafrost groundwater, is generally encountered at depths from approximately 25 to 40 feet bgs. Six drinking water wells were drilled in this aquifer and all had to be abandoned due to brackish water conditions or insufficient production rates. Two new wells currently serve the village. These new wells are located southeast of the armory and east of town, upgradient from the known potential sources of contamination. The two new wells were completed in fractured bedrock at depths of 60 feet below ground surface and each produce at a rate of approximately 100 gallons per minute. These wells have replaced all the previous wells and drinking water sources for the village.

A 3,000-gallon release of heating oil occurred at the site in November 1985. The release affected the area immediately surrounding the former 3,000-gallon fuel tank at the south corner of the armory. Subsequent response actions using containment berms, sorbent booms, and fuel/water separation tanks recovered an undetermined amount of the fuel. A 1990 investigation by the Alaska Army National Guard (AKARNG) noted an area saturated with fuel associated with a leaking drum of Jet A1 fuel near the east corner of the armory.

Site History

A preliminary assessment and site investigation were conducted in August 1996. This investigation evaluated several areas of concern, but only identified contamination exceeding the ADEC Method One Level D soil cleanup levels in one area; the area immediately surrounding the former 3,000-gallon fuel tank.

A remedial investigation (RI) was conducted in 1998 to delineate the nature and extent of the contamination. Over 50 soil samples were analyzed for petroleum hydrocarbons. Laboratory results from the investigation showed contamination at the former 3,000-gallon fuel tank location, the Jet A1 fuel drum storage area, and in a gully that runs parallel to the northeast end of the armory. The source of the contamination in the gully was not identified.

A follow-on RI was conducted in 2006. This RI included a site inspection and sampling of soil, sediment, surface water, and groundwater. The purpose of the investigation was to provide additional characterization of the site, specifically in the areas where contamination had been previously identified. Thirty-seven soil borings were drilled at the site. Field

screening was conducted with a photoionization detector (PID) and soil samples were collected from 23 borings. Field screening and laboratory analysis confirmed the presence of petroleum hydrocarbons at three locations. The highest contaminant concentrations were detected in a sample collected to characterize a soil stain associated with a leaking 55-gallon drum at the north corner of the armory (Attachment 1, Figure 4). The surface soil sample from this location had concentrations of 6,600 mg/Kg DRO, 2,400 mg/Kg GRO, 0.66 mg/Kg benzene, and 20,000 mg/Kg residual range organics (RRO). Other areas with elevated hydrocarbon concentrations were identified at the south and east corners of the armory, where spills from the 3,000-gallon AST and Jet A1 fuel drums had previously been documented (Attachment 1, Figure 4).

Sediment sampling was conducted at four locations along the drainage gully running parallel to the north end of the armory. The purpose of the sampling in the gully was to evaluate the possibility that an upgradient contaminant source was responsible for sheen observed in 1996 and DRO detected during the 1998 RI field investigation. The maximum concentrations of DRO and RRO detected in sediment samples from the gully in 2006 were 40 and 100 mg/Kg, respectively..

Surface water sampling was conducted at three locations along the gully to evaluate possible upgradient contaminant sources and to determine if on-site contamination could be affecting the local surface water. Laboratory results from the surface water samples detected no petroleum hydrocarbons above the method detection limits. These results indicate that neither upgradient sources nor on-site sources of contamination are significantly impacting the surface water as it flows across the site.

Contaminants of Concern

- Gasoline Range Organics (DRO)
- Diesel Range Organics (DRO)
- Residual Range Organics (RRO)
- Benzene

Cleanup Levels

The Wales FSA site meets the conditions detailed in 18 AAC 75.350 to determine that the groundwater is not a potential drinking water source. As such, the applicable pathways to determine the appropriate cleanup levels for the site are the ingestion and inhalation pathways. The site is located in the under 40'' zone and the cleanup levels for site from 18 AAC 75.341 and are shown below:

Gasoline Range Organics (GRO)	1400 mg/Kg
Diesel Range Organics (DRO)	10250 mg/Kg
Residual Range Organics (RRO)	10000 mg/Kg
Benzene	11 mg/Kg

The volume of potentially impacted soil based on the 2006 Remedial Investigation is approximately one cubic yard of soil associated with a used oil spill at the northeast corner of the armory. This soil exceeds the proposed cleanup level for Residual Range Organics only. The Alaska Army National Guard (AKARNG) and ADEC believe that this release does not

pose a risk to human health, safety, or welfare, or to the environment and that the removal of this soil is not necessary.

Pathway Evaluation

The inhalation of outdoor air and incidental soil ingestion exposure pathways are complete. The volume of potentially impacted soil based on the 2006 Remedial Investigation is approximately one cubic yard of soil associated with a used oil spill at the northeast corner of the armory. This soil exceeds the proposed cleanup level for Residual Range Organics only. The Alaska Army National Guard (AKARNG) and ADEC believes that this release does not pose a risk to human health, safety, or welfare, or to the environment and that the removal of this soil is not necessary.

The exposure pathway analysis above was supported by the most recent ADEC Exposure Tracking Model (ETM) ranking. The ETM results showed all pathways to be Incomplete or de minimus.

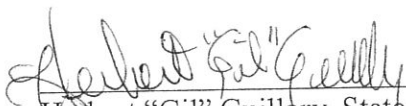
Cleanup Complete Determination

Natural Attenuation of the petroleum compounds has reduced the level of contamination. Based on the information available, ADEC has determined no further assessment or cleanup action is required. There is no longer a risk to human health or the environment, and this site will be designated as "Cleanup Complete" on the Department's database.


Although a Cleanup Complete Determination has been granted, ADEC approval is required for off-site soil disposal in accordance with 18 AAC 75.325(i). However, because of the low volume remaining, this letter will serve as your approval for future off-site movement and disposal of soil associated with this release. It should be noted that movement or use of potentially contaminated soil in a manner that results in a violation of 18 AAC 70 water quality standards is unlawful.

This determination is in accordance with 18 AAC 75.380(d) and does not preclude ADEC from requiring additional assessment and/or cleanup action if future information indicates that this site may pose an unacceptable risk to human health or the environment.

The undersigned parties concur with this Record of Decision for the Wales FSA.



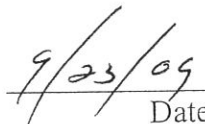
Herbert "Gil" Guillory, State Environmental Manager
Alaska Army National Guard



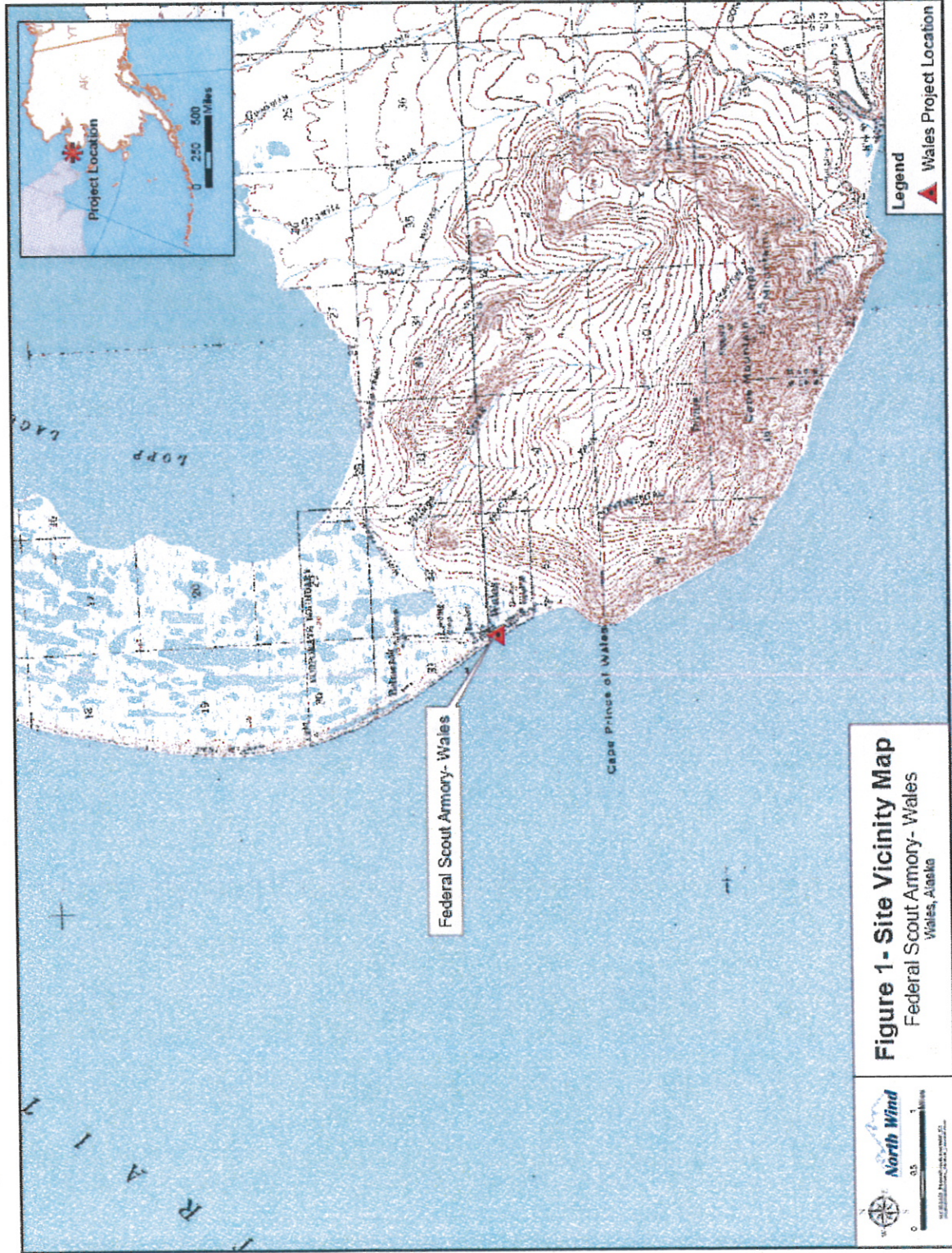
Date



Deb Caillouet, Environmental Specialist
ADEC Contaminated Sites Program



Date



Federal Scout Armory
Wales, Alaska

North Wind, Inc.
NW-1603-022

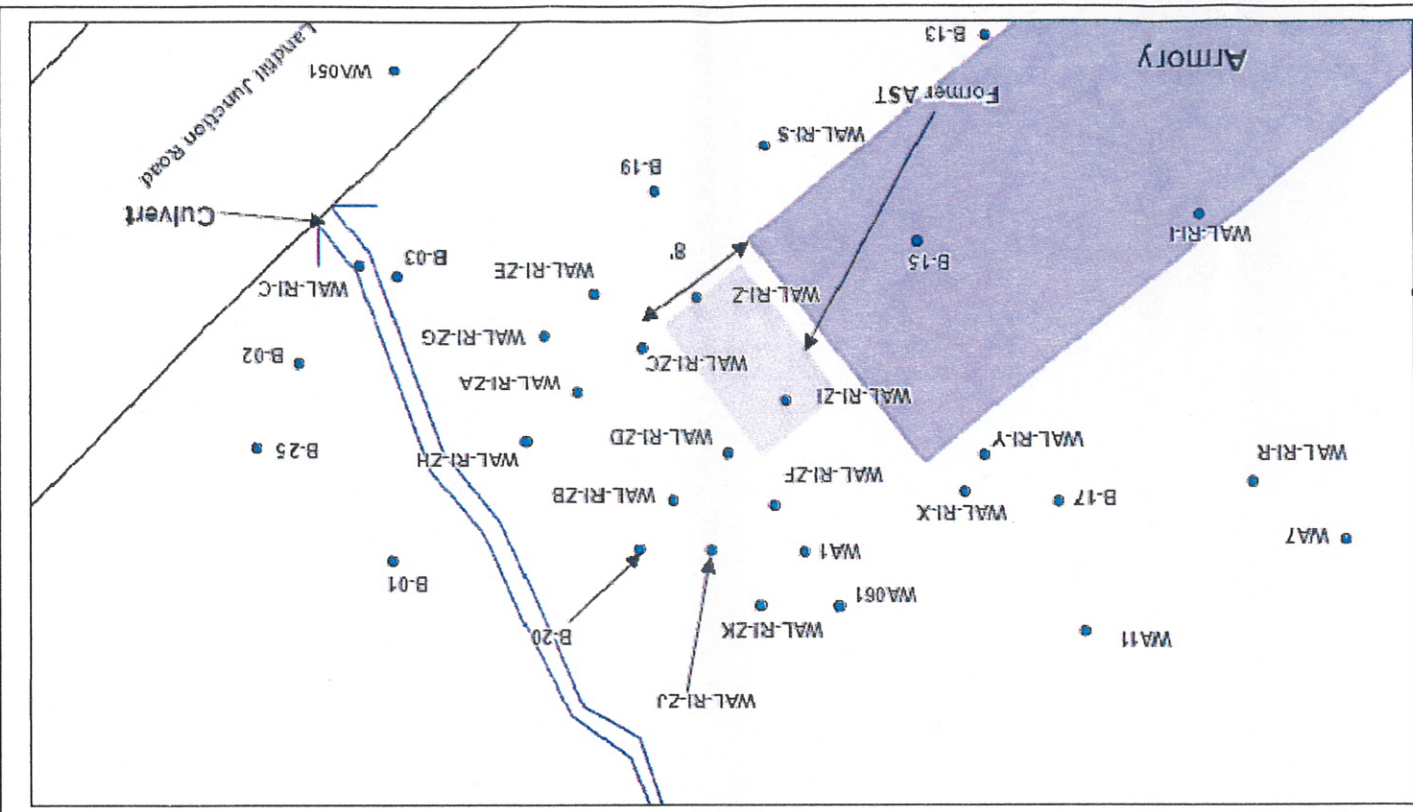
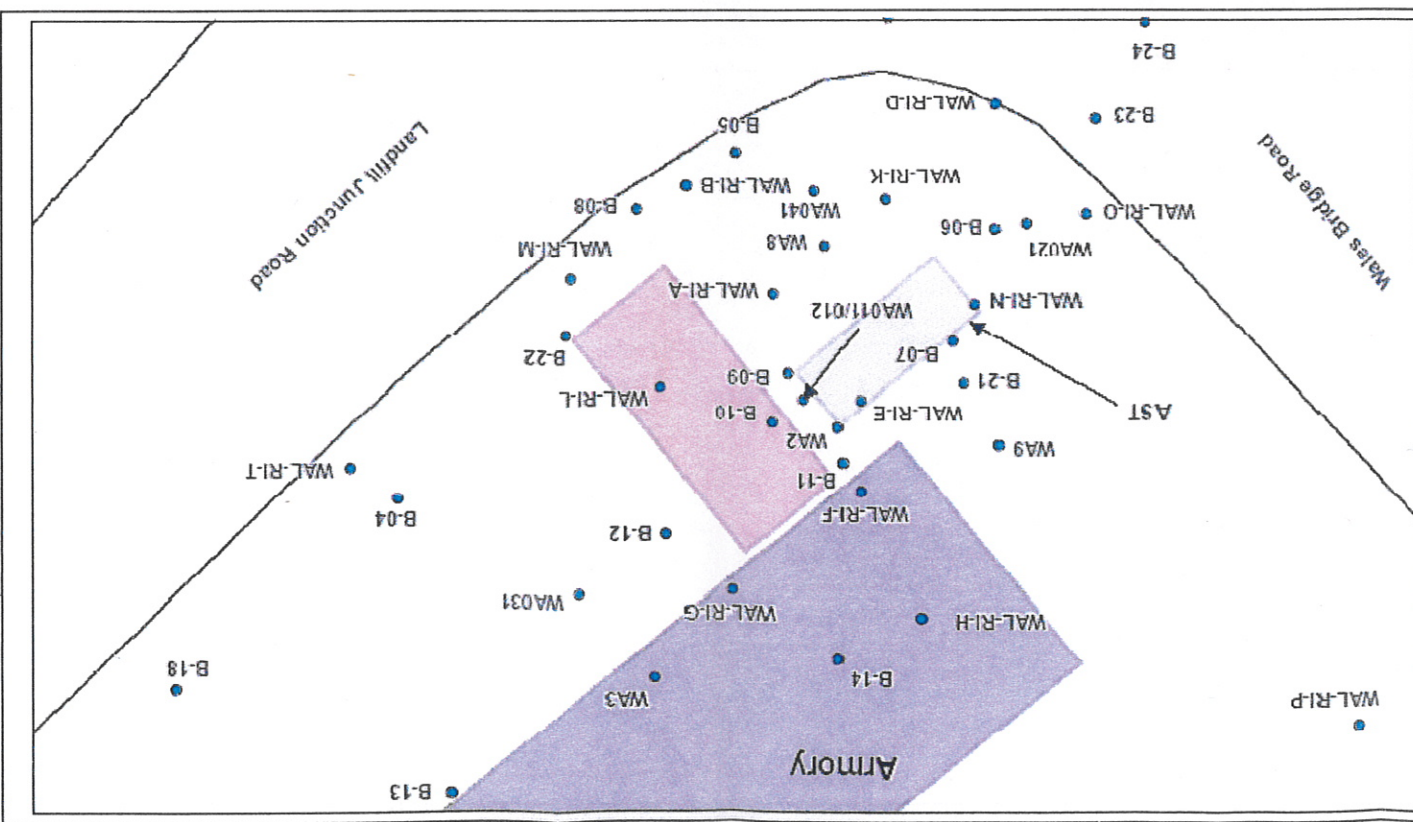


Figure 4- Extent of Contamination
Federal Scout Armory - Wales
Wales, Alaska

Notes:
 -ND(##) = Not Detected above practical quantitative limits in parentheses
 -N/A = Not Analyzed
 -NS = Not Sampled
 -Projected in Universal Transverse Mercator Zone 8 North
 -AST = Above ground storage tank
 -DRO = Diesel Range Organics (mg/kg)
 -TPH = Total Petroleum Hydrocarbon (ppm)
 -mg/kg = milligrams per kilograms
 -ppm = parts per million

Sample ID	Depth (feet)	DRO (mg/kg)	TPH (ppm)
WA051	0.5	267	65
WA061	0.5	240	87
WA1	0.5	NS	<30
WA7	0.5	NS	<30
WA041	0.5	9.8	ND
WA11	0.5	NS	15000



Field Screening and Analytical Results from Preliminary Assessment/ Site Investigation (Coggan, 1998)

Sample ID	Depth (feet)	DRO (mg/kg)	TPH (ppm)
WA011	0.5	6200	5600
WA012	0.5	8100	9020
WA021	0.5	23	92
WA031	0.5	220	55
WA041	0.5	9.8	ND
WA2	0.5	NS	15000
WA3	0.5	NS	520
WA8	1.5	NS	1000
WA9	0.5	NS	<30
WA13	0.5	NS	<30

Sample ID	Depth (feet)	DRO (mg/kg)	DRO (mg/kg)
B-01	1	11000	1400
B-01-2	2	1400	4400
B-02	1	4400	4400
B-02-2	2	4400	4400
B-03	1	500	500
B-03-2	5.5	710	500
B-13	1	ND(140)	ND(140)
B-13-2	5.5	240	240
B-15	1	ND(14)	ND(14)
B-15-2	1.5	ND(12)	ND(12)
B-17	1	ND(13)	ND(13)
B-17-2	3	ND(12)	ND(12)
B-19	1	30	30
B-19-2	3	ND(11)	ND(11)
B-20	1	3300	3300
B-20-2	3.5	340	340
B-25-2	3	ND(12)	ND(12)

Sample ID	Depth (feet)	DRO (mg/kg)	DRO (mg/kg)
B-04	1	34	1100
B-04-2	4	14	1300
B-05	1	14	1300
B-05-2	2	24	1300
B-06	1	3700	3700
B-06-2	3.5	400	400
B-07	1	730	730
B-07-2	4	440	440
B-08	1	60	60
B-08-2	5	730	730
B-09	1	ND(120)	ND(120)
B-09-2	3	2700	2700
B-10	1	2600	2600
B-10-2	3	2900	2900
B-11	1	54	54
B-11-2	1	1400	1400
B-12	1	30	30
B-12-2	3	1400	1400
B-13	1	ND(140)	ND(140)
B-13-2	5.5	240	240
B-14	1	ND(12)	ND(12)
B-14-2	1.5	ND(11)	ND(11)
B-18	1	13	13
B-18-2	3	580	580
B-21	1	25	25
B-21-2	3.5	ND(11)	ND(11)
B-22	1	100	100
B-22-2	3.5	2400	2400
B-23	1	ND(11)	ND(11)
B-23-1	3.5	1300	1300

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Bering Strait

Federal Scout Armory- Wales

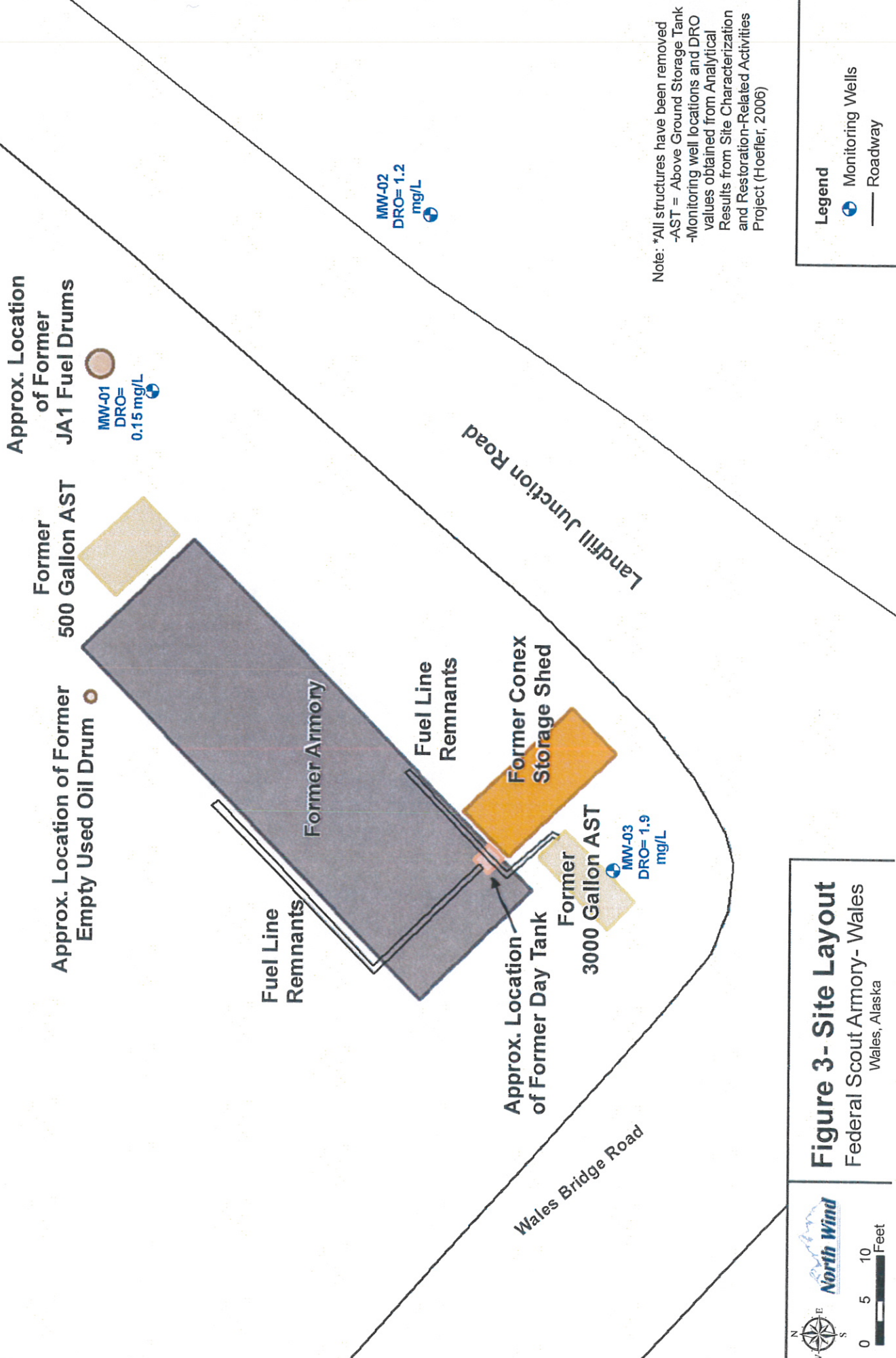


Figure 2- Site Area
Federal Scout Armory- Wales
Wales, Alaska

Legend



Wales Project Location



Approx. Location of Former JA1 Fuel Drums

MW-01
DRO= 0.15 mg/L

Former 500 Gallon AST

Approx. Location of Former Empty Used Oil Drum

Former Armory

Fuel Line Remnants

Former Conex Storage Shed

Former 3000 Gallon AST

MW-03
DRO= 1.9 mg/L

MW-02
DRO= 1.2 mg/L

Note: *All structures have been removed
 -AST = Above Ground Storage Tank
 -Monitoring well locations and DRO values obtained from Analytical Results from Site Characterization and Restoration-Related Activities Project (Hoefler, 2006)

Legend
 Monitoring Wells
 Roadway

Figure 3- Site Layout
 Federal Scout Armory- Wales
 Wales, Alaska

North Wind
 0 5 10 Feet
 N
 W E S

USE PERMIT
FOR
ALASKA NATIONAL GUARD PURPOSES
AT
WALES, ALASKA

The U. S. Department of the Army, (hereinafter called the Government), Anchorage, Alaska, is hereby granted a permit to use and occupy for Alaska National Guard purposes in accordance with applicable laws and regulations the following described tract which is located within a reservation established by a proclamation of the Interior Department dated June 19, 1943, for the use and occupancy of the Native inhabitants of the Village of Wales, Alaska, and vicinity:

Alaska National Guard Site at Wales, Alaska: Beginning at Corner No. 8 of U. S. Survey 779, thence N. 25° W. 1160 feet to the true point of beginning; Thence S. 65° W. 140 feet; thence N. 25° W. 140 feet; thence N. 65° E. 140 feet; thence S. 25° E. 140 feet to the true point of beginning, containing 0.45 acres, more or less.

This permit is granted subject to the following provisions and conditions:

1. That this permit is for the period from May 1, 1959 to April 30, 1984.
2. That this permit grants to the Government the right to construct a prefabricated building on the tract of land hereinbefore described to be used and occupied by the local unit of the Alaska National Guard.
3. That this permit grants to the Government the right of ingress and egress to the tract of land hereinabove described at any and all times for the purpose of constructing, operating and maintaining an Alaska National Guard building as may be necessary for use by the local unit of the Alaska National Guard.
4. That the Government shall directly or indirectly provide all costs of constructing, operating and maintaining an Alaska National Guard building on the land hereinabove described.
5. That the Government shall directly or indirectly operate and maintain the Alaska National Guard building in good repair during the term of this permit.
6. That the Government shall save the Council of the Native Village of Wales harmless for any liability or claim arising from the possession, use, maintenance and operation of the property or the fulfillment of the obligation of the Government hereunder.

7. That the Government shall not except as provided herein, assign or transfer its rights or interests under this permit or transfer possession of, or dispose of the property or any part thereof, or create or permit a lien or charge upon or claim against the property or any part thereof, without the consent of the Council of the Native Village of Wales and the approval of the Area Director, Juneau Area Office, Bureau of Indian Affairs, Juneau, Alaska, evidenced in writing.
8. That the Government shall have the right to issue a use permit to the Alaska National Guard, State of Alaska for the operation and maintenance of the building specified herein providing the provisions of this use permit are included therein.
9. That this permit may be renewed upon its expiration for an additional period of 25 years provided that the property is still being used for Alaska National Guard purposes at that time; that when the property ceases to be used for the purpose stated herein, this permit shall be terminated.
10. That when the land hereinabove described has been abandoned by the Government for Alaska National Guard purposes, the ownership of any improvements constructed thereon shall revert to the Native Village of Wales, excepting however, that the Government shall have the right to remove such improvements within one year after the termination of this use permit.
11. In so far as may be consistent with the existing laws, preference to all employment, for which they are qualified, shall be given to the members of the Native Village of Wales.

In Witness Whereof and by the Direction of the Council of the Native Village of Wales, I have hereunto set my hand and seal, this 1st day of May, 1959.

FOR THE COUNCIL OF
THE NATIVE VILLAGE WALES

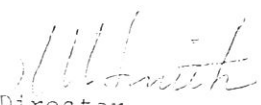
By Dwight J. Jank
President

The U. S. Department of the Army hereby consents and agrees to the foregoing provisions and conditions.



GEORGE S. WRIGHT
Civil Real Estate Division
U. S. Army Engineer District, Alaska
CONTRACTING OFFICER

Approved pursuant to authority contained in Order No. 551 dated March 9, 1951 from the Commissioner, Bureau of Indian Affairs, re delegating authority contained in the Secretary of the Interior's Order No. 2503 dated January 11, 1949.



Area Director
Juneau Area Office
Bureau of Indian Affairs



WHEREAS, the U. S. Department of the Army, Alaska, Alaska, desires to obtain a permit to use and occupy for Alaska National Guard purposes, the following described tract of land which is located within a reservation established by a Proclamation of the Interior Department dated June 19, 1973 for the use and occupancy of the Native inhabitants of the Village of Iliamna:

Alaska National Guard Site at Iliamna, Alaska: Beginning at Corner No. 3 of U. S. Survey 774; thence S. 25° W. 1100 feet to the true point of beginning; thence S. 65° W. 150 feet; thence N. 25° E. 140 feet; thence N. 65° E. 240 feet; thence N. 25° E. 140 feet to the true point of beginning, containing 0.45 acres, more or less.

WHEREAS, the issuance of said permit to use and occupy the tract of land hereinabove described for Alaska National Guard purposes does hereby meet with the approval of the Council of the Native Village of Iliamna;

THEREFORE BE IT RESOLVED, that the Council of the Native Village of Iliamna is hereby authorized to transmit the said use permit to the U. S. Department of the Army for Alaska National Guard purposes covering the tract of land hereinabove described;

Introduced, passed and adopted at Iliamna, Alaska, this 1st day of May, 1974.

Alvin A. Zerk
President
Native Village of Iliamna

Attest:

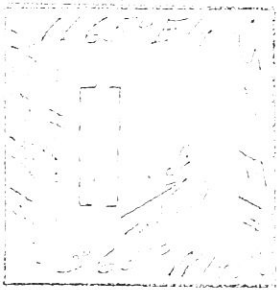
Jonas K. Yikina
Secretary

MALES

Proposed Approx Site

W. L.
W. L.

16 miles
S. 1600
W. 1600
N. 1600
E. 1600



1150' N 30° W
1150'

Highway

1/2 mi. road

1/2 mi. road
1/2 mi. road

1/2 mi. road
1/2 mi. road
1/2 mi. road
1/2 mi. road



Wales National Guard Site
New Location
Wales (Kingegah), Alaska

LEGAL DESCRIPTION

0.13±Acres

A parcel of land located within Township 2 North, Range 45 West, Kateel River Meridian, Cape Nome Recording District, Second Judicial District, State of Alaska; said parcel being more particularly described as follows:

COMMENCING at the northeast corner of the Wales Native Corporation building;

Thence North $21^{\circ}56'$ West, a distance of 1238.04 feet, more or less, to Corner No. 1 of a lot designated as the T.V. Dish Lot;

Thence along the northwesterly boundary of said lot and parallel with the southeasterly boundary of an existing 20 foot road right of way, North $23^{\circ}04'30''$ East, a distance of 20.11 feet, more or less, to Corner No. 2 of said lot;

Thence North $39^{\circ}51'$ East, a distance of 50.00 feet, more or less, to Corner No. 3 of said lot;

Thence crossing said road right of way on a bearing of North $50^{\circ}09'$ West, a distance of 20.00 feet, to the northwesterly boundary of said road and THE TRUE POINT of BEGINNING;

Thence continuing North $50^{\circ}09'$ West, a distance of 60.00 feet, more or less;

Thence North $39^{\circ}51'$ East, a distance of 100.00 feet, more or less;

Thence South $50^{\circ}09'$ East, a distance of 60.00 feet, more or less;

Thence South $39^{\circ}51'$ West, a distance of 100.00 feet to the Point of Beginning.

Contains 0.13 acres, more or less.

DHO
7 Jan 85

EXHIBIT A