# **FINAL**

# Preliminary Assessment Report Bethel Army Aviation Operating Facility and Armory Alaska

Perfluorooctane-Sulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA) Impacted Sites ARNG Installations, Nationwide

October 2019

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Contract Number: W912DR-12-D-0014 Delivery Order: W912DR17F0192

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# **Acronyms and Abbreviations**

°F degrees Fahrenheit

AAOF Army Aviation Operating Facility
AECOM Technical Services, Inc.

AFFF aqueous film forming foam
AKARNG Alaska Army National Guard

AOI area of interest

ARNG Army National Guard

CERCLA Comprehensive Environmental Response, Compensation, and Liability

Act

EDR Environmental Data Resource

FSS Fire Suppression System

FTA fire training area

PA Preliminary Assessment

PFAS per- and poly-fluoroalkyl substances

PFOA perfluorooctanoic acid

PFOS perfluorooctanesulfonic acid

US United States

USACE United States Army Corps of Engineers

USEPA United States Environmental Protection Agency

# **Executive Summary**

The United States Army Corps of Engineers Baltimore District on behalf of the Army National Guard (ARNG)-Installations & Environment Division, Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform Preliminary Assessments (PAs) and Site Inspections for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at ARNG Facilities Nationwide. The ARNG is assessing potential effects on human health related to processes at facilities that used per- and poly-fluoroalkyl substances (PFAS) (a suite of related chemicals), primarily in the form of aqueous film forming foam (AFFF) released during firefighting activities or training, although other PFAS sources are possible.

AECOM completed a PA for PFAS at Bethel Army Aviation Operating Facility (AAOF) and Armory in Bethel, Alaska to assess potential PFAS release areas and exposure pathways to receptors. Bethel AAOF provides training and maintenance for the various aviation units that support the Alaska Army National Guard (AKARNG). The facility includes a hangar and armory, occupied by the AKARNG from 1995 and 2011, respectively, continuing into the present day. Prior to the midnineties the AKARNG leased a different building, the Former AKARNG AAOF facility, located a half mile north on a different parcel of airport property. The former facility was occupied by AKARNG prior to obtaining AFFF for use in fire suppression. The Bethel Armory is used for administration purposes and has neither served as a firehouse nor housed AFFF in any form.

The performance of this PA included the following tasks:

- Reviewed data resources to obtain information relevant to suspected PFAS releases
- Conducted a 1-day site visit that included visual site inspections at known PFAS locations on 31 August 2018, and documented with photographs
- Interviewed current Bethel AAOF personnel during the site visit including the Facility Manager

Based on the documented absence of the use/release of PFAS-containing materials, evidence does not support current or former ARNG activities as having contributed to PFAS contamination in soil, groundwater, surface water, or sediment at the facility or adjacent areas. No areas of interest related to potential PFAS release were identified at Bethel AAOF or Armory based on PA data. A summary of findings is presented in **Figure ES-1**.

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### 1. Introduction

# 1.1 Authority and Purpose

The United States (US) Army Corps of Engineers (USACE) Baltimore District on behalf of the Army National Guard (ARNG)-Installations & Environment Division, Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform *Preliminary Assessments (PAs) and Site Inspections for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at ARNG Facilities Nationwide* under Contract Number W912DR-12-D-0014, Task Order W912DR17F0192, issued 11 August 2017, and Modification 01 issued 30 September 2017. The ARNG is assessing potential effects on human health related to processes at their facilities that used per- and poly-fluoroalkyl substances (PFAS) (a suite of related chemicals), primarily releases of aqueous film forming foam (AFFF) although other sources of PFAS are possible. In addition, the ARNG is assessing businesses or operations adjacent to the ARNG facility (not under the control of ARNG) that could potentially be responsible for a PFAS release.

PFAS are classified as emerging environmental contaminants that are garnering increasing regulatory interest due to their potential risks to human health and the environment. PFAS formulations contain highly diverse mixtures of compounds. Thus, the fate of these PFAS compounds in the environment varies. The regulatory framework at both federal and state levels continues to evolve. The US Environmental Protection Agency (USEPA) issued Drinking Water Health Advisories for PFOA and PFOS in May 2016, but there are currently no promulgated national standards regulating PFAS in drinking water. In the absence of federal maximum contaminant levels, some states, have adopted their own drinking water standards for PFAS. In August 2018, the Alaska Department of Environmental Conservation established non-promulgated action levels (70 parts per trillion) for PFOA and PFOS in groundwater water and surface water used for drinking water.

This report presents findings of a PA for PFAS at Bethel Army Aviation Operating Facility (AAOF) and Armory in Bethel, Alaska in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, the National Oil and Hazardous Substances Pollution Contingency Plan (40 Code of Federal Regulations Part 300), and USACE requirements and guidance.

This PA Report documents potential locations where PFAS containing materials are stored and have the potential to be released into the environment at or adjacent to the Bethel AAOF and Armory. The term PFAS will be used throughout this report to encompass all PFAS chemicals being evaluated, including PFOS and PFOA, which are key components of AFFF.

# 1.2 Preliminary Assessment Methods

The performance of this PA included the following tasks:

- Reviewed data resources to obtain information relevant to suspected PFAS releases
- Conducted a 1-day site visit that included visual site inspections at known PFAS locations on 31 August 2018, and documented with photographs
- Interviewed current Bethel AAOF personnel during the site visit including the Facility Commander

### 1.3 Report Organization

This report has been prepared in accordance with the USEPA *Guidance for Performing Preliminary Assessments under CERCLA* (USEPA, 1991). The report sections and descriptions of each are:

- **Section 1 Introduction:** identifies the project purpose and authority and describes the facility location, environmental setting, and methods used to complete the PA
- **Section 2 Fire Training Areas:** describes the fire training areas (FTAs) at the facility identified during the site visit
- **Section 3 Non-Fire Training Areas:** describes other locations of potential PFAS releases at the facility identified during the site visit
- Section 4 Emergency Response Areas: describes areas of potential PFAS release at the facility, specifically in response to emergency situations
- **Section 5 Adjacent Sources:** describes sources of potential PFAS release adjacent to the facility that are not under the control of ARNG
- Section 6 Conceptual Site Model: describes the pathways of potential PFAS transport and receptors at the facility
- **Section 7 –Conclusions:** summarizes the data findings and presents the conclusions and uncertainties of the PA
- Section 8 References: provides the references used to develop this document
- Appendix A Data Resources
- **Appendix B** Preliminary Assessment Documentation
- Appendix C Photographic Log

# 1.4 Facility Location and Description

The Bethel AAOF and Armory are on the west side of the Bethel Airport, approximately 3 miles from downtown Bethel, the largest community in Alaska's Unorganized Borough with a population of a little over 6,000 persons (**Figure 1-1**). The AAOF is on the western bank of the Kuskokwim River, approximately 65 miles inland from the Bering Sea. The Bethel Census Area contains just over 17,000 inhabitants in an area of some 45,500 square miles (USCB, 2018).

Consisting of two blocks within Lot 1, the Bethel AAOF and Armory are operated by the Alaska ARNG (AKARNG) as an aviation operating facility and a reserve readiness center, respectively. The AAOF is in Block 50 and the Armory in Block 60. The AAOF comprises two buildings, asphalt and concrete pavement, water and fuel/oil storage tanks, gates and fences. The AAOF is connected by taxiway to the Bethel Airport runways. Together, the two facilities occupy 15 acres.

The AAOF was leased for 55 years in 1996 until 2051 and the current 25-year lease for the Armory will expire in 2024. In addition the AKARNG leased the parcel of property where the former AAOF was located (Lot 10B, Block 4). The lease for this facility begun on 6 March 1968 and was set for termination upon the completion of the new AAOF in the early nineties. The Alaska Guard began using AFFF in the mid-1990s, well after AFFF came into wide spread use by the Department of Defense (1970). Given this time frame of use by AKARNG, the former AAOF is not associated with the storage or use of AFFF.

# 1.5 Facility Environmental Setting

The facility is within the Yukon Delta National Wildlife Refuge, an approximately 30,000-square mile refuge comprising a large section of western Alaska. The refuge is largely unforested, with a 5 percent tree cover existing predominately along the margins of the Yukon and Kuskokwim Rivers. The refuge is home to a vast population of wildlife with over 200,000 water birds (i.e. loons, cranes, and swans) returning here each spring from their winter migration in addition to the terrestrial, amphibious, marine life, and non-migratory bird populations (USFWS, 2018b).

#### 1.5.1 Geology

Alaska is predominately covered by an extensive Quaternary deposit consisting of poorly consolidated fluvial, glaciofluvial, colluvial, eolian, and shallow marine sediments. The nearby Kuskokwim Group to the southeast of the facility typically includes the interbedded greywacke and shale of a flysch deposit, indicating a near-shore marine depositional environment (Wilson et Al., 2015b), but has also been shown to include deeper deltaic deposits and contain material from cherty and volcanic sedimentary provenances (Box et Al., 1993). Because of the multiplicity of source material and depositional environments, the Late Cretaceous age given to the Kuskokwim Group has been interpreted variously by others as slightly older (Early Cretaceous) or slightly younger (Paleocene).

The area is glacial tundra, primarily sedge grasses and fine-grained, poorly sorted, poorly consolidated till deposits. Most soils in the area are silty, acidic, poorly drained, and are unsuitable for urban or agricultural uses. Bethel is within the area of sporadic permafrost, defined as where permafrost underlies 10 – 50 percent of the landscape with a soil temperature range of -5 to 0 degrees Celsius. Permafrost depths in the area range from 300 to 600 feet (INE, 2008).

### 1.5.2 Hydrogeology

Groundwater is variously available in amounts ranging from great to small due to the sporadic permafrost coverage (**Figure 1-2**). Permafrost hydrologically separates most of the ground in the area, requiring wells to be drilled to a depth of 400 feet or more (Waller, 1957). Clast size of the bedrock exhibits strong control over transmissivity, with coarser material bearing more water. Static groundwater levels, determined from wells drilled in the area (EDR, 2018), range from 9 to 38 feet below ground surface. The permafrost ground creates seasonal fluctuations in rock transmissivity and well production rates. Static water levels are also directly affected by the stages of the river and the tides; water levels in a well near the Bethel Hospital regularly fluctuate approximately 10 feet throughout the year. Based on the USEPA Unregulated Contaminant Monitoring Rule 3 data, it was indicated that no PFAS was detected in a public water system above the USEPA Health Advisory level within 20 miles of the facility.

# 1.5.3 Hydrology

The facility is approximately 2 miles from the western shore of the Kuskokwim River (**Figure 1-3**). The river is mostly channelized but exhibits braiding in places where the loosely consolidated underlying sediment cannot give resistance to the meandering forces of the river. Its convoluted branches range from seventy-five feet to over half a mile wide across its main channel. The tundra surrounding Bethel is classified by the United States Fish and Wildlife Service as freshwater, sparsely wooded, palustrine wetland, seasonally saturated and in some areas affected by the tidal influences of the Kuskokwim River (USFWS, 2018a). The landscape is dotted with lakes and streams.

Flooding is the only geophysical hazard of concern in Bethel; earthquakes are possible, but atypical, and the nearest volcano is over 250 miles to the southeast. Flooding typically occurs in

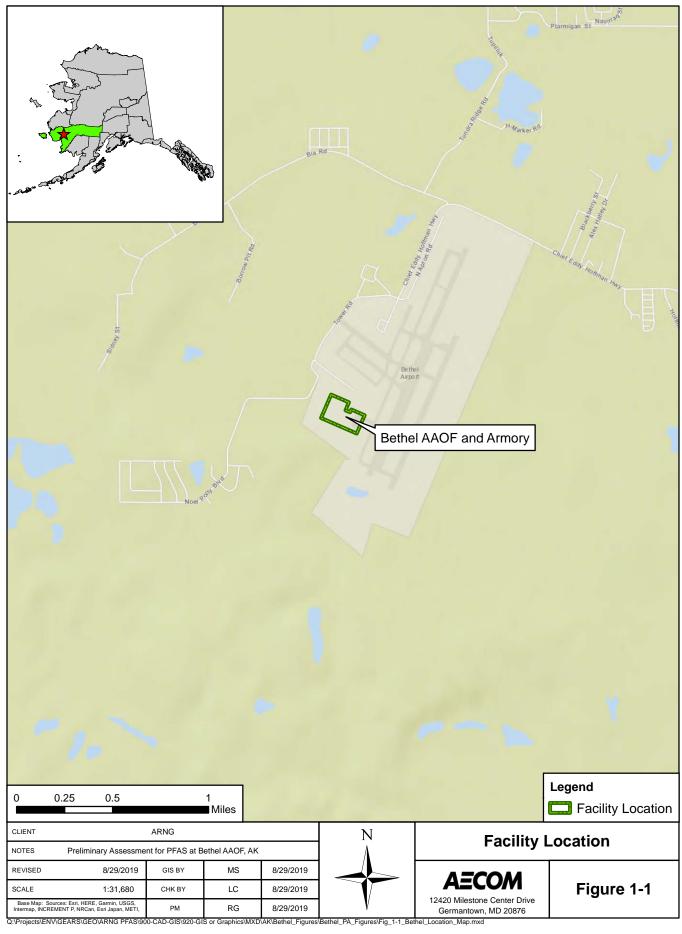
spring when thick build-up of river ice experiences rapid warming and in the late summer, when the heaviest rainfall occurs (USACE, 1968). The AAOF lies on the relatively higher topography, which exhibits better drainage and is less susceptible to flooding than the lower lying surrounding lands.

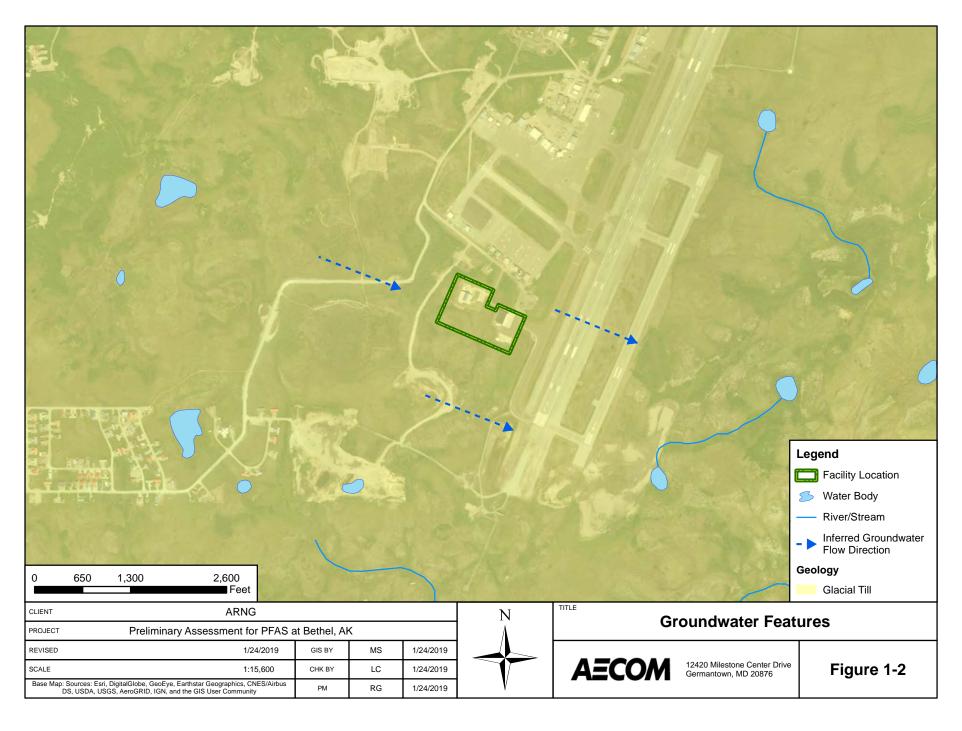
#### 1.5.4 Climate

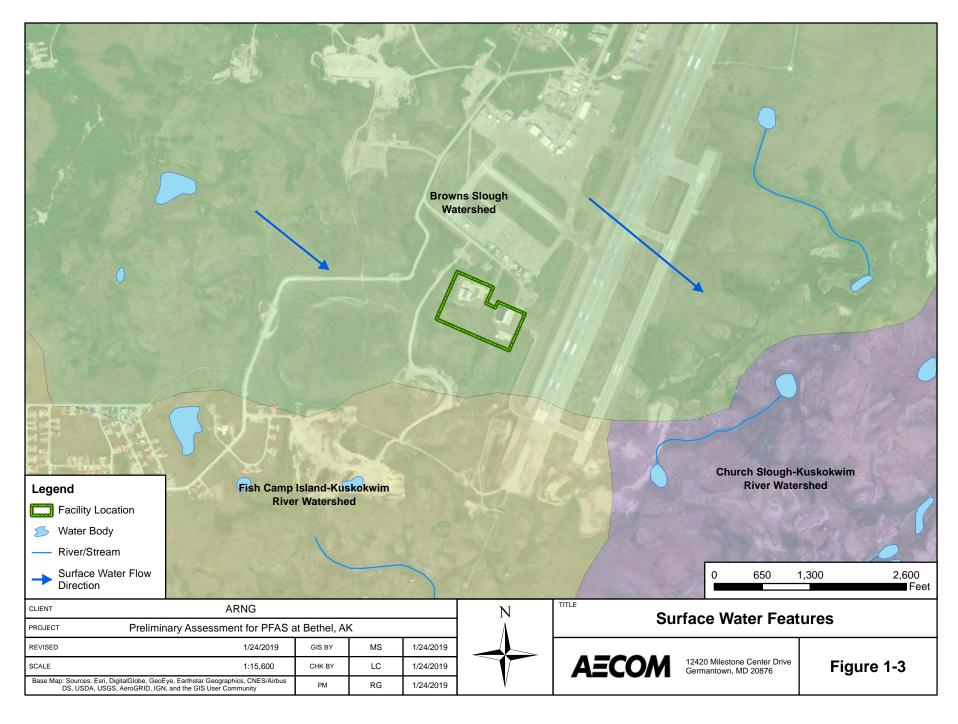
Bethel's climate is cool during the summer when temperatures tend to be in the 50s and extremely cold during winter when temperatures tend to be zero. The warmest month of the year is July with an average maximum temperature of 63.10°F (degrees Fahrenheit), while the coldest month of the year is January with an average minimum temperature of 0.70°F. The annual average precipitation is 16.18 Inches. Rainfall is evenly distributed throughout the year. The wettest month of the year is August with an average rainfall of 3.02 inches (IDcide, 2018).

#### 1.5.5 Current and Future Land Use

The property is currently under lease by the AKARNG and is operated as an AAOF which services aircraft for the AKARNG. The AKARNG has leased the AAOF parcel from the Alaska Department of Transportation until 2051. Reasonably anticipated future land use is not expected to change from the current land use described above.







# 2. Fire Training Areas

No FTAs were identified at Bethel AAOF and Armory during personnel interviews or the site visit. FTAs are considered a primary potential release area for PFAS because of the common use of AFFF in training events. The Bethel Municipal Fire Department serves as the first responder to emergencies at Bethel AAOF. Combined agency exercises involving municipal and AKARNG are scheduled annually, but AFFF is not utilized during training activities. One TRI-MAX 30 crash cart is onsite and has never been used. Annual AKARNG training on TRI-MAX use is limited to the classroom.

# 3. Non-Fire Training Areas

Two non-FTAs were identified during the PA. A description of each non-FTA is presented below, and the non-FTAs are shown on **Figure 3-1**. Interview records appear in **Appendix B**. Photographs of each non-FTA appear in **Appendix C**.

#### 3.1 Bethel AAOF

The Bethel AAOF Hangar (60°4631.44"N, 161°5045.91"W) has been continuously occupied by the AKARNG since 1995, a few years after its construction, and is equipped with an AFFF Fire Suppression System (FSS), supplied with AFFF by two 800-gallon tanks. The FSS has had no reported releases; however, the AFFF tank has a leaky sight gauge. The gauge only leaks when checked, and less than one quart of AFFF foam is discharged each time the tank is serviced. Servicing is performed by a third-party company, Frontier Fire. According to interviews with the maintenance lead, the system has been serviced twice in the past ten years. Each release is wetmopped immediately and disposed of through the facility's drainage system. The facility drainage system is connected to an RGF Environmental sediment/hydrocarbon filter, which does not filter for PFAS, and waste water is not chemically tested before or after being filtered. A contained septic tank holds the waste water until it is pumped out by a Bethel municipal service. Because the AFFF released during system servicing was contained and removed by subcontractors, the Bethel AAOF is not considered a potential PFAS release area.

# 3.2 Bethel Armory

The Bethel Armory is adjacent to the northwest of the AAOF hangar (60°4635.46"N, 161°5055.07"W). The Bethel Armory has been occupied by the AKARNG since 2011 and is a reserve readiness center and was not investigated during the PA; however, the use and storage of AFFF is unlikely because the Armory provides administrative and organizational support to the AKARNG.



# 4. Emergency Response Areas

No instances of emergency response were identified at Bethel AAOF and Armory during the PA based on interviews, online research, and the Environmental Data Resource (EDR) report (EDR, 2018; **Appendix A**). Interviewees highlighted their history of zero incidents at the facility (**Appendix B**).

# 5. Adjacent Sources

Three off-site PFAS sources adjacent to the Bethel AAOF and Armory were identified during PA interviews (**Appendix B**) or in the EDR report (**Appendix A**). Adjacent sources are shown on **Figure 5-1**.

### 5.1 Bethel Airport Fire Department

The Bethel Airport Fire Department is maintained by the Alaska Department of Transportation and is required by the Federal Aviation Administration to perform a yearly hydrostatic testing of their equipment; annually a single short blast of AFFF is released from the firetruck onto the Fire Department's front ramp. The Bethel Airport Fire Department is hydrologically downgradient from the AAOF and Armory. The type, amount, and concentration of AFFF used during annual nozzle testing are unknown.

# 5.2 Skyvan Crash

In 1992, a Skyvan crashed approximately 800 feet southeast of the former Bethel AAOF in a patch of grass between two taxiways (60°4652.18"N, 161°5019.50"W). The crash was responded to by the Bethel Municipal Fire Department with 500 gallons each of AFFF and water. According to personnel interviews the fire was extinguished in less than 8 minutes. The type and concentration of AFFF used during the emergency response is unknown.

#### 5.3 Former AKARNG AAOF

The former AKARNG Bethel AAOF hangar was operational from the 1960s until the new AAOF was built in the early 1990s. It is located at coordinates 60°4655.56"N, 161°5033.19"W, approximately a half mile north of the current AAOF and Armory. The AKARNG did not acquire AFFF until after this former AAOF was decommissioned in the early 1990s, therefore, the former AAOF is not associated with the storage or usage of AFFF.



# 6. Preliminary Conceptual Site Model

Based on the PA findings, no release areas were identified as areas of interest (AOIs) at Bethel AAOF and Armory. A conceptual site model identifies three components necessary for potentially complete exposure pathways related to a site: (1) source, (2) pathway, and (3) receptor. If any of these elements are missing, the pathway is considered incomplete. Based on the findings of this PA, there are no PFAS sources that originate at Bethel AAOF and Armory.

### 7. Conclusions

This report presents a summary of available information gathered during the PA on PFAS-related activities at Bethel AAOF and Armory. The PA findings are based on the information presented in **Appendix A** and **Appendix B**.

# 7.1 Findings

No AOIs related to PFAS release were identified at Bethel AAOF and Armory during the PA. Based on the documented containment of released AFFF at the Bethel AAOF, evidence does not support current or former ARNG activities at the facility having contributed to PFAS contamination in soil, groundwater, surface water, or sediment at the facility or adjacent areas (**Figure 7-1**).

The following areas discussed in **Section 2** through **Section 5** were determined to have no suspected PFAS releases to the environment (**Table 7-1**).

Table 7-1: No Suspected Release Areas

No Suspected Release Area	Used by	Rationale for No Suspected Release Determination	
Bethel AAOF	AKARNG	The FSS has been serviced twice in the past ten years. Foam was only released during testing and is wet-mopped up immediately. The mop water is disposed of through the facility's drainage system, which is connected to a septic tank. The water in the septic tank is pumped out and disposed of by a Bethel municipal service.	
Bethel Armory AKARNG		The use and storage of AFFF is unlikely because the Armory provides administrative and organizational support to the AKARNG.	

# 7.2 Uncertainty

A number of information sources were investigated during this PA to determine the potential for PFAS-containing materials to have been present, used, or released at the facility. Historically, documentation of PFAS use was not required because PFAS were considered benign. Therefore, records were not typically kept by the facility or available during the PA on the use of PFAS in training, firefighting, other non-traditional activities, or on its disposition.

The conclusions of this PA are predominantly based on the information provided during interviews with personnel who had direct knowledge of PFAS use at the facility. Sometimes the provided information is vague or conflicts with other sources. Gathered information has a degree of uncertainty due to the absence of written documentation, the limited number of personnel with direct knowledge due to staffing changes, the time passed since PFAS was first used (early 1990s), and a reliance on personal recollection. Inaccuracies may arise in potential PFAS release locations, dates of release, volume of releases, and the concentration of AFFF used. There is also a possibility the PA has missed a potential source of PFAS, as the science of how PFAS may enter the environment continually evolves.

In order to minimize the level of uncertainty, readily available data regarding the use and potential storage of PFAS were reviewed, retired and current personnel were interviewed, multiple persons

were interviewed for the same potential source area, and the facility was visually inspected. The following **Table 7-2** summarizes the uncertainties associated with the PA.

**Table 7-2: Uncertainties** 

Area of Interest	Source of Uncertainty	
Bethel Municipal Waste Water Treatment Plant	No or limited information was available on the treatment of waste water once removed from AKARNG property by municipal services.	
Bethel Airport Fire Department	The type, amount, and concentration of AFFF used during annual nozzle testing are unknown.	

# 7.3 Potential Future Actions

Based on the documented absence (mid-1990s - present) of the use or release of PFAS-containing materials at Bethel AAOF, no AOIs were identified during the PA. Evidence does not indicate that current or former ARNG activities contributed PFAS contamination to soil, groundwater, surface water, or sediment at the facility or adjacent areas. Bethel AAOF will not move forward in the CERCLA process.



### 8. References

ASCG Incorporated of Alaska (ASCG). 2008. Local Hazards Mitigation Plan, City of Bethel, Alaska. 12 March 2008.

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Wilson, F. H.; Hults, C. P.; Mull, C. G.; Karl, S. M. 2015b. *Geologic Map of Alaska*. USGS Scientific Investigations Map 3340, Pamphlet to Accompany.

# Appendix A Data Resources

Data Resources will be provided separately on CD. Data Resources for Bethel AAOF include:

#### Leases

- 1995 Lease Lot 1 Block 50 No. ADA-07201
- 2009 Lease Lot 1 Block 60 No. ADA-08647

#### Maps

2005 Bethel AAOF Site Plan, Clarus Environmental Services.

#### **Phase I Report**

 1999 Phase I Environmental Baseline Survey for Former Bethel AAOF Hangar. Ogden Environmental and Energy Services Company, Inc.

#### **Permits and Certifications**

- 2010 No Exposure Certification for Exclusion from APDES Storm Water Permitting
- 2013 Notice of Termination for Multi-Sector General Permit

#### **Manuals**

• 1998 Bethel AAOF Phase II Operations and Maintenance Manual. Meridian Systems, Inc.

#### **EDR Report**

 2018 The EDR Radius Map<sup>tm</sup> Report with GeoCheck<sup>®</sup>; Aerial Photo Decade Package; & Certified Sanborn Map Report; Target Property Nome AAOF, 227 Airport Road, Nome, Alaska 99762. Inquiry Number: 5509593.2s New Bothol Roadinoss Cott

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# STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

#### **BETHEL AIRPORT**

ADA-08647

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#### LAND LEASE

The State of Alaska, Department of Transportation and Public Facilities (Lessor), whose address is P.O. Box 196900, Anchorage, Alaska 99519-6900, and State of Alaska, Dept. of Military & Veterans Affairs (Lessee), whose address is PO Box 5-549, Ft. Richardson, AK 99504, enter into this lease (Lease), including exhibit(s) and signature page(s), and agree as follows:

# ARTICLE I DEFINITIONS

For the purposes of this Lease the following terms are defined as follows:

- 1. <u>Certified Activity Report</u> (CAR) means a report that the Lessee must submit to the Lessor to report, when applicable, gross sales, fuel deliveries, passenger and cargo volumes, or other information.
- 2. <u>Contamination</u> the unpermitted presence of any released Hazardous Substance.
- 3. <u>Environmental Assessment</u> an assessment of property, prepared in a manner consistent with generally accepted professional practices, that is supported by reports and tests that determine the environmental condition of property and the presence, type, concentration, and extent of a Hazardous Substance in, on, and under the surface of the property.
- 4. <u>Environmental Law</u> any applicable federal, state, or local statute, law, regulation, ordinance, code, permit, order, decision, judgment of any governmental entity relating to environmental matters, including littering and dumping.
- 5. <u>Environmental Liability Baseline</u> a document based on an Environmental Assessment that identifies Contamination in, on, or under the surface of the Premises that was neither caused nor Materially Contributed To by the Lessee, nor assumed by the Lessee by reason of assignment. If an Environmental Assessment determines the Bethel Airport

  Lease ADA-08647

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presence of Contamination in, on, or under the surface of the Premises that was Materially Contributed To by the Lessee, the Environmental Liability Baseline will include only that portion of the Contamination not caused or Materially Contributed To by the Lessee or the Lessee's operations, nor assumed by the Lessee by reason of assignment.

- 6. <u>Fueling</u> delivering or dispensing fuel, defueling and refueling, or any other transfer of fuel on Airport property.
- 7. <u>Hazardous Substance</u> any substance that is defined under an Environmental Law as hazardous waste, Hazardous Substance, hazardous material, toxic, pollutant, contaminant, petroleum, petroleum product, or oil.
- 8. <u>Materially Contributed To</u> to cause the release or migration of a Hazardous Substance in a reportable quantity as defined under applicable Environmental Law.
- 9. <u>Permanent Improvement</u> a fixed addition or change to land that is not temporary or portable, including a building, building addition, retaining wall, storage tank, and well.

# ARTICLE II PREMISES

- A. The Lessor leases to the Lessee, and the Lessee leases from the Lessor, the following described property (Premises), located on the Bethel Airport (Airport), in Section 24, Township 8N, Range 71W & 72W, Seward Meridian, within the Bethel Recording District, Fourth Judicial District, Alaska:
  - Lot 1, Block 60, consisting of approximately 261,360 square feet of land as shown on Exhibit A, which consists of 2 pages, dated 08/20/2009.
- B. Except as may be provided in this Lease, the Lessor makes no specific warranties, expressed or implied, concerning the condition of the Premises including its title, survey, soils, wetlands, access, and suitability for any use including those authorized by this Lease, its environmental condition, or the presence or absence of Hazardous Substance in, on, and under the surface. The Lessee takes the Premises on an "as is" basis and without warranty, subject to any and all of the covenants, terms, and conditions affecting the Lessor's title to the Premises.

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#### ARTICLE III RIGHTS AND USES

#### A. AUTHORIZED USES

1. The Lessor authorizes the Lessee to use the Premises for the following uses only:

The construction, operation and maintenance of a National Guard Readiness Center to include: Assembly Hall for the training of military units, emergency aviation crew rest area, storage of equipment and weapons, kitchen, gym, locker room, showers, counseling center, classroom, library, office, telecommunications for distance learning, and related vehicle parking.

#### B. RESERVED RIGHTS OF LESSOR

- 1. The Lessor reserves the right to grant to others any rights and privileges not specifically granted to the Lessee. The rights and privileges granted to the Lessee in this Lease are the only rights and privileges granted to the Lessee by this Lease.
- 2. The Lessor reserves the right to make grants to third parties or reserve to the Lessor easements or rights of way through, on, or above the Premises. The Lessor will not grant or reserve any easement or right of way that unreasonably interferes with the Lessee's authorized uses of the Premises.
- 3. The Lessor reserves the right of ingress to and egress from the Premises and the right to enter any part of the Premises, including buildings, for the purpose of inspection or environmental testing at any time. Except in the case of an emergency, all inspections and environmental testing will be coordinated with the Lessee to minimize interference with the Lessee's authorized uses of the Premises.
- 4. There is hereby reserved to the Lessor, its successors and assigns, for the use and benefit of the public, a right of flight for the passage of aircraft in the airspace above the surface of the Premises. This public right of flight will include the right to cause in the airspace any noise inherent in the operation of any aircraft used for navigation or flight through the airspace or landing at, taking off from, or operation on the Airport.

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#### C. PROHIBITED USES

Unless specifically authorized by this Lease the following uses of the Premises are prohibited:

- 1. Any use of the Premises other than those authorized in this Lease unless specifically authorized in writing by Lessor.
- 2. The establishment or maintenance of any kind of living quarters or residence on the Premises.
- 3. The outside storage on the Premises of junk, salvage aircraft or vehicle parts, non-operational support equipment, unused or damaged equipment or material, or solid waste or debris.
- 4. The disposal on the Airport of waste materials generated by the Lessee, including Hazardous Substance, slash, overburden and construction waste.
- 5. The stripping, wasting, or removing any material from the Premises without the prior written approval of the Lessor.
- 6. Erecting structures or allowing growth of natural objects that would constitute an obstruction to air navigation, or allowing any activity on the Premises that would interfere with or be a hazard to the flight of aircraft, or interfere with air navigation or communication facilities, serving the Airport.

# ARTICLE IV TERM AND HOLDOVER

#### A. TERM

The term of this Lease is for twenty-five (25) years, beginning September 1<sup>st</sup>, 2009 and ending August 31<sup>st</sup>, 2024. All rights and liabilities under this Lease become effective on the date this Lease is executed. The Lessor reserves the right to reduce the term of this lease upon written notice to Lessee pursuant to Article XV B.

#### B. HOLDOVER

If the Lessee, with the written consent of the Lessor, holds over and remains in possession of the Premises after the expiration, cancellation or termination of this Lease, the holding over will not operate as an extension of the term of this Lease, but only creates a month to month tenancy, regardless of any rent payments accepted by the Lessor. The Lessee's obligations for performance under this Lease will continue

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during the month-to-month tenancy. The Lessor or Lessee may terminate the Lessee's holdover with thirty (30) days' advance written notice.

# ARTICLE V RENTS AND FEES

#### A. RENT

- 1. The rent for the Premises is \$88,862.40 per year, calculated at the rate of \$0.34 per square foot per year (\$0.34 x 261,360 square feet = \$88,862.40), payable annually in advance of the first day of each year of the term of this Lease as specified in Article IV (Term). Any additional fees are specified elsewhere in this Lease. All payments required by this Lease must be made in U.S. dollars.
- 2. Checks, bank drafts, or postal money orders are to be made payable to the State of Alaska and delivered to Finance Office, Revenue Section, Department of Transportation and Public Facilities, P.O. Box 196900, Anchorage, AK 99519-6900, or any other address the Lessor may designate in writing.
- 3. Beginning the day payment is due, all unpaid rents, charges, and fees required under this Lease will accrue interest at the rate of 10.5% per annum. Interest on disputed amounts will not be charged to the Lessee if the dispute is resolved in the Lessee's favor.
- 4. In addition to the interest, the Lessor will charge an administrative fee of \$50.00 each time the Lessor issues a late notice to the Lessee for failure to pay when due a payment of rent by the date required in the Lease.
- 5. Lessee acknowledges that Lessor's billing statements are provided only as a courtesy. The Lessee is obligated to pay all rents and fees when due, with or without a billing statement.
- 6. Any rent, charge, fee, or other consideration which is due and unpaid at the expiration, termination, or cancellation of this Lease will be a lien against the Lessee's property, real or personal.
- 7. The Lessee will pay all reasonable actual expenses, costs, and attorney fees Lessor may incur, with or without formal action, to enforce, defend, or protect this Lease or Lessor's rights under this Lease, including any expense incurred with respect to environmental compliance, bankruptcy or any proceeding that involves the Lessee, the Lease, the Premises, improvements or personal

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property on the Premises. The Lessee will make payment within 30 days of the date of each notice from Lessor of any amounts payable under this provision.

#### B. RENT ADJUSTMENT

- 1. During the first five (5) years of the term of this Lease, the Lessor may not change the rent payable under this Lease. At any time after the end of the fifth year of the Lease term, the Lessor may, in its sole discretion, increase or decrease the rent provided that the Lessor may not change the rent more than once in any 12-month period. Any change is effective 30 days after the date of the Lessor's notice of rent adjustment. If the Lessee believes that the changed rent exceeds the fair market rent for the Premises, the Lessee may protest to the Lessor according to 17 AAC 45.297.
- 2. The Lessee must pay the changed rent beginning on the effective date stated in the Lessor's rent adjustment notice and continue paying the adjusted rent throughout the protest process.
- 3. The Lessor has no obligation to appraise the Premises under any circumstances.

# ARTICLE VI MAINTENANCE, UTILITIES & SNOW REMOVAL

#### A. MAINTENANCE

- 1. Lessee will keep the Premises and all improvements neat and presentable.
- 2. All structures on the Premises must be painted, finished, or covered with a permanent exterior surface and be maintained in good condition by the Lessee.
- 3. At no cost to the Lessor, the Lessee will provide for all maintenance and services at the Premises necessary to facilitate the Lessee's use of the Premises.
- 4. The Lessee further agrees to comply with all reasonable decisions and directions of the Lessor's Airport management personnel regarding maintenance and general use of the Airport by the Lessee.

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#### B. UTILITIES

At no cost to the Lessor, the Lessee will provide for all utilities at the Premises necessary to facilitate the Lessee's use at the Premises.

#### C. SNOW REMOVAL

- 1. At no cost to the Lessor, the Lessee will be responsible for plowing. removing and disposing of snow from the Premises to a Lessor-approved location, or providing suitable storage within the boundaries of the Premises in accordance with all applicable federal and state laws.
- Lessee agrees to coordinate its snow removal activities on the Airport with the Lessor's Airport personnel.
- Lessee agrees to not allow an accumulation of snow on the Premises that would cause interference with adjoining leaseholders or other users of the Airport.

#### ARTICLE VII OWNERSHIP AND DISPOSITION OF IMPROVEMENTS

#### Α. OWNERSHIP OF PERMANENT IMPROVEMENTS

Permanent improvements on the Premises, excluding fill material, gravel, and paving, constructed, placed, or purchased by the Lessee remain the Lessee's property during the term of this Lease, any extension, and any period of holdover under this Lease.

#### В. DISPOSITION OF FILL MATERIAL, GRAVEL, AND PAVEMENT

The Lessee acknowledges that the removal from the Premises of fill material, gravel, or pavement can damage the Premises, adversely affect surface water drainage patterns. and destabilize adjacent structures. When placed on the Premises by the Lessee, fill material, gravel, and pavement, including building pads, parking areas, driveways, and similar structures:

- 1. become a part of the realty and the property of the state;
- must be maintained by the Lessee throughout the term of this Lease, including any extensions and periods of holdover; and
- may not be removed from the Premises by the Lessee without the prior written approval of the Lessor.

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# C. <u>DISPOSITION OF PERSONAL PROPERTY AND PERMANENT</u> <u>IMPROVEMENTS OTHER THAN FILL MATERIAL, GRAVEL, AND PAVEMENT</u>

- 1. Unless the Lessor otherwise directs under Paragraph 5 of this section, when this Lease expires, terminates, or is cancelled and is neither extended nor followed by a successive lease to the same Lessee, the Lessee may do one or more of the following:
  - a. remove Lessee-owned Permanent Improvements from the Premises, remediate any Contamination for which the Lessee is responsible, and restore the Premises to a clean and neat physical condition acceptable to the Lessor within 60 days after the expiration, cancellation, or termination date of this Lease:
  - b. sell Lessee-owned Permanent Improvements to the succeeding lessee, remove all personal property, remediate, consistent with applicable law, any Contamination the Lessee caused, Materially Contributed To, or assumed by reason of assignment and restore the Premises to a clean and neat physical condition acceptable to the Lessor within 60 days after notice from the Lessor that the Lessor has approved an application for a lease of the Premises by another person or such longer period specified in the notice, but in no event more than 180 days after the expiration, termination, or cancellation date of this Lease; and/or
  - c. elect to have the Lessor sell Lessee-owned Permanent Improvements at public auction under Paragraph 3 of this section.
- 2. If the Lessee elects to have the Lessor sell Lessee-owned Permanent Improvements at public auction under Paragraph 3 of this section, the Lessee will, within 30 days after the expiration, cancellation, or termination of this Lease:
  - a. submit to the Lessor a written request and authorization to sell the Permanent Improvements by public auction;
  - b. provide to the Lessor an executed conveyance document transferring clear title to the Permanent Improvements to the successful bidder at the public auction, along with authorization to the Lessor, as agent for the Lessee for purposes of the sale only, to endorse the name of the successful bidder on the conveyance document upon receipt of payment of the successful bid price; and

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- c. before the date of the public auction, remove all personal property and leave the Premises in a neat and clean physical condition acceptable to the Lessor.
- 3. When selling Lessee-owned Permanent Improvements at public auction for the Lessee, the Lessor will establish the terms and conditions of the sale as provided under 17 AAC 45.333. The Lessor will pay the Lessee any proceeds of the sale of the Permanent Improvements, less the administrative costs of the public auction and any financial obligation the Lessee owes to the Lessor under this Lease. Payment will be made within a reasonable time after the Lessor completes the sale transaction and receives the proceeds, but not to exceed 60 days. If all or a portion of the Permanent Improvements do not sell at public auction, the Lessee will remove those Permanent Improvements and restore the Premises to a clean and neat physical condition acceptable to the Lessor within 60 days after the auction.
- 4. If the Lessee shows good cause to the Lessor and if it is not inconsistent with the best interest of the state, the Lessor will grant an extension of time that is sufficient to allow the Lessee to remove or sell Lessee-owned Permanent Improvements or to restore the Premises under this section.
- 5. The Lessor will, by written notice, direct the Lessee to remove Lessee-owned Permanent Improvements from the Premises, to remediate, consistent with applicable law, any Contamination that the Lessee caused, Materially Contributed To, or assumed by reason of assignment, and to restore the Premises to a clean and neat physical condition acceptable to the Lessor if the Lessor determines that:
  - a. the Permanent Improvements are not consistent with
    - (1) the applicable provisions of 17 AAC 45 and of any other statute or regulation, including any relating to noise or airport land use; or
    - (2) any written airport program or plan required for compliance with applicable federal or state law;
  - b. the continuation of the Permanent Improvements on the Premises is not in the best interest of the state; or
  - c. the Lessor makes a written finding that the Permanent Improvements present a hazard to public health or safety.

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- The Lessee will comply with the Lessor's direction issued under Paragraph 5 of this section within 60 days after issuance of the direction and at no cost to the Lessor. If the Lessee shows good cause to the Lessor and if it is not inconsistent with the best interest of the State, the Lessor will allow in writing a longer period that is sufficient to allow the Lessee to comply with the Lessor's direction. If the Lessee fails to comply with a direction issued by the Lessor under Paragraph 5 of this section, the Lessee will, within 30 days of being billed by the Lessor, reimburse the Lessor for any costs reasonably incurred by the Lessor, including legal fees and administrative costs, to enforce the Lessor's direction or to
  - remove and dispose of unremoved Lessee-owned Permanent a. Improvements;
  - remediate, consistent with applicable law, any Contamination the b. Lessee caused, Materially Contributed To, or assumed by reason of assignment; and
  - C. restore the Premises.
- If the Lessee does not timely remove or sell the Lessee-owned Permanent Improvements on the Premises in accordance with the requirements of this section, any remaining Permanent Improvements and any remaining personal property of the Lessee will be considered permanently abandoned and title will automatically vest in Lessor unless the Premises is contaminated or rejected by the Lessor by a written notice to the Lessee or the automatic vesting would violate a statute or regulation. The Lessor may sell, lease, demolish, dispose of, remove, or retain the abandoned property for Airport use as the Lessor determines is in the best interest of the state. The Lessee will, within 30 days after being billed by the Lessor, reimburse the Lessor for any costs reasonably incurred by the Lessor, including legal fees and administrative costs, to demolish, remove, dispose, clear title to, or sell the abandoned property and to remediate, consistent with applicable law, any Contamination the Lessee caused, Materially Contributed To, or assumed by reason of assignment and restore the Premises.
- 8. After the expiration, termination, or cancellation of this Lease, the Lessee remains responsible to pay rent to the Lessor and to abide by all other Lease obligations, including maintenance of the Premises and provision to the Lessor of evidence of insurance coverage for the Lessee's activities and operations on the Airport, through the date on which the Lessee relinquishes possession of and completely vacates the Premises. The Lessee will not be considered to have relinquished possession and completely vacated the Premises until
  - the Lessee has a.

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- (1) remediated, consistent with applicable law, any Contamination the Lessee caused, Materially Contributed To, or assumed under an assignment;
- (2) restored the Premises to a clean and neat physical condition acceptable to the Lessor; and

#### b. either

- (1) all of the Lessee's Permanent Improvements and personal property on the Premises have been removed or sold to a succeeding lessee under the provisions of this section; or
- (2) title to the Lessee's Permanent Improvements and personal property that remain on the Premises has vested in the Lessor.

## ARTICLE VIII ENVIRONMENTAL PROVISIONS

#### A. HAZARDOUS SUBSTANCE

- 1. If Hazardous Substances are handled on the Premises, the Lessee agrees to have properly trained personnel and adequate procedures for safely storing, dispensing, and otherwise handling Hazardous Substances in accordance with all applicable federal, state, and local laws.
- 2. Lessee will promptly give the Lessor notice of proceedings to abate or settle matters relating to the presence or release of a Hazardous Substance on the Premises or from the Lessee's operations on the Airport. The Lessee will allow the Lessor to participate in such proceedings or discussions.

#### B. ENVIRONMENTAL LIABILITY BASELINE

The Lessee has the sole responsibility under this Lease to ascertain the environmental condition and presence of Hazardous Substance existing in, on, and under the surface of the Premises, and is conclusively presumed to have caused or Materially Contributed To any Contamination of or originating on the Premises except as identified in an Environmental Liability Baseline accepted by the Lessor.

1. Lessee is authorized, upon written approval from Lessor, to perform an Environmental Assessment to determine if any Contamination of the Premises exists. The Environmental Assessment will be performed according to acceptable industry procedures.

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- 2. If the Lessee caused or Materially Contributed To the presence or release of a Hazardous Substance in, on or under the surface of the Premises, the Lessee's Environmental Liability Baseline report must indicate the portion of the Contamination not attributed to the Lessee or its operations. If Lessee discovers Contamination in, on, or under the surface of the Premises the Lessee must prove by clear and convincing evidence to the satisfaction of the Lessor that the Contamination was not caused or Materially Contributed To by the Lessee or Lessee's operations nor assumed by the Lessee by reason of assignment.
- 3. When the Lessor receives the Lessee's Environmental Assessment to establish the Environmental Liability Baseline, the Lessor, in its sole discretion, will do one of the following:
  - a. accept the findings of the Lessee's Environmental Assessment as the Environmental Liability Baseline for that portion of the Premises being assessed; or
  - b. require the Lessee to perform additional environmental testing(s) if the Lessor determines in writing that the findings of the Environmental Assessment are inadequate to develop an Environmental Liability Baseline for that portion of the Premises being assessed. The Lessor's written rejection of the Lessee's submittal(s) will be based on generally accepted professional practices necessary to determine the environmental condition and presence of any Hazardous Substance in, on, or under the surface of the Premises or failure to demonstrate the portion of the Contamination not attributed to the Lessee or its operations.

#### C. SUPPLEMENTS TO THE ENVIRONMENTAL LIABILITY BASELINE

If, after an Environmental Liability Baseline is established for any portion of the Premises, the Lessee discovers additional Contamination or the presence of any Hazardous Substance in, on, or under the surface of that portion of the Premises having an Environmental Liability Baseline that has not, by clear and convincing evidence to the satisfaction to the Lessor, been caused by the Lessee or its operations, the Lessee may, at its own cost, submit an Environmental Assessment reflecting this to the Lessor for the Lessor's consideration to add to the Environmental Liability Baseline. The Lessee's Environmental Assessment must prove by clear and convincing evidence, to the satisfaction of the Lessor that the additional Contamination or presence of any Hazardous Substance on the Premises was not caused or Materially Contributed To by the Lessee or its operations or activities nor assumed by the Lessee by reason of assignment.

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- If the Lessee Materially Contributed To the presence or release of any Hazardous Substance on the Premises, the Lessee's Environmental Assessment must indicate the portion of the Contamination not attributed to the Lessee.
- The Environmental Liability Baseline may only be amended to include that portion of Contamination not attributed to the Lessee or its operations.
- When the Lessor receives the Lessee's Environmental Assessment to add to the Environmental Liability Baseline, the Lessor, in its sole discretion, will do one of the following:
  - accept the findings of the Lessee's Environmental Assessment to add to the Environmental Liability Baseline; or
  - require the Lessee to perform additional environmental testing(s) if b. the Lessor determines in writing that the findings of the Environmental Assessment are inadequate to determine if additional Contamination or the presence of any Hazardous Substance should be added to the Environmental Liability Baseline. The Lessor's written rejection of the Lessee's submittal(s) will be based on generally accepted professional practices necessary to determine the environmental condition and presence of any Hazardous Substance in, on, or under the surface of the Premises or failure to demonstrate the portion of the Contamination not attributed to the Lessee or its operations.
- If, after the Environmental Liability Baseline for any portion of the Premises is established, it is discovered that the presence of a Hazardous Substance identified in the Environmental Liability Baseline was caused or Materially Contributed To by the Lessee or its operations, the Environmental Liability Baseline may be amended to delete that portion of the Contamination that is attributed to the Lessee or its operations. The Lessor will have the burden of proof in establishing that the Lessee caused or Materially Contributed To this Contamination.
- If Contamination not attributed to the Lessee is discovered, or if it is discovered that the Contamination identified in the Environmental Liability Baseline is attributed to the Lessee, the parties agree to negotiate a supplement to the Environmental Liability Baseline.

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#### D. <u>ENVIRONMENTAL INDEMNIFICATION</u>

- 1. If Contamination of the Premises or other properties by a Hazardous Substance occurs from the Lessee's operations on the Premises that is not in Lessee's Environmental Baseline, the Lessee will indemnify, defend, and hold the Lessor harmless from any and all claims, judgments, damages, penalties, fines, costs, liabilities, or losses, including, but not limited to, sums paid in settlement of claims, attorney's fees, consultant fees, and expert fees, which arise during or after the term of this Lease as a result of such Contamination. This indemnification of the Lessor by the Lessee includes, but is not limited to, costs incurred in connection with any investigation of site conditions or any cleanup, remediation, removal, or restorative work required by any federal, state, or local governmental agency because of a Hazardous Substance being present in the soil or groundwater on or under the Premises or other properties affected by the Contamination.
- 2. If the Lessee discovers Contamination or the presence of a Hazardous Substance in, on, or under the surface of the Premises, the Lessee must prove by clear and convincing evidence, to the satisfaction of the Lessor, that the Contamination or presence of the Hazardous Substance was not caused, or Materially Contributed To, by the Lessee or its operations.

#### E. <u>REMEDIATION</u>

- 1. In the event of a Hazardous Substance spill on the Premises, the Lessee will immediately notify the Lessor and the Alaska Department of Environmental Conservation and act promptly, at its sole expense, to contain the spill, repair any damage, absorb and clean up the spill area, and restore the Premises to a condition satisfactory to the Lessor and otherwise comply with the applicable portions of Title 17 and Title 18 of the Alaska Administrative Code.
- 2. In addition to any notices required by this Lease, the Lessee will immediately notify and copy the Lessor in writing of any of the following:
  - a. any permit, enforcement, clean up, lien, removal or other governmental or regulatory action instituted, completed, or threatened pursuant to any Environmental Law;
  - b. any claim made or threatened by any person against the Lessee or arising from the Lessee's operations authorized by this Lease, relating to damage, contribution, compensation, loss or injury resulting from, or claimed to result from, any Hazardous Substances in, on, or under the Airport; or

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- c. any report made to any environmental agency arising out of or in connection with any Hazardous Substances in, on, or removed from the Premises, including any complaints, notices, warnings or asserted violation.
- 3. The Lessor is under no obligation to remediate Contamination identified in an Environmental Assessment; except, the Lessor agrees to remediate, or have responsible parties remediate, the Contamination identified in the Environmental Liability Baseline if the Lessee or Lessor is required to remediate by an agency with such authority. In the event of such required remediation, the Lessor will make a reasonable effort to coordinate the remediation with the Lessee to minimize disruption of the Lessee's operations and damage to the Lessee's improvements and property. The Lessee releases and holds the Lessor harmless for all costs associated with the damage to, relocation and removal of, and the repair of Lessee's improvements and property that results from this remediation.
- 4. Remediation and restoration of the affected area must meet all applicable state and federal laws and regulations and must meet the requirements of all governing regulatory authorities.

#### F. ENVIRONMENTAL AUDIT

Lessee will provide Lessor all investigative data, test results, reports, and any other information gathered or analyzed as part of or in relation to any Environmental Assessment, characterization or audit which Lessee performs or causes to be performed after the starting date of this Lease. The Lessee will submit the data, result, report or information to the Lessor within 60 days following the date on which it becomes available to the Lessee.

#### G. RELEASE OF LESSEE

The Lessor releases the Lessee from liability to the Lessor for Contamination and the presence of Hazardous Substances identified by the Environmental Liability Baseline that was not caused or Materially Contributed To by the Lessee nor assumed by the Lessee by reason by assignment.

#### H. SURVIVAL OF OBLIGATIONS - LESSOR

The Lessor's release of the Lessee and the Lessor's covenant to remediate as discussed in this Article will survive the cancellation, termination or expiration of this Lease.

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## ARTICLE IX OPERATIONS

#### A. SECURITY AND CERTIFICATION

- 1. If the Airport is operated under 49 CFR Part 1542 (Security) & 14 CFR Part 139 (Certification), the Lessee will follow all applicable requirements of the Lessor's Airport Security Program, Airport Certification Manual, and Airport Emergency Plan that are regulated by said Parts 1542 and 139. The Lessee will coordinate any Airport security matter with the Lessor.
- 2. At its sole expense, Lessee will promptly, upon written notice from Lessor, correct any violation or omission under the security program or certification manual within the time specified in the notice.
- 3. If the Transportation Security Administration (TSA) or the Federal Aviation Administration (FAA) fines the Lessor for a violation under the TSA/FAA approved security program or certification manual as a result of a Lessee violation or omission, regardless of advance notification by the Lessor, the Lessee will reimburse the Lessor for the amount of the fine and any legal or other costs incurred by the Lessor in responding to the violation. The Lessee will reimburse the Lessor for fines paid within 30 days after receipt of written notice from the Lessor.

### B. <u>AIRPORT OPERATIONS</u>

The Lessee will ensure that the Lessee, its employees, and guests, and anyone else acting by, on behalf of, or under the authority of the Lessee on the Airport including any contractor(s), sublessee(s), and vendor(s) of the Lessee that perform any construction, repairs, maintenance, remediation, or operations and activities authorized under this Lease in a manner that ensures the safety of people, the protection of public health and the environment, and the safety and integrity of the Airport and the Premises. The Lessee will employ qualified personnel and maintain equipment sufficient for the purposes of this provision. The Lessee will immediately notify the Lessor of any condition, problem, malfunction or other occurrence that threatens the safety of people or the Airport, harm to public health or the environment, or the safety or integrity of the Premises.

#### C. LESSEE'S CONTROL AND RESPONSIBILITY

1. The Lessee will assume full control and sole responsibility as between Lessee and Lessor for the activities of the Lessee and the activities of the Lessee's personnel and employees, and anyone else acting by, on behalf of, or

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under the authority of the Lessee on the Airport, and the Lessee's contractors, sublessees, and guests, including any vendor or customer, on the Premises.

- 2. The Lessee will ensure that the Lessee, the Lessee's personnel and employees, or anyone else acting by, on behalf of, or under the authority of the Lessee on the Airport, and the Lessee's contractors, sublessees, and guests, including any vendor or customer, on the Premises comply with 17 AAC 45 and all other applicable laws and operational orders that the Lessor issues under state or federal law; and instructions, requirements, and restrictions that the Lessor has posted or indicated by sign, signal, or other control device, unless otherwise directed by an Airport police officer or other authorized person directing aircraft, vehicles, or pedestrian traffic.
- 3. The Lessee will perform all operations authorized under this lease, or applicable regulations, in a manner that ensures the safety of people and the airport, the protection of public health and the environment, and the safety and integrity of the Premises. Lessee will immediately notify Lessor or Lessor's airport personnel of any condition, problem, malfunction, or other occurrence that threatens the safety of people or the airport, harm to public health or the environment, or the safety or integrity of the Premises.

#### D. RADIO INTERFERENCE

The Lessee will discontinue the use of any machine or device that interferes with any government-operated transmitter, receiver, or navigation aid until the cause of the interference is eliminated.

#### E. WILDLIFE

The Lessee acknowledges that a concentration of birds or other wildlife on an airport constitutes a significant hazard to aircraft operations. The Lessee agrees to keep the Premises clean of fish slime, fish waste, or any other material that might attract birds or other wildlife. The Lessee accepts full responsibility to maintain the Premises, control operations, and take all prudent measures to prevent birds or other wildlife from entering the Premises.

#### F. PARKING

The Lessee will provide adequate vehicle, equipment, and aircraft parking space on the Premises for Lessee's business or activities, or confine parking to such other places on the Airport as designated in writing by the Lessor.

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### ARTICLE X TERMINATION OF LEASE

#### A. CANCELLATION

The Lessor may, after 30 days' written notice to the Lessee, cancel this Lease and recover possession of the Premises if any of the following violations occur, unless the violation is cured within the 30 days:

- 1. The Lessee fails to pay when due the rents, charges, or fees specified in this Lease, including any increases made under this Lease.
- 2. The Lessee's checks for payment of rents, charges, or fees are returned for insufficient funds; or if the Lessee's credit or debit card is not accepted by the issuing financial institution.
- 3. The Lessee uses or authorizes the use of the Premises for any purpose not authorized by this Lease.
- 4. The Lessee fails to fully perform and comply with any provision in this Lease.
- 5. The court enters a judgment of insolvency against the Lessee.
- 6. A trustee or receiver is appointed for the Lessee's assets in a proceeding brought by or against the Lessee.
- 7. Failure by the Lessee to comply with Article XV B, land development and Permanent Improvement requirements of this Lease.

#### B. CONTINUED OCCUPANCY

The Lessee will continue to pay Lessor rent after the expiration, termination, or cancellation of this lease and to abide by the lease obligations, including providing proof of insurance coverage, through the date Lessee relinquishes possession of and completely vacates the Premises. Lessor will consider the Premises vacated if

- 1. Lessee has remediated any environmental Contamination for which the Lessee is responsible;
- 2. Lessee has removed or otherwise disposed of any Lessee-owned permanent or removable improvements and personal property; and

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3. restored the Premises to a neat and clean physical condition acceptable to Lessor.

#### C. REASONABLE CURE

- 1. In the case of a violation that cannot be reasonably cured within 30 days, a notice of cancellation issued by the Lessor to the Lessee under this Article is stayed if, within the 30-day notice period, the Lessee begins and continues expeditious action to cure the violation. The Lessor will determine if a violation cannot be reasonably cured within 30 days and what constitutes expeditious action.
- 2. In the case where, in Lessor's sole determination, Lessee's violation is considered an imminent threat to the airport, public health or safety, or the environment, Lessor will direct the Lessee to stop the activity immediately and may reduce the period to cure the violation, or the Lessor may correct the violation pursuant to D of this section.

#### D. RIGHT OF LESSOR TO PERFORM

- 1. If, after 30 days following notice, the Lessee fails or refuses to perform any action required by this Lease, the Lessor will have the right, but not the obligation, to perform any or all such actions required by this Lease at the sole expense of the Lessee. The Lessor will not take action if the Lessee begins and continues expeditious action to perform any action required by this Lease that cannot be reasonably completed within 30 days. The Lessor will, at its sole discretion, determine what constitutes expeditious action and if an action cannot be reasonably performed in 30 days. The Lessor will submit to the Lessee an invoice for the expenses incurred by the Lessor in the performance by the Lessor of any required action. The Lessee will pay the amount of each invoice within 30 days from issuance.
- 2. If Lessee fails or refuses to perform any action that has been deemed an imminent threat the Lessor will have the right, but not the obligation, to perform any or all such actions required to expeditiously correct the imminent threat. Lessee will reimburse Lessor for any cost, including legal fees and administrative costs reasonably incurred by Lessor in acting to correct the imminent threat violation.

#### E. WAIVER

A waiver by the Lessor of any default by the Lessee of any provision of this Lease will not operate as a waiver of any subsequent default. If the Lessor waives a default, the Lessor is not required to provide notice to the Lessee to restore or revive any term or Bethel Airport

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condition under this Lease. The waiver by the Lessor of any provision in this Lease cannot be enforced or relied upon unless the waiver is in writing and signed on behalf of the Lessor. The Lessor's failure to insist upon the strict performance by the Lessee of any provision in this Lease is not a waiver or relinquishment for the future, and the provision will continue in full force.

#### F. AIRPORT CLOSURE

Pursuant to AS 02.15.070(b) and 17 AAC 45.700, the Lessor may abandon or temporarily or permanently close the Airport for aircraft operations if the Lessor finds that is in the best interest of the State.

- 1. If Lessor closes the airport for aircraft operations for sixty (60) days or less, this lease will remain in full force and effect without adjustment
- 2. If Lessor closes the Airport for aircraft operations for more than sixty (60) days, but not permanently, and the Lessee's lease is for aviation or auxiliary uses, the Lessee may either terminate the lease or retain the lease and receive a fifty (50%) percent rent reduction or credit for that portion of the closure that exceeds sixty (60) days.
- 3. If Lessor permanently closes the Airport for aircraft operations and Lessee's lease is for aviation or auxiliary uses, Lessee may terminate this agreement by written notice to Lessor.
- 4. If Lessee's lease is for non-aviation uses, Lessee may request in writing to have the lease terminated. Lessor will consider Lessee's request and either terminate the lease, or deny Lessee's request in writing.

#### G. DISASTERS

The Lessee or Lessor may cancel this lease upon written notice to the other party if

- 1. the Premises becomes unusable through no fault of either party and performance under this lease becomes impossible; or
- 2. the Airport becomes unusable through no fault of either party and the performance under this lease becomes impossible.

If the Lessee elects in writing that it will continue to operate after notice from Lessor to Lessee that the Airport has become unusable, the lessee's obligations under the lease will continue but Lessor is under no obligation to continue to perform.

Causes for termination of the lease under this provision include acts of God, the public enemy, and the United States.

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#### H. NATIONAL EMERGENCY

If the federal government declares a national emergency, neither party may hold the other liable for any inability to perform any part of this Lease as a result of the national emergency.

## ARTICLE XI INDEMNIFICATION AND INSURANCE

#### A. INDEMNIFICATION

- 1. The Lessee will indemnify, save harmless, and defend the Lessor, its officers, agents, and employees from and against any and all liabilities, losses, suits, administrative actions, claims, awards, judgments, fines, demands, damages, injunctive relief or penalties (specifically including civil penalties assessed by the FAA, TSA, USDOT or any other federal agency) of any nature or kind to the full extent of the loss or obligation for property damage, personal injury, death, violation of any regulation or grant agreement, or any other injury or harm, including sums paid in settlement of claims, attorney fees, consultant fees, expert fees, or other costs and expenses, directly or indirectly arising from, connected to or on account of this Lease as it relates to the Lessee, the Lessee's activities at or relating to the Airport, or any act or omission by the Lessee, or by any of its officers, employees, agents, contractors or sublessees.
- 2. The Lessee shall give the Lessor prompt notice of any suit, claim, action or other matter affecting the Lessor to which Paragraph 1, above, may apply, together with a copy of any letter by an attorney on behalf of a complainant, any complaint filed in court, and any notice or complaint by any regulatory agency. The Lessee shall also use counsel acceptable to the Lessor and the Alaska Department of Law in carrying out its defense obligations under this paragraph, and the Lessor shall also have the right, at its option, to participate cooperatively in the defense of and settlement negotiations regarding any such matter, without relieving the Lessee of any of its obligations under this provision. These indemnity obligations are in addition to, and not limited by, the Lessee's obligation to provide insurance, and shall survive the expiration or earlier termination of this Lease.
- 3. As to any amount paid to others for personal injury or property damage with respect to which an act or omission of the Lessor is a legal cause, notwithstanding Paragraph 1 of this section, the Lessee and the Lessor shall reimburse each other according to the principles of comparative fault. If liability to a third party is subject to apportionment according to comparative fault under this provision, the Lessee and the Lessor shall seek in good faith to achieve non-

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judicial agreement as to apportionment of fault as between themselves. This apportionment of liability between the Lessor and the Lessee shall not be construed to affect the rights of any person who is not a party to this Lease.

#### B. INSURANCE

The Lessee is not required to provide proof of insurance coverage as a condition of this Lease; however, if the Lessor determines the activity, construction, or operation of the Lessee under this lease will expose the Lessor to a liability risk greater than the risk typically posed by the activity, construction, or operation of lessees that are not required to obtain insurance, the Lessor may require the Lessee to provide proof of insurance coverage in amounts determined by the lessor.

#### ARTICLE XII LAWS, TAXES AND CLAIMS

#### A. COMPLIANCE WITH LAW

This Lease is issued subject to all applicable requirements of State statutes and regulations in effect during the term of this lease and to all requirements of the laws and regulations of the State of Alaska applying to the leasing of lands and facilities and the granting of privileges at State airports.

- 1. The Lessee agrees to comply with applicable requirements imposed on the Airport by federal law to ensure that eligibility for federal money or for participation in a federal aviation program by the Airport is not jeopardized and with all applicable orders issued by the Lessor.
- 2. The Lessee will obtain all necessary licenses and permits, pay all taxes and special assessments lawfully imposed upon the Premises, and pay other fees and charges assessed under applicable law. Nothing in this Lease prevents the Lessee from challenging any taxes or special assessments to the appropriate authority.
- 3. The laws of the State of Alaska will govern in any dispute between the Lessee and Lessor. If a dispute continues after exhaustion of administration remedies, any lawsuit must be brought in the courts of the State of Alaska, in Anchorage within the Third Judicial District.

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#### B. CLAIMS

The Lessee will promptly notify the Lessor of any claim, demand, or lawsuit arising out of the Lessee's occupation or use of the Airport or the Premises. Upon the Lessor's request, the Lessee will cooperate and assist in the investigation and litigation of any claim, demand, or lawsuit affecting the Airport or the Premises.

### ARTICLE XIII ASSIGNMENT OR SUBLEASE

#### A. <u>ASSIGNMENT OR SUBLEASE</u>

- 1. The Lessee will not assign, sublet, or grant a security interest either by grant or implication, the whole or any part of this Lease, the Premises, or any improvement on the Premises without the written consent of the Lessor. Any proposed assignment, sublease, or security interest must be submitted to the Lessor for approval in three copies, each bearing the original, notarized signature of all parties. All provisions in this Lease extend to and bind the sublessees and assignees of the Lessee.
- 2. The Lessor's consent to one assignment, sublease, or security interest will not waive the requirement of obtaining the Lessor's consent to any subsequent assignment or sublease.
- 3. An assignment must include a provision stating that the assignee accepts responsibility for all of the assignor's obligations under this Lease, including environmental liability and responsibility.
- 4. Any single or cumulative transfer of more than 50 percent interest in a joint venture, partnership, Limited Liability Company, corporation, or other multi-party entity which is a Lessee under this Lease is an assignment of an interest subject to approval by the Lessor under this Article.
- 5. An assignee or sublessee may not occupy the Premises before the Lessor consents to the assignment or sublease in writing.
- 6. In the event of a conflict between this Lease and an assignment or a sublease, the terms of this Lease control.
- 7. Consent to a sublease by the Lessor does not relieve or otherwise alter the obligations of the Lessee under this Lease.

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### ARTICLE XIV GENERAL PROVISIONS

#### A. <u>LIENS</u>

The Lessee will keep the Premises and improvements placed on the Premises free of all liens for any obligations incurred by Lessee. The Lessee will pay all costs for labor and materials arising out of any construction or improvements by the Lessee on the Premises, and hold the Lessor harmless from liability for any liens, including costs and attorney fees. The Lessor does not recognize that it is in any way liable for any liens on the Premises or improvements placed on the Premises. This restriction does not prohibit the assignment of interest for security purposes if the Lessor approves the assignment in writing.

#### B. CONDEMNATION AND RELOCATION

If all or any part of the Premises is condemned by any authority or person vested with the power of Eminent Domain, including Lessor, the term of this Lease will end on the date the Lessee is required to surrender possession of the Premises under 17 AAC 45.255. Nothing within this Lease will diminish Lessee's rights, if any, under applicable relocation laws.

#### C. <u>NOTICES</u>

The Lessor will send by first class or higher priority mail, or hand deliver written notices to the Lessee at the address set out on page one of this Lease or any other address that the parties subsequently designate in writing. Unless otherwise agreed to in writing, the Lessee will also supply the Lessor, as promptly as possible, and in any event, within 15 days after the Lessee first receives or sends the same, copies of all claims, reports, complaints, notices, liens or warnings, or asserted violations relating in any way to the Premises or the Lessee's use of the Airport.

#### D. MODIFICATION

Upon written notification to Lessee, the Lessor may modify this Lease to meet the revised requirements of federal or state grants or to conform to the requirements of any revenue bond covenant to which the Lessor is a party; provided that a modification may not reduce the rights or privileges granted to the Lessee by this Lease, or cause the Lessee financial loss.

#### E. VALIDITY OF PARTS

If any provision of this Lease is declared to be invalid by a court of competent jurisdiction, the remaining provisions will continue in force.

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#### F. INTERRELATIONSHIP OF PROVISIONS

All provisions of this Lease including exhibits, supplements, and addenda are essential parts of this Lease and are intended to be cooperative, provide for the use of the Premises, and describe the respective rights and obligations of the Lessor and Lessee. In case of a discrepancy, written dimensions govern over scaled dimensions unless obviously incorrect.

#### G. INTEGRATION AND MERGER

This Lease sets out all the terms, conditions, and agreements of the parties and supersedes any previous understandings or agreements regarding the Premises whether oral or written. No modification or amendment of this Lease is effective unless in writing and signed by both the parties.

#### H. EXECUTION BY THE PARTIES

This Lease is of no effect until the Lessee or a duly authorized representative of Lessee and the Commissioner of the Department of Transportation and Public Facilities or a designated representative has signed it.

#### I. CAPTIONS

The captions of the provisions of this Lease are for convenience only and do not necessarily define, limit, describe, or construe the contents of any provision.

### J. ADDITIONAL INFORMATION

The Lessor may, from time to time, require the Lessee to provide such documentation as the Lessor may reasonably require establishing the Lessee's continuing qualification for this Lease.

#### K. RIGHTS OF CONSTRUCTION

This Lease is intended to make public property available for private use, while at all time protecting the public interest to the greatest extent possible. Following the rule that transfers of interest in public property are to be strictly construed in favor of the Lessor, all rights granted to the Lessee under this Lease will be strictly construed, and all rights of the Lessor and protections of the public interest will be liberally construed.

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#### L. LESSEE ACKNOWLEDGEMENT

The Lessee acknowledges that the Lessee has read this Lease and fully understands its terms, that the Lessee has been fully advised or has had the opportunity of advice by separate legal counsel, and voluntarily executes this Lease. Lessee also acknowledges and agrees that the rule of interpretation under which a document is construed against the drafter will not apply to this lease.

#### M. APPROVAL BY LESSOR

Any approval required of the Lessor by this Lease will not be unreasonably withheld. The Lessor's approval does not waive the Lessee's legal responsibility or liability to comply with all applicable federal and state laws and regulations.

#### N. DISCRIMINATION

The Lessee will not discriminate on the grounds of race, color, religion, national origin, ancestry, age, or sex against any patron, employee, applicant for employment, or other person or group of persons in any manner prohibited by federal or state law. The Lessee recognizes the right of the Lessor to take any action necessary to enforce this provision, including actions required pursuant to any federal or state law.

#### O. AFFIRMATIVE ACTION

If required by 14 CFR Part 152, subpart E, the Lessee will undertake an affirmative action program to insure that no person will be excluded from participating in any employment activities offered by the Lessee on the grounds of race, creed, color, national origin, or sex. No person may be excluded on these grounds from participating in or receiving the services or benefits of any program or activity covered by subpart E. The Lessee further agrees that it will require its suborganization(s) provide assurance to the Lessor to the same effect that they will also undertake affirmative action programs and require assurances from their suborganization(s) as required by 14 CFR, Part 152, subpart E.

#### DAMAGES, COSTS, AND FEES INCURRED TO ENFORCE LEASE Ρ.

The Lessee will pay, within 30 days of the Lessor's billing date, any cost or damage, including legal fees and administrative costs, that the Lessor incurs due to a failure of the Lessee to comply with a provision of this Lease, or otherwise to enforce this Lease. Any amount payable under this paragraph is in addition to rent, including interest, and will be subject to default for nonpayment.

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#### Q. QUIET ENJOYMENT & RIGHT OF INSPECTION

The Lessee is entitled to Quiet Enjoyment of the Premises subject to the Lessor's right of ingress to and egress from the Premises, including buildings, and the right to enter any part of the Premises for the purpose of inspection at any reasonable time, subject only to the Lessor's best efforts, except in the case of an emergency, to coordinate its inspection with the Lessee to minimize interference with the Lessee's activities on the Premises.

## ARTICLE XV SURVEY, IMPROVEMENTS AND PERFORMANCE BOND

#### A. SURVEY

The Lessee agrees, at its sole expense, to cause the Premises to be surveyed by a Land Surveyor registered in the State of Alaska, and to place suitable permanent markers at the corners and at other appropriate locations such that others can readily identify the leased Premises. The Lessee further agrees to complete the survey and submit a plat of survey to the Lessor by no later than September 1st, 2011 or prior to the commencement of any construction or development on the Premises, whichever event occurs first. The plat and the survey must conform to the Lessor's survey plat requirements attached as Exhibit "B". Lessor will review the submitted plat and either approve the plat or require additional information. If there is a significant difference between the approved survey plat and the lease lot description in this Lease, the Lessor and Lessee agree to supplement the Lease to conform to the approved survey plat and adjust the rent of the Premises accordingly.

### B. IMPROVEMENTS

- 1. At no cost to the Lessor, Lessee agrees to complete land development and construction of Permanent Improvements including a readiness center, by no later than September 1<sup>st</sup>, 2012, with an aggregate cost or investment of at least \$375,000.00, excluding financing costs. In addition to the as-built drawings required by this Lease, the Lessee must submit to the Lessor evidence that the Lessee has completed the land development and constructed improvements on the Premises with an aggregate cost or investment of not less than \$375,000.00. The evidence of cost or investment must be submitted to the Lessor within sixty (60) days of the completion of the development and improvements, but by no later than November 1<sup>st</sup>, 2012.
  - a. Costs considered toward the aggregate cost of investment include, but may not be limited to, design, labor, materials, shipping, permits, equipment, soil testing, environmental baseline report, and environmental

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assessments directly related to the construction; premises, boundary, and as-built surveys; site preparation, including excavation, geotextile fabric, filling, grading, fill material, gravel, and pavement, remediation of environmental Contamination (unless Lessee caused or Materially Contributed To the Contamination); and utility connection costs.

- b. The cost or investment in Permanent Improvements excludes financing costs and work performed by the Lessor and not reimbursed by the Lessee, or work performed by the Lessee but reimbursed by the Lessor.
- 2. If the Lessee fails to complete construction within the time allowed under Article XV B 1, including any extensions granted, the Lessor will execute against and the Lessee will forfeit, any bond or other guarantee given by the Lessee and, as applicable Lessor will
  - a. initiate cancellation of the lease if one-third or less of the construction has been completed; or
  - b. reduce the term of the lease to a period that is consistent with the portion of the construction timely completed if two-thirds of the construction has been completed; or
  - c. either reduce the term of the lease or initiate lease cancellation subject to Article X A, B, & C if more than one-third but less than two-thirds of the construction has been completed.
- 3. All construction on the Premises must be neat, presentable, and compatible with the use of the Premises as determined by the Lessor. Lessee is authorized to place gravel fill on the Premises is such a manner that the surface drainage does not flow towards an adjoining lease lot.
- 4. The Lessee must first obtain the Lessor's written approval in the form of an approved Airport building permit before beginning any land development, construction or demolition of any improvements on the Premises, or before beginning any alterations, modifications, or renovation of existing structures on the Premises. The Lessee must submit to the Lessor detailed drawings of the proposed development, alteration, modification, or renovation. Further, the Lessee will submit to Lessor evidence of the Lessee's compliance with the FAA regulation 14 CFR Part 77.
- 5. Approval of any construction, alteration, modification, or renovation will not be withheld unless the Lessee does not demonstrate adequate financial resources to complete the project, the project plans, specifications, and agency

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approvals are incomplete; the proposed project would result in a violation of applicable statute or regulation; the proposed project would interfere with or is incompatible with the safety, security, maintenance, or operation of the airport; the proposed project is inconsistent with sound airport planning; the proposed project is inconsistent with the terms of the lease; the project plans do not make sufficient provision for drainage, aircraft, vehicle, and equipment parking, or for snow storage; or the proposed project does not conform with generally recognized engineering principles or applicable fire or building codes or the project must be denied under 17 AAC 45.010(g).

- 6. Prior to any demolition of any structure(s) on the Premises, Lessee will deliver to Lessor a scope of work that, at a minimum, lists the structure(s) that are to be demolished and the timeframe for demolition and removal of the debris from the Airport. Lessor will review Lessee's scope for demolition and issue Lessee written approval for the work to be done.
- 7. No building or other permanent structure may be constructed or placed within twenty (20) feet of any boundary line of the Premises without Lessor's prior written approval.
- 8. Within thirty (30) days after completion of construction or placement of improvements upon the Premises, the Lessee will deliver to the Lessor 1) photographs (digital format preferred) of all aboveground improvements and 2) a copy of an as-built drawing, acceptable to the Lessor, showing the location and dimensions of the improvements, giving distances to all Premises' boundaries. If the Lessee constructs underground improvements, the Lessee will appropriately mark the surface of the land with adequate surface markers. The type, quantity, and distance between such markers will be subject to approval of the Lessor.
- 9. If applicable, the Lessee agrees to erect or modify a security fence, according to standards approved by the Lessor and the TSA around the sides of the Premises necessary to maintain the airport security program. The fence may be tied to the Lessor's Airport security fence. The fence around the Premises must be constructed at the sole expense of the Lessee and must be maintained by the Lessee in an attractive condition.
- 10. If Lessee's improvements are damaged or destroyed, Lessee will cause the improvements to be repaired or rebuilt, and restored to normal function within two (2) years of the destruction or damage. Failure of the Lessee to rebuild or restore the improvements will be cause for Lessor to reduce the term of this Lease commensurate with Lessee's remaining investment costs for land development and improvements.

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11. If Lessee's improvements are damaged to the extent that more than 50% of the space is unusable and the damage occurs within five years of the expiration of the term of this Lease, Lessee may terminate this Lease, remove the damaged improvements, and restore the Premises.

#### C. <u>PERFORMANCE BOND</u>

The Lessee may be required to submit a performance bond, deposit, personal guarantee, or other security if the Lessor determines that such security is necessary or prudent to ensure compliance with any provision of this lease or completion of construction or remediation within the time period set under Section B of this Article or completion of any additional or subsequent construction or remediation. The Lessor will determine the form and amount of the security considering the compliance under the provision or nature and scope of the construction or remediation and the financial responsibility of the Lessee.

### ARTICLE XVI FUELING

#### A. FUELING

If fuel is stored on the Premises, the fuel storage facility must be installed and plumbed according to all Environmental Laws, 13 AAC 50, 14 Code of Federal Regulations (CFR) Part 139 (if applicable), and all applicable federal and state laws.

- 1. If Lessee fuels aircraft or vehicles, all dispensing operations will meet current requirements for Fueling and fire safety as described in applicable federal and state laws and regulations.
- 2. The Lessee will keep all equipment used in conjunction with the Lessee's Fueling operations on the Airport in a safe and properly functioning condition.
- At any time, the Lessor has the right to inspect all Fueling equipment use by the Lessee on the Airport to determine if the Lessee's Fueling equipment and operations conform to the applicable laws, regulations, and codes. The Lessee, prior to any further Fueling operations, will accomplish any corrective action deemed necessary by the Lessor.

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#### B. FUEL SPILL PREVENTION AND RESPONSE PLAN

In compliance with 40 CFR Part 112, Lessee will provide to Lessor an acceptable fuel Spill Prevention, Control and Countermeasure (SPCC) plan and will maintain fuel spill and response capability. Lessee further agrees to have a copy of the SPCC plan located at Lessee's fuel storage facility at all times.

### ARTICLE XVIII SPECIAL PROVISIONS

#### A. <u>Specific acknowledgements:</u>

Lessee and Lessor acknowledge that:

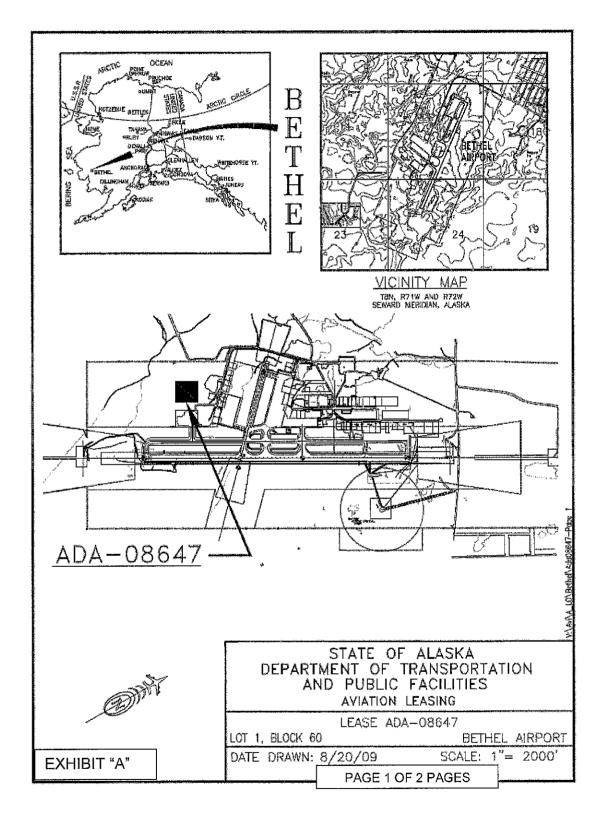
- 1) the initial annual rent is set by a fair market appraisal performed in 2006.
- 2) the Premise is a newly created Lot & Block and was created specifically for the Lessee's use. The Premise is unsurveyed and undeveloped.
- 3) the Lessee was solely responsible for determining that the Premise can support the Lessee's authorized uses.
- 4) the Lessor is under no obligation to provide improvements on, and to, the Premise, including, but not limited to, roads, pedestrian ways, utilities, drainage and soil stabilization.
- there is no formal road access to the Premises. Construction and maintenance, including grading and snow removal, of any road access is the obligation of the Lessee. Lessor road maintenance ends as depicted in Exhibit "A", Page 1 of 2.
- 6) the Lessee will complete permanent improvements by August 31<sup>st</sup>, 2012.
- 7) the Lessee has been notified of the existence of a contaminated soil remediation site to the north of the Premise.
- 8) any explosives or ammunition brought onto the airport shall comply with the hazardous materials provisions of 49 C.F.R. Part 175, as amended as of January 1<sup>st</sup>, 2007 and 17 AAC 45.070 of the Alaska Administrative code.

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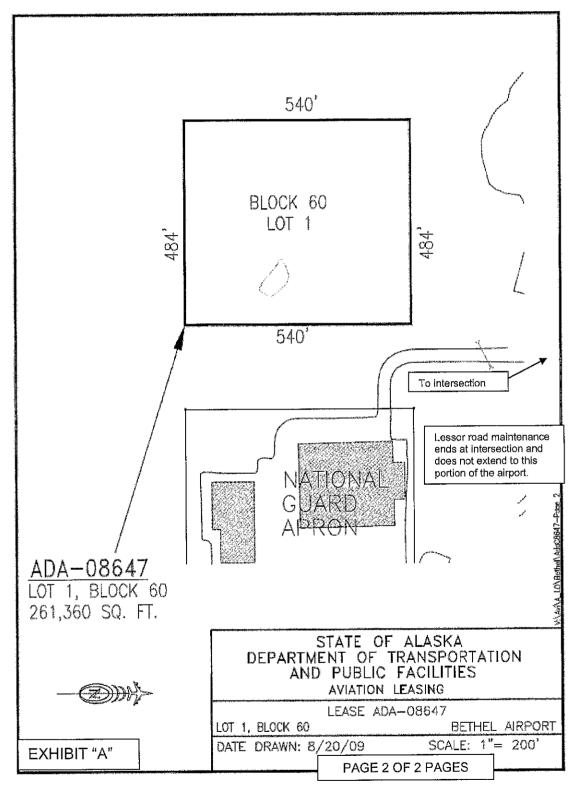


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### EXHIBIT B

## LEASEHOLD SURVEY and PLAT REQUIREMENTS

scripti	on: ADA-08647, Lot 1, Block 60, Betnel Airport
yors S	gnature & LS Number:
	[Signature required before review]
omiti ed w emer	ptable, survey plats must be complete. To prevent the possibility of important details and the surveyor must initial and date all survey and plat requirements. Submittals thout this initialed sheet will be returned to the surveyor. This checklist includes all the test that will be met for all lease lot survey and plats submitted to the Alaska Department tation and Public Facilities, Aviation Leasing.
tment terior Depart	ns or deletions from the requirements are allowed without <u>written</u> permission from the Survey Manager. In those instances where the centerline monuments have been destroyed or coundary has not yet been surveyed, special <u>written</u> instructions for the survey must be obtained nents Survey Manager. If you have any questions in reference to the survey, you may contactents Survey Manager.
A.	Basis of Bearing and Stationing for the survey will be the runway centerline or adjacent lo survey. Note on the plat whether the bearing shown is grid or true. The record and measured bearings and distances between all recovered monumentation must be shown on the plat.
B.	The lot survey will be conducted as part of a closed traverse based on an adjacent lot survey or runway centerline. GPS surveys will only be accepted with prior written approval of the Departments survey manager. The minimum unadjusted closure of the traverse will be 1:5000. Monuments may be established by sideshot from a control point on the closed traverse but the position must be confirmed by turning the angle from a different control poin on the traverse or by turning the angle from a different backsight on the closed traverse Runway station and offset are required for all set corners. If the lot is on the boundary of the airport, the lot will also be tied to the airport boundary.
C.	Bearings and distances of all lot boundaries are required. Bearings will be local gric computed from the Basis of Bearing, and distances will be recorded in U.S. Survey feet both on the plat and in the field book.
D.	The area of the lot or parcel must be shown in square feet on the plat.
E.	A description of all recovered monuments will be noted in the field notes or on the plat to include the condition (bent, leaning, good condition, etc.), depth of cap above or below ground, type (rebar, copperweld, brass cap, etc.), and where they are located (pavement natural ground, etc.).
F.	All improvements will be located by sideshot from a point on the control traverse. The dimensions of all improvements will be by direct taping. A detailed sketch of a improvements will be included in the field notes and will be shown on the plat. The size, typic (fuel tank, dike, etc.), height, and location of the improvements. Include a right angle tie from the closest improvement to the lot boundary. Provide the Department with photographs of the lot including any improvements. Digital format is preferred. Label the type of improvement or provide for it in the legend. Include the height of all power poles (with
7	accertoments terior becarting

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		powerline sag clearance), antennas, towers, or other object that may impact the FAA Part 77 primary surface. If no improvements exist on the lot, a note will be included on the plat
	G.	All plats must be drawn to a scale of $1'' = 50'$ . Sheet size will be $11'' \times 17''$ .
	H.	A surveyor registered in the State of Alaska must conduct the survey. The plat must bear the surveyor's seal and signature along with a signed and dated surveyor's certificate worded:
		SURVEYOR'S CERTIFICATE I hereby certify that I am properly registered and licensed to practice land surveying in the State of Alaska, that this plat represents a survey made by me or under my direct supervision, that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct.
		Signature Date Name & LS Number
	l.	In cases where a lease or permit includes a unique requirement (special ties, setback from the road centerline, etc.), the plat must reflect that information.
	J.	This survey must be tied to any monuments within a 250-foot radius of the lease. If no corners exist within 250 feet a note will be included on the plat. Provide copies of all surveys as part of Item L.
	K.	All lot corners will be monumented with a minimum 30" #5 rebar with a minimum 2" aluminum cap stamped with the lot and block number, year and the surveyor's registration number. In special cases (for example, when a corner falls in a concrete pad), other types of monuments may be used upon receipt of a written request by the Departments Survey Manager. Monuments set in maintained traveled ways (roads, taxiways, etc.) will be placed a minimum of 6" below existing grade.
THE STATE OF THE S	L.	Field notes will be kept in a field book. Electronic field notes will not be accepted and will result in a submittal being returned to correct this deficiency. All submittals will be complete, legible and will include a copy of the lease, a copy of the surveyors' research material, a copy of the surveyor's field notes, a copy of any computations including a working sketch of the survey, a traverse summary confirming closure, an ASCII point file of the all surveyed points, a hard copy of the survey plat, and an electronic copy of the completed plat compatible with AutoCAD version 2000 or higher. Field notes should be in chronological order with a sketch showing how the survey was completed. Remember someone else will be reviewing this survey and will need to clearly understand your notes. The Department estimates that a well documented submittal will result in a review being completed in one working day.
	M.	Include a legend showing monuments found and set, and other features or symbols included on the drawing, to clearly identify the feature or symbol.
	N.	Drawing linework shall not run through text. Parcel boundary lines should not be broken for text or symbols. Use of text masking, leaders, details and line/curve tables is encouraged when necessary to make the drawing linework, text and dimensions clearly readable.
	О.	Show the Building Restriction Line (BRL) on the drawing. This information is shown on the Land Occupancy (LO) drawing available from the Aviation Leasing office. A cop of the LO, obtained from the aviation leasing office, will be submitted as part of Item L.

Bethel Airport

Lease ADA-08647

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IN WITNESS WHEREOF, the parties hereto have set their hands on this day and year stated in the acknowledgments below.

	LESSEE: AK. Department of Military & Veteran Affairs
STATE OF ALASKA	) SIGNATURE: Thomas 14. 16 thus
THIRA JUDICIAL DISTRIC	)ss. <u>T</u> ) BY: TITLE: <u>Commissioner , DMVA</u>
before the undersigned, a Naworn, personally appeared and to me known to be Combilitary & Veteran Affairs, a	that on this
IN WITNESS WHERE seal the day and year above	Notary Public in and for Alaska
	My Commission Expires:
	ACCOUNT OF THE PARTY OF THE PAR
Bethel Airport	Lease ADA-08647

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Lease ADA-000-

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### STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

STATE OF ALASKA ) )ss.	1 bo holi anhat
THIRD JUDICIAL DISTRICT)	Sina'm. Schimschat
THIS IS TO CERTIFY that on this 25 before, the undersigned, a Notary Public Tina M. Sch. in school., known to me and Office, Aviation Leasing, Department of Tra acknowledged to me that he executed the for behalf of the State of Alaska, Department of uses and purposes therein set forth and that so to do.	day of <u>September</u> , 2009, in and for Alaska, personally appeared to me known to be the Chief, Anchorage asportation and Public Facilities, and she regoing instrument freely and voluntarily on Transportation and Public Facilities, for the she is authorized by said State of Alaska
IN WITNESS WHEREOF, I have her seal, the day and year first written above.	eunto set my hand and affixed my official
	Notary Public in and for Alaska My Commission Expires With Office
	State of Alaska NOTARY PUBLIC Robert Holbrook My Commission Expires With Office

Bethel Airport

Lease ADA-08647

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# STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

BETHEL AIRPORT

LEASE NO. ADA-07201

## LEASE AGREEMENT LAND

This 15th day of December, 1995, the State of Alaska, Department of Transportation and Public Facilities, hereinafter called the Lessor, whose address is P.O. Box 196900, Anchorage, Alaska 99519-6900, and Alaska Department of Military and Veterans Affairs, hereinafter called the Lessee, whose address is P.O. Box 5-549, Ft. Richardson, AK 99505, do enter into this agreement of 18 pages, including exhibit(s) and signature page(s), and agree as follows:

#### A. BASIC PROVISIONS

#### **PREMISES**

1. The Lessor leases to the Lessee, and the Lessee leases from the Lessor, the following described property, hereinafter called the "Premises", located on the Bethel Airport, hereinafter referred to as the "Airport", in Township 8 North, Range 71 & 72 West, Seward Meridian, the Bethel Recording District, Fourth Judicial District, Alaska:

Lot 1, Block 50 consisting of 218,000 square feet of land as shown on Exhibit "A", Sheet 1 of 1, dated 12/27/95, attached hereto and made a part hereof.

#### **AUTHORIZED USES**

2. This lease is issued for the following authorized uses:

The construction, maintenance, and operation of a hangar facility; taxiway and apron; fuel dispensing facilities; water and sewer holding tanks; parking of Lessee's aircraft and vehicles; maintenance of aircraft in support of Lessee's National Guard activities.

#### <u>TERM</u>

3. The term of this agreement is 55 years, beginning on the 1st day of January, 1996, and ending on the 31st day of December, 2051.



#### RENT

- 4. (a) The annual rental for the Premises will be either the square footage fee of \$22,672.00 (218,000 sq. ft. x \$.104 cents) per year or 10% percent of the fair market value: payable annually in advance of the first day of each year of the term specified in Basic Provision No. 3. The first rent shall begin on the 1st day of January, 1996. Any additional fees will be specified herein. All payments required by this lease must be made in U.S. currency.
- (b) Checks, bank drafts, or postal money orders are to be made payable to the State of Alaska and delivered to Accounting Section, Department of Transportation and Public Facilities, P.O. Box 196900, Anchorage, Alaska 99519-6900, or any other address which the Lessor may designate in writing.
- (c) Any rent, charge, fee, or other consideration which is due and unpaid at the expiration, termination, or cancellation of this lease will be a charge against the Lessee and his property, real or personal.
- (d) During the first five years of the term stated in Basic Provision No. 3, the Lessor may not change the rents or fees payable under this lease. At any time after the end of the fifth year of the Lease term, the Lessor may, in its sole discretion, increase or decrease the rents or fees, provided that the Lessor may not change the rents or fees more than once in any 12 month period. Any change is effective upon written notice to the Lessee. If the Lessee believes that the changed rent exceeds the fair market rent for the Premises, the Lessee may appeal to the Lessor according to the following procedures:
- (i) The Lessee must pay the changed rent beginning on the effective date stated in the Lessor's rent change notice and continue paying the changed rent throughout the appeal process.
- (ii) Within 30 days after the date of the Lessor's written notice of the rent increase or decrease, the Lessee must submit a written appeal to the Lessor. The appeal must include the name, address, telephone number and professional qualifications of the real estate appraiser the Lessee intends to retain to perform a fair market rent appraisal of the Premises.
- (iii) The Lessor will review the appraiser's qualifications and approve or disapprove the appraiser in writing to the Lessee. If the Lessor disapproves the appraiser, the Lessee will have 30 days from the date of the Lessor's written disapproval to continue the appeal by submitting the name, address, phone number, and professional qualifications of another appraiser.

- (iv) If the Lessor approves the Lessee's appraiser, the Lessee shall, at the Lessee's sole expense, cause the Premises to be appraised according to appraisal instructions furnished by the Lessor. The written appraisal must be received by the Lessor within 90 days following the date of the Lessor's written approval of the Lessee's appraiser.
- (v) The Lessor will review the appraisal for conformance with the appraisal instructions and issue a written approval or rejection to the Lessee. Rejection of the appraisal by the Lessor will constitute a denial of the Lessee's appeal. Approval of the appraisal will confirm the Lessee's appeal and set the rent for the Premises at the fair market rent determined in the appraisal, retroactive to the effective date of the Lessor's rent change notice.
- (vi) The Lessor has no obligation to appraise the Premises under any circumstances.

#### B. **GENERAL COVENANTS**

#### **IMPROVEMENTS**

- 1. Any construction on the Premises must be neat, presentable, and compatible with its use and surroundings. Before placing fill material or beginning construction of any improvements on the Premises, the Lessee must first obtain the written approval of the Lessor in the form of an approved building permit. Detailed drawings of the proposed development on the Premises must be submitted to the Lessor. If a building is contemplated, the Lessee must also submit comprehensive structural drawings showing front and side elevation views and floor plan, materials to be used, dimensions, elevations, the location of all proposed utility lines, and any additional data requested by the Lessor. The Lessor will review and approve or disapprove the proposed construction. Approval will not be withheld except where proposed construction does not comply with valid engineering principles, fire or building codes, generally recognized principles of sound airport development, or the proposed construction is inconsistent with the purposes of this lease. The Lessee shall submit to the lessor evidence of the Lessee's compliance with the Federal Aviation Regulations, 14 CFR Part 77, and all other municipal, state, or federal regulations governing construction of improvements on the airport.
- 2. No building or other permanent structure may be constructed or placed within twenty (20) feet of any boundary line of the Premises. In addition, no building or other permanent structure may be constructed or placed within <u>250</u> feet of any boundary line of the Premises which fronts on a taxiway.
- 3. The Lessee, within thirty (30) days after completion of construction or placement of improvements upon the Premises, shall deliver to the Lessor an as-built drawing

showing the location and dimensions of the improvements, giving bearings and distances to an established survey point. Furthermore, if the Lessee constructs underground improvements the Lessee shall appropriately mark the surface of the land with adequate surface markers. The type, quantity, and distance between such markers will be subject to the approval of the Lessor.

#### MAINTENANCE

- 4. The Lessee shall keep the Premises and all improvements neat and presentable at the Lessee's own expense. The Lessee shall not strip, waste, or remove any material from the Premises without the prior written permission of the Lessor.
- 5. At no cost to the Lessor, all structures on the Premises must be painted, finished, or covered with a permanent exterior surface and be maintained by the Lessee.
- 6. At no cost to the Lessor, the Lessee shall provide for all utilities, services, and maintenance (including snow removal) as is necessary to facilitate the Lessee's use of the Premises.
- 7. The Lessee agrees to coordinate his snow removal and maintenance activities on the Airport with the Lessor's Airport personnel. The Lessee further agrees to comply with all reasonable decisions and directions of the Lessor's Airport management personnel regarding snow removal, maintenance, and general use of the Airport by the Lessee.
- 8. The Lessee agrees to maintain the taxiway and roadway to the Premises that are beyond the common use area.

#### **DISPOSITION OF IMPROVEMENTS**

- 9. At the expiration, termination, or cancellation of this lease, improvements or other property, real or personal, owned by the Lessee on the Premises will either:
  - (a) automatically vest in the Lessor; or
  - (b) be removed by the lessee at lessee's sole expense.
- (i) The Lessor may grant additional time for the removal of improvements if hardship is established by the Lessee.

- (ii) if additional time is granted to Lessee to remove its improvements, Lessee hereby agrees to pay Lessor an administrative fee equal to 150% of the regular prorated amount otherwise chargeable for the period Lessee's improvements remain on the Premises.
- (iii) the granting of additional time for removal of Lessee's improvements does not operate as a renewal or extension of the term of the agreement but only creates a tenancy until the hangar is removed, or Lessee is given written notice that the extension period for the removal of the hangar has expired and title to all remaining improvements or property on the Premises vests in the Lessor.
- 10. Title to any improvements or other property owned by the Lessee which is not disposed of pursuant to General Covenant No. 9 will vest in the Lessor.

#### **HAZARDOUS SUBSTANCES**

- 11. The term "hazardous substance" as used in this agreement means any hazardous waste, substance, or material as defined by any appropriate federal, state, or local statute or regulation.
- 12. If hazardous substances are handled on the Premises, the Lessee agrees to have properly trained personnel and adequate procedures for safely storing, dispensing, and otherwise handling hazardous substances in accordance with the National Fire Protection Code and all applicable federal, state, and local laws.

#### **FUEL DISPENSING**

- 13. All dispensing operations will meet current requirements for fuel dispensing and fire safety as described in the National Fire Protection Association Codes and other applicable federal, state, or local laws, regulations, and ordinances.
- 14. During aircraft fueling operations, all aircraft and fuel-dispensing apparatus must be grounded to a point or points of zero electrical potential.
- 15. Fire extinguishers of an adequate size and type must be within ready reach of all persons engaged in fueling operations.
- 16. The Lessee will keep all equipment used in conjunction with the Lessee's fueling operations on the airport in a safe and properly functioning condition.

17. At any time, the State has the right to inspect all fuel-dispensing equipment used by the Lessee on the airport to determine if the Lessee's fueling equipment and operations conform with the applicable laws, regulations, and codes. Any corrective action deemed necessary by the Lessor will be accomplished by the Lessee prior to any further fuel dispensing operations.

#### **FUEL STORAGE**

- 18. All fuel on the Premises must be stored in <u>aboveground</u> double-walled, fire-rated fuel storage tanks installed and plumbed according to the National Fire Protection Code and all applicable federal, state, and local laws.
- 19. The Lessee is hereby authorized to maintain a bulk fuel storage farm on the Premises in aboveground fuel storage tank(s) diked and plumbed in accordance with the National Fire Code, and all applicable federal, state and local laws, ordinances and regulations.
- 20. The fuel storage tanks shall be labeled as to the owner and the products stored in the tank.
- 21. The Lessee shall provide petroleum product absorbent pads or similar equipment and materials on site, and in sufficient quantity so as to provide immediate clean-up capability should a spill of petroleum products occur.
- 22. The Lessee shall prepare and provide a spill prevention plan to the Lessor.

#### ENVIRONMENTAL INDEMNIFICATION

Substances otherwise occurs from the Permittee operations on the Premises, the Permittee shall indemnify, defend, and hold the Permittor harmless from any and all claims, judgments, damages, penalties, fines, costs, liabilities, or losses, including, but not limited to, sums paid in settlement of claims, attorney's fees, consultant fees, and expert fees, which arise during or after the term of this permit as a result of such contamination. This indemnification of the Permittor by the Permittee includes, but is not limited to, costs incurred in connection with any investigation of site conditions or any cleanup, remediation, removal, or restorative work required by any federal, state, or local governmental agency because of Hazardous Substance present in the soil or groundwater on or under the Premises or other affected properties. Without limiting the foregoing, if the presence of any Hazardous Substance on the Premises results in any

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contamination of the Premises or other properties, the Permittee shall promptly take all actions, at its sole expense, as are necessary to remediate the contamination and restore the area.

#### **REMEDIATION**

- 24. In the event of a hazardous substances spill on the Premises, the Lessee shall immediately notify the Lessor and act promptly to contain the spill, repair any damage, absorb and clean up the spill area, and restore the Premises to a condition satisfactory to the Lessor and otherwise comply with the applicable portions of Title 17 and Title 18 of the Alaska Administrative Code.
- 25. Remediation and restoration of the affected area must meet all applicable local, state, and federal laws and regulations and must meet the requirements of all governing regulatory authorities.

#### LIABILITY

26. The Lessee shall indemnify, defend, and hold the Lessor harmless from any liability, action, claim, suit, loss, property damage, or personal injury of whatever kind resulting from or arising out of any act of commission or omission by the Lessee, his agents, employees, or customers or arising from or connected with the Lessee's use and occupation of the Premises or the exercise of the rights and privileges granted by this lease.

#### RENEWAL

- 27. In order to renew this lease, the Lessee must file a written application with the Lessor at least thirty (30) days before the expiration of the lease. The application must state the purpose of the renewal and any other information which the Lessor may require. Any filing fees or deposits which the Lessor then requires must be submitted with the application for renewal. The filing of an application which fully conforms to the requirements stated herein will extend the term, subject to written approval of Lessor, of this lease on a month to month basis until one of the following occurs:
  - (a) a lease renewal document is executed by both parties;
- (b) the Lessor sends the Lessee written notice that the request for renewal has been rejected, stating the reasons for rejection; or
- (c) the Lessor sends written notice to the Lessee that by law, regulation, or the public interest, the Lessor is required to offer the lease at public auction.

#### HOLDING OVER

28. If the Lessee holds over and remains in possession of the Premises after the expiration of this agreement without a written renewal, the holding over will not operate as a renewal or extension of the term of this agreement but only creates a tenancy from month to month, regardless of any rent payments accepted by the Lessor. The Lessee's obligations for performance under this lease will continue until the month to month tenancy is terminated by the Lessor. The Lessor may terminate the tenancy at any time by giving the Lessee at least ten (10) days prior written notice.

#### ASSIGNMENT OR SUBLEASE

29. The Lessee may not assign nor sublet, either by grant or implication, the whole or any part of the Premises or any improvements thereon without the written consent of the Lessor. Any proposed assignment, lease, or sublease must be submitted to the Lessor for approval in three (3) copies, each bearing the original notarized signature of all parties. All covenants and provisions in this agreement extend to and bind the legal representatives, successors, and assigns of the parties.

#### **CONDEMNATION**

30. If the Premises are condemned by any proper authority, the term of this lease will end on the date the Lessee is required to surrender possession of the Premises. The Lessor is entitled to all the condemnation proceeds except the Lessee will be paid the portion of the proceeds attributable to the fair market value of any improvements placed on the Premises by the Lessee according to the provisions of 17 AAC 40.330, amended. Rent will also be adjusted according to the provisions of 17 AAC 40.330, as amended.

#### CANCELLATION

- 31. The Lessor may cancel this lease and recover possession of the Premises by giving the Lessee thirty (30) days prior written notice upon the happening of any of the events listed below, unless the breach is cured within said thirty (30) days:
- (a) The Lessee's failure to pay when due the rents or fees specified in this lease, including any increases made pursuant to this lease;
- (b) the return for insufficient funds of checks for payment of rents or fees;

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#### BETHEL AIRPORT

- (c) the use of the Premises by the Lessee for any purpose not authorized by this lease;
  - (d) the filing of a petition in bankruptcy by or against the Lessee;
- (e) the entry by any court of a judgment of insolvency against the Lessee;
- (f) the appointment of a trustee or receiver for the Lessee's assets in a proceeding brought by or against the Lessee;
- (g) the failure of the Lessee to perform any provision or covenant in this lease.

#### CANCELLATION BY LESSEE

32. The Lessee may cancel this lease by giving the Lessor at least thirty (30) days advanced written notice, provided however that if the Lessee's interest is encumbered by a mortgage or assignment for security, such cancellation shall not be effective without the written consent of the mortgagee or assignee delivered to the Lessor.

#### VACATION

33. At the expiration, cancellation or termination of this lease, the Lessee must peaceably and quietly vacate the Premises and return possession to the Lessor. The Premises must be left in a clean, neat, and presentable condition to the satisfaction of the Lessor.

#### **EASEMENTS**

34. The Lessor reserves the right to make grants to third parties or reserve to the Lessor easements or rights of way through, on, or above the Premises, provided that no such easement or rights of way may be granted or reserved which unreasonably interferes with the Lessee's use of the Premises.

#### RESERVATION OF RIGHTS

35. The Lessor specifically reserves the right to grant to others the rights and privileges not specifically and exclusively granted to the Lessee. The rights and privileges granted to the Lessee in this lease are the only rights and privileges granted to the Lessee by this lease.

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The Lessee has no easements, rights or privileges, express or implied, other than those specifically granted by this lease.

#### **DISCRIMINATION**

36. The Lessee covenants and agrees that discrimination on the grounds of race, color, religion, national origin, ancestry, age, or sex will not be permitted against any patron, employee, applicant for employment, or other person or group of persons in any manner prohibited by federal or state law. The Lessee recognizes the right of the Lessor to take any action necessary to enforce this covenant, including actions required pursuant to any federal or state law.

#### AFFIRMATIVE ACTION

37. The Lessee agrees that it will undertake an affirmative action program as required by 14 CFR Part 152, Subpart E, to insure that no person will be excluded from participating in any employment activities covered by 14 CFR Part 152, Subpart E on the grounds of race, creed, color, national origin, or sex. The Lessee hereby agrees that no person shall be excluded on these grounds from participating in or receiving the services or benefits of any program or activity covered by said subpart. The Lessee further agrees that it will require that its covered suborganization(s) provide assurance to the Lessor to the same effect that they will also undertake affirmative action programs and require assurances from their suborganizations, as required by 14 CFR Part 152, Subpart E.

#### RADIO INTERFERENCE

38. At the Lessor's request, the Lessee shall discontinue the use of any machine or device which may interfere with any government operated transmitter, receiver, or navigation aid until the cause of the interference is eliminated.

#### **EXECUTION BY LESSOR**

39. This lease is of no effect until it has been signed by the Commissioner of the Department of Transportation and Public Facilities or his designated representative.

#### LAWS AND TAXES

40. This lease is issued subject to all requirements of the laws and regulations of the State of Alaska relating to the leasing of lands and facilities and the granting of privileges at State airports.

INITIALS

- 41. At no expense to the Lessor, the Lessee will conduct all activities or business authorized by this lease in compliance with all federal, state, and local laws, ordinances, rules and regulations now or hereafter in force which apply to the activities or business authorized herein or to the use, care, operation, maintenance, and protection of the Airport, including but not limited to matters of health, safety, sanitation, and pollution. The Lessee must obtain all necessary licenses and permits, pay all taxes and special assessments lawfully imposed upon the Premises, and pay any other fees and charges assessed under applicable public statutes or ordinances.
- 42. In any dispute between the parties, the laws of the State of Alaska will govern and any lawsuit must be brought in the courts of the State of Alaska, Municipality of Anchorage, Third Judicial District.
- 43. The Lessee agrees to notify the Lessor of any claim, demand, or lawsuit arising out of the Lessee's occupation or use of the Premises. Upon the Lessor's request the Lessee will cooperate and assist in the investigation and litigation of any claim, demand, or lawsuit affecting the Premises.
- 44. The Lessor makes no specific warranties, express or implied, concerning the title or condition of the property, including survey, access, or suitability for any use, including those uses authorized by this lease. The Lessee takes the Premises subject to any and all of the covenants, terms, and conditions affecting the Lessor's title to the Premises.

#### LIENS

45. The Lessee shall keep the Premises free of all liens, pay all costs for labor and materials arising out of any construction or improvements by the Lessee on the Premises, and hold the Lessor harmless from liability for any liens, including costs and attorney fees. By this provision, the lessor does not recognize that it is in any way liable for any liens on the Premises.

#### NO WAIVER

46. The failure of the Lessor to insist in any one or more instances upon the strict performance by the Lessee of any provision or covenant in this lease may not be considered as a waiver or relinquishment for the future, but the provision or covenant will continue in full force. The waiver by the Lessor of any provision or covenant in this lease cannot be enforced or relied upon unless the waiver is in a writing signed on behalf of the Lessor.

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#### MODIFICATION

47. The Lessor may modify this lease to meet the revised requirements of federal or state grants or to conform to the requirements of any revenue bond covenant to which the State of Alaska is a party, provided that a modification may not act to reduce the rights or privileges granted the Lessee by this lease nor act to cause the Lessee financial loss.

#### **VALIDITY OF PARTS**

48. If any provision or covenant of this lease is declared to be invalid by a court of competent jurisdiction, the remaining covenants and provisions will continue in full force.

#### INTERRELATIONSHIP OF PROVISIONS

49. The basic provisions, general covenants, special covenants, supplements, addendum, and drawings attached as exhibits are essential parts of this lease and are intended to be co-operative, to provide for the use of the Premises, and to describe the respective rights and obligations of the parties to this agreement. In case of a discrepancy, figured dimensions govern over scaled dimensions unless obviously incorrect. Special covenants govern over basic provisions, both of which govern over general covenants.

#### NATURAL DISASTERS

50. In the event any cause which is not due to the fault or negligence of either Lessee or Lessor renders the Premises unusable and makes the performance of this lease impossible, this agreement may be terminated by either party upon written notice to the other party. Causes include but are not restricted to acts of God or the public enemy, acts of the United States, fires, floods, epidemics, quarantine restrictions, or strikes.

#### **NOTICES**

51. Any notice required by this agreement must be hand delivered or sent by registered or certified mail to the appropriate party at the address set forth on page one of this lease or to any other address which the parties subsequently designate in writing.

#### INTEGRATION AND MERGER

52. This agreement sets forth all the terms, conditions, and agreements of the parties and supersedes any previous understandings or agreements regarding the Premises

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whether oral or written. No modification or amendments of this lease is effective unless in writing and signed by both the parties.

#### NATIONAL EMERGENCY

53. In case of any national emergency declared by the federal government, the Lessee may not hold the Lessor liable for any inability to perform any part of this agreement as a result of the national emergency.

#### APPROVAL BY LESSOR

54. Any approvals required of the Lessor by this lease will not be unreasonably withheld.

#### INGRESS, EGRESS

55. The Lessor reserves the right of ingress to and egress from the Premises and the right to enter any part of the Premises, including buildings thereon, for the purpose of inspection at any reasonable time. Except in the case of an emergency, all inspections will be coordinated with the Lessee in order to minimize interference with the Lessee's activities on the Premises.

#### PROHIBITED USES

- 56. The disposal on the airport of waste materials generated by the Lessee is prohibited.
- 57. The sale of aviation fuel, lubrication oil, or waste oil on the Premises is prohibited.
- 58. Use of the Premises for outside storage of junk, inoperative equipment, salvage parts, hazardous materials or trash or debris of whatever kind is prohibited.

#### **TEMPORARY QUARTERS**

59. The Lessee is authorized to provide temporary living quarters on the Premises during military exercises or emergency conditions. for Department of Military and Veterans Affairs personnel only.

INITIALS<sup>(</sup>

#### SURVEY

60. The Lessee and Lessor acknowledge that the Premises are unsurveyed, and the Lessee hereby agrees, at his sole expense, to cause the Premises to be surveyed by a Land Surveyor registered in the State of Alaska to establish the corners and boundaries of the Premises as shown on the Exhibit "A" attached hereto, and to place suitable permanent markers on said corners and at other appropriate locations such that the leased Premises can be readily identified by others. The Lessee further agrees to complete said survey and submit a plat of survey to the Lessor by no later than August 1, 1996 or prior to the commencement of any construction on the Premises, whichever event occurs first. Said plat of survey must conform to the survey plat requirements attached to this lease as Exhibit "B." Upon approval of said plat by the Lessor, the Lessor and Lessee hereby agree to execute a supplement to this lease which shall amend the Premises description herein as appropriate to conform with said survey.

#### **CONSTRUCTION REQUIREMENTS**

- 61. The Lessee hereby agrees to complete land development, consisting of a taxiway, apron and utilities. All utilities shall be placed within the road right-of-way. Further, Lessee agrees to complete construction of permanent improvements, consisting of a hangar, as designed, installation of utilities, fuel dispensing station, and water and sewer storage facilities on the Premises by no later than January 1, 1998. When completed, said land development and improvements must have an aggregate value of at least \$6 million. In addition to the as-built drawings required by General Covenant No. 3 herein, the Lessee must submit to the Lessor evidence that he has completed development and improvements on the Premises with an aggregate value of not less than \$6 million. Said as-built drawings and evidence of value must be submitted to the Lessor within thirty (30) days of the completion of said development and improvements, but by no later than February 1, 1998. Pursuant to Title 17, Alaska Administrative Code [17 AAC 40.330(b)], failure by the Lessee to fully comply with the requirements of this special covenant will be sufficient grounds for cancellation of the lease by the Lessor.
- 62. The Lessee acknowledges the current undeveloped nature of the Premises. Although the Lessor has plans to eventually extend an aircraft taxiway to the boundary of the Premises at some future date, nothing in this agreement shall be construed as a commitment by the Lessor to construct said taxiway. Any roads and taxiways desired by the Lessee to provide vehicle and aircraft access to the Premises prior to the construction of such access by the Lessor, shall be built at no cost to the Lessor.

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- 63. Lessee is hereby authorized to place gravel fill on the Premises subject to General Covenant No. 1 herein, in such a manner that the surface drainage does not adversely affect drainage or airport development on the airport.
- 64. All costs associated with the purchase and placement of gravel fill on the Premises shall be the responsibility of the Lessee. All gravel fill must be obtained from an offairport source.

#### TAXIWAY CONSTRUCTION

65. The Lessee acknowledges that there is no formal taxiway to the Premises. The Lessee is hereby authorized, subject to General Covenant #1 herein, to construct a taxiway approximately 1,456 feet long by 70 feet wide as shown on Exhibit "A". Construction of the taxiway must meet all federal and state standards.

#### **ROAD ACCESS**

66. The Lessee acknowledges that there is no formal road to the Premises. The Lessee is hereby authorized, subject to General Covenant #1 herein, to construct a road approximately 1000 feet long x 32 feet wide to access the Premises, within the road right-of-way, per Exhibit "A", attached. The road shall be built in compliance with federal, state and local codes and regulations.

#### SEWER AND WATER

- 67. Lessee acknowledges that any disposal of domestic waste water must comply with all current Department of Environmental Conservation standards. Construction of an on site sewer system must meet all current Department of Environmental Conservation standards.
- 68. Construction of a potable self-contained water system must meet all Department of Environmental Conservation standards.

#### **PARKING**

69. The Lessee shall provide adequate auto and aircraft parking space on the leased Premises. The parking of vehicles and/or aircraft owned and/or operated by the Lessee, his employees, customers, guests, and invitees shall be limited to the Premises.

INITIALS

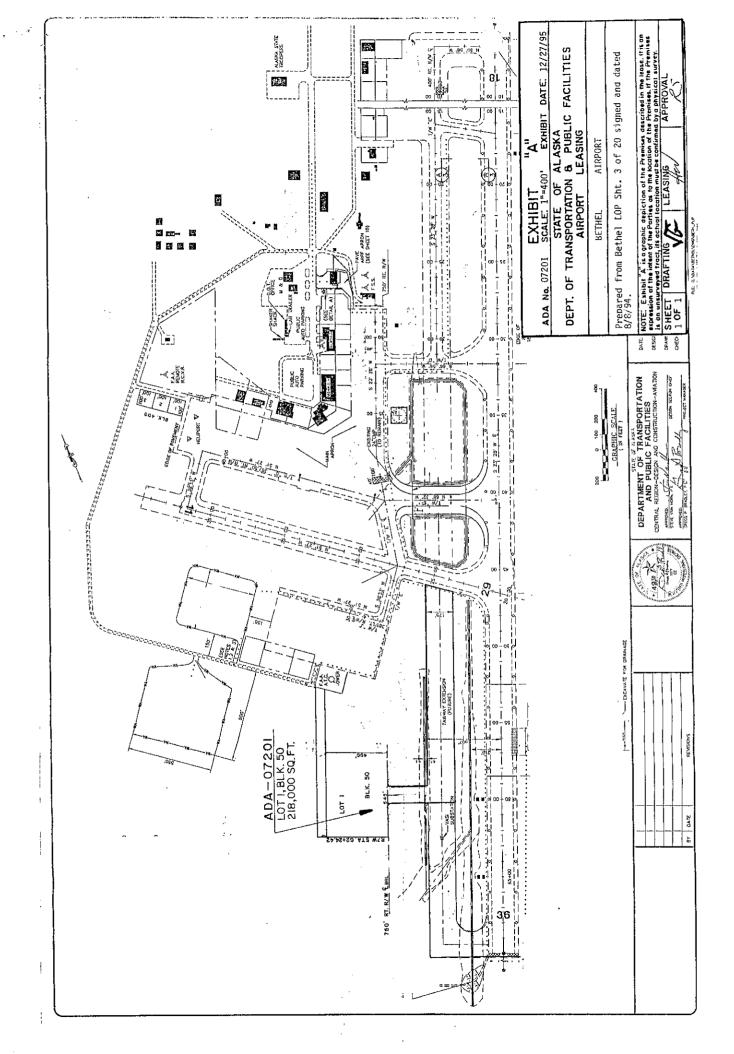
### **TERM EXTENSIONS**

70. The Lessee and Lessor acknowledges that no term extensions can be granted per Alaska Statute Title 2, Chapter 15, Section 02.15.090.

### **MATERIALS ON SITE**

71. Lessee may temporarily store non-aviation items and materials on site while waiting transit to other locations.





•	es hereto have set their hands and day and year
stated in the acknowledgments below.	LESSEE: Alaska Department of Military
	and Veterans Affairs
	and vergrans Airans
	BV: Wordking
STATE OF ALASKA)	Jake Lestenkof
)ss.	pano 2000 mon
)	Title: Commissioner
(Judicial District)	
	CO CO
THIS IS TO CERTIFY that on this	23 day of FEBRUARY, 1996, before me,
the undersigned, a Notary Public in and for the State of	Alaska, duly commissioned and sworn, personally
	nown to me and to me known to be the
Commissioner, DMVA, and he acknowledged to me that	t he executed the foregoing instrument freely and
voluntarily on behalf of the State of Alaska, Department	of Military and Veterans Affairs (DMVA), for the
uses and purposes therein set forth and that he is autho	rized by the State of Alaska so to do.
IN WITNESS WHEREOF, I have he	ereunto set my hand and affixed my official seal
the day and year above written.	
	$\left( \begin{array}{cccccccccccccccccccccccccccccccccccc$
	tristen H. Lement
	Notary Public in and for: Alka Ra
	My Commission Expires: 7-17-90
**********	************
	STATE OF ALASKA
	DEPARTMENT OF TRANSPORTATION
	AND PUBLIC FACILITIES
	•
STATE OF ALASKA )	D = D = D = D = D = D = D = D = D = D =
)ss.	1 ichay 1. 0/suss
3RD JUDICIAL DISTRICT)	
THIS IS TO CERTIFY that on this	4th day of march, 19 910, before me
the undersigned, a Notary Public in and for the State of	Alaska, duly commissioned and sworn as such,
personally appeared Michael M. O'Bhien	, known to me and to me known to be
the Chief of Leaning & Property Manag	Department of
Transportation and Public Facilities, and (he)(she) ackno	Wiedged to me that (ne)(she) executed the
foregoing instrument freely and voluntarily on behalf of	the State of Alaska, Department of Transportation
and Public Facilities, for the uses and purposes therein s	set forth and that (ne)(she) is authorized by said
State of Alaska so to do.	
IN WITNESS WILLEDEGE I have b	ereunto set my hand and affixed my official seal,
IN WITHESS WHENEOF, I have in	ereditto set my mand and armixed my ornicial soul,
the day and year first written above BOW	
S OTAD 1	(ISDK. Burnan)
S. Mounts.	Notary Public in and for Alaska
E PUBLIC E	My Commission Expires: 10/5/99
	,

## STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

#### SUPPLEMENT NO. 1

#### BETHEL AIRPORT

AGREEMENT NO. ADA-07201

THIS SUPPLEMENT to Agreement No. ADA-07201, made and entered into this 30th day of August, 1996, by and between the State of Alaska, Department of Transportation and Public Facilities, hereinafter referred to as the Lessor, and Alaska Department of Military and Veterans Affairs, whose address is P.O. 5-549, Fort Richardson, AK 99505, hereinafter referred to as the Lessee,

#### WITNESSETH:

WHEREAS, on the 15th day of December, 1995, the parties hereto entered into a principal agreement, designated as Agreement No. ADA-07201, covering the following:

Lot 1, Block 50, consisting of 218,000 square feet of land, as shown on Exhibit "A", Sheet 1 of 1, dated 12/27/95 attached to the principal agreement and made a part thereof;

WHEREAS, the Lessee desires to revise the above described principal agreement; and

WHEREAS, the parties find it will be to their mutual advantage to revise said Agreement;

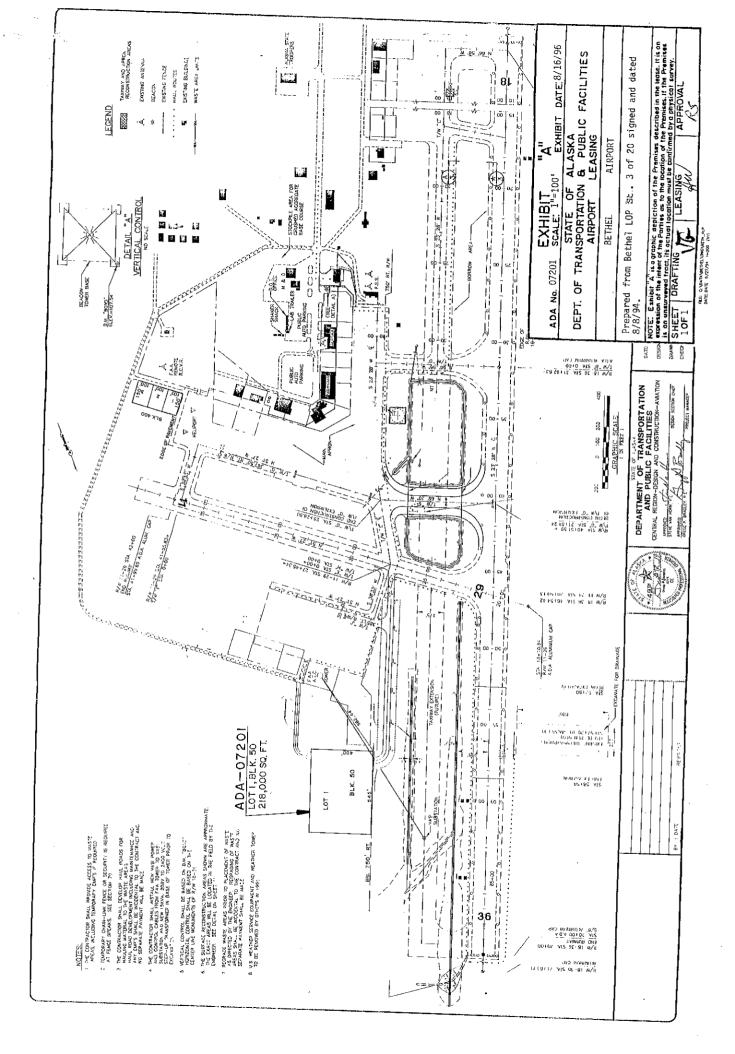
NOW, THEREFORE, in consideration of the foregoing, the said Agreement is hereby amended in the following particulars only, via:

I. The description of the leased premises in Basic Provision No. 1 is hereby amended to read as follows:

"Lot 1, Block 50, consisting of 218,000 square feet of land as shown on Exhibit "A", Sheet 1 of 1, dated 8/16/96, attached hereto which hereby replaces Exhibit "A", Sheet 1 of 1, dated 12/27/95."

II. The effective date of this supplement shall be August 31, 1996...

ALL OTHER TERMS, PROVISIONS, AND COVENANTS REMAIN UNCHANGED.



IN WITNESS WHEREOF, the parties hereto have set their hands and day and year stated in the acknowledgments below.

	LESSEE: Alaska Dept. Of Military and Veterans Affairs
STATE OF <u>ALASKA</u> )  SS.  3RD JUDICIAL DISTRIAT	Roger T. Schnell Title Deputy Commissioner
undersigned, a Notary Public in and for t personally appeared <a href="Roger T. Schnel">Roger T. Schnel</a> to be the <a href="Deputy Commissioner">Deputy Commissioner</a> (he)(she) executed the foregoing instrum	s 18thday of September , 19 96 , before me, the he State of Alaska, duly commissioned and sworn,  , known to me and to me known and (he)(she) acknowledged to me that sent freely and voluntarily on behalf of the State of the State of Alaska so to do.
	nereunto set my hand and affixed my official seal the day
and year above written.	
	Cealee & Ladd
	Notary Public in and for: State of AK
	My Commission Expires: 9-27-97
* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
	STATE OF ALASKA
	DEPARTMENT OF TRANSPORTATION
	AND PUBLIC FACILITIES
STATE OF ALASKA )	Dichon Crains
3RD JUDICIAL DISTRICT)	
THIS IS TO CERTIFY that on this undersigned, a Notary Public in and for the	24th day of <u>Soptember</u> , 19 <u>96</u> , before me, the he State of Alaska, duly commissioned and sworn as
such, personally appeared <u>Michael m. O'Gru</u>	<u>en</u> , known to me and to me known to be the <u>chetof Leasin</u> a
p.Mand; Department of Transportation and	d Public Facilities, and (he)(she) acknowledged to me that $^{\circ}$
	ent freely and voluntarily on behalf of the State of
forth and that (he)(she) is authorized by s	d Public Facilities, for the uses and purposes therein set

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year first written above.

Notary Public in and for Alaska

My Commission Expires:\_\_\_

## STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

#### SUPPLEMENT NO. 2

#### BETHEL AIRPORT

AGREEMENT NO. ADA-07201

THIS SUPPLEMENT to Agreement No. ADA-07201, made and entered into this 11th day of February, 1997, by and between the State of Alaska, Department of Transportation and Public Facilities, hereinafter referred to as the Lessor, and the Alaska Department of Military and Veterans Affairs, whose address is P.O. Box 5-549, Fort Richardson, Alaska 99505 hereinafter referred to as the Lessee,

#### WITNESSETH:

WHEREAS, on the 15th day of December, 1995, the parties hereto entered into a principal agreement, designated as Agreement No. ADA-07201, covering the following:

Lot 1, Block 50 on the Bethel Airport, consisting of 218,000 square feet as shown on Exhibit "A", Sheet 1 of 1, dated December 27, 1995, replaced by Exhibit "A", Sheet 1 of 1, dated August 16, 1996, attached hereto and made a part hereof; and

WHEREAS, the Lessor desires to amend the above described principal agreement; and

WHEREAS, the parties find it will be to their mutual advantage to amend said Agreement;

NOW, THEREFORE, in consideration of the foregoing, the said Agreement is hereby amended in the following particulars only:

I. Basic Provision No. 4(a) is amended to read:

"4(a). The annual rental for the Premises will be either the square footage fee of \$22,672.00, calculated at \$0.104 per square foot per year or ten percent (10%) of the fair market value, payable annually on July 1 of each year of the term specified in Basic Provision No. 3. The final rental will be prorated from the payment due date to the term end date. Any additional fees will be specified herein."

II. The following is added as Basic Provision No. 4(F):

4(f). Payment shall be made by Adjusted Journal (AJ) to the following coding: collocation code: 25851270, ledger code: 35810031, program code: 55109. Please use Routing Distribution (RD) Code 24344 for certification.

III. The effective date of this supplement is February 11, 1997

ALL OTHER TERMS, PROVISIONS, AND COVENANTS REMAIN UNCHANGED.

### **BETHEL AIRPORT**

IN WITNESS WHEREOF, the parties hereto have set their hands and day and year stated in the acknowledgments below.

	LESSEE: Alaska Department of Military & Veterans Affairs
	K should
STATE OF)	
)ss. Third	<b>/</b>
(Judicial District or County)	
Notary Public in and for the State of Alaska,	day of $\frac{\text{May}}{\text{May}}$ , 19 $\frac{97}{\text{N}}$ before me, the undersigned, a duly commissioned and sworn as such, personally appeared and to me known to be the $\frac{\text{Deputy Commissioner}}{\text{Deputy Commissioner}}$ ,
Department of Military & Veterans Affairs, a foregoing instrument freely and voluntarily of	ind (he)(she) acknowledged to me that (he)(she) executed the on behalf of the State of Alaska Department of Military & therein set forth and that (he)代系符色) is authorized by said State
IN WITNESS WHEREOF, I have here	eunto set my hand and affixed my official seal, the day and year
first written above.	Notary Public in and for: State of Alaska
	My Commission Expires: 9/27/97
******	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
STATE OF ALASKA )	
)ss. THIRD JUDICIAL DISTRICT	Michael 7.0'Bren
Notary Public in and for the State of Alaska <u>Michael M. O'Brien</u> , known to me  Department of Transportation and Public Fa	cilities, and (he)(she) acknowledged to me that (he)(she)
executed the foregoing instrument freely an	nd voluntarily on behalf of the State of Alaska, Department of uses and purposes therein set forth and that (he)(she) is
	eunto set my hand and affixed my official seal, the day and year
first written above.	Notary Public in and for Alaska
HOTAR	My Commission Expires: 10/5/44

## STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

#### SUPPLEMENT NO. 3

#### BETHEL AIRPORT

AGREEMENT NO. ADA-07201

THIS SUPPLEMENT to Agreement No. ADA-07201, made and entered into by and between the State of Alaska, Department of Transportation and Public Facilities, hereinafter referred to as the Lessor, and Alaska Department of Military and Veterans Affairs, whose address is P.O. Box 5-549, Fort Richardson, Alaska 99505 hereinafter referred to as the Lessee,

#### WITNESSETH:

WHEREAS, on the 15th day of December, 1995, the parties hereto entered into a principal agreement, designated as Agreement No. ADA-07201, covering the following:

Lot 1, Block 50 on the Bethel Airport, consisting of 218,000 square feet as shown on Exhibit "A", Sheet 1 of 1, dated December 27, 1995, replaced by Exhibit "A:, Sheet 1 of 1, dated August 16, 1996, attached to the principal agreement and made a part thereof; and

WHEREAS, the Lessee desires to amend the above described principal agreement; and

WHEREAS, the parties find it will be to their mutual advantage to amend said Agreement;

NOW, THEREFORE, in consideration of the foregoing, the said Agreement is hereby amended in the following particulars only:

- I. "General Covenant No. 29, <u>ASSIGNMENT OR SUBLEASE</u>," is hereby amended to read: "General Covenant No. 29, ASSIGNMENT OR SUBLEASE PROHIBITED."
- 29. Lessee shall not assign or sub-lease the Premises, in whole or in part, except as may be provided under an amendment to this Lease duly executed by authorized representatives of Lessor and Lessee.
- II. "General Covenant No. 31, <u>CANCELLATION</u>," is hereby amended to read: "General Covenant No. 31, DEFAULT AND ENFORCEMENT."
- 31.(a) The occurrence of any of the events listed below shall constitute an event of default:
- (1) The Lessee's failure to pay when due the rents or fees specified in this lease, including any increases made pursuant to this lease;
- (2) The use of the Premises for any purpose not authorized by this lease.

- (3) The failure of the Lessee to abide by or to perform any provision or covenant of this lease.
- (b) Lessee shall cure any default within thirty (30) days after written notice by Lessor. For any default that is not fully and timely cured in accordance with this paragraph, Lessee shall pay to Lessor, the greater of actual damages or liquidated damages in the amount of \$1,000.00 per day of default, accrued from the date of first notice. Such liquidated damages shall accrue automatically and without further notice.
- (c) In addition to the right to receive the greater of actual or liquidated damages under (b), above, if any default remains uncured for more than thirty (30) days after written notice by Lessor, Lessor may at Lessor's sole discretion, and after thirty (30) days additional written notice to Lessee without complete cure of all events of default, re-enter and resume possession of the Premises without release of the obligations of Lessee. On or before the date set for re-entry by Lessor pursuant to a notice under this sub-paragraph, Lessee shall peaceably vacate the Premises in a neat and orderly condition. Upon vacation by Lessee, accrual of additional liquidated damages shall cease, but without release of either accrued damages or accrual of additional actual damages. Re-entry by Lessor shall neither terminate nor cancel the lease, nor render Lessee ineligible to regain possession upon cure of all defaults and payment of all damages.
- (d) In addition to the rights and remedies expressly reserved to the Lessor under this General Covenant No. 31, the Lessor shall retain any and all additional rights and remedies otherwise available to it under law and equity.
  - III. The effective date of this supplement is September 1, 1999.

ALL OTHER TERMS, PROVISIONS, AND COVENANTS REMAIN UNCHANGED.

IN WITNESS WHEREOF, the parties hereto have set their hands on this day and year			
stated in the acknowledgments below.	Alaska Department of Military		
	LESSEE: and Veterans Affairs		
STATE OF Alaska )	BY. James It here		
)ss.  Third Judicial District (Judicial District or County)	TITLE: Dent Commercial		
THIS IS TO CERTIFY that on this Juth day undersigned, a Notary Public in and for the State of sworn, personally appeared <u>James H.</u> (to be the person(s) named in and who executed the acknowledged to me that (he)(she)(they) signed the act and deed with full knowledge of its contents, for	f Alaska , duly commissioned and hase , known to me and to me known e foregoing instrument, and (he)(she)(they) e same as (his)(her)(theirs) free and voluntary		
IN WITNESS WHEREOF, I have hereunto s	et my hand and affixed my official seal the day		
and year above written.	Haron & Goslin		
	Notary Public in and for Aloska  My Commission Expires: \$1,5/01		
*****************	**************		
	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES		
STATE OF ALASKA )	1 a Vax		
)ss. \ 3rd JUDICIAL DISTRICT )	Schit Wy		
undersigned, a Notary Public in and for the State of	ay of October, 1999, before me, the of Alaska, duly commissioned and sworn as for the order. TR, known to me and to me		
	and Property Management		
Department of Transportation and Public Facilities			
(he)(she) executed the foregoing instrument freely and voluntarily on behalf of the State of Alaska, Department of Transportation and Public Facilities, for the uses and purposes therein set forth and			
that (he)(she) is authorized by said State of Alaska			
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the			
day and year first written above.			
	Make I fammelle		
OFFICIAL SEAL	Notary Public in and for the State of Alaska		
STATE OF ALASKA	My Commission Expires: 8//4/2007		

## STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

#### SUPPLEMENT NO. 4

#### BETHEL AIRPORT

AGREEMENT NO. ADA-07201

THIS SUPPLEMENT to Agreement No. ADA-07201, made and entered into by and between the State of Alaska, Department of Transportation and Public Facilities, hereinafter referred to as the Lessor, and Alaska Department of Military and Veterans Affairs, whose address is P.O. Box 5-543, Ft. Richardson, Alaska 99505 hereinafter referred to as the Lessee,

#### WITNESSETH:

WHEREAS, on the 15th day of December, 1995, the parties hereto entered into a principal agreement, designated as Agreement No. ADA-07201, covering the following:

Lot 1, Block 50 consisting of 218,000 square feet of land as shown on Exhibit "A", Sheet 1 of 1, dated December 27, 1995, replaced by Exhibit "A", Sheet 1 of 1, dated August 16, 1996, attached to and made a part of the principal agreement; and

WHEREAS, the Lessee desires to amend the above described principal agreement; and

WHEREAS, the parties find it will be to their mutual advantage to amend said Agreement;

NOW, THEREFORE, in consideration of the foregoing, the said Agreement is hereby amended in the following particulars only:

I. General Covenant No. 29, <u>ASSIGNMENT OR SUBLEASE PROHIBITED</u>, is hereby amended to read:

#### ASSIGNMENT OR SUBLEASE

- 29. The Lessee may only assign or sublet, either by grant or implication, the whole or any part of the Premises or any improvements thereon to another state agency upon written consent of the Lessor. Any proposed assignment, lease, or sublease must be submitted to the Lessor for approval in three (3) copies, each bearing the original notarized signature of all parties. All covenants and provisions in this agreement extend to and bind the legal representatives, successors, and assigns of the parties."
  - II. The effective date of this supplement is September 10, 2001.

ALL OTHER TERMS, PROVISIONS, AND COVENANTS REMAIN UNCHANGED.

IN WITNESS WHEREOF, the parties hereto have set their hands on this day and year stated in the acknowledgments below.

LESSEE: Alaska Department of Military

		_	and Veterans	s Affairs
STATE OF )			1 2	$\sim 1$
)ss		BY:	Augher	) Korene
(Judicial District or County)		7	79	
	. 6 2		10 4 -1	
THIS IS TO CEF	RTIFY that on this #	day of 💪	Vetrhew_	, 2001, before me, the
undersigned, a Notary Public	in and for the State of Al	aska, duly	y commissioned	and sworn as such,
personally appeared Step.	hen D Karenek	, kn	own to me and to	o me known to be the
Commissioner, State of Alask	a, Department of Military	and Vete	erans Affairs, and	l_(he)(she)
acknowledged to me that (he)	(she) executed the foreg	joing instr	rument freely and	l voluntarily on behalf
of the State of Alaska, Depart	ment of Military and Vete	erans Affa	irs, for the uses	and purposes therein
set forth and that (he)(she) is	authorized by said State	of Alaska	a so to do.	
IN WITNESS W	HEREOF, I have hereun	to set my	hand and affixed	d my official seal the
day and year above written.	NOTARY PUBLIC	1	n	(
1	BARBA <b>RA D, HANNAH</b>	724	V ( **	unal
, and	STATE OF ALASKA	•	Public in and for:	Styda
		My Com	mission Expires:	3/2/03
* * * * * * * * * * * * * * * * * * * *	****	*****		AL ACIZA
		DED	STATE OF T	
•		DEP		RANSPORTATION
			AND PUBLIC	FACILITIES
		$\mathcal{A}$	$\Omega$	·
STATE OF ALASKA )		// n		
)ss 3rd JUDICIAL DISTRICT )	).	$\langle \langle a \rangle \rangle$	All h / N ]	1
31d JUDICIAL DISTRICT		Homm		
THIS IS TO CE	RTIFY that on this <u>l5fh</u>	day of	October	, 2001, before me, the
undersigned, a Notary Public	in and for the State of A	laska, dul	v commissioned	
personally appeared Robo	rt ( Norton No.	, kn	lown to me and t	o me known to be the
Chief of Longing & Donne	HIL Mangement Dep	artment c	of Transportation	and Public Facilities,
and he acknowledged to me t	that he executed the fore	egoing ins	trument freely ar	nd voluntarily on behalf
of the State of Alaska, Depart	tment of Transportation a	and Public	c Facilities, for th	e uses and purposes
therein set forth and that he is	s authorized by said Stat	e of Alask	ka so to do.	

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, the day and year first written above.

OFFICIAL SEAL
State of Alaska
THERESA C. TAFS
NOTARY PUBLIC
My Commission Expires:

Notary Public in and for the State of Alaska My Commission Expires 12/14/2004

## STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES LEASING AND PROPERTY MANAGEMENT

### LEASE/PERMIT APPLICATION

AIRPORT NAME BETHEL AIRPORT			
1. TYPE OF APPLICATION (Please check appropriate boxes) AIRPORT NAME BETHEL ATRPORT    Definit   Continue   Co			
2. Name and Mailing Address of Applicant:	3. Name to Appear on Lease/Permit*:		
Name: SOA, DMVA, AK ARMY NATIONAL GUARD Address: PO BOX5800 bin #19 FT. RICHARDSON, AK 99505	Name: SAME  Address:		
Phone: 907) 428-6786  FAX: 907) 428-6897  Name of Contact Person if other than applicant:  MIKE COY	Phone: ( )  FAX: ( )  *Commercial applicants: Name should match business license, corporation certificate, etc.		
4. Description of Property Requested:  Lot(s) Block Parcel Other* 4 ARCES	5. If Applicant is a business, indicate which type of business below and provide copies of your business license, corporation certificate, or partnership agreement.		
Term Requested: 55 YEARS	☐ Individual ☐ Partnership ☐ Corporation		
Starting Date: 1 JULY 1996  *Attach location map.	All items listed above must be received before the application can be processed.		
6. For what purpose do you plan to use the property?:   Private Use Only   Commercial   Government  List specific uses planned (i.e. private aircraft storage, air taxi, air freight, etc.):  OVER.			
CONSTRUCT A ALASKA ARMY NATIONAL GUARD			
Do you plan to handle Fuel?: MYes \(\sigma\) No If yes, will you: \(\sigma\) sell fuel? \(\sigma\) store/dispense fuel for your own use?			
Will you use:   a Mobile Fueler   fixed fuel tanks? (  underground?   aboveground?)  Tank(s) size   20,000 49 lon (all types)			
7. Is this an Application for renewal of an existing contract?:   Yes  K. No  Expiration Date:			
8. Is this intended to be a competing application in response to a current Public Notice?:   Yes  If yes, please provide the following: Lease\Permit Number: ADA-  Property Description:			

9. IMPROVEMENTS:	emises?: K. Yes			
Do you plan to construct or place improvements on the Pr Attach a site plan showing all dimensions (refer to example Estimated cost of proposed improvements: \$ 6.8 Mills	on reverse side of Application Instructions)			
construction costs) Anticipated completion Date: 52 Describe proposed improvements and type of construction:	AK ARMY NATIONAL GUARD			
THIOGITA.				
10. List type, quantity and tail number of all aircraft to be based at the Premises:    Note				
	UHIH HUEY UHGOZ BLACKHAWK			
Is the applicant a Certified Commercial Air Carrier?   Yes  No  If yes, certificated under:  Part 121  Part 135  Other:  Please provide a copy of your certificate. The application will not be processed without it.				
11. BEFORE SUBMITTING YOUR APPLICATION, HAVE YOU:	12. Signature:			
Provided all required information?	Print Name: MICHAEL D COY			
Attached a site plan?	Title: <u>ENGINEERING</u> TECHNICIAN			
Enclosed the \$25.00 application fee?	closed the \$25.00 application fee?  Date: 22 SEPT 1995			
Enclosed all required business forms?  UNSIGNED OR INCOMPLETE APPLICATIONS WILL NOT BE ACCEPTED				
MAIL OR DELIVER APPLICATIONS TO DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, AT THE APPROPRIATE ADDRESS SHOWN ON THE APPLICATION INSTRUCTION SHEET.				
FOR OFFICE USE ONLY				
1. Lease/permit application number:	2. Date entered into Revenue Subsystem:  Initials:			
ITEMS RECEIVED:	8. Other Items Submitted: (financial info, etc.)			
3. Application fee 4. Site Plan	a			
5. If needed, Business License or 5. Certification of Incorporation or 6. Partnership Agreement	b			
7. Operating Certificate	·			



# DEPAH MENTS OF THE ARMY AND THE AIR FUNCE NATIONAL GUARD BUREAU 111 SOUTH GEORGE MASON DRIVE ARLINGTON, VA 22204-1382

NGB-ARI-P

SEP 2 3 2003

MEMORANDUM FOR THE ADJUTANT GENERAL, ALASKA (AKNG-AEN), POST OFFICE BOX 5449, FORT RICHARDSON, AK 99505-5449

SUBJECT: Readiness Center, Bethel, AK, PN 020123, FY03 Congressionally Directed Design, FY09 Military Construction ARNG

- 1. The Certificate of Title, dated 14 Aug 03, for the subject project has been reviewed by NGB-JA, and found sufficient. Said document is returned (enclosure).
- 2. The point of contact for this action is Mr. Kirit Jhaveri, DSN 327-7947, Commercial 703-607-7947.

Encl as

EDWARD D. SWEENEY, P.E

COL, NGB

Chief, Installations Division

CF (wo/encl.):
USPFO, AK

203 SEP 30 AM IO: 24

#### CERTIFICATE OF TITLE

STATE OF ALASKA

PROJECT DESCRIPTION: READINESS CENTER

LOCATE SITE: BETHEL

I hereby certify that the State of Alaska has title to the hereinafter described real property as evidenced by the Statutory Quitclaim Deed Subject to Conditions, dated November 30, 1999; that such title or interest in said real property has no cancellation provisions by the owner and is free of restrictions to National Guard or Reserve use for the construction, administration and training, or to U.S. Government use in time of war or national emergency, and is good, valid, and sufficient, and subject to no liens or encumbrances save and except the following: The property may only be used for construction of a new readiness center and operational maintenance shop; if funding or construction is not achievable within ten years, either the City of Bethel and the State of Alaska will renegotiate the deadline, or management rights will transfer to the State of Alaska's Department of Natural Resources; and the City of Bethel will provide a use plan that meets federal criteria for use of the land before the Department of Natural Resources applies for any change of use and change of title for the land.

I further certify that the interest of the State of Alaska in and to said real property is adequate to justify the expenditure of public funds of the State of Alaska in the improvement thereof for Army National Guard purposes and subject to the limitations set forth in Title 10, U.S.C. Chapter 1803, as amended, and that the intended use of said lands and improvements by the Alaska Army National Guard is in compliance with all applicable statutes, local laws, and ordinances.

#### LEGAL DESCRIPTION

Lot 15 U.S. Survey No. 4117, Alaska, T. 8 N., R. 71 W., Seward Meridian, Bethel Recording District, Fourth Judicial District, State of Alaska, containing 10.54 acres, more or less.

Being the lands referred to in Agreement No. DAHA-51-03-2-2004, between the United States and the State of Alaska for the construction of a Readiness Center at the above-named site.

> GREGG D. RENKES ATTORNEY GENERAL Assistant Attorney General (or LEGAL REPRESENTATIVE)

Ву

## DEPAH (MENTS OF THE ARMY AND THE AIR FORCE NATIONAL GUARD BUREAU

111 SOUTH GEORGE MASON DRIVE ARLINGTON, VA 22204-1382

NGB-ARI-P

SEP 23 ZUG

MEMORANDUM FOR THE ADJUTANT GENERAL, ALASKA (AKNG-AEN), POST OFFICE BOX 5449, FORT RICHARDSON, AK 99505-5449

SUBJECT: Readiness Center, Bethel, AK, PN 020123, FY03 Congressionally Directed Design, FY09 Military Construction ARNG

- 1. The Certificate of Title, dated 14 Aug 03, for the subject project has been reviewed by NGB-JA, and found sufficient. Said document is returned (enclosure).
- 2. The point of contact for this action is Mr. Kirit Jhaveri, DSN 327-7947, Commercial 703-607-7947.

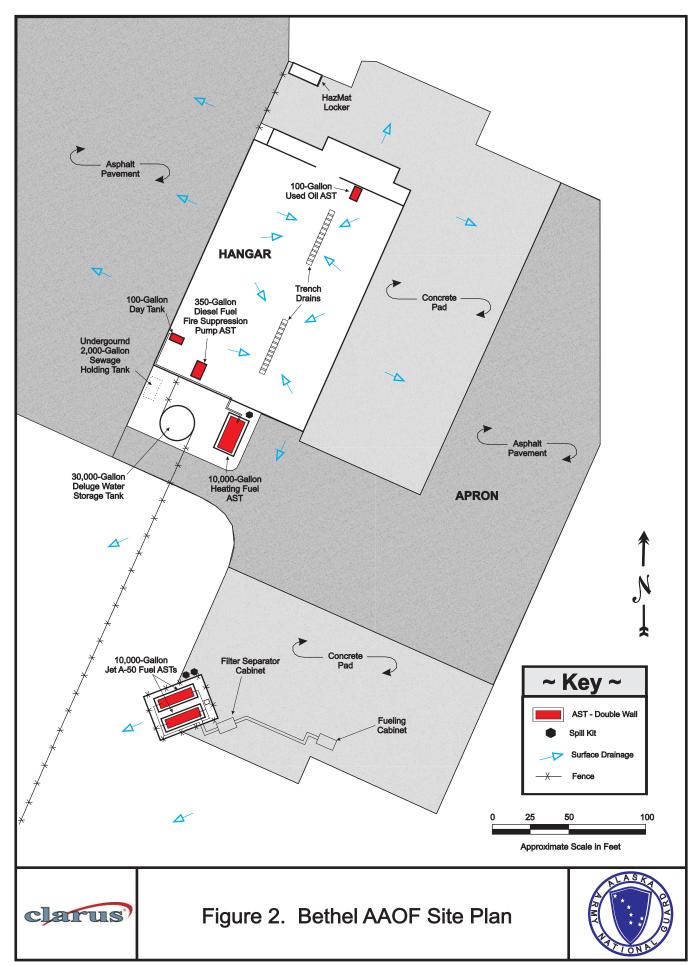
Encl as

EDWARD D. SWEENEY, P.E.

COL, NGB

Chief, Installations Division

CF (wo/encl.):
USPFO, AK



### PHASE I ENVIRONMENTAL BASELINE SURVEY

### FINAL REPORT

### Army Aviation Operating Facility Bethel, Alaska

Contract Number DAHA90-94-D-0005 Delivery Order No. 2Z05

Prepared for:

Alaska Army National Guard



Prepared by:

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April 1999

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#### LIST OF ACRONYMS

**AAOF Army Aviation Operating Facility Army Aviation Support Facility AASF Asbestos Containing Material ACM ADEC** Alaska Department of Environmental Conservation ADOT&PF Alaska Department of Transportation and Public Facilities **AK ARNG** Alaska Army National Guard AR **Army Regulation AST** Aboveground Storage Tank Benzene, Ethylbenzene, Toluene and Xylenes **BETX** below ground surface bgs Comprehensive Environmental Response, Compensation, and Liability Act **CERCLA** Comprehensive Environmental Response, Compensation, and Liability **CERCLIS Information System CESQG** Conditionally Exempt Small Quantity Generator Defense Reutilization and Marketing Office **DRMO Diesel Range Organics** DRO **Environmental Assessment** EA **Environmental Baseline Survey EBS EIS Environmental Impact Statement Environmental Protection Agency EPA FISP** Fiscal Inventory and Stationing Plan **GRO** Gasoline Range Organics Homogeneous Area HA **NFS** Non-Frost Susceptible Ogden Ogden Environmental and Energy Services, Inc. Petroleum, Oil and Lubricant **POL RCRA** Resource Conservation Recovery Act **RCRIS** Resource Conservation Recovery Information System REC/CX Record of Environmental Consideration/Categorical Exclusion Record of Conversation **ROC TSD** Treatment, Storage and Disposal United States Property Fiscal Office **USPFO UST** Underground Storage Tank

#### **EXECUTIVE SUMMARY**

#### **PURPOSE**

This EBS consists of a Phase I audit that, through a records review and site walk-through, seeks to determine whether and to what extent environmental liabilities may exist. No environmental assessment can completely eliminate uncertainty regarding the potential for recognized environmental conditions in connection with a piece of property. The performance of an EBS is intended to reduce such uncertainty.

An EBS is required for Army real property transactions as identified in Army Regulation 200-1, Section 12-5. It is intended to show due diligence on the part of the National Guard Bureau in identifying and acting upon environmental contamination attributed to activities during site occupation.

#### PROPERTY LOCATION AND DESCRIPTION

The site under investigation in this EBS document is the Army Aviation Operating Facility (AAOF) in Bethel, Alaska. The property consists of 55,754 ft<sup>2</sup> of land leased from ADOT&PF (ADA #07268). It is currently identified as Block 4, Lot 10B. The Department of Military and Veterans' Affairs lease on the core property began as a lease of 0.96 acres (ADA#00860) on March 6, 1968. The lease was modified and expanded to its current configuration in 1996. It is anticipated that the lease will be terminated upon completion of a new hangar facility at another location.

This EBS record search and site investigation includes information on the leased property, inclusive of past and present lease configurations, and owned buildings.

#### SUMMARY OF SIGNIFICANT FINDINGS

During the June 24 and August 27, 1998 site visits, the property was noted to be in good general condition. There is little vegetation on the site; the grounds are covered by concrete and asphalt

pads. Miscellaneous scrap metal and wood debris are scattered along the western edge of the property.

The EBS research identified the following areas of potential concern.

- 1. The location of the former 12,000-gallon aviation fuel UST on the northwest side of the property contains soil with diesel range organic (DRO) concentrations above the ADEC Method 2, Under 40-inch Zone (annual precipitation) cleanup levels,
- 2. The location of the present 3,000-gallon heating oil AST off of the northeast corner of the building contains soil with DRO concentrations above ADEC Method 2, Under 40-inch Zone cleanup levels,
- 3. The buried heating oil tank, installed southeast of the hangar, may still be in the ground, and
- 4. A 2,000-gallon UST may have been installed and may still be in place near the north corner of the hangar.

#### RECOMMENDATIONS

It is recommended that the following Phase II follow-up work be performed in preparation for property disposal:

- 1. Remediate the soil/contamination from the location of the former 12,000-gallon UST to applicable ADEC cleanup levels,
- 2. Investigate the extent, and if necessary, remediate the contaminated soil around the 3,000-gallon heating oil AST,
- 3. Determine if the buried heating oil tank is still in place and if so, remove it from the ground and collect confirmation soil samples, and
- 4. Determine if a UST is in place beneath the concrete hard stand north of the hangar and if so, remove it from the ground.

In addition, to maintain general good housekeeping practices, the solid waste and debris scattered around the site should be removed and properly disposed of.

#### **CERTIFICATION STATEMENTS**

Based on available records, documentation, and interviews, the information presented in this EBS is true and accurate. The review considers environmental program areas and EBS guidance identified in Army Regulation 200-1. The survey identifies potential environmental concerns and due diligence in this matter.

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#### 1.0 INTRODUCTION

The Alaska Army National Guard (AK ARNG) has contracted Ogden Environmental and Energy Services Company, Inc. (Ogden) under Contract Number DAHA90-94-D-005, Delivery Order Number 2Z05, to conduct a Phase I Environmental Baseline Survey (EBS) at the Army Aviation Operating Facility (AAOF) in Bethel, Alaska.

#### 1.1 PURPOSE OF EBS

Army Regulation (AR) 200-1, Section 12-5, requires that an EBS or EBS-type activity be conducted for all Army real-estate transactions in order to provide involved parties with site information that can be used during property transfer. The EBS is used to determine the need for additional data, to establish a baseline condition, to support the Innocent Landowner Defense, to determine environmental risks associated with the transaction, to evaluate potential costs associated with managing those risks, and to allocate liability to potentially responsible parties.

An EBS is approached in three phases. Phase I of the EBS process includes 1) a comprehensive records search; 2) a site inspection to determine if potential contamination exists on property being considered for acquisition, transfer, lease, sale, or any other disposition; 3) interviews with current owners and occupants of the property; and 4) the production of a report which includes an evaluation of the environmental condition of the subject property. A thorough walk-through inspection of the parcel must be conducted during the Phase I Assessment. If potential for contamination exists, then a Phase II Assessment that would require testing of the soil and/or water must be completed. Phase III is the remediation phase.

#### 1.2 SCOPE OF EBS

This EBS is a Phase I environmental assessment of the subject leased property and AK ARNG owned buildings. It includes a comprehensive record search; a site inspection to determine if potential contamination exists on the property; interviews with knowledgeable persons; and this report. Every effort has been made to identify environmental impacts to the property in question. Speculation of past as well as present practices and activities are brought forward in this document to identify all potential releases and concerns.

#### 1.3 SITE LOCATION AND DESCRIPTION

The current site of the AAOF is leased from the Alaska Department of Transportation and Public Facilities (ADOT&PF). The AAOF is located on approximately 1.28 acres on the south side of the Bethel Airport. The legal description of the site is Lot 10B, Block 4, Bethel Airport, southwest ¼ of Section 13, Township 8 North, Range 72 West of the Seward Meridian. The initiation document for the lease is dated March 6, 1968. The AK ARNG is scheduled to terminate this lease upon the completion of a new hangar facility at another location at the airport.

The National Guard Standard Operating Procedures for EBS preparation dated February 1999 lists seven environmental condition categories as defined by the Department of Defense. The AAOF site is an Area Type 5 property due to storage and release of petroleum products where removal and/or remedial actions are under way, but all required remedial actions have not yet been taken.

#### 1.4 SURVEY METHODS

The Phase I EBS includes extensive record reviews, site inspections, personnel interviews conducted to document current and historic conditions, and the preparation of this document. These efforts were performed over a twelve-month period from April 1998 to April 1999. The methodologies used to obtain the information presented in this review are described below.

#### 1.4.1 Documents Reviewed

The information contained in the AK ARNG environmental, real estate and facilities maintenance files provide the majority of the information in this EBS. Other federal, state, and local agency files as well as public sources were reviewed. Tables 8-1 and 8-2 in Section 8 list the sources and references used in compiling this document.

#### 1.4.2 Site Visit

Ogden personnel conducted the initial site visit on June 24, 1998 and a follow up site visit on August 27, 1998. The location of petroleum storage, the presence of other hazardous substances, signs of distressed vegetation, and general site conditions were noted in a field log.

#### 1.4.3 Interviews

Numerous personnel with knowledge of past and/or present site activities were interviewed as part of this Phase I investigation. CW2 Paul Gerhartz at the AAOF was interviewed on June 24, 1998. The AAOF commander, Major Kenneth Snyder, was unavailable during this first visit, but was subsequently interviewed during the August 27, 1998 site visit. Table 8-2 in Section 8.3 provides a complete list of persons interviewed; Appendix B contains the Record of Conversations from the interviews.

#### 2.0 SITE BACKGROUND AND DESCRIPTION

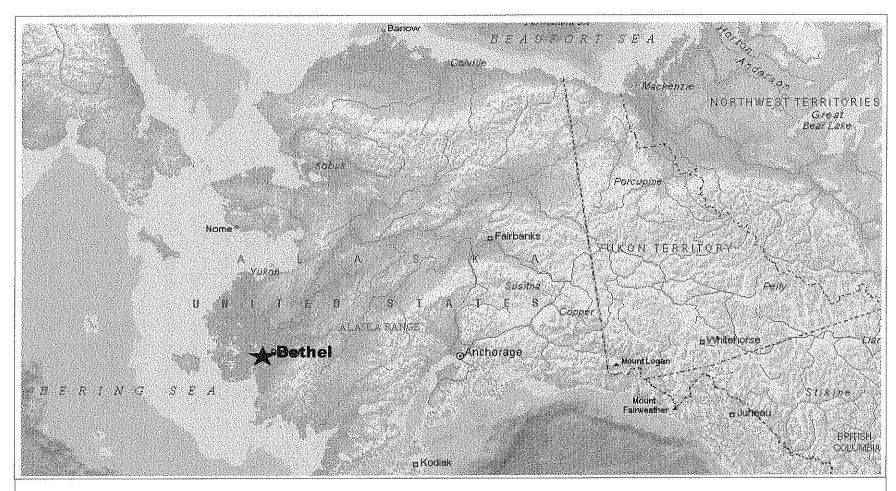
The AAOF is located at the airport in Bethel, Alaska. The city of Bethel is located at the mouth of the Kuskokwim River, 40 miles inland from the Bering Sea. It lies in the Yukon Delta National Wildlife Refuge, 400 air miles west of Anchorage. Figure 2-1 shows the location of Bethel within Alaska; Figure 2-2 shows the location of the AAOF within Bethel.

The airport is three miles west of town. It is the third busiest airport in the State. The Bethel tower became operational in 1983, handling both IFR and VFR flights. Daily air service by both passenger jet and cargo jet flights occurs from Anchorage. Many small air carrier charter services also operate out of Bethel, serving the 56 villages in the surrounding area with scheduled and charter services.

#### 2.1 HISTORY

The present Bethel Airport was opened in 1955 after the military runway located across the Kuskokwim River was abandoned due to inconvenience. The Airport was paved to standards suitable for transport aircraft in 1958. In order to meet the demands caused by Bethel's rapid growth, the runway was extended and strengthened in 1973 to handle Boeing 727-200's with a gross weight of 130,000 pounds. The runway length has been 6,398 feet since that time. In 1995, runway buckling due to frost heave near the south end of the runway was repaired by placing insulation above the shallow permafrost layer and re-paving an 1,100-foot section.

An aerial photograph shows that the Bethel Airport site was undeveloped in 1950. The land that would become the AAOF site was developed with the airport in 1955; however, it was not occupied until the AK ARNG constructed the original hangar. Aerial photography from September 1969 shows the foundation of the original AAOF hangar (see photo in Appendix A, pg A-11). The AK ARNG FISP list indicates occupancy of the AAOF facility in 1972.

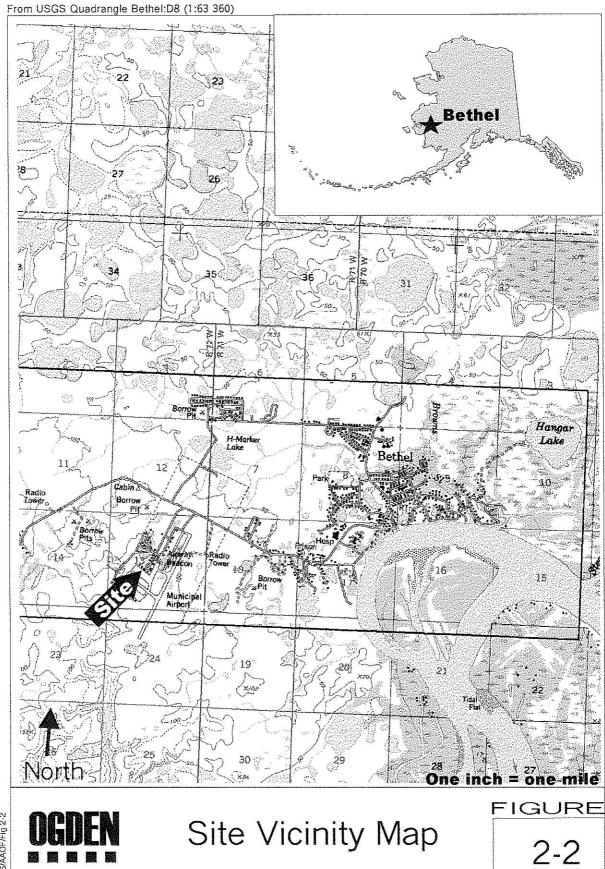


OGDEN

Bethel Location Map

FIGURE

2-1



EBS/AAOF/Fig 2-2

#### 2.2 PROPERTY OWNERSHIP

The AAOF property is currently owned by and leased from ADOT&PF; however, the buildings and improvements on the land belong to the State of Alaska. This EBS covers both the leased property and the owned buildings. The federal and state governments, on a 75/25 split, share the maintenance of the facility. The lease of the AAOF property will be terminated upon the completion of a new hangar facility at another location at the airport. At that time, the existing AAOF facility will be excessed. It is anticipated that the present hangar building will remain on the property.

The site was leased to the Alaska Department of Military and Veterans' Affairs beginning on March 6, 1968. It originally had the ADOT&PF lease designation of ADA #00860. The site was 0.96 acres, with the legal description of Block 4, Lots 9 and 10. In March 1979, and again between 1979 and 1996, the configuration of the leased lots underwent minor changes, but remained essentially 0.96 acres. In April 1996, the lot configuration changed to include more tarmac space. The lot size increased to 55,754 ft<sup>2</sup> and the ADOT&PF lease designation was changed to ADA #07268. At that time, the site changed to its current legal description of Block 4, Lot 10B.

#### 2.3 SITE DESCRIPTION

## 2.3.1 Facility Name

The facility name is the AAOF #2. A recent administrative decision will soon change the name to the Army Aviation Support Facility (AASF) #2.

#### 2.3.2 Location

The facility's physical location is: Bethel Army Aviation Operating Facility

West Ramp-Bethel Airport

Bethel AK 99559

Coordinates for the facility are: Section 9, T008N, R071W, Seward Meridian.

60° 47' North Latitude, 161° 45' West Longitude.

#### 2.3.3 Facility Mission

At the Bethel AAOF, AK ARNG personnel perform operational support for various aircraft. These aircraft have included UV-18 Twin Otters, CH-54 Skycranes, UH-60 Blackhawk Helicopters, and UH-1 Huey Helicopters. Other aircraft that may have operated out of this facility include U-8D and U-8F Single Otters, U-21 Beechcraft, and C-12D and C-12F Beechcraft.

## 2.3.4 Structures and Buildings

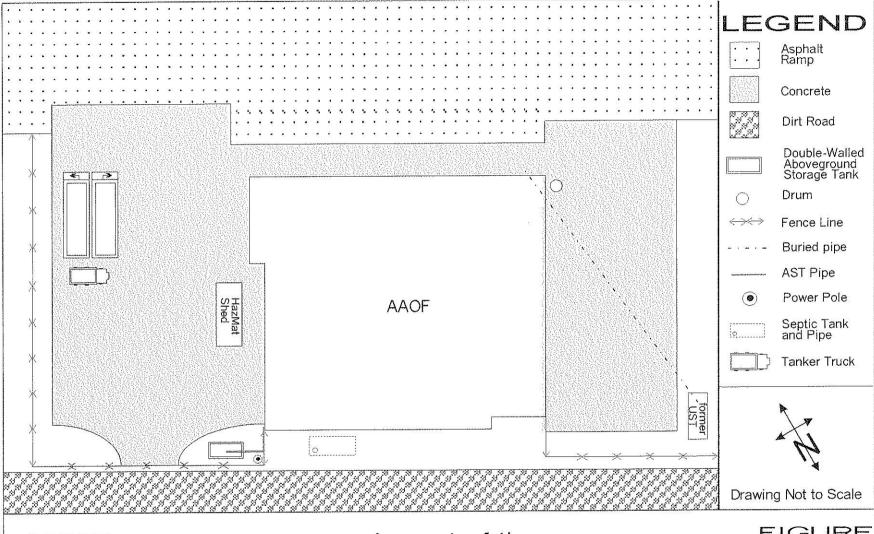
The original hangar, erected in 1972, was a 70ft x 50ft pre-engineered metal building. The facility was expanded in 1977 with a pre-engineered, 86ft x 36ft, metal addition. The building contains offices, work bays, a restroom, locker rooms, a boiler room, a hazardous materials room, and several storage areas. A pre-engineered, 10ft x 25ft, metal hazardous materials/hazardous waste storage building, presently on the east side of the property, was added in 1995. It is used mostly for additional non-hazardous storage. Figure 2-3 provides a layout of the AAOF site.

## 2.3.5 Other Improvements

Other current improvements on the property include several aboveground storage tanks (ASTs) and a septic tank. A 3,000-gallon AST that is used to store heating fuel oil is located next to the building on the east side of the property. It is connected to a day tank inside the building via aboveground piping. In addition, a system of two 10,000-gallon ASTs used for storage of Jet A fuel is located on the concrete on the southeast side of the property. A 2,500-gallon septic tank is located underground on the north side of the facility.

#### 2.3.6 General Conditions

Due to the location of the AAOF at the airport, there is very little vegetation on site. Approximately 90% of the site is covered by either concrete or asphalt pads. Where surface soils are present, the soil consists of fill approximately ten feet deep, comprised of non-frost susceptible (NFS) or near-NFS material from the building pad. The only distressed vegetation noted is around known releases or leaks.



Layout of the Bethel AAOF Site

FIGURE

2-3

#### 2.3.7 SITE SECURITY

Due to the nature of the AAOF facility operations, the majority of the traffic in the area is transitory. Public access to the site is restricted by a fence-line on the north side of the property. The south side of the property is un-gated; however, it is accessible only to authorized airport personnel.

## 2.3.8 Adjacent Land Use

The Bethel airport property, owned by ADOT&PF, is comprised of approximately 1,077 acres of land zoned entirely for industrial use. Yute Air Alaska, a charter and schedule passenger operation, and Northern Air Cargo, a cargo operation, share the lease of the property and hangar to the west of the AAOF. D&G Express, also a cargo operation leases the property and hangar to the east; D&G Express subleases portions of the hangar to other air service operators, including Reeve Aleutian Airways, Kusko Aviation, and Arctic Transportation Services. The south side of the property is bound by a taxiway, the north side by a fence line. A paved road runs in front of the fence line on the north side of the AAOF.

#### 3.0 SITE SETTING

## 3.1 CLIMATE

The weather in the Bethel area is a combination of coastal maritime and interior continental climates. High humidity, frequent fogs, cloudiness, and light rains and snow characterize all four seasons on the Delta. Average summer temperatures are in the  $60^{\circ}$ F range; average winter temperatures in the  $-10^{\circ}$ F range. Annual precipitation is 16 inches, including 50 inches of snow. Average winds are out of the north-northeast at 11 knots.

## 3.2 GEOLOGY AND SOILS

The general geology of the Delta consists of older coastal deposits of interlayered alluvial and maritime sediments. Soils are composed of sand and silt, underlain by discontinuous permafrost. The soils are typically overlain with 12 inches of peaty moss.

There are no identified mineral resources in the vicinity of Bethel. The outer continental shelf in the Bering Sea has seen limited exploration with no positive results. No known activity is planned in the near future.

## 3.3 Hydrology

#### 3.3.1 Surface Water

The Kuskokwim River lies approximately 1.5 miles east of the airport. The meandering of the River has formed many sloughs, ponds, and oxbow lakes. The fine-grained soil coupled with the permafrost cause poorly drained surface conditions that produce numerous snowmelt lakes. The moist and wet palustrine wetland covers the region. According to the Bethel Coastal Management Plan, except for two small drainages located on the east side of the main runway, no significant wetlands are shown on the airport property. During the site visits, no surface water was noted on or adjacent to the property.

#### 3.3.2 Groundwater

No data is available on the precise depth to groundwater at the AAOF; it is assumed to be between five and 20 feet below ground surface as is common for the delta. The Bethel water supply is obtained from wells drilled through the permafrost to an average depth of 420 feet. This groundwater is considered of high quality and is preferable to the more shallow water sources.

#### 3.4 BIOLOGY

#### **3.4.1** Flora

The vegetation of the arctic tundra is adapted to the permafrost, periodic flooding by tidal and riverine waters and wind. This periodic flooding favors graminoid dominated plant complexes. Grass and sedge comprise 38% of the vegetative ground cover. Other significant covers include dwarf scrub and peat-land complexes. Except for the waterways, the region is basically devoid of trees.

## 3.4.2 Fauna

The Delta is not normally the home of large mammals, such as bear, moose, caribou, wolverine, and fox, which tend to live more inland. However, it is a major migratory "flyway" and nesting ground for various species of birds, including swans, geese, ducks, and shorebirds. The Kuskokwim River is a major anadromous fish stream for king, chum, and silver salmon, whitefish, and sheefish.

#### 4.0 ENVIRONMENTAL CONSIDERATIONS

## 4.1 HAZARDOUS MATERIALS

There is no record or evidence that reportable quantities of hazardous materials, as defined by 40 CFR 302, are or have been stored on site. See Section 4.3 for a discussion of Petroleum, Oil and Lubricant (POL) Storage on the property.

#### 4.2 HAZARDOUS WASTE

The EPA originally listed the Bethel AAOF as a small quantity generator of hazardous waste. In 1997, the AAOF formally became a conditionally exempt small quantity generator (CESQG). To qualify for CESQG status, a facility must generate no more than 100 kg (about 25 gallons) of hazardous waste in any calendar month, no more than 1 kg of acutely hazardous waste in any calendar month, and never accumulate more than 1,000 kg of hazardous waste on site. At no time has the AAOF exceeded CESQG generation or storage limits.

Hazardous wastes are currently stored mainly in two locations at the AAOF: a primary hazardous waste accumulation area and a satellite accumulation area. The primary accumulation area is located in a prefabricated hazardous waste/hazardous materials building just east of the hangar and is equipped with secondary containment. During the August site visit, one partially filled 55-gallon drum of sludge from the oil/water separator was awaiting disposal. The satellite accumulation area is located within the hazardous materials supply room off of the main hangar work bays. There is a concrete lip in front of the outside door that provides additional containment for the satellite accumulation area.

The AAOF has maintained an EPA hazardous waste transport identification number, but has not transported any wastes themselves based on a review of transportation reports. Sludge from the oil/water separator is accumulated in 55-gallon drums, tested to determine whether it is a hazardous waste and, as appropriate, transported to a TSD facility via Safety Clean, a local contractor.

Used oil from occasional aircraft maintenance is disposed of on site in a used oil burner. An inventory indicated that an average of six gallons of oil was burned per month from January to March 1998. Before a used oil burner was installed at the AAOF, used oil was collected and taken to another tenant at the airport who burned it in their used oil burner.

Universal wastes such as aerosol paint cans and fluorescent light bulbs are disposed of on site using specially designed equipment. Spent NiCad and lithium batteries have always been turned in to the AASF at Bryant Army Guard Heliport in Anchorage for a 1:1 exchange.

## 4.3 PETROLEUM, OIL, AND LUBRICANT STORAGE

#### 4.3.1 Past and Current On Site Aboveground Storage Tanks

There are currently three ASTs on the property: a 3,000 gallon heating fuel tank, and two, 10,000 gallon tanks used for storing aviation fuel. No ASTs have been removed.

## 4.3.1a Heating Fuel AST

The facility's heating fuel is stored in a steel 3,000 gallon double walled AST located off of the northeast corner of the building. Since it was installed in 1993, there have been three spills associated with the AST.

- 1. On October 16, 1993, at approximately 10:50 am, there was a five-gallon spill from the heating oil tank. The suspected cause of the spill is vandalism. A maintenance man at the AAOF stopped the leak and initiated the cleanup. The soil on the east side of the tank was affected. A total volume of 21 gallons of oily soil, pads and booms were placed into plastic bags and then in an overpack drum, which were transported to the DRMO at Fort Richardson for disposal on October 24, 1993 (AK ARNG-101693).
- 2. On November 8, 1993, a one to ten gallon spill from the associated piping was noticed. The exact date and time of the spill is unknown. AK ARNG personnel repaired the leak and shoveled the oily soil into two overpack drums for disposal. The overpack drums of soil were then transported to the DRMO at Fort Richardson on November 24, 1993 (AK ARNG-110893).

3. On October 27, 1997 at approximately 4:00 p.m., there was a 90-gallon release. Hoffman's Fuel, the contractor used to fill the tank, mistakenly filled the secondary containment port. The fuel in the secondary containment then discharged due to a faulty expansion plug. The Hoffman's Fuel employee failed to notify AK ARNG personnel, but left the sight in order to get a vacuum truck. Activity in the vicinity of the tank alerted AK ARNG personnel to the spill. The Installation Spill Contingency Plan was then implemented. The vacuum truck recovered approximately 63 gallons of product. Contaminated pads and booms were reportedly burned in the facilities smart-ash burner. Residual contamination is yet to be excavated and remediated. ADEC issued Hoffman's Fuel a notice of violation for this spill (ADEC Spill #97279929401). A copy of the notice of violation is included in Appendix E.

A site investigation conducted in July 1996 included collecting two surface soil samples in the vicinity of the heating oil AST for analytical testing. One sample, located immediately beneath the AST, contained 2,600 mg/Kg DRO. A second sample, located next to the southeast end of the AST, contained 40 mg/Kg DRO. In both samples, only minor or non-detectable concentrations of GRO and BETX compounds were detected. The site investigation included an ADEC Matrix Scoresheet indicating that Method One, Category C cleanup levels apply. The Category C cleanup level for DRO is 1,000 mg/Kg.

#### 4.3.1b Av Gas ASTs

Two 10,000 gallon steel tanks, currently located on the south side of the AAOF hangar, are used to store aviation gas for onsite refueling activities. Both are equipped with secondary containment. The tanks were installed in 1997 as replacements for the previously closed UST. Site personnel indicate that the tanks are currently refilled using a 2 ½ ton tanker servicing fuel truck operated by AK ARNG personnel. There is no history of spills or leaks from these tanks.

## 4.3.2 Past and Current On Site Underground Storage Tanks

As many as two USTs and one buried heating oil tank may have been on the property serving the building, vehicles or aircraft. One 12,000-gallon UST was installed in the early to mid 1970's and removed from the ground in 1994. A 2,000-gallon gasoline (av gas) UST was included on

the original AAOF building plans, but may or may not have actually been installed. A 1,000-gallon buried heating oil tank provided heating fuel to the facility before the current heating oil AST was installed in 1993.

## 4.3.2a 12,000-gallon UST

A 12,000-gallon steel single-walled UST, used to store Jet A fuel, was located in the northern corner of the property. A 2-inch diameter copper pipe, buried 9 to 12 inches below the concrete pad, runs from the location of the former UST to the location of a former dispenser near the south wall (southwest corner) of the hangar.

The 12,000-gallon UST was not equipped with a leak detection system and was thus put out of service in December 1992 in order to comply with regulatory upgrade requirements. The UST was removed from the ground on May 26, 1994. Shannon & Wilson, Inc. conducted a site assessment during the UST removal. At that time, leakage from the UST was discovered. Analytical results from the soil samples collected in the vicinity of the UST are presented below in Table 4-1.

Table 4-1
Analytical Soil Sample Results

Sample Number	Sample Location	Sample Depth (ft bgs)	GRO (mg/kg)	DRO (mg/kg)	Total BETX (mg/kg)
004	below piping run	1.5	2,500	8,200	62
006	below the center of the tank	9.5	1,500	7,900	16
011	south side of excavation	3.0	2,600	11,000	76
012	west side of the stockpiled excavated soil	1.5	120	1,800	1.77
013	north side of the stockpiled excavated soil	1.5	34	700	0.24
016	center of the stockpiled excavated soil	1.5	180	2,100	1.51

Note: Benzene was not detected

Excavated soil was sampled and then replaced in the excavation pit (after a liner was laid down). Additional uncontaminated soil was then used to fill the hole back to original grade. The tank was disposed of locally. Approximately 75 feet of associated product piping was left in place.

### 4.3.2b 2,000-gallon UST

The 1969 building plans for the Bethel AAOF include a 2,000-gallon gasoline UST and adjacent dispensing unit on the northwest side of the hangar. No as-built drawings were found that could indicate if and where this tank may have actually been installed. Two AK ARNG members were interviewed that were stationed in Bethel in the early 1970's, when the AAOF was first occupied. They both stated that aviation fuel was supplied, from the beginning, from a UST at the location of the 12,000-gallon UST. Both stated that there was never a UST located where the original building plans indicate: beneath the concrete immediately northwest of the hangar. One of the former Guard members, Martin Prince, said that the 2,000-gallon UST was indeed installed, removed about 1975, and the new larger UST installed in the same location using the same piping. Mr. Prince said he was involved during the removal of the 2,000-gallon tank.

Figures 4-1 and 4-2 show the 1969 building plan and the 1989 improvement plans respectively. Figure 4-1 is a transparency overlay showing the location of the originally planned 2,000-gallon UST in relation to Figure 4-2, which shows the existing hangar and concrete configuration. If the 2,000-gallon UST was installed in the originally planned location, it would be located approximately 6 feet north of the hangar's northern corner, near the front edge of the concrete hard stand.

#### 4.3.2c 1,000-gallon Buried Heating Oil Tank

A steel 1,000-gallon single-wall buried tank, located on the southeast side of the hangar, was used to store heating oil for the facility. The tank was installed circa 1972 and listed as out of service/closed in 1992. The buried heating oil tank was replaced with an AST in 1993. Since the buried tank was used for consumptive use on site, ADEC regulations do not require that a site assessment be conducted during tank removal. No documentation of the tank's removal was found and none of the AAOF personnel interviewed had knowledge of the tank being removed. The fill pipe location is now covered by the haz mat storage shed. It is possible that this tank is still in place. There is no record of a spill or leak from this tank. However, a surface soil sample collected adjacent to the building, near the estimated location of the heating oil tank, during a 1996 site investigation contained 680 mg/kg DRO (Ogden, January 1998).

## 4.3.3 Other POL Storage

Small quantity containers of other POLs for routine vehicle maintenance are stored on site in a hazardous materials room. Reportedly a problem in the past, excessive quantities of supplies are now turned in to the USPFO for disposal once they are identified. No spills from the POL storage room were identified during the record search.

At the time of the site inspection, drums of hazardous waste were stored only at the accumulation or satellite accumulation areas.

JP-4 fuel was previously stored in 55-gallon drums on the northwest side of the hangar. JP-4 is no longer used at the AAOF. There is no record of any JP-4 fuel spills. Guard personnel interviewed stated there were no spills involving JP-4 fuel.

In April 1989, a sheen was noticed on water draining from the site as the snow cover melted. It is unclear if the source of the sheen was ever determined. The AAOF is at a lower elevation than the adjacent properties and rainwater and snowmelt from surrounding aprons typically flows acrosss the AAOF apron. AK ARNG coordinated shipment of absorbent materials to the site to use for cleanup.

After the 12,000-gallon UST was put out of service in 1992 and before the two 10,000-gallon ASTs were installed in 1997, aviation fuel was supplied by two fuel trucks. The fuel trucks were normally parked where the ASTs are currently located. The fuel trucks contained their own fuel meter and pump reel. On February 19, 1994, a three to five gallon release of Jet A fuel occurred on site while refueling a UH-60 helicopter. The release occurred when the handle that allows fuel to flow was accidentally opened while trying to attach the fuel hose to the UH-60 fueling port. The residual fuel in the hose, estimated to be three to five gallons, spilled onto the ice and concrete. Granular absorbent and absorbent pads were used to clean up the spill. Since the surface beneath the spill was concrete, this area was not sampled during a subsequent 1996 site investigation. The ADEC spill notification report indicated that hazardous substances/waste generated from the spill would be properly disposed of off-site (AKARNG-021994).

#### 4.4 SOLID WASTE

Refuse generated at the AAOF is currently picked up by the city once a week and disposed of in the community landfill. The landfill is owned and operated by the City of Bethel.

#### 4.5 STORM WATER

The airport property to the northwest of the site is at a higher elevation than the AAOF. The possibility of off-site contamination flowing onto the property exists. A review of site topography indicates that storm water runoff from the Bethel Airport flows toward the AAOF and subsequently off the flightline onto the adjacent dirt and grass areas.

The Bethel Airport does not have a Storm Water Pollution Prevention Plan or a Storm Water Discharge Permit.

#### 4.6 WASTEWATER

Wastewater from the site currently drains to a septic holding tank, located in the front of the property. There are two sources of wastewater on site: a bathroom and the floor drain. Wastewater from the bathroom flows directly into the holding tank. Wastewater from the floor drain flows through an oil/water separator. The oil/water separator is cleaned about once a year and the oil and sludge are collected in a 55-gallon drum (see Section 4.2, Hazardous Waste). The water from the oil/water separator flows to the septic holding tank. The Bethel Water and Sewage Department empties the septic holding tank every one to two weeks.

#### 4.7 **AIR EMISSIONS**

The AAOF is located in an attainment area for air quality. Within Bethel, fugitive dust from unsurfaced roads present the most immediate air quality problem. As the majority of the AAOF site is paved, fugitive dust originating from the site is not a problem.

#### 4.8 CERCLA-RELATED CONTAMINATION

There is no record or evidence of CERCLA–related contamination at the AAOF. There have been no reports or indications of releases of reportable quantities of hazardous substances or past disposal practices that would violate CERCLA. The EPA's Envirofact Database indicates that there are no active CERCLIS sites within a five mile radius of the AAOF.

#### 4.9 RCRA CONTAMINATION

There is no record or evidence of RCRA contamination at the AAOF. In addition, EPA's Envirofact Database indicates that there are no RCRA contaminated sites within a five-mile radius of the AAOF.

#### 4.10 OTHER ENVIRONMENTAL CONSIDERATIONS

#### 4.10.1 Asbestos

An asbestos survey was conducted by Ogden in June 1995. During the inspection, 17 samples were collected from six homogeneous areas (HAs) for laboratory analysis. None of the sampled HAs were found to contain asbestos. Table 4-1 summarizes the results of the report.

TABLE 4-1. ASBESTOS INSPECTION SUMMARY

HA Number	Description of Material	Quantity	Location	Asbestos Containing Material
1	Gypsum Board	14,230 sf	Throughout building	No
2	12" x 12" beige Floor Tile	7,620 sf	Restrooms, locker room, break room, and VIP room	No
3	2' x 4' fissured Ceiling Tile	3,150 sf	Maintenance and Supply rooms, locker room, entrance hall, and 2 <sup>nd</sup> floor	No
4	Ceiling/Wall Texture	40 sf	Entrance hall	No
5	Plaster Thermal System Insulation	2 ea	Boiler room	No
6	12" x 12" tan splotchy Floor Tile	1,880 sf	2 <sup>nd</sup> Floor	No

During the site visit for this RI, several suspected fire doors, which are generally assumed to contain asbestos, were identified. Labels that would identify the materials used in the doors have been painted over and are no longer legible. The doors are in good condition and can be managed in place as assumed asbestos-containing material. There is no other evidence indicating that further asbestos inspection is necessary.

#### 4.10.2 Lead

Lead does not appear to be a concern at the AAOF. A limited lead-based paint survey was conducted in June 1997; however, site personnel indicate that the results were negative and that no lead was found. No record or documentation was found to suggest that used battery acid, another possible source of lead contamination, was stored on site.

#### 4.10.3 Medical Waste

There is no record or evidence of medical waste generated by AK ARNG activities. Public Health Services (PHS) has reportedly used the AAOF as a staging point for community health care drives. However, medical waste generated in conjunction with these drives has been the responsibility of PHS. PHS personnel reportedly containerized and removed the waste from the site.

#### 4.10.4 Noise

The airport, including the AAOF site, is zoned for industrial use only. No community noise complaints are on file with ADEC; however, AK ARNG personnel indicate that they have received noise complaints from the community about late night, off-site activities, such as medivac flights.

#### 4.10.5 PCBs

There is no evidence or documentation to suggest that PCBs are currently located on site. All fluorescent light ballasts have been changed in recent years and properly disposed of through the USPFO. Personnel interviews indicated that there are no AK ARNG-owned transformers, nor has there been a hydraulic lift located on site.

#### 4.10.6 Radioactive Waste

No history or documentation of radioactive waste at the site was found.

#### 4.10.7 Radon

The AK ARNG performed a radon survey at select facilities in 1985; however, no history or documentation of elevated radon levels at the site was found.

## 4.10.8 Urea Formaldehyde Foam Insulation (UFFI)

No history or documentation of the use of urea formaldehyde foam insulation at the site was found.

## 4.10.9 Unexploded Ordinance

No history or documentation of unexploded ordinance at the site was found.

#### 4.11 SPECIAL RESOURCES

#### 4.11.1 Threatened and Endangered Species

The USFWS reports that the spectacled eider and the steller's eider are threatened species that are known to occur in Western Alaska. No other known threatened or endangered species are located in the vicinity of the site.

## 4.11.2 Wetland and Floodplain

The Bethel Airport is surrounded by numerous ponds and palustrine emergent wetlands whose main function is floodwater retention. According to the Bethel Coastal Management Plan, except for two small drainages located on the east side of the main runway, no significant wetlands are located on airport property. The wetlands in the immediate area of the airport facilities were disturbed prior to the AK ARNG occupation of the site and are now considered to have a low wildlife habitat functional value.

The airport is located between approximately 65 feet and 140 feet above mean sea level. The 100-year floodplain of the Kuskokwim River is at 17.8 feet above mean sea level. Therefore, the airport is not considered to be within the floodplain.

#### 4.11.3 Conservation Areas

The Yukon Delta National Wildlife Refuge surrounds the city of Bethel. The Refuge was created in 1980 by the Alaska National Interest Lands Conservation Act in order to conserve fish and wildlife diversity, preserve habitat and water resources.

## 4.11.4 Scientific Significance

No history or documentation of scientific significance at the site was found.

#### 4.11.5 Historic/Archeological Significance

No history or documentation of archeological significance at the site was found. The Kuskokwim Delta as a whole is an archeologically unknown area. Changing river courses, the meandering of smaller streams and erosion reportedly make finding archeological sites and artifacts difficult. Historic structures built by early explorers and missionaries no longer exist (CCMD, 1985).

#### 4.11.6 National Landmarks

No national landmarks are known to exist in the vicinity of the Property.

## 4.11.7 Sole Source Aquifer

No sole source aquifers are known to exist in the vicinity of the Property.

#### 4.11.8 Recreational Area

No recreational areas are known to exist in the vicinity of the Property.

## 4.11.9 Coastal Zone

The Bethel Airport including the AK ARNG AAOF site lies within the Bethel Coastal District. Bethel Airport tenants are not subject to a consistency review under the Bethel Coastal District Plan, due to the fact that they are not located in an area of significant wetlands.

## 4.11.10 Erosion

Erosion hazard is minimal and presents no known problems at the AAOF site.

## 5.0 REGULATORY COMPLIANCE

No environmental notice of violations against the AK ARNG for the AAOF property were found during the record search. An Environmental Compliance Assessment System (ECAS) inspection was performed in 1997 by E2M. ECAS inspections are contracted by NGB and performed per Army and National Guard regulation as a means of identifying potential regulatory compliance issues and correcting them. All of the potential issues identified during the ECAS have been addressed by the AK ARNG.

#### 6.0 ENVIRONMENTAL CONCERNS/SUMMARY OF FINDINGS

## 6.1 FORMER 12,000-GALLON UST LOCATION

The location of the former 12,000-gallon UST near the northern corner of the property presents an environmental concern. Contaminated soil was left in place beneath and around the UST at the time the UST was removed from the ground. DRO levels up to 11,000 mg/kg were measured in soil samples collected during UST removal. The ADEC Matrix Score Sheet for this site, as prepared by Shannon and Wilson, Inc. during the UST removal assessment in 1994, indicates that Category A cleanup levels apply. The Category A cleanup level for DRO in soil is 100 mg/kg. ADEC UST regulations (18 AAC 78) promulgated January 22, 1999 allow for determination of more site-specific cleanup levels. Current ADEC Method 2, Under 40" Precipitation Zone cleanup levels require, in the most stringent case of protecting migration to ground water, the following:

- $C_{10} C_{25}$  DRO method AK 102 = 250 mg/kg
- $C_{10} C_{25}$  DRO aromatics = 100 mg/kg
- $C_{10} C_{25}$  DRO aliphatics = 7,200 mg/kg

ADEC UST regulation 18 AAC 78.235 requires that a release investigation be conducted that adequately characterizes the horizontal and vertical distribution of the release in the soil and identifies soil properties that are likely to influence the type and rate of migration of the released petroleum. ADEC regulations also require that a preliminary risk evaluation be conducted to measure the potential risk to human health and safety and the environment.

#### 6.2 Present Heating Oil AST

The site of the present heating oil AST also presents an environmental concern. Over the years, at least three spills have occurred in the area. A preliminary assessment/site investigation conducted by Ogden in July 1996 confirmed soil contamination beneath the AST. A DRO level of 2,600 mg/kg was measured immediately below the AST. Surface soil samples collected and tested from around the AST showed only minor petroleum contamination, below ADEC levels of

concern. The contaminated soil beneath the AST needs to be characterized and/or remediated as per 18 AAC 75 regulations.

#### 6.3 BURIED HEATING OIL TANK

A 1,000-gallon buried tank was used to store heating oil for the AAOF from initial occupation of the building until 1993. No records or personnel interviews indicate that this tank was ever removed from the ground. The location of the fill pipe is beneath the haz mat storage shed southeast of the hangar and therefore could not be inspected during the site walkover. One surface soil sample collected adjacent to the building, near the estimated location of the heating oil tank, during the 1996 site investigation contained 680 mg/kg DRO (Ogden, January 1998).

Buried tanks storing heating oil for consumptive use on-site are not regulated as USTs. As such, no site assessment is required by ADEC if the tank is removed. The AAOF's buried heating oil tank may or may not still be in the ground.

#### 6.4 Possible 2,000-Gallon UST

A 2,000-gallon gasoline (av gas) UST was included in the original building plans at the location shown in Figure 4-1. The originally planned location is about 6 feet north of the north corner of the existing hangar, near the edge of the concrete hard stand. However, this UST may or may not have actually been installed. One former Guard member that was interviewed remembered that a small av gas UST was installed at the time of original building construction and was replaced, in the same location, with the documented 12,000-gallon UST. No Guard personnel interviewed remember a UST beneath the concrete hard stand. There was no piping or concrete patching noticed during the site inspection that would be indicative of a current or former UST.

#### 6.5 GENERAL

There is scrap metal and miscellaneous wood debris scattered along the northwest side of the property, as shown in the site photographs, Appendix A, page A-3. Otherwise, the AAOF exhibits general good housekeeping practices.

Several suspected fire doors were noted which are generally assumed to contain asbestos. Labels that would identify the materials used in the doors have been painted over and are no longer legible. The doors are in good condition and can be managed in place as assumed asbestoscontaining material.

## 7.0 CONCLUSIONS AND RECOMMENDATIONS

## 7.1 CONCLUSIONS

During the June 24, 1998 and August 27, 1998 site visit, the Property was noted to be in good general condition. There are currently several suspect areas that need to be addressed. These areas are outlined below.

#### 7.2 **RECOMMENDATIONS**

It is recommended that the following Phase II work be performed in preparation of the property disposal:

- Remediate the soil/contamination from the former UST leak to applicable ADEC clean-up levels.
- Determine if the buried heating oil tank is still in place and if so, remove it from the ground and collect confirmation soil samples.
- Investigate the extent, and if necessary, remediate the contaminated soil around the existing 3,000-gallon heating oil AST.
- Determine whether a UST is in place near the edge of the hard stand, north of the hangar, and if so, remove it from the ground.

In addition, the solid waste and debris along the eastern edge of the property should be removed and properly disposed of.

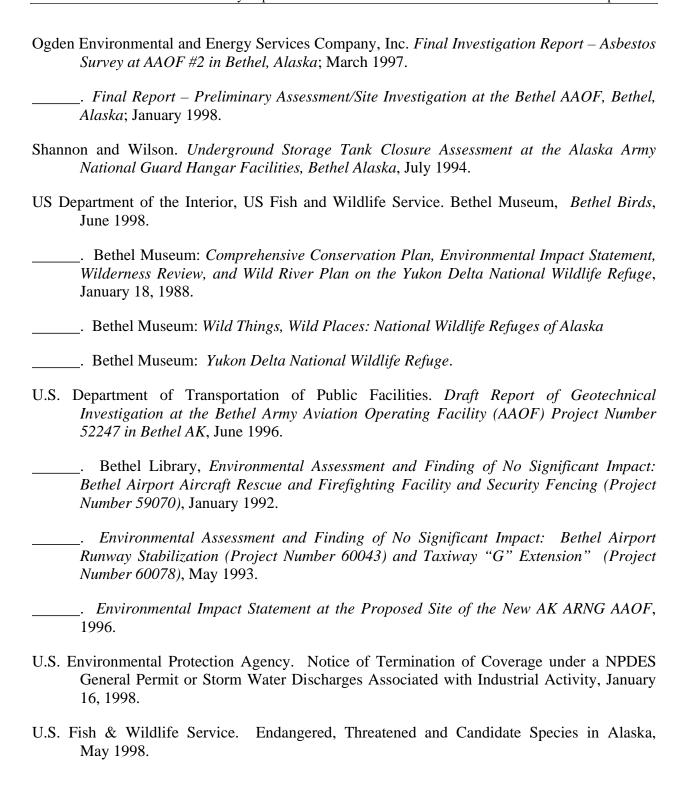
## 8.0 REFERENCES

## 8.1 REFERENCES

Alaska Department of Environmental Conservation. Leaking Underground Storage Tank Database; March 24, 1998.

AK ARNG- Environmental Baseline Study (EBS) Standard Operating <a href="http://www.apg.army.mil/ngbirp/EBSOP.HTM">http://www.apg.army.mil/ngbirp/EBSOP.HTM</a> , February 24, 1999.	Procedures (SOP),
Environmental Office Files. Fax from Norm Straub, Environmental ARNG to Steven Daugherty, Assistant Attorney General at De September 23, 1997.	*
FY 95 Guard and Reserve Military Construction Form; January 10,	1995.
Letter from ADEC's Ray Dronenburg to Ron Godden concerning Environmental Background Assessment Report and Response Letter;	
Memo by Major Dean Eisberg in Response to AAOF #2, ECAS 1993.	Findings; August 3,
Memo from Martin Strain, Environmental Specialist to Lt. Le Operations Supervisor, April 26, 1989.	wis, Camp Carroll
Notification to ADEC of UST Data, May 17, 1990.	
Notification of Tank Out-of-Use for Alaska Underground Storage 1992.	ge Tanks, May 28,
Spill Notification for Oil and Hazardous Materials, October 21 1997	1.
Spill Notification for Oil and Hazardous Materials, February 19, 199	94.
Spill Notification for Oil and Hazardous Materials, November 8, 19	93.
Spill Notification for Oil and Hazardous Materials, October 16, 199	3.
Alaska Department of Labor-Research and Analysis Section. <i>Alaska Pop</i> 1995 Estimates, Alaska Department of Labor-Research and Analy 1995.	

Gibson, Christopher, Aden Seidlitz, David Evans, and James Boroski. Oil and Gas Assessment of the Yukon Delta and Togiak National Wildlife Refuge; 1988



## 8.2 Sources

TABLE 8-1. SOURCES REVIEWED

Federal Government Sources				
US Army Corps of Engineers:	November 1998			
<ul><li>US Department of the Interior, Fish and Wildlife Services:</li><li>Bethel Field Office</li><li>Bethel Museum</li></ul>	April 1998			
US Environmental Protection Agency	April 1998			
US Geological Survey	April 1998			
State Government Sources				
Alaska Army National Guard:	April 1998 November 1998 November 1998			
Alaska Department of Community and Regional Affairs	April 1998			
<ul> <li>Alaska Department of Environmental Conservation:</li> <li>Anchorage Office</li> <li>Bethel Field Office</li> <li>Alaska Department of Transportation and Public Facilities:</li> <li>Bethel Office</li> </ul>	April 1998 August 1998 June 1998 November 1998			
Anchorage Office	November 1998			
Local Government Sources				
Bethel Fire Department	June 1998			
Public Sources				
Alaska Regional Library Information System (ARLIS), Anchorage	July 1998			
Aeromap, Inc.	April 1998			
Kuskokwim Consortium Library, Bethel	April 1998			
Loussac Library, Anchorage	July 1998			

## 8.3 POINTS OF CONTACT

TABLE 8-2. PERSONS INTERVIEWED

Person	Title and Agency	Date
Mr. Charles Hunt	USFW	April 1998
Mr. Bob Carlson	ADEC, Bethel	August 11, 1998
Ms. Agnes	ADEC, Bethel	August 13, 1998
CW2 Paul Gerhartz	Bethel AAOF	August 27, 1998
Major Kenneth O. Snyder	Commander, Bethel AAOF#2	August 27, 1998
Phil Tombler	FMD Maintenance Superintendent, AK ARNG	August 27, 1998
Sgt Mike Coy	Real Estate Specialist, ARNG	November 1998
LTC (Ret.) Margaret Ariolis	Former OSHA Specialist, AK ARNG	December 1998
Ben Herning	Maintenance Officer, Bethel AAOF	March 8, 1999
Dan Breden	Safety & Haz Mat Officer, ADOT&PF	March 12, 1999
MAJ Larry Beck	Army National Guard, Environmental Office	March 15, 1999
Gary Pederson	Former Bethel Battalion Commander	March 22, 1999
Fred Chaney	Formerly stationed in Bethel, AK ARNG	March 22, 1999
LtC Dennis Klein	Formerly stationed in Bethel, AK ARNG	March 23, 1999
Martin Prince	Formerly with AK ARNG in Bethel	March 31, 1999
John Malone	Bethel Coastal District	March 31, 1999

#### 9.0 LIMITATIONS

This EBS report, which includes all of the supporting information gathered for the purposes of the EBS, was prepared for the benefit of the AK ARNG. AK ARNG may also distribute the EBS report to third parties, who may then use it at their discretion. However, any reliance upon the EBS report by a party other than AK ARNG shall be solely at the risk of the third party and without legal recourse against Ogden. The Report shall not be used by any third party that does not agree to the conditions in this paragraph.

Current conditions and information observed by Ogden during these activities are subject to change. In a similar manner, records or other information sources that Ogden did not review, because the research effort commonly associated with an EBS did not indicate their existence, may contain important information that could not have been considered in the formulation of Ogden's conclusions. Information and representations obtained from individuals interviewed for this report were relied on unless incidents of conflicting data were noted. Ogden accepts no responsibility for inaccuracies or deficiencies in this report resulting from omissions or misrepresentation by the persons interviewed.

# APPENDIX A

Photographs

## **Bethel AAOF**



Photo No. 1: The western corner of the Bethel AAOF (facing east).



Photo No. 2: The southern corner of the Bethel AAOF (facing north).

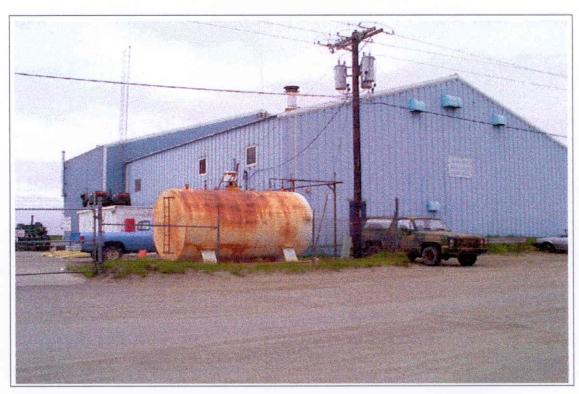


Photo No. 3: The eastern corner of the Bethel AAOF (facing west).



Photo No. 4: The northern corner of the Bethel AAOF (facing south).



Photo No. 5: Scrap metal on the northwest side of the AAOF (facing west).



Photo No. 6: Scrap metal on the northwest side of the AAOF (facing northwest).



Photo No. 7: Fuel pod and oxygen canisters in trailer (facing northwest).



Photo No. 8: Scrap metal, sandbags, and the fenceline on the northwest side of the AAOF (facing northwest).

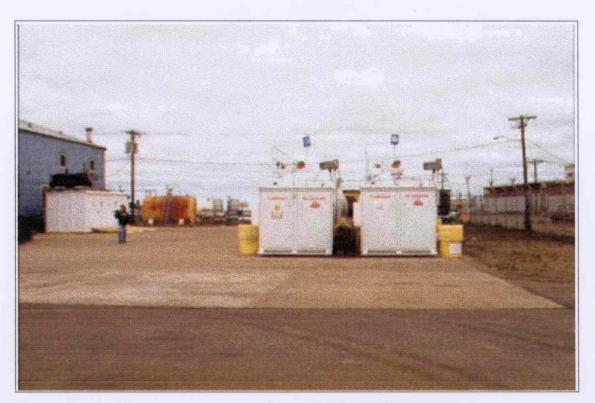


Photo No. 9: The southeast side of the AAOF (facing northeast).



Photo No. 10: Two 10,000-gallon ASTs of fuel located on the southeast side of the AAOF (facing north).



Photo No. 11: Tanker truck parked next to the 10,000 gallon ASTs on the southeast side of the AAOF (facing south).

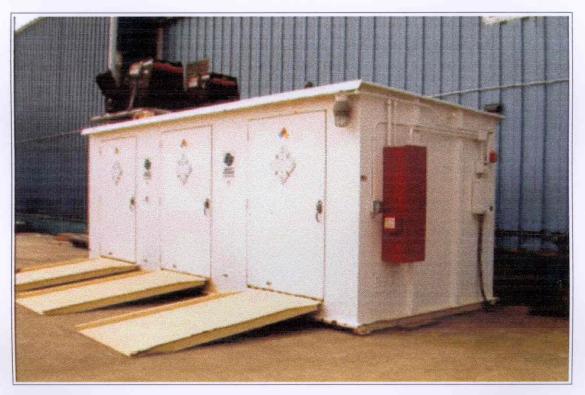


Photo No. 12: Hazardous Materials/Hazardous Waste Building on the southeast side of the AAOF (facing northwest).

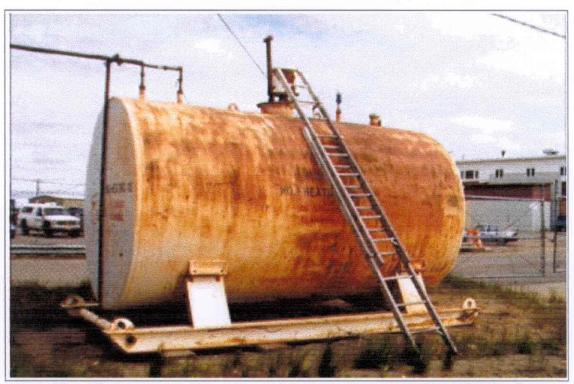


Photo No. 13: Rusted 1,500-gallon AST of no. 1 heating oil located by the fence line of the northeast side of the AAOF (facing northeast).

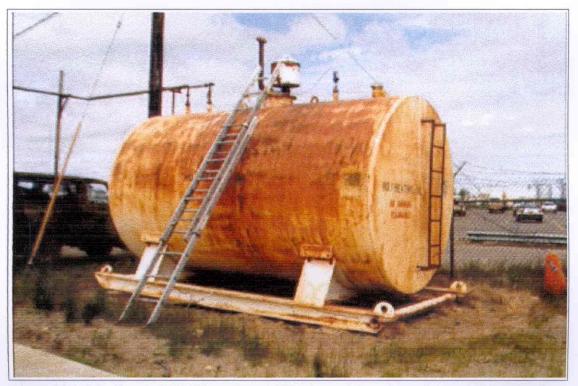


Photo No. 14: Rusted 1,500-gallon AST of no. 1 heating oil located by the fence line of the northeast side of the AAOF (facing north).

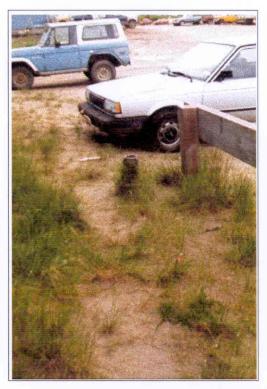


Photo No. 15: The yard in front of the AAOF (facing northwest).

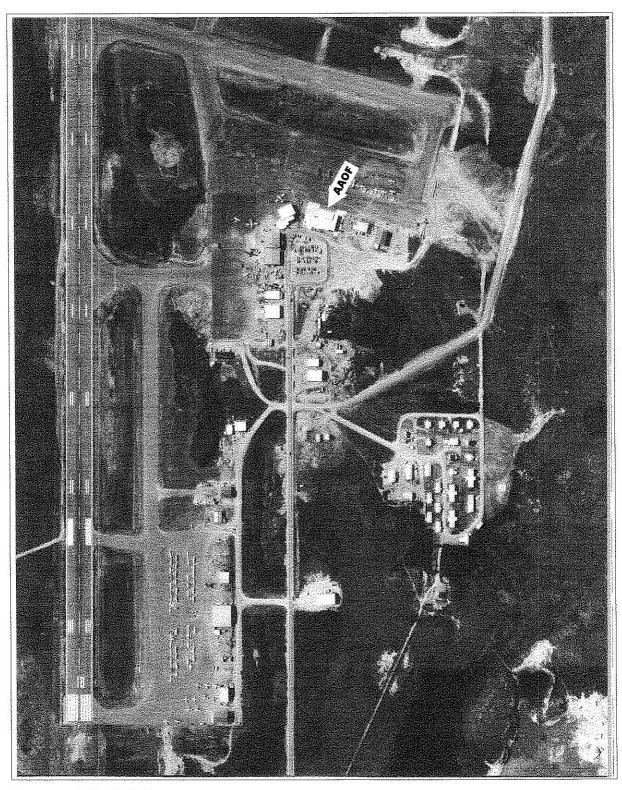


Photo No. 16: Septic tank pipe on the northeast side of the AAOF (facing southeast).



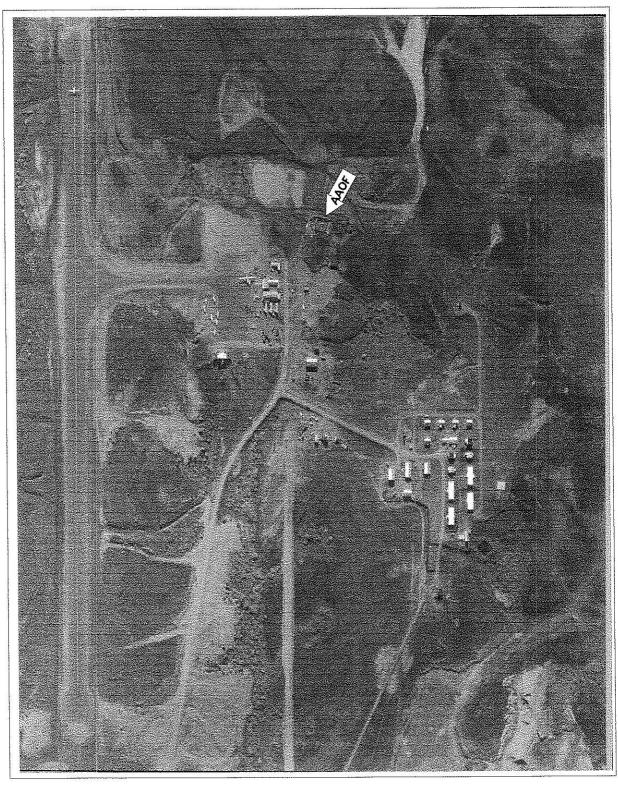
Source: AEROMAP Date: 10/1/97

Approximate Scale: 1 inch = 400 feet Roll No.: 97-45c, Exposure No.: 1-5



Source: AEROMAP Date: 7/30/83

Approximate Scale: 1 inch = 400 feet Roll No.: 83-17np, Exposure No.: 1-7



Source: AEROMAP Date: 9/18/69

Approximate Scale: 1 inch = 400 feet Roll No.: 69-4, Exposure No.: 1-4

# APPENDIX B

Records of Conversation

# Site Visit at the Bethel AAOF

June 24, 1998

#### Suzanne Cimino and Jennifer Rundio

We arrived on site around 11:00 am on June 24, 1998. Captain Paul Gerharz told us that the Commander (Major Snyder) was in Anchorage until Monday, but that we were welcomed to look around the facility.

We walked the site and paced out the building and rooms. Fire extinguishers, spill response equipment, floor plan, ballast/bulbs, and, firedoors were all noted. The MSDSs indicate that the AAOF has dry cleaning solvent on site. We found ten 5-gallon containers in the hazardous material room (NSN 6850-00-274-5421 dated 2/97). There was a flammable storage cabinet for petroleum products and lubricants against the wall in the Hangar. There were six 0.5-fluid ounce bottles of CLP (NSN 9150-01-102-1473 dated 11/90). It had started to separate. There was a supply of brushes labeled as acid brushes on a supply shelf. On the same shelf, there are paint cartridges for masks.

The Hazardous Materials Room contained a satellite accumulation point. The drum (inventoried as "pit sludge" was placed on a secondary containment pad. The room had a concrete lip in front of the door to the outside, which served as added secondary containment.

Suspect asbestos containing materials included: PFI (insulation was soft and had give to it), insulation on the hangar door, white acoustical (2 x 4 foot) tiles in the second story ceiling, fire doors throughout the building (see building layout), and several types of 12 x 12 inch floor tile, cove base/mastic, and stair tread/mastic.

There was a waste oil burner in the hangar area. QW-2 Herning was listed as the POC on posted documentation. An inventory indicated that approximately 5 gallons of waste oil were burned in March 1998, 12 gallons in February 1998, and 1.5 gallons in January 1998. Also, there was a sealed "burnable trash" can located in the hangar outside of the office. An aerosol cans disposal unit as well as a lightbulb crusher and a parts cleaner were in the work bay. There were three large drains in the work bay, and one long drain in the hangar. In addition, there were two drains in the men's lavatory/locker room and one in the women's lavatory.

The outside of the building was mostly covered by a concrete pad. Areas of vegetation were generally all stressed.

#### The southwest side of the property

There was a stockpile of scrap metal and extra pallets on the northwest corner of the facility. There was an empty fuel pod (600 gallon capacity) elevated on a wood pallet sitting on the concrete pad. There were eight oxygen canisters in an official transportation wagon which was marked flammable. Scrap metal including the frame of

an old jeep, a basketball goal, another (black) jeep, an airplane wing and floats (one of which was placed on a pallet), three front-end loader shovels (two of which were elevated on pallets) and several miscellaneous support vehicles were located on the grass. Generally the west side of the AAOF had scattered debris—household trash and broken wood pallets/barrels. There was also a pile of sand-filled flood bags on two wood containers elevated on wood pallets sitting on the concrete pad. A rusted green barrel marked "flammable liquid" and a lightly rusted white barrel marked "high-flash anti-ice aviation fuel additive" were elevated on wooden pallets outside, one to the right and one to the left, of the Hazardous Materials Room door, respectively.

#### The southeast side of the property

The concrete pad bordering the southeast side of the building gave way to asphalt, neither of which showed any sign of staining. Two firehouses were present; one on the right and one on the left side of the southeast AAOF wall.

#### The northeast side of the property

A ventilation pipe ran up the east side of the northeast corner of the building. The emergency fuel shut off was located below the ventilation pipe. A green forklift vehicle was parked on the concrete just beside the emergency fuel shut off. A HazMat/HazWaste building was located next to the northeast side of the AAOF building. There were three doors to the HazMat/HazWaste building; each having a ramp to the concrete below. Each door had an unlabelled HazMat placard on it. A small green wagon attachment marked. "this unit unsafe in fuel vapor area" sat on the roof of the HazMat building. A rusted No. 1 heating oil tank labeled "Tulusak" sat on the grass area located just off the northeast side of the building. The tank was elevated. Two camouflaged pickup trucks were parked on the concrete pad opposite the northeast corner of the building. The trucks had what appeared to be camouflaged canvas top covering the truck bed. Just east of the pickups—again, opposite of and perpendicular to the building—was parked a green tanker truck labeled, "jet-fuel." The truck was also labeled with a red DOT flammable label with the numbers, "1863." A fire extinguisher was located below the truck tank. Just east of the tanker truck—again opposite of and perpendicular to the building—was a yellow metal ladder/frame attachment. Just east of the yellow metal ladder—opposite of and parallel to the building—were two white elevated 10,000-gallon cylindrical tanks. one in front of the other. Each tank was labeled with a red flammable DOT placard with the numbers "1863." A fire extinguisher was located on the east side of each tank. Overpack drums of spill response material were located on the front and back of each side of both tanks.

#### The northwest side of the property

Vegetation outside the northwest side of the facility was distressed. A rectangular (2x3)? grated drain is located in the ground just below the stairs leading into the facility. To the right of the stairs a cylindrical pipe was sticking out of the ground about  $2\frac{1}{2}$  or 3 feet.

Date:

April 1998

Ву:

Jennifer Rundio

Contact:

Charles Hunt, US Fish and Wildlife

Didn't have any recollection of any problems at the AAOF in Bethel.

Date:

August 11, 1998

By:

Jennifer Rundio

Contact:

Bob Carlson, Environmental Specialist @ ADEC in Bethel

He has been with ADEC in Bethel for about three years now. When questioned about spills at any of the FSAs or at the AAOF, he recommended I talk with Dan Hartung about a Work Plan/Environmental Assessment from maybe three years ago that outlined the AKARNG's contaminated sites and what they planned on doing wit them. The only spill he remembers was the "Hoffman" spill at the AAOF last October. He has no record of remediation activities. Expressed a desire to hear what is happening with the site. I told him that I would let him know when I find anything out. His secretary, Agnes, will look through ADEC's records for spills, community complaints, water quality reports, etc at the various sites. She will call me once she has the information.

Date:

August 13, 1998

Ву:

Jennifer Rundio

Contact:

Ms. Agnes, ADEC Field Office in Bethel

The ADEC files in Bethel have the records of a couple of AAOF spills, but no noise complaints or other problems.

Date:

August 27, 1998

Ву:

Jennifer Rundio

Contact:

CW2 Paul Gerhartz

Indicated that the AAOF Commander was out of town for the rest of the week, but that Suzie and I could look around as we wished. When asked about the environmental practices at the AAOF, he said that he didn't know anything—that it would perhaps be better if we spoke with Major Snyder later on.

Date: August 27, 1998

By: Jennifer Rundio

Contact: Major K. O. Snyder, AAOF#2 Commander and Phil Tombler,

FMD - AKARNG

Spoke with Major Snyder at the AAOF. About half way through the discussion, he called in Phil Tombler, a visiting maintenance man from FMD in Anchorage. Major Snyder didn't know of any rumors of dumping or buried items on the site (or anywhere by the AKARNG). He suggested contacting Martin Prince who may know more of the history of the site (543-3218). Additionally, Major Snyder and I walked around the site together.

- 1. Solvents used and disposal method? PD680 which is usually incinerated (KS).
- 2. Noise complaints? From off property for example during Medivac activities during the early morning hours (KS).
- 3. Any lead-based paint the you know of? No (KS).
- 4. How is drinking water supplied? A 1,500-gallon (AST) water tank located inside the building. The tank has two sediment filters and an additional charcoal filter for cold water (KS).
- 5. What about Septic system? Current tank was installed approximately three years ago. The tank is emptied by the City of Bethel (KS).
- 6. Ever noticed oily sheen on standing water located on site? No. Standing water will occasionally have blood in it from the guys cleaning and gutting fish, but no oily sheen that he recalls (KS).
- 7. Any waste water collected on site? No sewer drains (KS).
- 8. Do you know what your EPA Generator status is? No (KS).
- 9. Do you have any manifests from hazardous waste shipments at the site? *No.* (KS).
- 10. What happens with spent batteries ie, Nicad? Thinks they are exchanged 1:1 with the AASF @ BAGH (KS).
- 11. When was Haz Mat/Haz Waste building installed? Approximately three years ago (KS).
- 12. When were the large 10,000-gallon ASTs installed? October 1997 (KS).
- 13. Have the light ballasts been changed in recent years? Don't recollect (KS). Within the last ten years (PT).
- 14. Any asbestos located on site? Don't know of any (KS). Thinks maybe some of the pipe joints (PT).
- 15. Is there a copy of the Asbestos Manangement Plan on site? Doesn't know. We looked but could not find it.
- 16. Do you know what will happen to the building after AKARNG moves out? No (KS). Thinks that the building and property will be leased out by DOT after AKARNG leaves. Doesn't know whom to (PT).
- 17. Has there ever been a hydraulic lift on site? No (KS).
- 18. Was there an underground storage tank for heating oil? No that he knew of (KS).
- 19. Had/Have you any environmental concerns about the AAOF? No (KS).
- 20. Has anyone ever voiced any environmental concern to you? No (KS).

Date:

November 1998

By:

Jennifer Rundio

Contact:

Sgt Mike Coy, AKARNG Real Estate Office

Invited me to look through his files for information, but didn't recall any concerns at the AAOF in Bethel.

Date:

December 1998

Ву:

Jennifer Rundio

Contact:

LTC (Ret) Margaret Ariolis, Former Health and Safety

Coordinator for the AKARNG

Margaret handled mostly OSHA related topics. The AAOF did have some previous OSHA concerns, but she didn't recall any environmental concerns.

Date:

March 8, 1999

By:

Janet Bartel

Contact:

Ben Herning, (907) 543-2863

Bethel AAOF Maintenance Officer

Ben Herning has been stationed at the AAOF since 1996.

RE hazardous waste: Pit sludge (from the oil/water separator) is the only hazardous material shipped off-site. The oil/water separator is cleaned about once/year. Approximately 10 gallons of sludge is put into a 55-gallon drum at that time. Someone comes and tests the sludge before taking it. This is coordinated through DRMO. All other hazardous wastes are burned in the smart ash burner.

RE water and wastewater: There is no piped water system; water is delivered to a holding tank every two weeks. Wastewater is also pumped from the septic holding tank in the front of the building every two weeks. Wastewater from the floor drain flows through the oil/water separator; water flows on to the septic holding tank. Brown water (from the one bathroom on site) flows straight to the septic holding tank. There is no other wastewater.

While on the phone, he checked with another Guard member on-site about the installation date of the HazMat locker. The HazMat locker was installed about 1995.

Date:

March 12, 1999

By:

Janet Bartel

Contact:

Dan Breden, (907) 269-0765

ADOT&PF Safety and Haz Mat Officer

I asked Mr. Breden if the Bethel airport has a SWPPP; the answer is no.

EPA sent DOT a request for a Notice of Intent (NOI) 13 months ago. DOT has not designated manpower to respond, yet. Submitting the NOI would hopefully qualify Bush airports (with <50,000 departures/year) to be covered under the SWPPP general permit. Bethel has >50,000 departures/year and would probably need a site specific permit for de-icing (magnesium chloride).

A Sector S permit may be applicable to individual airport tenants. Sector S permits cover shop maintenance and aircraft de-icing (not runway de-icing).

Date:

March 15, 1999

By:

Janet Bartel

Contact:

MAJ Larry Beck, (907) 428-6765

Army National Guard, Environmental Office

As per RCRA regulations, DRMO transport records are kept for 3 years. DRMO would have no record today of shipments made in 1989.

DRMO contracts hazardous waste shipments out of the Bethel AAOF. Safety Clean is the company that they currently use. Safety Clean picks up the AAOF's hazardous waste and transports it to a TSD.

Date:

March 22, 1999

By:

Janet Bartel

Contact:

Gary Pederson, (907) 694-1026

Former Battalion Commander in Bethel

Gary Pederson was stationed in Bethel from January 1982 through 1987 and from 1991 – 1993.

He stated that during the 1980's, av gas at the AAOF was always obtained from the 12,000-gallon UST. There were no signs of any UST in the concrete area northwest of the hangar; no pipe stands nor patches in the concrete.

Heating oil was supplied from an AST near the front, northeast corner of the hangar. He doesn't remember a buried heating oil tank ever being removed.

Regarding the reported leak from a 55-gallon drum in 1989, he was skeptical about the ability to trace a leak during spring break-up to a drum on-site because the AAOF is the lowest point around. Rainwater and snowmelt from all the surrounding aprons always flowed across the AAOF apron. Facing the AAOF hangar from the parking lot, all hangars to the right are at a noticeably higher grade.

Date:

March 22, 1999

By:

Janet Bartel

Contact:

Fred Chaney, (907) 737-7720

Formerly with AK ARNG in Bethel

Mr. Chaney was stationed in Bethel for 27 years; starting before the AAOF facility was constructed at its current site. Before moving to the AAOF #2 site, they received av gas from a commercial supplier. As soon as they moved to the AAOF #2 site, they used their own av gas supply: a UST located on the far side of the concrete. As far as he knows, there was never another av gas UST on site, nor any UST located beneath the concrete immediately northwest of the hangar. He remembers the 12,000-gallon av gas UST being removed from the ground.

AK ARNG operations moved to the new site between 1969 and 1972; he doesn't recall exactly when.

Heating oil was originally supplied from a buried tank northeast of the hangar. He doesn't know if it was removed when the new heating oil AST was installed.

Mr. Chaney was stationed at the Bethel AAOF in 1989, but had never heard of a spill incident involving leakage from a 55-gallon drum. I told him about a memo from Martin Strain, an Environmental Specialist from Camp Carroll, discussing a spill during spring break-up, 1989 and his site visit. Mr. Chaney was unaware of any spill that may have occurred at that time.

Date:

March 23, 1999

Ву:

Janet Bartel

Contact:

LtC Dennis Klein, (907) 428-6530

Formerly Stationed in Bethel

LtC Klein was stationed in Bethel from September 1989 until recently. He was unaware of any spill that occurred at the AAOF in the spring of 1989. Some time around 1990, control of the AAOF was taken over by the State Aviation Office and the Battalion had fewer interactions with the AAOF after that.

Heating oil was supplied from an AST near the front, northeast corner of the building. LtC Klein remembers the large av gas UST being removed, but not the buried heating oil tank.

Date:

March 31, 1999

By:

Janet Bartel

Contact:

Martin Prince, (907) 543-2150

Formerly with AK ARNG in Bethel

Mr. Prince was with the AK ARNG in Bethel from before AAOF #2 was constructed until he retired in 1990.

RE av gas storage: A 2,000-gallon UST was installed for av gas storage at the time the original hangar was built. It was removed in the mid 1970's. He remembers shoveling dirt during the removal. A new 10,000-gallon av gas UST was installed at that time, in the same location. They used the same piping for the new larger av gas tank. The 10,000-gallon UST has since been removed and all av gas on site is now stored in ASTs.

RE heating oil: The State operated the heating oil tank and Mr. Prince is not familiar with the operating practices or if the tank was ever removed.

RE waste oil: Originally, all waste oil was collected and taken to another tenant at the airport who had a waste oil burner. In the about the late 1980's, they started shipping waste oil and pit sludge to Anchorage, due to environmental regulation changes.

RE batteries: Aircraft batteries were Nickel-Cadmium. These were shipped to Anchorage for re-charging or replacement about every 3 months. If there were any vehicle batteries, they would have been taken to the armory site and handled there.

RE spill memo from Martin Strain in spring 1989: Mr. Prince remembers a spill or oil sheen event happening at that time. He thought that the source of the spill was determined to be coming from one of the tenants to the right of the AAOF hangar (as you face the hangar from the parking lot), perhaps Seagull Air.

RE any other hazardous materials, waste or fuel: JP-4 used to be stored in 55-gallon drums on the right (north) side of hangar. There were no spills from those that he is aware of. JP-4 is not used on site any more. Mr. Prince did not know of any other potentially hazardous materials or practices at the AAOF.

Date:

March 31, 1999

By:

Janet Bartel

Contact:

John Malone, (907) 543-5301

**Bethel Coastal District** 

The airport facility (and all of Bethel) is within the local Bethel Coastal District and is not under the jurisdiction of the regional Coastal Zone Management Program (Cenaliulriit). Mr. Malone stated that the Bethel airport tenants are not subject to a consistency review under the Bethel Coastal District Plan, due to the fact that they are not located in an area of significant wetlands.

## APPENDIX C

EBS Questionnaire

### ENVIRONMENTAL BASELINE SURVEY QUESTIONNAIRE

Number	General Liability Concerns	YES	NO	N/A	UKN
A1	Have there been any federal or state enforcement actions against the facility?		X		
A2	Are there any pending enforcement actions against the facility, its owner, or operator?		X		
A3	Has the owner or operator entered into any consent decrees or administrative consent orders?		X		
A4	If so, have these decrees or orders provided a full release from liability?			X	
A5	Has the property or adjoining property been used as a gas station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junk yard or landfill, or a waste treatment storage, disposal, processing, or recycling facility?	X			
A6	Does seller's business involve the use, treatment, storage, or disposal of hazardous substances?	X			
A7	Have there been any citizen suits filed against the facility, owner, or operator?		X		
A8	Have there been any regulator warning letters or administrative orders against the facility, owner, or operator?		X		
A9	Have there been any notices of violation, consent orders, or consent decrees sent to the owner or operator under the citizen suit provisions of any statute?		X		
A10	Do any settlement agreements with the government or private parties leave the owner or operator open to subsequent suits on the same issues?		X		
A11	Can the facility incur future liability through non-compliance with the above such orders or decrees?			X	
A12	Has the owner or operator received any Requests for Information, Notice and Demand letters or administrative inquires from any governmental entity with regard to its environmental practices?		X		
A13	Has an "imminent hazard" ever been alleged to exist at the site?		X		
A14	Has the owner or operator not maintained all records required by each environmental statute?	X			
A15	Is the facility out of compliance with any environmental permits?		X		
A16	Do past practices leave the owner or operator open to citizen suits or government enforcement actions?		X		
A17	Has the facility undergone any environmental audits/inspections?	X			
A18	Have audit/inspection deficiencies gone uncorrected?		X		
A19	Have any claims been made under the companies' insurance policies?		X		
A20	Is the company in violation of laws that require insurance policies to cover environmental contingencies?		X		
A21	Is the property adjacent to or on an abandoned mining site?		X		
A22	Is the property adjacent to railroad tracks or underground pipes?		X		
A23	Is the property part of or adjacent to an oil or gas producing property?		X		
A24	Are there any environmental liens or governmental notification relating to past or recurrent violations of environmental laws?		X		

Number	Clean Air Act	YES	NO	N/A	UKN
B1	Does the facility emit air pollutants into the environment?		X		
	Is the facility a type for which new standards of performance (NSPS) have been promulgated? See 40 CFR Part 60 for a list of new source categories and applicable standards.		X		
В3	Is the facility in violation or has the facility been in violation of the NSPS or the permit?		X		
B4	Is the facility located in a non-attainment area?		X		
B5	Will the facility be subject to maximum attainable control technology (MACT)?		X		

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	Is a capital expenditure required to meet the requirements of emissions reductions in the new Clean Air Act i.e., is the facility required to reduce emissions because it is in a non-attainment area?	X	
B7	Does the facility incinerate any wastes of any kind?	X	

Number	Radon	YES	NO	N/A	UKN
II	Were the results of an EPA short term radon test performed in the basement above 4pCi/l or 0.02 WL?				X
C2	Is there evidence that nearby structures have elevated indoor levels of radon or radon progeny?		X		
C3	Have local water supplies been found to have elevated levels of radon or radium?		X		
C4	Is the property located on or near sites that currently are or formerly were used for uranium, thorium, or radium extraction or for phosphate processing?		X		
C5	Were the structures constructed from salvaged material from oil wells or other structures characteristic of high radon levels?		X		
II .	Note: A property may be acceptable for radon if guidelines in AR 200-1, Chapter 11 are met.			_	

Number	Clean Water Act	YES	NO	N/A	UKN
D1	Does the facility discharge pollutants into the waters of the state or onto land from which pollutants could enter such waters?		X		
D2	Even if the discharge was permitted by the state, is there any basis upon which EPA might challenge the variance or exemption as abdicating the state's responsibility?			X	
D3	Are there or has there been any flooring, drains, or walls that are stained by substances other than water or are emitting foul odors?		X		
D4	Do the discharge monitoring reports (DMRs) indicate violations of the permit/ Have DMRs gone unsubmitted?			X	
D5	Are there any septic tanks, sumps from floor drains, or below-ground oil-water separators?	X			
D6	Have any toxic or hazardous pollutants ever been spilled or otherwise released at the site?	X			
D7	Is there cause to believe that any operation or equipment at the facility might be the cause of a future spill or release of a pollutant?		X		
D8	Has the facility neglected to apply for necessary facility NPDES storm water discharge permits?				
D9	Has there been any road oiling done on the facility?		X		
D10	Are there any equipment cleaning stations?	X			
D11	Are there sinkholes, abandoned manholes, abandoned sewer lines or other aquifer access points?		X		
D12	Are there any oily sheens on the surface water or unusual odors?		X		
D13	Can the facility's Clean Water Act permits be easily transferred?			X	
D14	Are permits required to discharge into the WWTF?		X		
D15	Will a new or modified permit be necessary for an expansion of operations?			X	
D16	Are there any visual evidence of wells?		X		
	Pressure tanks?		X		<u> </u>
	Pipes that extend vertically into the ground?	X			<u> </u>
	Aboveground pump heads?		X		<u> </u>
	Small sheds or shelters (sometimes resembling dog houses)?		X		<u> </u>
	Electrical transformers on poles for no other apparent use (especially in agricultural settings)?		X		
	Concrete pads surrounding a pipe or opening?		X		
	Depressions in the ground?		X		

	Small lined or unlined pits?	X	
	Simple holes in the ground?	X	
D17	Are there any unpermitted storm water discharges?	X	
D18	Does the adjacent property discharge waste water on to evaluated property?	X	
D19	Does the evaluated property discharge waste water on or adjacent to the property?	X	

Number	Comprehensive Environmental Response, Compensation and Liability Act	YES	NO	N/A	UKN
E1	Has the facility ever generated, transported, or disposed of a hazardous substance as defined by Section 9601 (14) of CERCLA?		X		
E2	Are any of the facility wastes disposed of in a manner which would create a release or a threat of release prompting future enforcement or private cost recovery actions?		X		
ЕЗ	Has the operator/owner ever notified the Nation Response Center of a reportable quantity release of a hazardous substance into the environment?		X		
E4	Is the owner/operator currently subject to any administrative orders under section 106 of CERCLA, and has it properly complied with all orders issued in the past?		X		
E5	Has the owner/operator received any section 104(e) letters from EPA requesting information concerning material sent to sites listed on the National Priority List?		X		
E6	Has the company failed to develop a complete history of its past disposal practices, including production of all waste manifests, shipping records, disposal contracts, etc., to determine potential liability under CERCLA?		X		
E7	Has the facility failed to comply with the Emergency Planning and Community Right to Know Act?		X		
E8	Has the company received any notice from adjoining landowners, other potentially responsible parties, or waste disposal facilities that it is responsible under section 107 for cleanup costs or contribution?		X		

Number	Resource Conservation and Recovery Act	YES	NO	N/A	UKN
F1	Does the facility generate treat, store, transport, or dispose of hazardous waste?			X	
F2	Does the facility accumulate hazardous waste for periods in excess of 90 days?			X	
F3	Does the facility hold a RCRA permit or EPA Waste Generator Number?	X			
F4	Is the facility out of compliance with applicable RCRA regulations?				
F5	Has there been any hazardous substances or petroleum products, unidentified waste materials, tires, automotive or industrial batteries or any other waste materials dumped above grade, buried and/or burned on the property?		X		
F6	Has fill material been brought onto the property that originated from a contaminated site?		X		
F7	Have there been any pesticides, paints or other chemicals in individual containers stored on or used at the property or facility?	X			
F8	Has an imminent and substantial endangerment ever been alleged to be present at the site?		X		
F9	Has an audit been conducted at this facility to determine RCRA compliance?	X			
F10	Has an inventory been taken to determine the amount and location of underground storage tanks at the facility?	X			
F11	Are there any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground?		X		
F12	Do existing tanks meet all requirements, i.e., financial assurance, leak detection, spill protection, overflow?	X			
F13	Are there any petroleum storage and/or delivery facilities (including gas stations) or chemical manufacturing plants located on adjacent properties?		X		
F14	Are there any active underground or aboveground tank facilities on-site for such activities as motor fuel, waste oil or fuel oil storage, hazardous waste or chemical storage in any size?		X		
F15	Have any of the tanks that are more than ten years old NOT been successfully tested		X		

	for leaks.			
F16	Are there any deactivated USTs on the property?		X	
F17	Are there any hydraulic lift sumps for equipment?		X	
F18	Are there any lead screening tests that indicate evidence for lead-based paint?	X		
F19	Was the building constructed prior to 1979?	X		
F20	Is the paint peeling or chipping?	X		

Number	Toxic Substances Control Act	YES	NO	N/A	UKN
	Note: Common synonyms/names for PCBs include chlorodiphenyls, Aroclor, Askarel, Pyranol and Inerteen.				
G1	Did the facility manufacture, process or distribute in commerce any chemical substances regulated by TSCA?		X		
G2	Have adverse consequences been alleged to have been caused by exposure to chemical substances produced by the facility?		X		
G3	Does the company have PCBs on site?		X		
G4	Is there a need for a comprehensive PCB survey?		X		
G5	Has the facility failed to comply with all asbestos reporting requirements?		X		
G6	Are there any florescent light ballasts containing PCBs in the building?		X		
G7	Is there any visible or documented evidence of soil or groundwater contamination from PCBs on the property?		X		
G8	Is there evidence of soil discoloration around present or former equipment sites, utility poles, etc.?		X		
G9	Are any of the lights damaged or leaking?		X		
G10	Are any of the capacitors or transformers inside residential buildings?		X		
G11	Are any of the transformers or capacitors not clearly marked, well maintained, or secure?		X		
G12	Have PCB concentrations of 50 ppm or greater been found in contaminated soils or groundwater?		X		
G13	Is there any evidence of hydraulic fluid leaks on lifts installed prior to 1980?		X		
	Note: Additional PCB containing materials: carbonless copy paper, brake linings, printers inks, synthetic rubber, natural gas (as a contaminant), microscopy mounting media, fabric coatings, and cutting oils.				

Number	The Safe Drinking Water Act	YES	NO	N/A	UKN
	Has there been a discharge of any substance or material at the facility which might find its way into a public water system?		X		
	Is the property served by a private/non-public water system that has been found to have contaminants in quantities that exceed drinking water guidelines or has it been designated as contaminated?		X	_	_
Н3	Does the drinking water at the facility contain lead at levels above 10 ppb?		X		

Number	Asbestos Removal and Inspection	YES	NO	N/A	UKN
I1	Was the building constructed prior to 1980?	X			
I2	Has the building been inspected by a certified asbestos removal team since 1980 for the presence of ACM?	X			
I3	Has all friable asbestos been removed or contained so that it does not create the potential for human exposure?				X
I4	Does the site survey reveal any visible evidence of possible ACM (boiler insulation, floor tiles, building siding, shingles; roofing felt, wall and ceiling insulation, acoustical ceiling tiles, window putty, fuse boxes, heat reflectors, air duct lining)?		X		
I5	Is there any documented evidence of asbestos (tests, surveys, management plan, etc.)?		X		

Number	Waste Disposal Facilities	YES	NO	N/A	UKN
J1	Have there been or are there any pits, ponds, or lagoons associated with waste treatment or disposal?		X		
J2	Is there any evidence of acid pits, ponds, or lagoons associated with waste treatment or disposal?		X		
J3	Is it likely the property was used for illegal or uncontrolled dumping?		X		
J4	Are there any obvious high risk neighbors in adjacent properties engaged in producing storing or transporting hazardous wastes, chemicals, or substances?		X		
J5	Was the site ever used for research, industry, or military purposes?	X			
J6	Has any of the site space ever been leased to commercial tenants who are likely to have used, transported, or disposed of toxic chemicals (e.g., dry cleaner, print shop, service stations, etc.)?		X		

Number	Additional Hazards	YES	NO	N/A	UKN
K1	Do the tenant areas contain Urea Formaldehyde Foam Insulation (UFFI) that was installed less than a year ago?			X	
K2	Is there any identifiable UFFI behind exterior-wall switch and outlet cover plates?		X		
K3	Are there any elevated formaldehyde concentrations?		X		
K4	Did interviews indicate the presence of UFFI?		X		
K5	Are there any citizen complaints or local law enforcement responses to unexploded munitions (UXO)?		X		
K6	Has the property ever been suspected to contain or been used for military chemical/biological testing?		X		
K7	Has the Army Technical Escort Unit or Army Corps of Engineers responded to UXO or chemical test kit incidents?		X		
K8	Do any of the building structures have cannec (made from sugar cane waste) building materials?		X		
K9	Is there evidence of any "red dust" (arsenic) from cannec materials?		X		
K10	Is there documented evidence that Electromagnetic Radiation (EMF) is present on the property?		X		

GENERAL ENVIRONMEENTAL SEARCH	YES	NO	N/A	UKN
Do any of the following Federal government record systems list the property or any property within the circumference of the area noted below:				
National Priorities List - within 1.0 miles (1.6 km)?		X		
CERCLIS List - within 0.5 miles (0.8 km)?		X		
RCRA TSD Facilities - within 1.0 miles (1.6 km)?		X		
Do any of the following state record systems list the property or any property within the circumference of the area noted below:		X		
List maintained by state environmental agency of hazardous waste sites identified for investigation or remediation that is the equivalent of NPL - within 0.5 mile (1.6 km)?				
List maintained by state environmental agency of sites identified for investigation or remediation that is the state equivalent of CERCLIS - within 0.5 (0.8 km)?			X	
Leaking Underground Storage Tank (LUST) List within 0.5 miles (0.8 km)?	X			

Solid Waste/Landfill Facilities - within 0.5 miles (0.8 km)?		X	
Based on fire insurance maps or consultation with the local fire department, are there any buildings or other improvements on the property or adjoining property identified as having been used for an industrial use or uses likely to lead to contamination of the property?		X	
The preparer of the transaction screen questionnaire must complete and sign the following statement.			
This questionnaire was completed by:	1		
Name: Jennifer Rundio		Ti Ti	
Title: Environmental Specialist			
Firm: Ogden Environmental and Energy Services, Company, Inc.	i i	i i	
Address: 11901 Business Blvd.			
Suite 202	Ì		
Eagle River, AK 99557			
Phone Number: (907) 694-6337			
Date: September 1998			
If the preparer is different than the user, complete the following:			
Name of User: Army National Guard—Alaska District			
User's Address: Environmental Office	Ì	Ï	
Camp Carroll			
Fort Richardson, Alaska			
User's Phone Number: 428-6766			
Preparer's relationship to site:			
Preparer's relationship to user: Consultant			
Copies of the completed questionnaire have been filed at:			
Copies of the completed questionnaire have been mailed or delivered to:			
		_	lacksquare
Preparer represents that to the best of the preparer's knowledge the above statements and facts are true and correct and to the best of the preparer's actual knowledge no material facts have been suppressed or misstated.			
Signature: Date:			
Signature: Date:			
Signature: Date:			

Last Updated on 3/12/97 By pc

# APPENDIX D

Information Search Checklist

### INFORMATION CHECKLIST

- I. Maps/Atlases/Photographs
  - A. Topographical-USGS
  - B. Wetlands Delineation Maps
  - C. Glacial Deposits
  - D. Bedrock Type and Depth
  - E. Watershed
  - F. Aquifer Classification
  - G. Water Table /Potentiometric
  - H. Mineral Resources
  - I. Oil and Gas Information
  - J. Seismic
  - K. Critical Wildlife Habitat
  - L. Endangered Species
  - M. Aerial Photos (back to 1940 in 15 year intervals)
  - N. Sanborn and City Atlases
  - O. Fire Insurance Plan
  - P. Soil Conservation and Survey Maps

### II. Regulatory

- A. State and Federal Records
  - 1. Federal Records
    - a. CERCLIS
    - b. NPL
    - c. RCRA-TSD
    - d. RCRA Generator List
    - e. ERNS
    - f. SARA Title III Reports
  - 2. State Records
    - a. State CERCLIS
    - b. State NPL (SPL)
    - c. State Solid Waste Disposal Facility List
    - d. LUST List
    - e. UST Permit List
    - f. AST Permit List
- B. State and Federal Databases
  - 1. AIRS
  - 2. DOCKET
  - 3. CMEL
  - 4. RAATS
  - 5. CDS
  - 6. FINDS
  - 7. FTTS
  - 8. NESHAPS
  - 9. PADS
  - 10. PCS
  - 11 RODS
  - 12 SETS

### 13 TRIS 14 TSCA

### III. Environmental Information Firms

### IV. Additional Hazard

- A. Urea Formaldehyde Foam Insulation Survey
- B. Interior Air Tests Results
- C. Lead Paint Survey
- D. Lead in Drinking Water Test Results
- E. Pesticide/Herbicide Management Survey
- F. Facility Spill Reports

### V. Buildings

- A. Improvement Records
- B. Plans and Specifications
- C. Directories for Prior Owner/Tenant
- D. Environmental Site Assessment Reports
- E. Environmental Audit Reports
- F. Community Right-to-Know Plan
- G. Geotechnical Studies
- H. Process Flow Charts
- I. Raw Material Inventory
- J. Safety Plans
- K. Waste Disposal Records/Manifests
- L. Soil and Gas Surveys
- M. Business Directories
- N. Facility Maintenance Records/MSDS Lists
- O. Enforcement Order/Agency Inspection
- P. Insurance and Environmental Documents
- Q. Building Zone Records
- R. Water Supply Data and Water Information
- S. Geophysical Surveys

### VI. Permits

- A. Corps of Engineers (COE) Permits
- B. Standard Industrial Code (SIC)
- C. Storm Water Runoff Permits
- D. RCRA Permits
- E. Clean Air Act (CAA) Permits
- F. National Pollutant Discharge Elimination System (NPDES) Permits

### VII. Facility Operations Records

- A. Spill Prevention Control and Countermeasure (SPCC) Plan
- B. Material Safety Data Sheets
- C. Occupational Safety and Health Administration (OSHA) Right to Know Claims
- D. Security Exchange Commission (SEC) and Environmental Finding
- E. FINDS Index

### VIII. Public Records

- A. Folk Records, County, City, and State Directories
- B. Engineering Plans/Gas/Water/Electric Utility Maps
- C. Gas Utility Plans/Maps
- D. Water Utility Plans/Maps
- E. Electric Utility Plans/Maps

### IX. Surface/Subsurface Data

- A. Soil Borings, Test Pits, or Excavations
- B. Blasting or Borrow Pit Areas
- C. Backfill around Site
- D. Local/County Officials

### X. Phone Surveys/Interviews

- A. Registry of Deeds
- B. Tax Collector/Assessor
- C. Board of Health/Health Investigators
- D. Fire Department
- E. Planning/Zoning Board
- F. Sanitary Districts
- G. Building Inspector
- H. County Commissioner
- I. Engineering Department
- J. Department of Public Works
- K. Water/Sewer Department
- L. Emergency Response Personnel
- M. Zoning and Planned Use Issues

### XI. Agriculture/Livestock History

- A. Fruits and Vegetables
- B. Field Crops
- C. Livestock

### XII. Facility History

### XIII. Radon Asessment

- A. Consultant Radon Survey
- B. Drinking Water Survey
- C. On-site Radon Test Results

### XIV. Asbestos Assessment

- A. Building Construction Rehabilitation Specifications
- B. Engineer's/Consultant's Asbestos Report

### XV. Polychlorinated Biphenyls

- A. Utility Transformer records
- B. Site Survey of Transformers
- C. Site Soil, Groundwater PCB Test Results

### XVI. Underground Storage Tanks (USTs)

- A. Oil, Motor fuel and Waste Oil Systems Reports
- B. Site Soil and Groundwater Tests
- C. Site Tank Survey

### XVII. Real Estate Records (50 years)

- A. Deeds
- B. Leases
- C. Easements
- D. Liens
- E. Property Tax Recores
- F. Real Estate Sales Persons
- G. Trial Court Records for Liens
- H. Zoning/land Use Records
- I. Restrictive Covenants of Record

### XVIII. Miscellaneous Sources

- A. Historical Societies
- B. Libraries
- C. U.S. Coast Guard Spill Records
- D. Environmental Protection Agency (EPA)
- E. United States Geological Survey (USGS)
- F. Defense Technical Information Center (DTIC)
- G. U.S. Army Environmental Center Technical Information Center
- H. Alternative Sources Associated with Installations
- I. Universities
- J. Map Archives
- K. Phone Directories
- L. DoD Nonstockpile Chemical Material Program

### XIX. State Organizations

- A. Waste Management Board
- B. Regional Water Quality Control Board
- C. State Department of Health Services
- D. Air Quality Management District Geology Department
- E. Department of Pollution Control

### XX. Studies/Audits

- A. NEPA (REC/CX, EA, EIS)
- B. Historical/Cultural Resources Plans
- C. ACTS
- D. ECAS
- E. DB1383
- F. Self Audits
- G. FUDS

## APPENDIX E

ADEC Notice of Violation To Hoffman Fuel Service

## STATE UF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION

Central Alaska Response Team Prevention & Emergency Program 555 Cordova, Second Floor Anchorage, AK 99501

October 28, 1997

Hoffman Fuel Service Gregory Hoffman P.O. Box 406 Bethel, Alaska 99559

RE: NOTICE OF VIOLATION; ADEC Spill #97279929401

Dear Mr. Hoffman:

This is to advise you that on October 21, 1997, at approximately 3:00pm, a pollution incident occurred at the Army Aviation Operating Facility (AAOP) #2 in Bethel, Alaska. The discharge was reported to the Alaska Department of Environmental Conservation (ADEC) by the Environmental Office of the Alaska Army National Guard. I must advise you that in this case, Hoffman Fuel should have reported the spill immediately to ADEC. Failure to notify ADEC is a violation of Alaska Statute (hereinafter AS) 46.03.755. Spill notification requirements for a discharge to land (18 AAC 75.300-307) are:

Any Discharge of Hazardous Substances- As soon as the person has knowledge of any discharge.

Any Discharge of Oil in Excess of 55 Gallons- As soon as the person has knowledge of any discharge.

Any Discharge of Oil in Excess of 10 Gallons but 55 Gallons or less- Within 48 hours after the person has knowledge of any discharge.

Any Discharge of Oil from 1 to 10 Gallons- A person in charge of a facility or operation shall maintain, and provide to the department on a monthly basis, a written record of any discharges.

During business hours spills can be reported to the ADEC Bethel Office, (907)543-3215 and after business hours please utilize the spill reporting number 1-800-478-9300. The after hour phone number is coordinated through the Alaska State Trooper Dispatch for the ADEC. If you have any questions regarding the state spill reporting requirements please contact Mr. Robert Carlson at the ADEC Bethel Office or myself at (907)269-7543.

Sincerely.

Leslie Pearson

Environmental Specialist IV

Lesli Penson

cc: Robert Carlson, ADEC Bethel

TONY KNOWLES, GOVERNOR

Telephone: (907) 269-7543 Fax: (907) 269-7648

RECEIVED

NOV - 3 1997

DEPARTMENT OF ENVIRONMENTAL CONSERVATION BETHEL

	For Agency Use
rmit Tracking	H



## No Exposure Certification for Exclusion from APDES Storm Water Permitting

Submission of this No Exposure Certification constitutes notice that the entity identified in Section I does not require permit authorization for its storm water discharges associated with industrial activity in Alaska identified in Section II under ADEC's Storm Water Multi-Sector General Permit (MSGP) due to the existence of a condition of no exposure.

A condition of no exposure exists at an industrial facility when all industrial materials and activities are protected by a storm resistant shelter to prevent exposure to rain, snow, snowmelt, and/or runoff. Industrial materials or activities include, but are not limited to, material handling equipment or activities, industrial machinery, raw materials, intermediate products, by-products, final products, or waste products. Material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, final product, or waste product. A storm resistant shelter is not required for the following industrial materials and activities:

- drums, barrels, tanks, and similar containers that are tightly sealed, provided those containers are not deteriorated and do not leak. "Sealed" means banded or otherwise secured and without operational taps or valves;
- adequately maintained vehicles used in material handling; and
- final products, other than products that would be mobilized in storm water discharges (e.g., rock salt).

A No Exposure Certification must be provided for each facility qualifying for the no exposure exclusion. In addition, the exclusion from APDES permitting is available on a facility-wide basis only, not for individual outfalls. If any industrial activities or materials are or will be exposed to precipitation, the facility is not eligible for the no exposure exclusion.

By signing and submitting this No Exposure Certification form, the entity in Section I is certifying that a condition of no exposure exists at its facility or site, and is obligated to comply with the terms and conditions of 40 CFR 122.26(g), adopted by reference at 18 AAC 83.010(b)(3).

ALL INFORMATION MUST BE PROVIDED ON THIS FORM.

Detailed instructions for completing this form and obtaining the no exposure exclusion are provided on page 3.

Section I. Facilit	y Operator Informat	tion				N.
Name: Alaska	Army National	Guard				
Mailing Address:	Street (PO Box): P.(	D. Box 5-549				
	City: Ft. Richards	on	State: AK		zip: 99505	
	Phone: (907) 42	8-6861	Fax(c	ptional):		
	Email: nathan.w	ebb@alaska.	.gov			
Section II. Facili	ty/Site Location Info	ormation	Tremale at			
Facility Name: Be	ethel AAOF					
Street Address: B	ethel Airport					
City: Bethel			State: Alask	a	zip: 99559	
Borough or simila subdivision:	r government <b>non</b> (	Э				
Is this facility loca	ted on Indian Lands?		Yes 🗸 No			
Is this a Federal fa	acility?		Yes 🗸 No			
Latitude: 60 46	32 Lo	ongitude: 161 50	45			
Determined By:	GPS	USGS topogra	aphic map	Othe	er:	
Was the facility o	r site previously cover	ed under an NPDES	or APDES storr	n water perm	it? 🗸 Yes 🗌 No	
If yes, enter the NP	DES or APDES permit nur	mber or tracking num	ber? NPDES	S Tracking	g Number AKR05CA97	
SIC/Activity Code	s: Primary:	4522	Secondary (if a	pplicable): 45	581	
Total size of site a	ssociated with industr	rial activity (in acres	):5ac			
Have you paved o	r roofed over a formerly	exposed, pervious	area in order to	qualify for the	no exposure exclusion?	
exposure exclusion		ng authority may use	this information	in considering	uestion does not disqualify you for the no whether storm water discharges from your site and permit coverage.	re
Less than	one acre	One to five acres 🗸	]	More than fi	ve acres	

Section III. Exposure Checklist		
Are any of the following materials or activities exposed to precipitation, now or in the foreseeable future? (Please check		
either "Yes" of "No" in the appropriate box.) If you answer "Yes" to any of these questions, (1) through (11), you are not eligible for the no exposure exclusion.	Yes	No
1. Using, storing, or cleaning industrial machinery or equipment, and areas where residuals from using, storing, or cleaning industrial machinery or equipment remain and are exposed to storm water.		<b>V</b>
2. Materials or residuals on the ground or in storm water inlets from spills/leaks.		<b>√</b>
3. Materials or products from past industrial activity.		<b>V</b>
4. Material handling equipment (except adequately maintained vehicles).		<b>✓</b>
5. Materials or products during loading/unloading or transporting activities.		<b>✓</b>
6. Materials or products stored outdoors (except final products intended for outside use [e.g., new cars] where exposure to storm water does not result in the discharge of pollutants).		<b>V</b>
7. Materials contained in open, deteriorated, or leaking storage drums, barrels, tanks, and similar containers.		<b>✓</b>
8. Materials or products handled/stored on roads or railways owned or maintained by the discharger.		<b>✓</b>
9. Waste material (except waste in covered, non-leaking containers [e.g., dumpsters]).		✓
10. Application or disposal of process wastewater (unless otherwise permitted).		$\checkmark$
11. Particulate matter or visible deposits of residuals from roof stacks and/or vents not otherwise regulated (i.e., under an air quality control permit) and evident in the storm water outflow.		$\checkmark$
Section IV. Certification Statement	MI EVE	
I certify under penalty of law that I have read and understand the eligibility requirements for claiming a condition of "no exposure" and obtaining an exposure water permitting under ADEC's Multi-Sector General Permit.  I certify under penalty of law that there are no discharges of storm water contaminated by exposure to industrial activities or materials from the induin this document (except as allowed under 40 CFR 122.26(g)(2)).  I understand that I am obligated to submit a no exposure certification form once every five years to the APDES permitting authority and, if requested, municipal separate storm sewer system (MS4) into which the facility discharges (where applicable). I understand that I must allow the APDES permitt operator where the discharge is into the local MS4, to perform inspections to confirm the condition of no exposure and to make such inspection report request. I understand that I must obtain coverage under an APDES permit prior to any point source discharge of storm water from the facility. Additionally, I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage to persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief true, accurate and conthere are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	strial facility or to the operating authority, orts publicly avoith a system de the system, or	or of the local or MS4 ailable upon esigned to those
Print Name of Authorized Official: Nathan Webb Title: Water Resources F	PM	
Signature: 1/11/10 Email: nathan.webb@	galask	(a.gov

### Instructions for the No Exposure Certification for Exclusion from APDES Storm Water Permitting

#### Who May File a No Exposure Certification

Federal law at 40 CFR Part 122.26, adopted by reference at 18 AAC 83.010(b)(3), prohibits point source discharges of storm water associated with industrial activity to waters of the U.S. without an Alaska Pollutant Discharge Elimination System (APDES) permit. However, APDES permit coverage is not required for discharges of storm water associated with industrial activities identified at 40 CFR 122.26(b)(14)(i)-(ix) and (xi) if the discharger can certify that a condition of "no exposure" exists at the industrial facility or site.

Storm water discharges from construction activities identified in 40 CFR 122.26(b)(14)(x) and (b)(15) are not eligible for the no exposure exclusion.

### Obtaining and Maintaining the No Exposure Exclusion

This form is used to certify that a condition of no exposure exists at the industrial facility or site described herein. This certification is only applicable in jurisdictions where ADEC is the NPDES permitting authority and must be re-submitted at least once every five years.

The industrial facility operator must maintain a condition of no exposure at its facility or site in order for the no exposure exclusion to remain applicable. If conditions change resulting in the exposure of materials and activities to storm water, the facility operator must obtain coverage under an APDES storm water permit immediately.

### Completing the Form

You <u>must</u> type or print in appropriate areas only. One form must be completed for each facility or site for which you are seeking to certify a condition of no exposure. Additional guidance on completing this form can be accessed at ADEC's Storm water Program website:

http://www.dec.state.ak.us/water/wnpspc/stormwater/stormwater.htm

Please make sure you have addressed all applicable questions and have made a photocopy for your records before sending the completed form to the above address

### Section I. Facility Operator Information

- Provide the legal name of the person, firm, public organization, or any other
  entity that operates the facility or site described in this certification. The name of
  the operator may or may not be the same as the name of the facility. The
  operator is the legal entity that controls the facility's operation, rather than the
  plant or site manager.
- · Provide the telephone number of the facility operator.
- · Provide the email address of the facility operator.
- Provide the mailing address of the operator (P.O. Box numbers may be used).
   Include the city, state, and zip code. All correspondence will be sent to this address.

### Section II. Facility/Site Location Information

- · Enter the official or legal name of the facility or site.
- Enter the complete street address (if no street address exists, provide a geographic description [e.g., Intersection of Routes 9 and 55]), city, state, zip code, and borough or similar government subdivision. Do not use a P.O. Box number.
- Indicate whether the facility is located on Indian Lands.
- Indicate whether the industrial facility is operated by a department or agency of the Federal Government (see also Section 313 of the Clean Water Act).
- Enter the latitude and longitude of the approximate center of the facility or site.
   The latitude and longitude of your facility can be determined in several different ways, including through the use of global positioning system (GPS) receivers,
   U.S. Geological Survey (U.S.G.S.) topographic or quadrangle maps, and EPA's web-based siting tools, among others.
- Indicate whether the facility was previously covered under an NPDES or APDES storm water permit. If so, include the permit number or permit tracking number.
- List the four-digit Standard Industrial Classification (SIC) code and/or two character activity code that best describes the primary industrial activities performed by your facility. Your primary industrial activity includes any activities performed on-site which are:
  - identified by the facility's one SIC code for which the facility is primarily engaged; and
  - (2) included in the narrative descriptions of 40 CFR 122.26(b)(14)(i), (iv),
  - (v), or (vii), and (ix). See Appendix D of the MSGP for a complete list of SIC codes and activities codes.
- Enter the total size of the site associated with industrial activity in acres. Acreage may be determined by dividing square footage by 43,560.

 Check "Yes" or "No" as appropriate to indicate whether you have paved or roofed over a formerly exposed, pervious area (e.g., lawn, meadow, dirt or gravel road/parking lot) in order to qualify for no exposure. If yes, also indicate approximately how much area was paved or roofed over and is now impervious area

### Section III. Exposure Checklist

Check "Yes" or "No" as appropriate to describe the exposure condition at your facility. If you answer "Yes" to ANY of the questions, (1) through (11), in this section, a potential for exposure exists at your site and you cannot certify to a condition of no exposure. You must obtain (or already have) coverage under an APDES storm water permit. After obtaining permit coverage, you can institute modifications to eliminate the potential for a discharge of storm water exposed to industrial activity and then certify to a condition of no exposure.

#### Section IV. Certification Information

The Certification of No Exposure, must be signed as follows:

- (1) For a corporation, a responsible corporate officer shall sign the Certification, a responsible corporate officer means:
  - (A) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
  - (B) the manager of one or more manufacturing, production, or operating facilities, if
    - (i) the manager is authorized to make management decisions that govern the
      operation of the regulated facility, including having the explicit or implicit
      duty of making major capital investment recommendations, and initiating and
      directing other comprehensive measures to assure long term environmental
      compliance with environmental statutes and regulations;
    - (ii) the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
    - (iii) authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (2) For a partnership or sole proprietorship, the general partner or the proprietor, respectively; or
- (3) for a municipality, state, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means
  - (A) the chief executive officer of the agency; or
  - (B) a senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Include the name, title, and email address of the person signing the form and the date of signing. An unsigned or undated Certification form will not be considered valid exclusion from permit coverage.

### Where to File Certification form

Please submit the Certification to ADEC as follows:

If you file by mail, please submit the original form with a signature in ink. ADEC will not accept a photocopied signature. Remember to retain a copy for your records.

### Certifications sent by mail:

Alaska Dept. of Environmental Conservation Wastewater Discharge Authorization Program 555 Cordova Street Anchorage, AK 99501 Phone: (907) 269-6285



### Department of Environmental Conservation

DIVISION OF WATER
Wastewater Discharge Authorization Program

555 Cardova Street Anchorage, Alaska 99501-2617 Main: 907.269.6285 Fax: 907.334.2415 www.dec.alaska.gov/water/wwdp

November 4, 2013

Alaska Army National Guard Attn: Jerry Walton PO Box 5800 JBER, AK 99505 Facility: Bethel Army Aviation Operations Facility Bethel Airport Bethel, AK 99559

Thank you for submitting your Notice of Termination (NOT) form, terminating coverage under the ADEC's Multi-Sector General Permit. The coverage for the facility listed above has been terminated effective midnight of **November 1, 2013**. By submission of this NOT form, you are certifying that you have reviewed the terms and conditions of the Multi-Sector General Permit and have determined that the facility no longer requires coverage.

If you have general questions regarding the stormwater program or your responsibilities under the Multi-Sector General Permit, please call William Ashton (907) 269-6283.



### Department of Military and Veterans Affairs

Office of Facilities Management

P.O. Box 5800 JBER, AK 99505-0800 Main: 907.428.6003 Fax: 907.428.6767

September 11, 2013

Alaska Dept. of Environmental Conservation 555 Cordova Street Anchorage, Alaska 99501

### MEMORANDUM FOR RECORD

SUBJECT: Justification for Notice of Termination (NOT) for Multi-Sector General Permit (MSGP) AKR05CA97

- 1. This memorandum serves to document the justification for filing the NOT for Multi-Sector General Permit (MSGP) number AKR05CA97 for the Alaska Army National Guard (AKARNG) Army Aviation Operations Facility (AAOF) in Bethel, Alaska.
- 2. A review of operations at the Bethel AAOF has revealed that there is no point source stormwater discharge to the waters of the United States from the Bethel AAOF footprint. There is no longer a need to maintain a MSGP to discharge stormwater. Additionally;
  - a. In accordance with the Multi-Sector General Permit, section 1.1.1, to be eligible for permitting, you must, "have a stormwater discharge associated with industrial activity from your primary industrial activity..."
    - The AKARNG neither does nor historically has ever discharged stormwater within the leased area of the Bethel AAOF. Examination of the site confirms that there is no discernable discrete outfall or point source discharge at the Bethel AAOF hangar. Stormwater sheet flow from the site does not enter, concentrate, or collect into any other conveyance that discharges into navigable waters of the United States.
  - b. A No Exposure Certification for Exclusion from APEDS Storm Water Permitting was filed for this site on November 1, 2010, by Nathan Webb.
  - c. On June 18, 2012, the Alaska Department of Environmental Conservation conducted an inspection of the Bethel AAOF pertaining to the No Exposure Certification. Subsequently, in a letter dated July 3, 2012, the ADEC stated that, "Based on the observations made during the inspection, ADEC Division of Water, Compliance & Enforcement group does not object to the No Exposure Certification for Exclusion from APDES Storm Water Permitting for your facility.

- d. A Spill Prevention, Control, and Countermeasures (SPCC) and Installation Spill Contingency Plan (ISCP) is in place for the site and was generated to specifically address any leaks or spills that could possibly occur at this location.
- 3. The AKARNG respectfully requests that the enclosed rational be given consideration as justification for the filing of a NOT for the MSGP for the Bethel AAOF under permit number AKR05CA97. If you have any questions, the point of contact is Mr. Donald Flournoy at donald.flournoy@alaska or at (907) 428-6861.

Sincerely,

Jerry Walton

Deputy Director

for rests

DMVA-FMO

	For Agency Use	
Permit Tracking #		



## APDES Program Notice of Termination Of Wastewater Discharge

Submission of this Notice of Termination constitutes notice that the party identified in Section 2 of this form is no longer authorized to discharge under the associated APDES Permit. See page 3 for instruction on filling out this form.

Section 1. Permit Information	+(	The state of the second section of	
Discharge Type: Multi-Sector General Permit			
Permit ID: AKR05CA97		Date Discharge Terminated: Disc	harge never occured
Section 2. Owner Information	Water .	7	
Name: Alaska Army National Guard			
Mailing Address: P.O. Box 5800			
City: JBER	State:	AK	Zip: 99505
Phone: (907)428-6861	Fax:		
Email: donald.flournoy@alaska.gov			
Section 3. Facility Information			
Name: Bethel Army Aviation Operations Facility			
Mailing Address: Bethel Airport			
City: Bethel	State:	AK	Zip: 99559
Phone:	Fax:		
Facility Location (For mobile operations submit the final location at	t which	operations will cease): Bethel AAOF	, Bethel Airport
Latititude: 60 46' 32.73" N Longit	ude: 16	1 50' 45.64" W Determined By	☐ GPS ☐ Map 区 Internet

Se	ection 4. Reaso	n For Termination	
Chec	k the appropriate bo	ox indicating the reason	for terminating coverage.
Γ	Operations have permit.	ceased at the facility an	d there are no longer discharges associated with the conditions of the referenced
Γ			ed to cover this discharge:
$\overline{\times}$	Other (Specify):	This facility's footprint	does not have a point source discharge off site.
	ection 5. Certifi		
subr gath I am	ordance with a systemitted. Based on meering the information	em designed to assure y inquiry of the person on, the information sub- re significant penalties	nt and all attachments were prepared under my direction or supervision in that qualified personnel properly gather and evaluate the information or persons who manage the system, or those persons directly responsible for mitted is, to the best of my knowledge and belief, true, accurate, and complete. for submitting false information, including the possibility of fine and
	ayler pla	115	DMVA-FMO Deputy Director
Sign	ature		Title
Jerr	y Walton		10/2/13

Date

Printed Name

## Notice of Termination of Wasterwater Discharges Form Instructions

This form should be used when discharges are being terminated. If the facility is changing ownership use the "Name Change and/or Permit Transfer" form. A request to terminate an APDES permit must be in writing and must contain facts or reasons for the request in accordance with 18 AAC 83.130 (a). Upon receipt of this form ADEC will determine if the request meets the requirements as described in 18 AAC 83.140. If ADEC approves the termination, the Department will notify the permittee that the permit will be terminated. This termination will be effective 30 days after notice is sent to the permittee in accordance with 18 AAC 83.130(j). Until that time the permittee is obligated to meet all requirements of the permit.

### Section 1. Permit Information

- 1) Identify the type of discharge (e.g. domestic, seafood processing, etc.)
- 2) Fill in the Permit ID associated with the discharge.
- 3) Provide the date that the discharge will cease.

### Section 2. Owner Information

- 1) Fill in the name of the Owner or Responsible Party for the facility.
- 2) Fill in the contact information for the Owner or Responsible Party.

### IMPORTANT NOTE: The Responsible Party must be one of the following:

for a corporation, a president, secretary, treasurer, or vice-president, or a manager whose authority is described in 18AAC 83.385 (APDES) or 18 AAC15.030 (other wastewater discharges);

for a partnership or sole proprietorship, the general partner or proprietor;

for a municipality or other public entity, a principal executive officer or ranking elected official with appropriate authority.

Before submitting this application please review the conditions of your wastewater permit or authorization to ensure compliance with any additional signature requirements.

### Section 3. Facility Information

- 1) Fill in the name of the facility.
- 2) Fill in the contact information for the facility.

### Section 4. Reason For Termination

- 1) Check the box that indicates the reason for termination.
- 2) If discharges are being covered by another permit, provide the Permit ID.
- 3) If "Other" is marked specify the reason for termination.

### Section 5. Certification

Signature and title of Responsible Party or duly authorized representative must be obtained before ADEC will accept this Notice of Termination.

### Submit to:

### Alaska Department of Environmental Conservation

Wastewater Discharge Authorization Program 555 Cordova St Anchorage AK, 99501 For information, call 907-269-6285.

	For Agency Use
Permit #	



## Notice of Termination (NOT) of Coverage for Storm Water Discharges Associated with Industrial Activity Under an APDES General Permit

Submission of this Notice of Termination constitutes notice that the party identified in Section II of this form is no longer authorized to discharge storm water associated with industrial activity under the APDES program for the facility identified in Section III of this form. All necessary information must be included on the form. The NOT must be submitted within 30 days of one of the conditions in Section 1.4 of the MSGP being met. Refer to the instructions at the end of this form for information on submitting a Notice of Termination.

I. Permit Informa	tion				
Permit Tracking N	umber:				
Reason for Termina	tion (Check only one):				
You transf	erred operational control to another operator.				
	ger have storm water discharge associated with industrial activity subject to regulation under the APDES and you have already implemented necessary sediment and erosion controls as required by Part 2.1.2.5.				
You are a	Sector G, H, or J facility and you have met the applicable termination requirements.				
You obtain	ned coverage under an alternative APDES permit.				
II. Operator Info	mation				
Name: Alaska	Army National Guard				
Mailing Address:	Street (PO Box): PO Box 5800				
	City: JBER State: AK Zip: 99505				
	Phone: (907) 428-6861 Fax(optional):				
	Email: donald.flournoy@alaska.gov				
III. Facility Information					
Facility Name: B	ethel Army Aviation Operations Facility				
Location Address	Bethel Airport				
City: Bethel	State: Alaska Zip: 99559				
Borough or simila subdivision:	Bethel Borough				
Mary and the second sec	IV. Certification Information				
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					
Printed Name: Jerry Walton Title: DMVA-FMO Deputy Director					
Signature	Date: 10/23/17 Email: Watterjinen				

## Instructions for Completing a Notice of Termination Form for Storm Water Discharges Associated with INDUSTRIAL ACTIVITY under the Mult-Sector General Permit (MSGP)

### Who May File Notice of Termination (NOT) Form

A permittee currently covered by Alaska's APDES Storm water Multi-Sector General Permit may submit a Notice of Termination (NOT) form. You must submit an NOT within 30 days after one or more of the following conditions have been met:

- a new owner or operator has assumed responsibility for the facility;
- you have ceased operations at the facility and there are nt or no longer will be discharges of storm water associated with industrial activity from the facility, and you have already implemented necessary sediment and erosion controls as required by Part 2.1.2.5;
- you are a Sector G, H, or J facility, and you have met the applicable termination requirements; or
- you have obtained coverage under an individual or alternative general permit for all discharges required to be covered by an APDES permit.

See the MSGP Part 1.4 for more information

### Completing the Form

Type or print, in the appropriate areas only. "NA" can be entered in areas that are not applicable. If you have any questions about how or when to use this form, contact the ADEC Storm Water Program at (907) 269-6285 or online at <a href="http://www.dec.state.ak.us/water/wnpspc/stormwater/stormwater.htm">http://www.dec.state.ak.us/water/wnpspc/stormwater/stormwater.htm</a>.

#### Section I. Permit Information

Enter the existing NPDES or APDES Storm water General Permit Tracking Number assigned to the facility by ADEC's or EPA's Storm water Program. If you do not know the tracking number, you can find the tracking number assigned to your facility on ADEC's Water Permit Search

www.dec.state.ak\_us/water/WaterPermitSearch/Search\_aspx\_or EPA's Notice of Intent (NOI) Search website (www.epa\_gov/npdes/noisearch) if you submitted your NOI on EPA's website.

Indicate your reason for submitting the NOT by checking the appropriate box. (See MSGP Part 1.4 for more information) Check only one box.

### Section II. Operator Information

Provide the legal name of the person, firm, public organization, or any other entity that operates the facility described in this application and is covered by the permit tracking number identified in Section I. The operator is the legal entity that controls the facility's operation, rather than the site manager. Enter the operator's complete mailing address, telephone number, email address, and, the fax number (optional) of the operator.

### Section III. Facility Information

Enter the official or legal name and complete street address, including city, state, zip code, and borough or similar government subdivision of the facility

### Section IV. Certification Information

The NOTs, must be signed as follows

- (1) For a corporation, a responsible corporate officer shall sign the NOT, a responsible corporate officer means:
  - (A) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
  - (B) the manager of one or more manufacturing, production, or operating facilities if
    - (i) the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
    - (ii) the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
    - (iii) authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (2) For a partnership or sole proprietorship, the general partner or the proprietor, respectively; or
- (3) for a municipality, state, or other public agency, either a principal executive officer or ranking elected official shall sign the application, in this subsection, a principal executive officer of an agency means

- (A) the chief executive officer of the agency; or
- (B) a senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Include the name, title, and email address of the person signing the form and the date of signing. An unsigned or undated NOT form will not be considered valid termination of permit coverage.

### Where to File NOT form

ADEC encourages you to complete the NOT form electronically via the Internet. ADEC's Online Application System (OASys) can be found at <a href="https://myalaska.state.ak.us/dec/water/OASys">https://myalaska.state.ak.us/dec/water/OASys</a>. Filing electronically is the fastest way to terminate permit coverage and help ensure that your NOT is complete. If you choose not to file electronically, you must send the NOT to the address listed below.

If you file by mail, please submit the original form with a signature in ink. ADEC will not accept a photocopied signature. Remember to retain a copy for your records.

NOTs sent by mail:

Alaska Dept. of Environmental Conservation Wastewater Discharge Authorization Program 555 Cordova Street Anchorage, AK 99501 Phone: (907) 269-6285

# Bethel AAOF Bethel Hangar Phase II

Bethel, Alaska

Building Automation System

Submittal

## MERIDIAN SYSTEMS, INC.

200 W. 34th Avenue # 969 Anchorage, Alaska 99503- 3969 Phone 907 522 3320 Fax 907 522 2369

As submitted by: Eric Persson

Project No: 52247

Architect: Kumin Associates, Inc.
Engineer: RSA Engineering, Inc.

Consultant: Lee F. Holmes
MSI Job No: 98-AK-015
Date: 5-20-98



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## Bethel AAOF / Bethel Hangar Phase II Bethel, Alaska State of Alaska, Department of Transportation

Ctate of Alaska, Department of Transportation

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SUBMITTAL

05/19/98 JOB NO.: 98-AK-015

NC. CHECK BY: JLF

MERIDIAN SYSTEMS, INC. 200 W 34th Avenue Suite 969 Anchorage, Alaska 99503-3969 Phone: 907 522 3320 Fax: 907 522 2369

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## Symbol Legend DX **Averaging Duct** Temperature Sensor DX Cooling Coil Supply Fan -----**Duct Humidity Sensor** Exhaust Fan Electric Heating Coil Immersion Temperature Sensor with Well GAS 24 VDC Return Fan Gas Heating PS Pressure Sensor Fan with Inlet Vane Control Hot Water Heating Coil Filter CHW Chilled Water Cooling Coil Air Flow Station STM **(T)** Room Temperature Sensor Steam Heating Coil Damper \_\_ 24 VAC (H)Room Humidity Sensor 3-Way Valve \_ 24 VAC Freezestat 2-Way Valve

24 VDC

Flow Sensor

Smoke Detector

**Duct Temperature Sensor** 

### COMMON ABBREVIATIONS:

### **Equipment**

AC = Air Conditioner

ACU = Air Conditioning Unit

AHU = Air Handling Unit

COND = Condenser

CWP = Condenser Water Pump

CHWP = Chilled Water Pump

EF = Exhaust Fan

EVAP = Evaporator

FCU = Fan Coil Unit

HP = Heat Pump

HRU = Heat Recovery Unit

HX = Heat Exchanger

HWP = Hot Water Pump

PIU = Powered Induction Unit

RF = Return Fan

RTU = Roof-top Unit

SF = Supply Fan

VAV = Variable Air Volume

UH = Unit Heater

UV = Unit Ventilator

VVTU = Variable Volume Terminal Unit

WSHP = Water-Source Heat Pump

### Technical

CHW = Chilled Water

CHWR = Chilled Water Return

CHWS = Chilled Water Supply

CW = Condenser Water

CWR = Condenser Water Return

CWS = Condenser Water Supply

DA = Discharge Air

DHW = Domestic Hot Water

DW = Domestic Water

EA = Exhaust Air

F = Fahrenheit HW = Hot Water

HWR = Hot Water Return

HWS = Hot Water Supply

OA = Outdoor Air

RA = Return Air

RH = Relative Humidity

SA = Supply Air

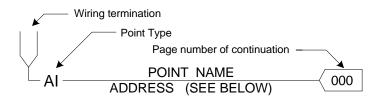
SP = Static Pressure

STPT = Setpoint

TEMP = Temperature

### **General Notes:**

- 1. All control modules are drawn using standard ALC module representations.
- 2. Electrical points are identified by the following tagging method:



### Example Address:

AAA - BB - CC - DD - EE

The first number (AAA) is the line number (optional).

The second number (BB) is the gateway number (optional).

The third number (CC) is the module address.

The fourth number (DD) is the expander number.

The fifth number (EE) is the channel number.

Note: Line and Gateway numbers are not used on systems level drawings to avoid redundancy thus most addresses will only represent Module Address (CC), Expander Number (DD) and Channel Number(EE) on the respective point tag. The first character of the Channel Number indicates the point type: 1 = D O, 2 = D I, 3 = A I, 4 = A O

The second character of the Channel Number is the actual Module terminal designation.

### **Digital Points**

AI = Analog Input

AO = Analog Output

AOP = Analog Output Pneumatic

DI = Digital Input

DO = Digital Output

### **General**

AUTO = Automatic

AUX = Auxiliary

C = Common

HOA = Hand/Off/Auto

MAX = Maximum

MIN = Minimum

MISC = Miscellaneous

NC = Normally Closed

NO = Normally Open

W/ = with

W/O = without

### Bethel AAOF / Bethel Hangar Phase II Bethel, Alaska

State of Alaska, Department of Transportation

Symbol Legend

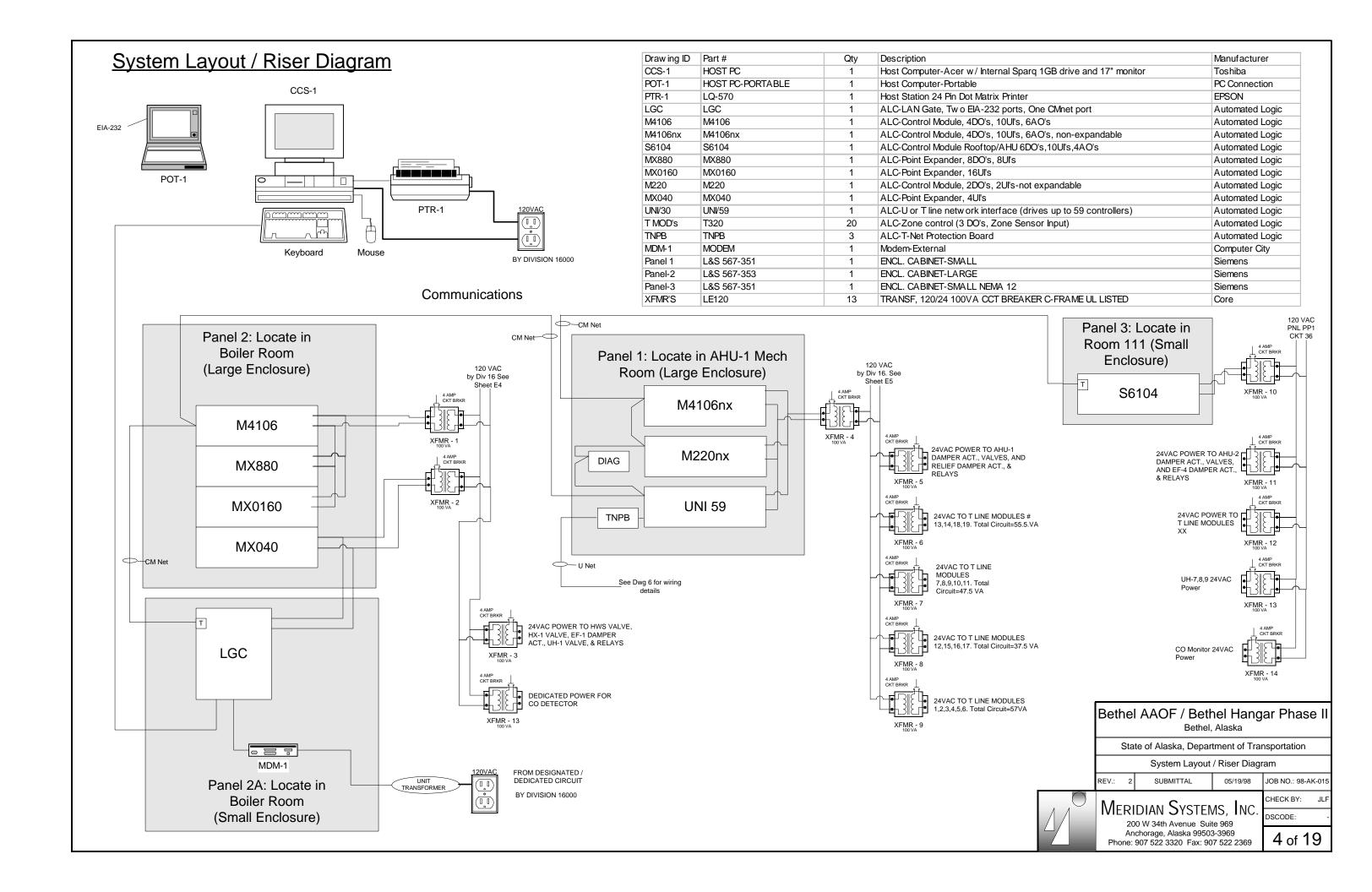
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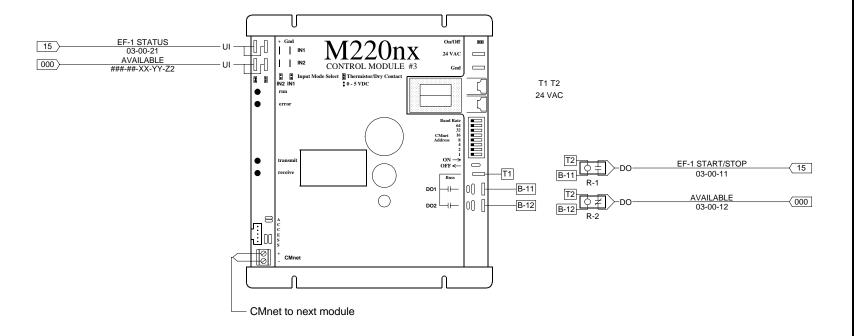
MERIDIAN SYSTEMS, INC 200 W 34th Avenue Suite 969 Anchorage, Alaska 99503-3969

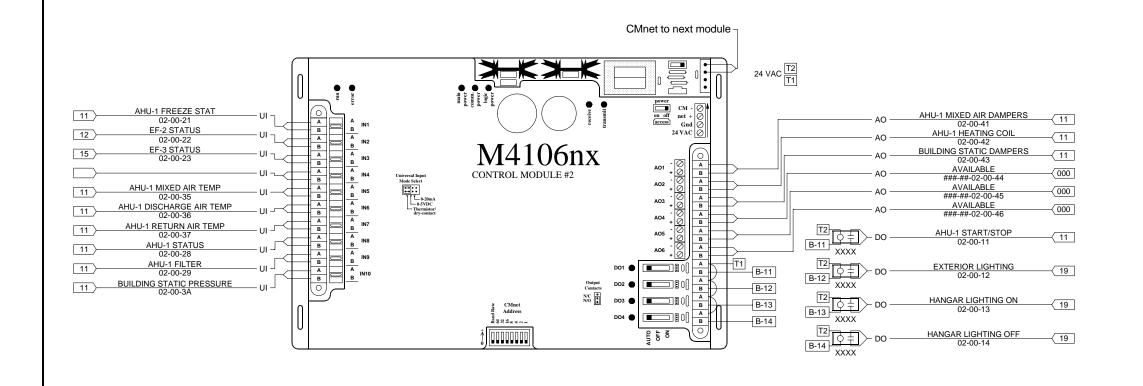
SCODE: Phone: 907 522 3320 Fax: 907 522 2369

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## PNL-1 Partial





# Bethel AAOF / Bethel Hangar Phase II Bethel, Alaska State of Alaska, Department of Transportation PNL-1 Partial REV.: 2 SUBMITTAL 05/19/98 JOB NO.: 98-AK-015



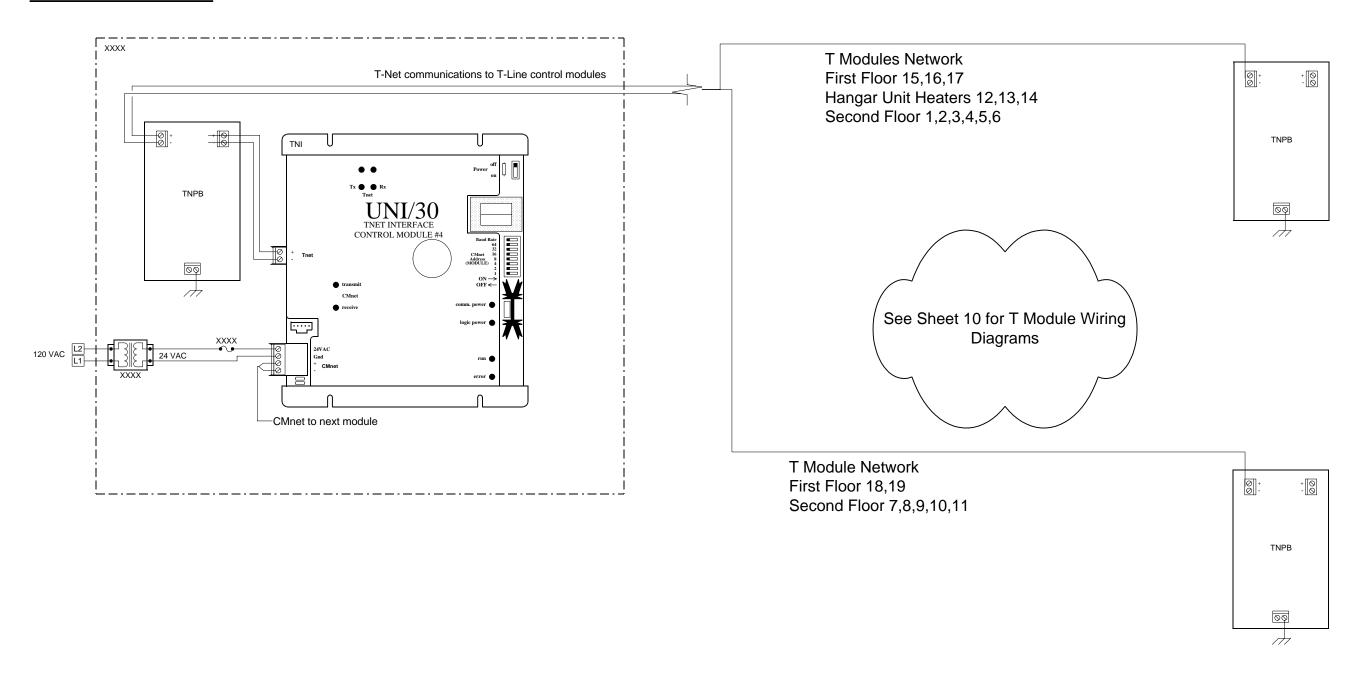
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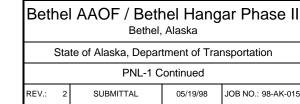
Anchorage, Alaska 99503-3969 Phone: 907 522 3320 Fax: 907 522 2369

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CHECK BY:

## PNL-1 Continued







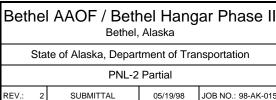
## MERIDIAN SYSTEMS, INC.

Anchorage, Alaska 99503-3969 Phone: 907 522 3320 Fax: 907 522 2369

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CHECK BY:

#### **PNL-2 Partial** TYPICAL CMnet to next module G4106E Function Expansion BOILER 1 FLAME FAILURE 06-01-21 HEAT EXCH #1 VALVE 14 06-01-41 BOILER 3 WAY VALVE BOILER 1 HIGH LIMIT 13 06-01-42 VF-1 MIXED AIR DAMPERS 06-01-43 M4106 **15** BOILER 2 FLAME FAILURE 06-01-24 AVAILABLE 06-01-44 <del>-</del> 13 CONTROL MODULE #6 AVAILABLE 06-01-45 BOILER 2 HIGH LIMIT 06-01-25 <del>-</del> 13 BOILER 2 LOW WATER 06-01-26 AVAILABLE 06-01-46 13 HWR TEMPERATURE 06-01-37 T2 B-11 VYYY VF-1 START/STOP 06-01-11 **15** HWS TEMPERATURE 06-01-38 XXXX B-12 XXXX OSA TEMPERATURE 06-01-39 UH-1 START/STOP 06-01-12 15 HWS SYSTEM PRESSURE 06-01-3A - B-12 B-13 XXXX —B-13 -B-14 AVAILABLE 06-01-14 <del>-</del> 13 24VAC on off CP-1 STATUS 06-01-21 CP-2 STATUS 06-01-22 13 T2 B#-11 <del>-</del> 13 MX880 CP-3 STATUS 06-01-23 XXXX CP-4 STATUS 06-01-24 T2 + T 13 CONTROL PANEL #6 POINT EXPANDER #1 <del>-</del> 14 XXXXCP-6 STATUS 06-01-26 WP-2 ENABLE 06-01-13 <del>-</del> 14 14 WP-1 STATUS 06-01-27 WP-2 STATUS 06-01-28 <del>-</del> 13 14 B#-14 CP-3 START/STOP 06-01-15 13 -B#-16 ■ 00 A B -B#-17 CP-4 START/STOP 06-01-16 13 ■ 00 A XXXXT2 B#-17 XXXX OF F 00000000 CP-5 START/STOP 06-01-17 <del>-</del> 18 CP-6 START/STOP 06-01-18 <del>-</del> 14 XXXX





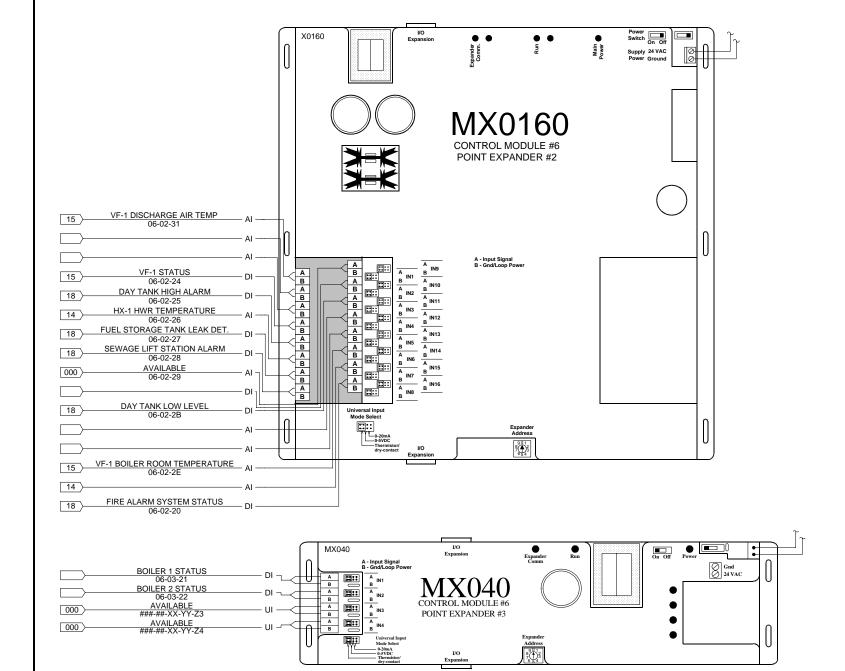
## MERIDIAN SYSTEMS, INC. 200 W 34th Avenue Suite 969

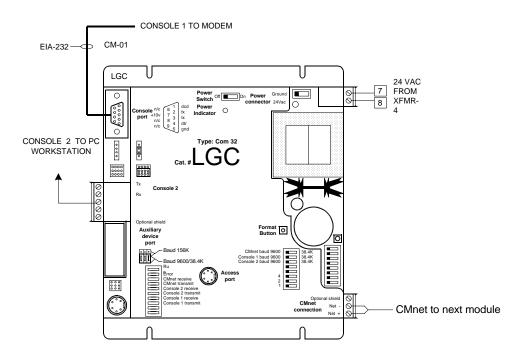
Anchorage, Alaska 99503-3969 Phone: 907 522 3320 Fax: 907 522 2369

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CHECK BY:

## **PNL-2 Continued**







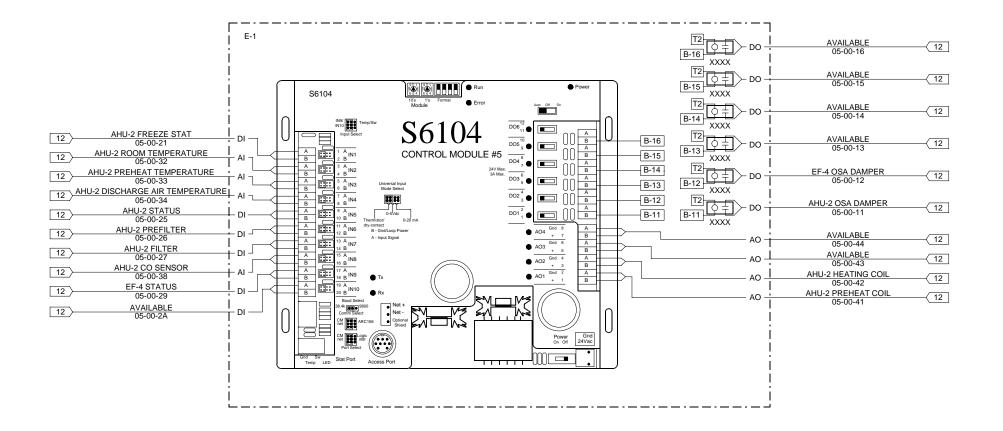


MERIDIAN SYSTEMS, INC.

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## PNL-3



Bethel AAOF / Bethel Hangar Phase II
Bethel, Alaska

State of Alaska, Department of Transportation
PNL-3

REV.: 2 SUBMITTAL 05/19/98 JOB NO.: 98-AK-015



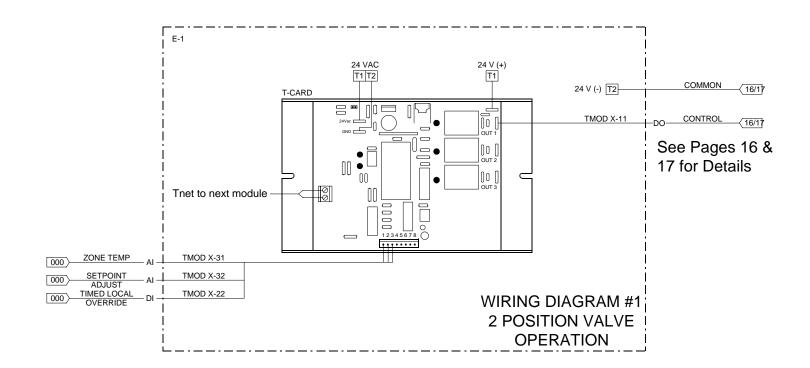
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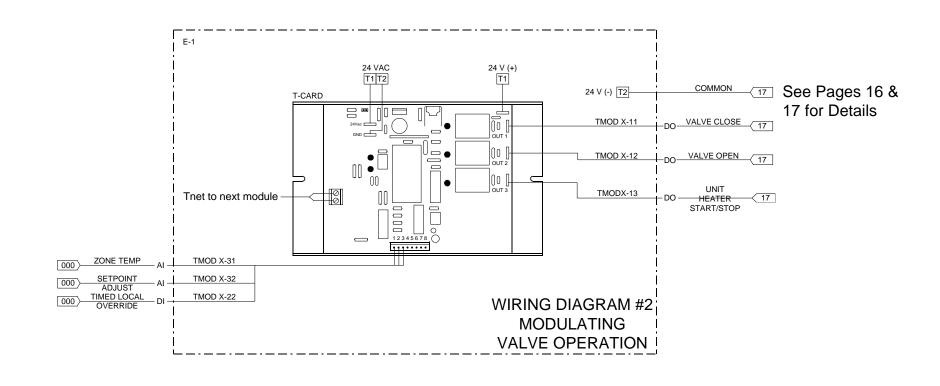
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## T Module Wiring Diagrams



Valve No.	Serves	T-Mod#	Action	Diagram #	FB#/Serial #
V-24	Room 215, 216 & 216, FTs	1	Two-Position	1	4/34392
V-18	Rooms 208, 210 & 211 RP's	2	Two-Position	1	8/34400
V-10	Room 213 Ceiling, UH-5	3	Two-Position	1	5/34401
V-22	Room 212, FT	4	Two-Position	1	9/34414
V-28	Room 212 Ceiling, FT	5	Two-Position	1	10/34415
V-23	Room 213, FT	6	Two-Position	1	6/34399
V-11	Stair # 1 Ceiling, UH-6	7	Two-Position	1	7/34402
V-17	Room 206, RHC-1	8	Two-Position	1	11/34412
V-25	Room 202A & 202B, FT	9	Two-Position	1	12/34413
V-27	Room 204, FT	10	Two-Position	1	13/34405
V-26	Room 203, FT	11	Two-Position	1	14/34404
V-12	Hangar South, UH-7	12	Modulating	2	1/34398
V-13	Hangar North, UH-8	13	Modulating	2	2/34397
V-14	Hangar Center, UH-9	14	Modulating	2	3/34403
V-19	Room 105, FT	15	Two-Position	1	17/34416
V-20	Room 105A, FT	16	Two-Position	1	18/34408
V-21	Room 104, FT	17	Two-Position	1	19/34417
V-9	Room 110, UH-4	18	Two-Position	1	20/34410
V-7	Room 111 South, UH-2	19	Two-Position	1	16/34411
V-8	Room 111 North, UH-3	19	Two-Position	1	16/34411



Bethel AAOF / Bethel Hangar Phase II
Bethel, Alaska
State of Alaska, Department of Transportation
T Module Wiring Diagrams

REV.: 2 SUBMITTAL 05/19/98 JOB NO.: 98-AK-015



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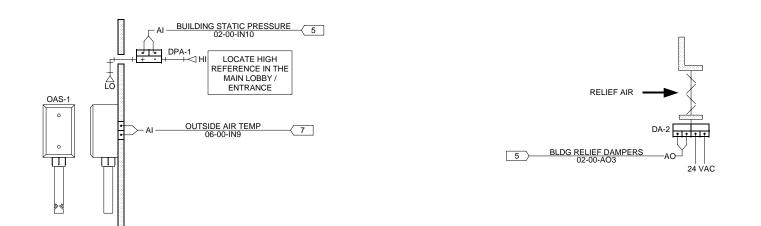
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CHECK BY:

### Air Handler 1

Draw ing ID	Part #	Qty	Description	Manufacturer
DA-1	AF-24-SR	1	DAMPER ACTUATOR, SR, 24VAC, 133 IN-LB, 2-10VDC	BELIMO
DA-2	NF-24-SR	1	DAMPER ACTUATOR, SR, 24VAC, 60 IN-LB, 2-10VDC	BELIMO
DS-1	ALC/10K-2-A-8'	1	10K THERM DUCT 8' AVG	BAPI
DS-2,3	ALC/10K-2-D-18"	2	10K THERM DUCT 18"	BAPI
DPS-1	CLEVELAND AFS-262	2	AIR DIFF PRESSURE SWITCH, 0.05"-2"WC. COMP FITTING	Cleveland
LTD-1	L&S 134-1504	1	LOW TEMP DETECT, MANUAL RESET, DUAL POLE	Landis & Staefa
DPA-1	P852D-5/5 PSID	1	AIR DIFF PRESS XMITTER -0.5-0.5" WC, 4-20 MA OUTPUT, 24 VDC	CONTRACTOR IND.
DPA-1	A-306	1	OUTDOOR STATIC REFERENCE HEAD	DWYER
CS-1	H-708	1	CURRENT SENSING RELAY	VERIS
OAS-1	ALC/10K-2-O	1	10K THERM OUTSIDE AIR SENSOR, WEATHERPROOF ENCL.	BAPI

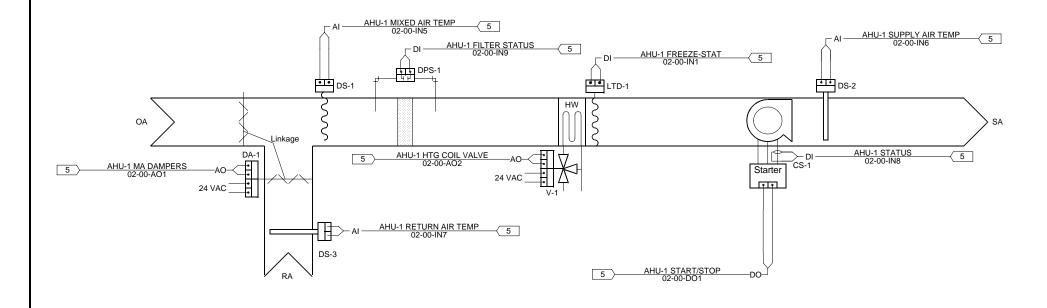


### Air Handling Unit AHU-1

- Automated Control:
  - 1.1. Night mode operation: During night mode of operation the fan will be off, Outside Air dampers will be fully closed and the Return Air dampers will be fully open. If the zone temperature falls below the unoccupied low limit AHU-1 will start with the heating coil maintaining the unoccupied discharge air setpoint until the zone temperature returns to the unoccupied setpoint.
  - 1.2. Morning Warm Up: At the beginning of day mode, the fan will start with the Outside Air dampers closed and the Return Air dampers fully open. The heating coil will modulate to maintain 80' F (adjustable) supply air setpoint. When the Return Air temperature rises to 60' F (adjustable) the system will switch to day mode operation.
  - 1.3. Day mode operation: During operation the control system will maintain the Outside Air dampers at 28% minimum position (initial setting, adjustable by the operator). The Supply Air setpoint shall automatically be reset based on the needs of the zones served by AHU-1. On freeze alarm (initially 40' F, adjustable), the fan shall stop, O/A dampers will fully close, R/A dampers will fully open, heating valve control valve will go to full open. The freeze thermostat will automatically reset. On shutdown by duct smoke detector, the fan shall stop, O/A dampers will fully close, R/A dampers will fully open, heating valve control valve will modulate to satisfy S/A temperature sensor.
- 2. Alarms: Low S/A air temperature (50' F adjustable), Filter high differential pressure, Freeze alarm, No airflow.

### **Building Relief Air**

- 1. Automated Control: Operates with AHU- 1.
  - 1.1. Night Mode: Relief air control dampers are closed.
  - 1.2. Morning Warmup: Relief air control dampers are closed.
  - 1.3. Day mode: Relief air control dampers will modulate to maintain static pressure setpoint (0.05" adjustable).
- 2. Alarms: High building static pressure, Low building static pressure.



Bethel AAOF / Bethel Hangar Phase II
Bethel, Alaska
State of Alaska, Department of Transportation
Air Handler 1

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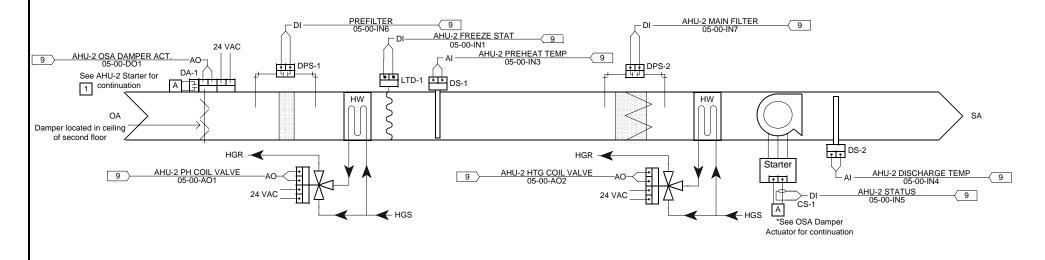
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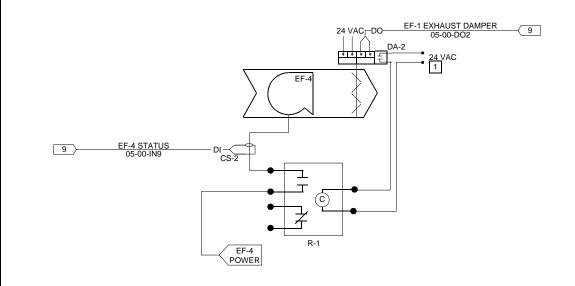
## Air Handler 2 & Exh Fan 4

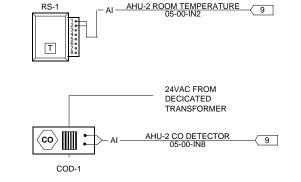
Draw ing ID	Part #	Qty	Description	Manufacturer
CO-1	GREYSTONE CMD2B2000	1	CO DETECTOR, SOLID STATE, 4-20MA	Greystone
DA-1,2	LF24-S	2	DAMPER ACT. SR 24V 35 nlb 2P Aux Sw	BELIMO
DS-1,2	ALC/10K-2-D-12"	2	10K THERM DUCT 12"	BAPI
RS-1	ALC/10K-2-R	1	10K THERM ROOM SENSOR, DELTA ENCL.	BAPI
DPS-1,2	CI RH-3	2	AIR DIFF PRESS SWITCH .07/12"w g	Cleveland
LTD-1	L&S 134-1510	1	LOW TEMP DETECT, AUTO RESET, SINGLE POLE	Landis & Staefa
CS-1,2	H-708	1	CURRENT SENSING RELAY	VERIS

### Air Handling Unit AHU-2 and Exhaust Fan EF-4

- Automated Control:
  - 1.1. The air handler shall be interlocked with exhaust fan (EF-4) to start when the carbon monoxide sensor sees a rise in CO above 35 ppm (adjustable). A supply air temperature controller with room override thermostat shall modulate the heating coil control valves to maintain the space thermostat setpoint. High and low discharge air temperature probes shall limit discharge air temperature. The control dampers shall be interlocked to open prior to the fan start.
  - 1.2. Supply air temperature controller, prior to angle filter, shall modulate preheat col 'I three-way valve to maintain 35'F (adjustable).
  - 1.3. On freeze alarm (initially 40'F, adjustable), the fan shall stop, O/A dampers will fully close, heating valve control valve will go to full open. Provide automatic reset.
- Alarms: Low S/A air temperature (50'F adjustable), Filter high differential pressure (two required), Freeze alarm, CO alarm (100 ppm adjustable).







NOTES:

1 WIRE END SWITCH TO START FAN

# Bethel AAOF / Bethel Hangar Phase II Bethel, Alaska State of Alaska, Department of Transportation Air Handler 2 & Exh Fan 4 REV:: 2 SUBMITTAL 05/19/98 JOB NO.: 98-AK-015

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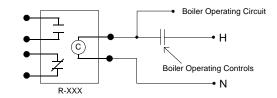
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CHECK BY:

## Boiler 1 & 2, CP 1-4

Draw ing ID	Part #	Qty	Description	Manufacturer
IS-1,2	ALC/10K-2-I-4"	2	10K THERM IMMERSION 4"- NO WELL	BAPI
ISW-1,2	BA/4"M304	2	WELL 4" MACHINED, SS	BAPI
PS-1	P200GTE-06	1	LIQUID PRESSURE SENSOR, 0-60 PSID	KELE
DPS-1-4	PSW-183	4	LIQUID DIFF PRESS SW., 1/4" FNPT, SPDT	OMEGA

### **Boiler Status Relay Detail**



### Boiler System (B-1 and B-2)

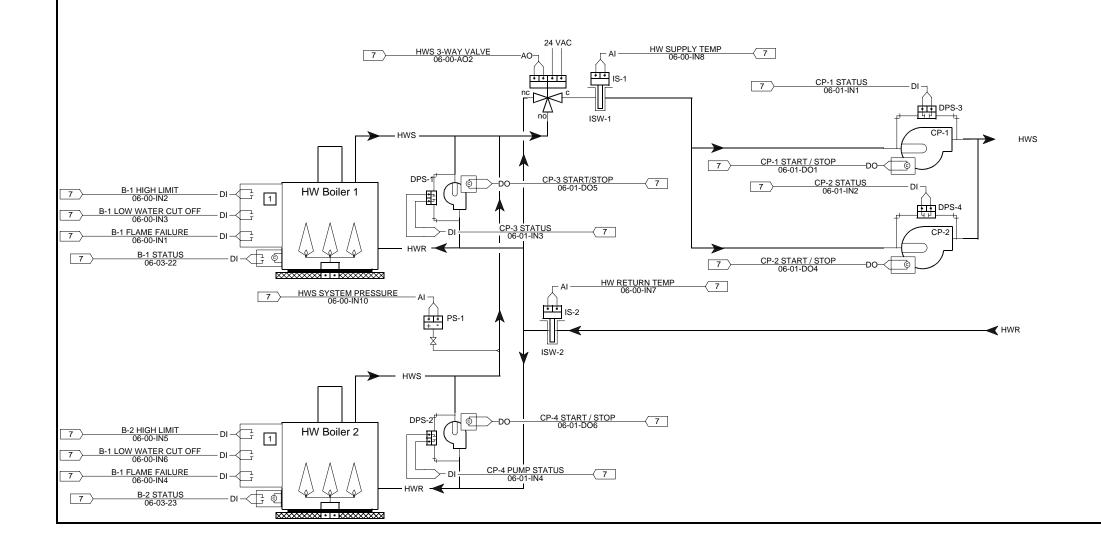
- 1. Automated Control:
  - 1.1. Boilers B-1 and B-2 shall be enabled at the enable setpoint for the primary hydronic circulator pumps and boile bypass pumps. Boilers B-1 and B-2 shall be disabled at an outside air temperature above the enable temperature.
  - 1.2. Boilers shall operate on manufacturer's packaged lead/lag operating controls as specified under Specification Section 15556.
  - The hydronic supply three way control valve shall modulate to maintain an adjustable header reset supply temperature. The three way control valve shall be normally open through boilers to system circulator and shall be a slow acting valve with minimum four minute travel time. Initial settings shall be as follows:
- 2. Alarms: Flame Failure, Low Water Cut-off, High Limit Cut-off, Low glycol supply header temperature, Low system
- Hydronic supply reset schedule: The HGS setpoint shall be linearly adjusted based on the following schedule:
  - 3.1. At an Outside Air Temperature of 0 Deg F the HGS Setpoint shall be 190 Deg F.
  - 3.2. At an Outside Air Temperature of 50 Deg F the HGS Setpoint shall be 140 Deg F.

### Hydronic Pumps CP-1 and CP-2

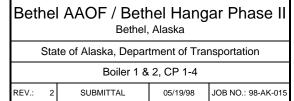
- 1. Automated Control:
  - 1.1. The lead pump shall operate whenever the Outside Air temperature is below 60 Deg F. This setpoint shall be adjustable by the operator. The lead pump shall be off when the Outside Air temperature is above 60 Deg F Upon failure of the lead pump, the lag pump shall operate. The lag pump shall otherwise be off. Alternate Lead pump every 200 hours of use. This setpoint shall be adjustable by the operator.
- 2. Alarms: No flow.

### Boiler Bypass Pumps CP-3 and CP-4

- 1. Automated Control:
  - 1.1. The pumps shall operate when the associated boiler starts and when the heating return temperature drops below 140'F. They shall otherwise be off.
- 2. Alarms: No flow.



CONTROL PANEL AND DRY CONTACTS FOR ALARM PROVIDED BY DIV 15556-2.4





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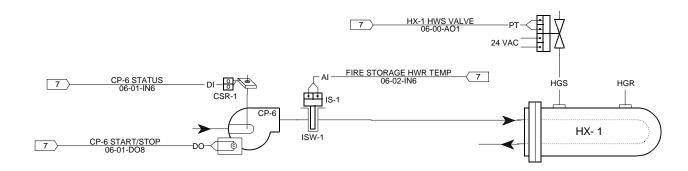
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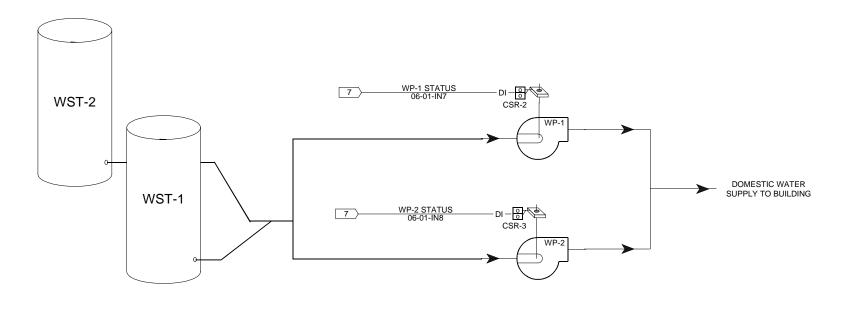
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## HX-1 & CP-6, Dom Wtr System

Draw ing ID	Part #	Qty	Description	Manufacturer
CSR-1,2,3	H-708	3	CURRENT SENSING RELAY	VERIS
IS-1	ALC/10K-2-I-4"	1	10K THERM IMMERSION 4"- NO WELL	BAPI
ISW-1	BA/4"M304	1	WELL 4" MACHINED, SS	BAPI



### **FIRE WATER STORAGE TANK HEATING**



### **DOMESTIC WATER PUMP MONITORING**

### Fire Water Storage Tank Heat Exchanger HX-1

- 1. Automated Control:
  - 1.1. Two way control valve shall modulate to maintain a return fire water temperature of 42'F (adjustable).
  - 1.2. Circulation pump CP-6 shall run continuously when the outside air temperature is below the return fire water temperature setpoint. The pump will otherwise be off.
- 2. Alarms:
  - 2.1. Maintenance alarm shall activate on water level falling below the 103% (adjustable). This is the level required for minimum fire protection capacity.
  - 2.2. Low return fire water temperature (at inlet to HX). No flow on CP-6. Low Fire Water Storage Tank Level.

### Water Pressure Pumps WP-1 and WP-1B

1. Automated Control:

The Direct Digital Control system monitors the water pumps status





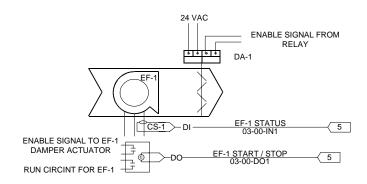
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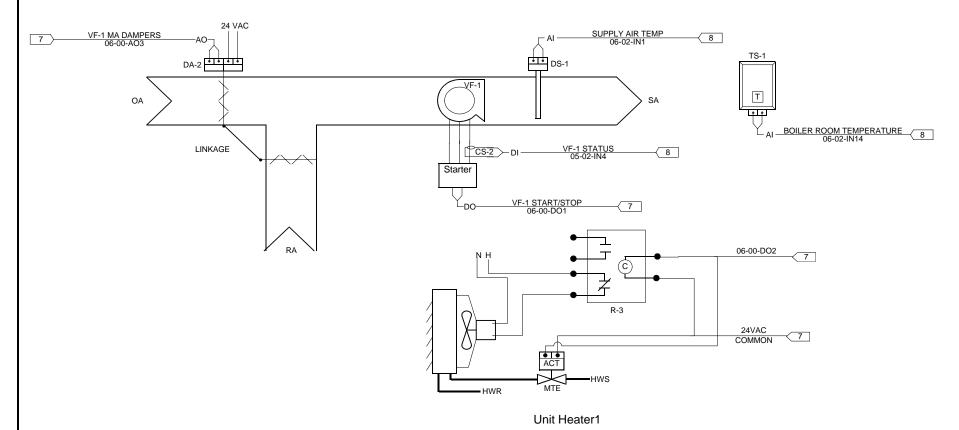
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## VF-1 & EF-1,2,& 3, UH-1

Draw ing ID	Part #	Qty	Description	Manufacture
TS-1	ALC/10K-2-R	1	10K THERM ROOM SENSOR, DELTA ENCL.	BAPI
DA-2	NF24-SR	1	DAMPER ACT. SR 24V 60inlb 0-10	BELIMO
DS-1	ALC/10K-2-D-18"	1	10K THERM DUCT 18"	BAPI
DA-1	LF24-S	1	DAMPER ACT. SR 24V 35inlb 2P Aux Sw	BELIMO
CSR-1,2,3,4	SCS1150A	4	CURRENT SWITCH, SPLIT CORE	KELE





### Boiler Room Ventilation Fan VF-1 and Unit Heater UH-1

- 1. Automated Control:
  - 1.1. The space sensor shall cycle the fan to maintain space setpoint of 80 Deg F (adjustable). Sensor shall cycle the unit heater on upon a drop in temperature below 68'F (adjustable).
  - 1.2. Control dampers shall modulate to maintain 50'F supply air temperature (adjustable) upon fan start. O/A damper shall be closed when fan is off.
  - 1.3. On freeze alarm (initially 40' F), the fan shall stop, O/A dampers will fully close, R/A dampers will fully open. Freeze thermostat shall automatically reset.
- 2. Alarms: Low S/A air temperature (50' F adjustable), High space temperature, Low space temperature.

### Toilet Exhaust Fan EF-1

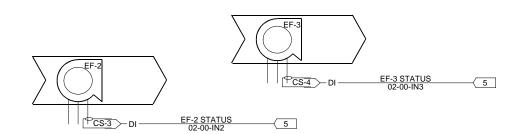
- 1. Automated Control:
  - 1.1. Exhaust Fan shall start and stop in conjunction with AHU-1.

### Exhaust Fan EF-2

- 1. Automated control:
- 1.1. Fan shall run continuously.
- 2. Alarms: No flow.

### Exhaust Fan EF-3

- Automated control:
  - 1.1. Fan shall run continuously. Provide airflow switch to alarm upon loss of airflow.
  - 1.2. The shunt breaker that feeds the electrical outlets in the battery room shall be tripped whenever there is a loss of flow.
- 2. Alarms: No flow.







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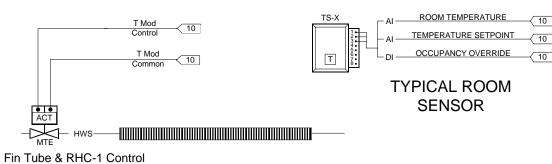
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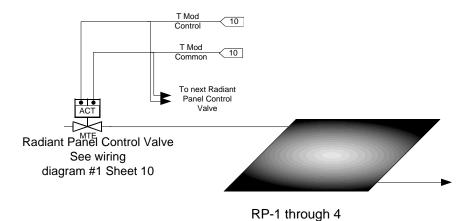
## Fin Tube, RP, RHC-1, & CUH-1/2

Draw ing ID	Part #	Qty	Description	Manufacturer
LVT-1,2	L&S 134-1084	2	TSTAT, ELEC, 1 STAGE, ON/OFF	LANDIS & STAEFA
TS-1-13	ALC/10K-2-RSO	11	10K THERM ROOM SENSOR, DEL	BAPI
V-30A, 30B	MTE12.15	2	CTL VALVE, 2 WAY, 2 POS	SEIMENS

Valve No.	Serves	T-Mod Address	Action	Wiring Diagram
V-24	Room 215, 216 & 216, FT's	1	Two-Position	1
V-18	Rooms 208, 210 & 211 RP's	2	Two-Position	1
V-22	Room 212, FT	4	Two-Position	1
V-28	Room 212 Ceiling, FT	5	Two-Position	1
V-23	Room 213, FT	6	Two-Position	1
V-17	Room 206, RHC-1	8	Two-Position	1
V-25	Room 202A & 202B, FT	9	Two-Position	1
V-27	Room 204, FT	10	Two-Position	1
V-26	Room 203, FT	11	Two-Position	1
V-19	Room 105, FT	15	Two-Position	1
V-20	Room 105A, FT	16	Two-Position	1
V-21	Room 104, FT	17	Two-Position	1

Valve-See wiring diagram #1 Sheet 10





### **Fin-Tube Radiation**

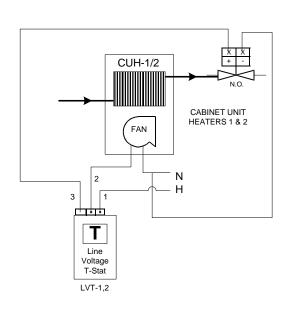
- Automated Control:
  - 1.1. Night Mode: Space thermostat shall cycle terminal control valve to maintain night mode setpoint. Thermostat override button shall bring radiation to day mode.
  - 1.2. Day Mode: Space thermostat shall cycle terminal control valve to maintain day mode setpoint.
- 2. Alarms: High space temperature, Low space temperature.

### **Cabinet Unit Heaters**

1. Automated Control: Space thermostat shall cycle fan and control valve to maintain setpoint.

### Radiant Ceiling Panels RP-1

- Automated Control:
  - 1.1. Night Mode: Space thermostat shall cycle control valve to maintain night mode setpoint. Thermostat override button shall bring radiant panel to day mode.
  - 1.2. Day Mode: Space thermostat shall cycle control valve to maintain day mode setpoint.
- 2. Alarms: High space temperature, Low space temperature.







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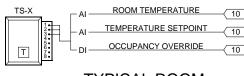
## **Unit Heaters**

Draw ing ID	Part #	Qty	Description	Manufacturer
R-1,2,3	RIB LD951	9	RELAY-ENCASED MULTI VOLTAGE DPDT 24 VAC/20 A	CORE
TS-1-6	ALC/10K-2-RSO	11	10K THERM ROOM SENSOR, DELTA ENCL., SETPT, OVERRIDE	BAPI

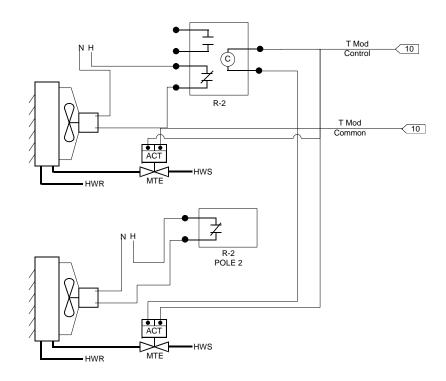
Valve No.	Serves	T-Mod Address	Action	Wiring Diagram
V-10	Room 213 Ceiling, UH-5	3	Two-Position	1
V-11	Stair # 1 Ceiling, UH-6	7	Two-Position	1
V-12	Hangar South, UH-7	12	Modulating	2
V-13	Hangar North, UH-8	13	Modulating	2
V-14	Hangar Center, UH-9	14	Modulating	2
V-7	Room 111 South, UH-2	19	Two-Position	1
V-8	Room 111 North, UH-3	19	Two-Position	1

### Unit Heaters UH-2 through 9

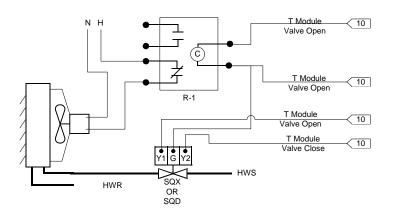
Automated Control: Fan and control valve shall cycle to maintain setpoint. Alarms: High space temperature, Low space temperature.



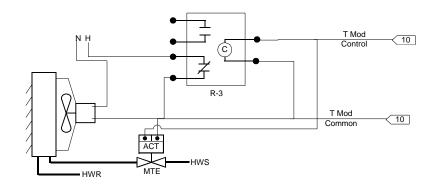
## TYPICAL ROOM SENSOR



Unit Heaters 2 & 3 (Parallel Control) See Wiring Diagram 1 Sheet 10



Unit Heaters 7,8, & 9. Modulating Control. See Wiring Diagram 2 Sheet 10



Unit Heaters 5 & 6 See Wiring Diagram 1 Sheet 10

# Bethel AAOF / Bethel Hangar Phase II Bethel, Alaska State of Alaska, Department of Transportation Unit Heaters REV: 2 SUBMITTAL 05/19/98 JOB NO.: 98-AK-015



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CHECK BY:

## CP5, Sewage Tank, Misc Alarms

Draw ing ID	Part #	Qty	Description	Manufacturer
CSR-5	H-708	1	CURRENT SENSING RELAY	VERIS

# 7 CP-5 STATUS DI DI CSR-4 CP-5 CP-5 START / STOP DO 6-01-DO7

DOMESTIC HOT WATER RECIRCULATION

### **Domestic Hot Water Circulation Pump CP-5**

- I. Automated Control:
  - 1.1. The pump shall operate during occupied mode, and shall be off during unoccupied mode.
- 2. Alarms: No flow.

### Fuel Storage Tank FST-1

Alarms: Low fuel level, Leak detection.

### Fire Alarm Monitoring

Alarms: Building fire alarm signal activated.

### Day Tank DT-1

Alarms: High level, Low level.

### Sewage Lift Station LS-1

Alarms: High level.

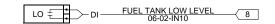
### Sewage Holding Tank ST-1

- 1. Automatic Control:
  - 1.1. Pressure transducer shall signal alarm to control panel and DDC system when tank reaches 80% full (adjustable).
  - 1.2. When tank level reaches 95% full (adjustable) the lift station and domestic water system pumps shall be disabled and the alarm signaled.
- 2. Alarms: High sewage level, Low tank temperature, High tank temperature, Pump shutdown
  - 2.1. Alarm to DDC on tank temperature lower than 40'F (adjustable) and higher than 70'F (adjustable).



### **COMMON FIRE ALARM SIGNAL**

Note: Contacts by others, coordinate with Div. 16



### **FUEL STORAGE TANK LOW LEVEL ALARM**

Note: Contacts by Fuel Tank Provider



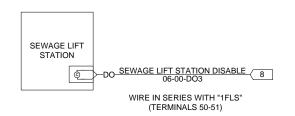
### FUEL STORAGE TANK LEAK DETECTION

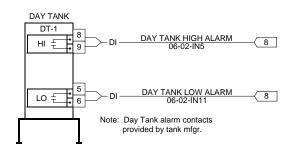
Note: Contacts by Fuel Tank Provider ALARM



### **SEWAGE LIFT STATION HIGH LEVEL ALARM**

Note: Contacts by others









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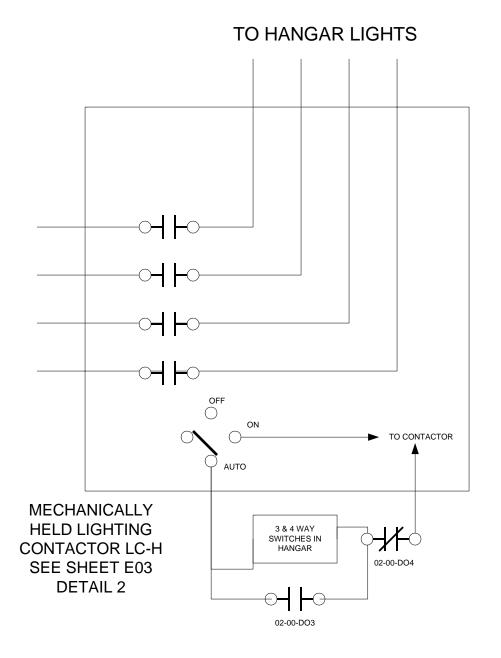
## **Lighting**

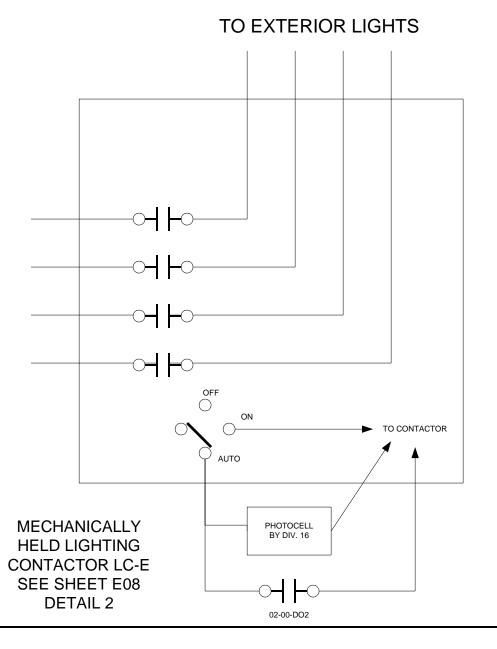
### **Exterior Lighting Control Interface**

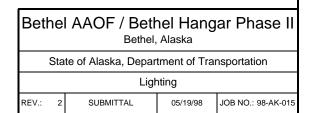
- 1. Automatic Control:
  - 1.1. Occupancy Mode: Day and night mode shall be controlled by exterior photocell or DDC system. Direct Digital Control system shall only override photocell to bring exterior lighting on.
  - 1.2. Day Mode: Lighting shall be off.
  - 1.3. Night Mode: Lighting shall be on.

## Hangar Lighting Control Interface 1. Automatic Control:

- - 1.1. Occupancy Mode: Occupied and night mode shall be controlled by the DDC time function with override by local switches
  - 1.2. Night Mode: Stand-by lighting shall be on. Normal lighting shall be off.
    1.3. Occupied Mode: All hangar lighting shall be on.
    1.4. Override Mode: By local switching.









MERIDIAN SYSTEMS, INC. 200 W 34th Avenue Suite 969

Anchorage, Alaska 99503-3969 Phone: 907 522 3320 Fax: 907 522 2369

19 of 19

CHECK BY:

Fax To: AECOM

**Contact: Brittany Kirchmann** 

Fax: 000-000-0000 Date: 12/12/2018 Fax From: Sean McLaughlin

EDR

Phone: 1-800-352-0050

## EDR PUR-IQ® Report

"the intelligent way to conduct historical research"

for Bethel Airport Bethel Airport Bethel, AK 99559 Lat./Long. 60.776914 / 161.847007 EDR Inquiry # 5509557.2s

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports® comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

**Potential for EDR Historical (Prior Use) Coverage -** Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

**1. City Directory:** Coverage may exist for portions of Bethel Census Area, AK.

2. Fire Insurance Map: When you order online any EDR Package or the EDR Radius Map with

EDR Sanborn Map Search/Print, you receive site specific Sanborn

Map coverage information at no charge.

**3. Aerial Photograph:** Aerial photography coverage may exist for portions of Bethel

Census Area. Please contact your EDR Account Executive for information about USGS photos available through EDR.

**4. Topographic Map:** The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical: Coverage exists for BETHEL County

Current: Target Property: N/A

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for Bethel, AK. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.



## **EDR - HISTORICAL SOURCE(S) ORDER FORM**

AECOM Brittany Kirchmann Account # 1861179

Bethel Airport
Bethel Airport
Bethel, AK 99559
BETHEL County
Lat./Long. 60.776914 / 161.847007
EDR Inquiry # 5509557.2s

Should you wish to change or add to your order, fax this form to your EDR account executive:

Sean McLaughlin Ph: 1-800-352-0050 Fax: 1-800-231-6802

Reports		
EDR Sanborn Map®Search/Print		
EDR Fire Insurance Map Abstract		
EDR Multi-Tenant Retail Facility® Re	port	
EDR City Directory Abstract		
EDR Aerial Photo Decade Package		
USGS Aerial 5 Package		
USGS Aerial 3 Package		
EDR Historical Topographic Maps		
Paper Current USGS Topo (7.5 min.)		
Environmental Lien Search		
Chain of Title Search		
NJ MacRaes Industrial Directory Rep	ort	
EDR Telephone Interview		
Shipping:		
Email Express, Next Day Delivery Express, Second Day Delivery Express, Next day Delivery Express, Second Day Delivery U.S. Mail	Customer Account Customer Account	RUSH SERVICE IS AVAILABLE Acct # Acct #

Bethel Airport Bethel Airport Bethel, AK 99559

Inquiry Number: 5509557.3

December 12, 2018

# **Certified Sanborn® Map Report**



## **Certified Sanborn® Map Report**

12/12/18

Site Name: Client Name:

Bethel Airport AECOM

Bethel Airport 12120 Shamrock Plaza Bethel, AK 99559 Omaha, NE 68154

EDR Inquiry # 5509557.3 Contact: Brittany Kirchmann



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AECOM were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

#### Certified Sanborn Results:

Certification # F5D7-4AD3-8659

PO# NA

Project Bethel Airport

#### **UNMAPPED PROPERTY**

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.



Sanborn® Library search results

Certification #: F5D7-4AD3-8659

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

✓ Library of Congress

University Publications of America

EDR Private Collection

The Sanborn Library LLC Since 1866™

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## **Bethel Airport**

Bethel Airport Bethel, AK 99559

Inquiry Number: 5509557.5

December 12, 2018

# The EDR Aerial Photo Decade Package



## **EDR Aerial Photo Decade Package**

12/12/18

Site Name: Client Name:

Bethel Airport AECOM

Bethel Airport 12120 Shamrock Plaza Bethel, AK 99559 Omaha, NE 68154

EDR Inquiry # 5509557.5 Contact: Brittany Kirchmann



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

#### Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	Source
2005	1"=1000'	Flight Date: July 21, 2005	USDA
1995	1"=1000'	Flight Date: June 12, 1995	USGS
1980	1"=1000'	Flight Date: July 20, 1980	USGS
1973	1"=1000'	Flight Date: June 24, 1973	USGS
1952	1"=1000'	Flight Date: July 21, 1952	USGS

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

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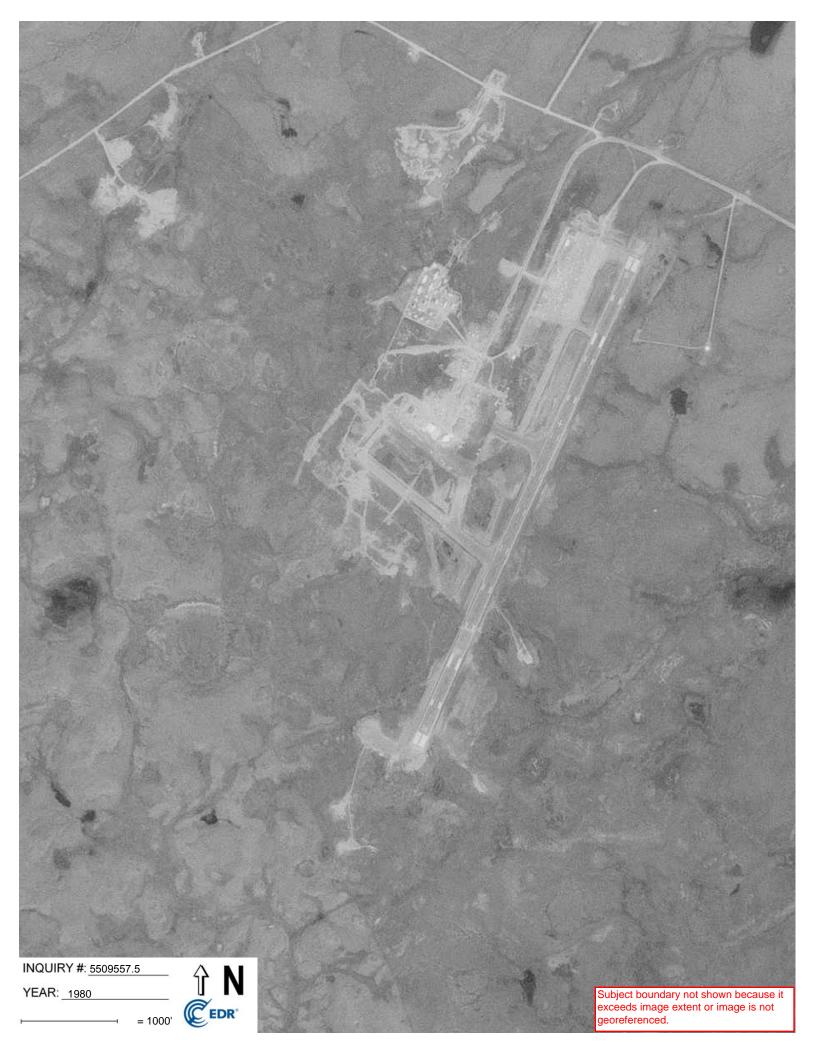
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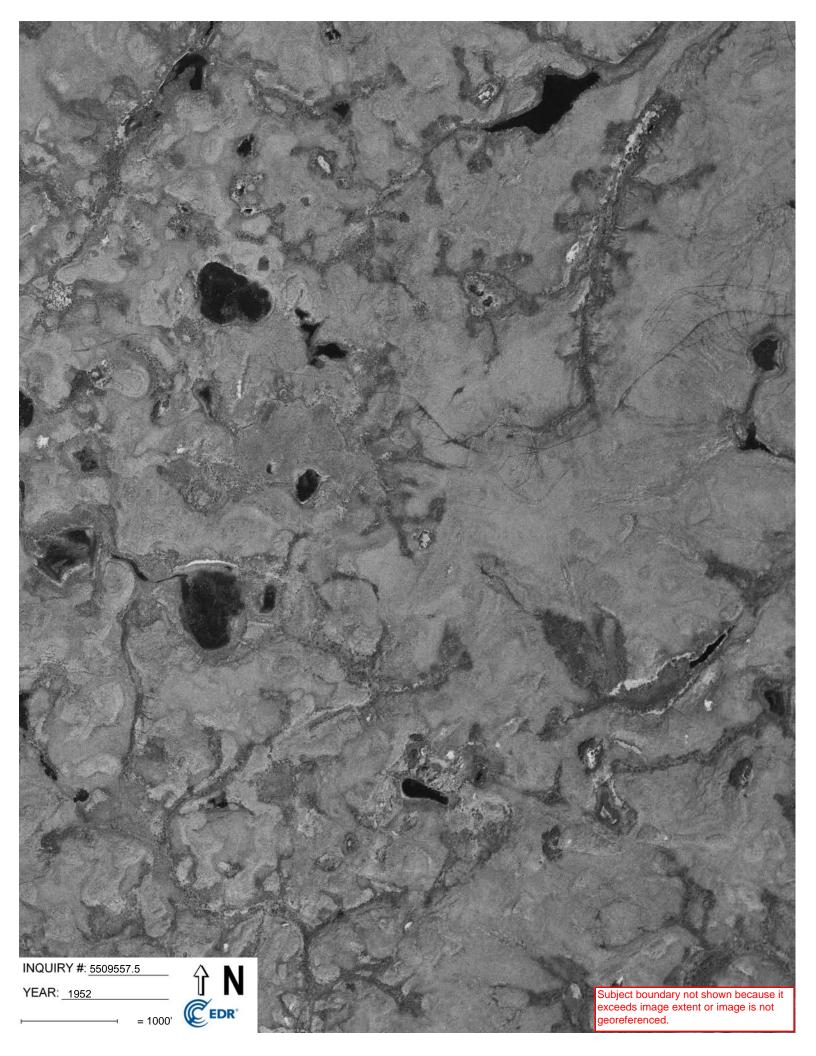
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**Bethel Airport** 

Bethel Airport Bethel, AK 99559

Inquiry Number: 5509557.2s

December 12, 2018

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

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**Thank you for your business.** Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

#### **ADDRESS**

BETHEL AIRPORT BETHEL, AK 99559

#### **COORDINATES**

Latitude (North): 60.7769140 - 60° 46′ 36.89″ Longitude (West): 161.8470070 - 161° 50′ 49.22″

Universal Tranverse Mercator: Zone 4 UTM X (Meters): 344965.8 UTM Y (Meters): 6741097.0

Elevation: 101 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: N/A

Source: U.S. Geological Survey

## MAPPED SITES SUMMARY

Target Property Address: BETHEL AIRPORT BETHEL, AK 99559

Click on Map ID to see full detail.

MAP	0.75	100000	D.T.D.O.T. A.D.D.D.W.	RELATIVE	DIST (ft. & mi.)
ID A1	SITE NAME ADOT&PF BETHEL MAINT	ADDRESS BETHEL AIRPORT; SW O	DATABASE ACRONYMS SHWS	ELEVATION	DIRECTION TP
A2	CAMAI AIR	BETHEL REGIONAL ARPR	LUST, UST, RCRA NonGen / NLR		TP
A3	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	RGA LUST		TP
A4	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	RGA LUST		TP
A5	USFWS - BETHEL AIRPO	BETHEL AIRPORT,	RGA LUST		TP
A6	USFWS-BETHEL AIRPORT	BETHEL AIRPORT	RGA LUST		TP
A7	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	RGA LUST		TP
A8	USFWS - BETHEL AIRPO	BETHEL AIRPORT	RGA LUST		TP
A9	CAMAI AIR - BETHEL	BETHEL REGIONAL AIRP	RGA LUST		TP
A10	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT,	RGA LUST		TP
A11	SEAGULL AIR SERVICE	LOT 1 BLOCK 7, BETHE	RGA LUST		TP
A12	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT; P. O	RGA LUST		TP
A13	ROBAIR REPAIR	3241 NORTH RAMP, BET	RGA LUST		TP
A14	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT; P. O	RGA LUST		TP
A15	CAMAI AIR - BETHEL	BETHEL REGIONAL AIRP	RGA LUST		TP
A16	BETHEL NG, MAINTENAN	BETHEL AIRPORT HANGA	RGA LUST		TP
A17	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT	RGA LUST		TP
A18	USFWS - YUKON DELTA	BETHEL AIRPORT	RGA LUST		TP
A19	AKANG - BETHEL AAOF	BETHEL AIRPORT AAOF	RGA LUST		TP
A20	ARCTIC CIRCLE AIR BE	BETHEL AIRPORT; P. O	RGA LUST		TP
A21	AKANG - BETHEL AAOF	BETHEL AIRPORT AAOF;	RGA LUST		TP
A22	AKANG - BETHEL AAOF	BETHEL AIRPORT AAOF	RGA LUST		TP
A23	ADOT&PF BETHEL MAINT	BETHEL	RGA LUST		TP
A24	ADOTPF - MAINTENANCE	BETHEL	RGA LUST		TP
A25	ARCTIC CIRCLE AIR BE	BETHEL AIRPORT P. O.	RGA LUST		TP
A26	AKANG - HANGER FACIL	BETHEL AIRPORT LOT	RGA LUST		TP
A27	ADOT&PF BETHEL MAINT	BETHEL,	RGA LUST		TP
A28	NELSON ISLAND AIR SE	BETHEL AIRPORT	EDR Hist Auto		TP
A29	BETHEL, BETHEL ARMY	BETHEL AIRPORT	SPILLS		TP
A30		BETHEL AIRPORTS	ERNS		TP
A31	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	LUST		TP
A32	CAMAI AIR - BETHEL	BETHEL REGIONAL AIRP	SHWS		TP
A33	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT; P. O	SHWS, LUST		TP
A34	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	SHWS		TP
A35	ERA AVIATION BETHEL	BETHEL AIRPORT, LOT	SHWS, ENG CONTROLS, INST CONTROL		TP
36	ADOT&PF BETHEL MAINT	CHIEF EDDIE HOFFMAN	SHWS, LUST, INST CONTROL	Lower	1 ft.
37	BETHEL FUEL SALES PU	BETHEL	SHWS	Lower	170, 0.032, NNE
B38	ROBAIR REPAIR-BETHEL	3241 NORTH R	SHWS	Lower	1032, 0.195, NE
B39	ROBAIR REPAIR CO	3241 N RAMP	LUST, RCRA NonGen / NLR	Lower	1032, 0.195, NE

## MAPPED SITES SUMMARY

Target Property Address: BETHEL AIRPORT BETHEL, AK 99559

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	<b>ELEVATION</b>	DIRECTION
40	BETHEL RADIO RELAY S	~5 MILES W OF, BETHE	SHWS, INST CONTROL	Higher	4398, 0.833, WNW
41	BETHEL BIA HEADQUART	4 MILES WEST OF BETH	SHWS	Higher	4700, 0.890, SSE
42	BETHEL BIA SPILL - W	BIA ROAD, ~4 MILES W	SHWS, INST CONTROL	Higher	4731, 0.896, NW

#### TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ADOT&PF BETHEL MAINT BETHEL AIRPORT; SW O BETHEL, AK 99559	SHWS Facility Status: Active Hazard ID: 26924	N/A
CAMAI AIR BETHEL REGIONAL ARPR BETHEL, AK 99559	LUST eventid: 24882 Facility Status: Cleanup Complete  UST Facility Id: 666 Tank Status: Permanently Out of Use  RCRA NonGen / NLR	AKD085802114
	EPA ID:: AKD085802114	
YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK	RGA LUST	N/A
YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK	RGA LUST	N/A
USFWS - BETHEL AIRPO BETHEL AIRPORT, BETHEL, AK	RGA LUST	N/A
USFWS-BETHEL AIRPORT BETHEL AIRPORT BETHEL, AK	RGA LUST	N/A
YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK	RGA LUST	N/A
USFWS - BETHEL AIRPO BETHEL AIRPORT BETHEL, AK	RGA LUST	N/A
CAMAI AIR - BETHEL BETHEL REGIONAL AIRP BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT, BETHEL, AK	RGA LUST	N/A

SEAGULL AIR SERVICE LOT 1 BLOCK 7, BETHE BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT; P. O BETHEL, AK	RGA LUST	N/A
ROBAIR REPAIR 3241 NORTH RAMP, BET BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT; P. O BETHEL, AK	RGA LUST	N/A
CAMAI AIR - BETHEL BETHEL REGIONAL AIRP BETHEL, AK	RGA LUST	N/A
BETHEL NG, MAINTENAN BETHEL AIRPORT HANGA BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT BETHEL, AK	RGA LUST	N/A
USFWS - YUKON DELTA BETHEL AIRPORT BETHEL, AK	RGA LUST	N/A
AKANG - BETHEL AAOF BETHEL AIRPORT AAOF BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR BE BETHEL AIRPORT; P. O BETHEL, AK	RGA LUST	N/A
AKANG - BETHEL AAOF BETHEL AIRPORT AAOF; BETHEL, AK	RGA LUST	N/A
AKANG - BETHEL AAOF BETHEL AIRPORT AAOF BETHEL, AK	RGA LUST	N/A

ADOT&PF BETHEL MAINT BETHEL BETHEL, AK	RGA LUST	N/A
ADOTPF - MAINTENANCE BETHEL BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR BE BETHEL AIRPORT P. O. BETHEL, AK	RGA LUST	N/A
AKANG - HANGER FACIL BETHEL AIRPORT LOT BETHEL, AK	RGA LUST	N/A
ADOT&PF BETHEL MAINT BETHEL, BETHEL, AK	RGA LUST	N/A
NELSON ISLAND AIR SE BETHEL AIRPORT BETHEL, AK 99559	EDR Hist Auto	N/A
BETHEL, BETHEL ARMY BETHEL AIRPORT BETHEL, AK 99559	SPILLS Case Closed: 02/04/2010 Facility Id: 10279900702 Spill ID: 35306	N/A
BETHEL AIRPORTS BETHEL AIRPORTS BETHEL, AK	ERNS NRC Report #: 1181027	N/A
YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK 99559	LUST eventid: 23088 Facility Status: Cleanup Complete	N/A
CAMAI AIR - BETHEL BETHEL REGIONAL AIRP BETHEL, AK 99559	SHWS Facility Status: Cleanup Complete Hazard ID: 24882	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT; P. O BETHEL, AK 99559	SHWS	N/A

Facility Status: Cleanup Complete

Hazard ID: 23550

LUST

eventid: 23550

Facility Status: Cleanup Complete

YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK 99559 SHWS

Facility Status: Cleanup Complete

Hazard ID: 23088

ERA AVIATION BETHEL BETHEL AIRPORT, LOT BETHEL, AK 99559 SHWS

N/A

N/A

Facility Status: Cleanup Complete - Institutional Controls

Facility Status: Cleanup Complete

Facility Status: Active Hazard ID: 2465 Hazard ID: 2608 Hazard ID: 2108 Hazard ID: 3048 Hazard ID: 4159

\*Additional key fields are available in the Map Findings section

#### **ENG CONTROLS**

Facility Status: Cleanup Complete - Institutional Controls

Hazard ID: 2465

#### **INST CONTROL**

Facility Status: Cleanup Complete - Institutional Controls

Facility Status: Active Hazard ID: 2608 Hazard ID: 1552 Hazard ID: 24571 Hazard ID: 2465 Hazard ID: 2108

#### **DATABASES WITH NO MAPPED SITES**

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

#### STANDARD ENVIRONMENTAL RECORDS

#### Federal NPL site list

NPL..... National Priority List

Proposed NPL..... Proposed National Priority List Sites

NPL LIENS..... Federal Superfund Liens Federal Delisted NPL site list Delisted NPL..... National Priority List Deletions Federal CERCLIS list FEDERAL FACILITY..... Federal Facility Site Information listing SEMS...... Superfund Enterprise Management System Federal CERCLIS NFRAP site list SEMS-ARCHIVE...... Superfund Enterprise Management System Archive Federal RCRA CORRACTS facilities list CORRACTS...... Corrective Action Report Federal RCRA non-CORRACTS TSD facilities list RCRA-TSDF...... RCRA - Treatment, Storage and Disposal Federal RCRA generators list RCRA-LQG..... RCRA - Large Quantity Generators RCRA-SQG..... RCRA - Small Quantity Generators RCRA-CESQG...... RCRA - Conditionally Exempt Small Quantity Generator Federal institutional controls / engineering controls registries Land Use Control Information System US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROL...... Sites with Institutional Controls State and tribal landfill and/or solid waste disposal site lists SWF/LF..... Solid Waste Facilities State and tribal leaking storage tank lists INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land State and tribal registered storage tank lists FEMA UST..... Underground Storage Tank Listing State and tribal voluntary cleanup sites ...... Voluntary Cleanup Program sites INDIAN VCP..... Voluntary Cleanup Priority Listing State and tribal Brownfields sites BROWNFIELDS.....Identified and/or Proposed Brownfields Sites

#### ADDITIONAL ENVIRONMENTAL RECORDS

#### Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

#### Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY...... Recycling Facilities

INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands

ODI..... Open Dump Inventory

DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations

IHS OPEN DUMPS..... Open Dumps on Indian Land

#### Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register

CDL..... Illegal Drug Manufacturing Sites

US CDL...... National Clandestine Laboratory Register

#### Local Land Records

LIENS 2..... CERCLA Lien Information

#### Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS 90...... SPILLS 90 data from FirstSearch

#### Other Ascertainable Records

FUDS...... Formerly Used Defense Sites DOD...... Department of Defense Sites

SCRD DRYCLEANERS...... State Coalition for Remediation of Drycleaners Listing

US FIN ASSUR..... Financial Assurance Information

EPA WATCH LIST..... EPA WATCH LIST

2020 COR ACTION....... 2020 Corrective Action Program List

TSCA...... Toxic Substances Control Act

TRIS...... Toxic Chemical Release Inventory System

RAATS......RCRA Administrative Action Tracking System

ICIS\_\_\_\_\_\_Integrated Compliance Information System

FTTS......FIFŘA/ TSCA Tracking System - FIFŘA (Federal Insecticide, Fungicide, & Rodenticide

Act)/TSCA (Toxic Substances Control Act)

COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List

PCB TRANSFORMER...... PCB Transformer Registration Database

RADINFO...... Radiation Information Database

HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing

DOT OPS..... Incident and Accident Data

CONSENT...... Superfund (CERCLA) Consent Decrees

INDIAN RESERV..... Indian Reservations

FUSRAP..... Formerly Utilized Sites Remedial Action Program

UMTRA..... Uranium Mill Tailings Sites

LEAD SMELTERS.....Lead Smelter Sites

US AIRS...... Aerometric Information Retrieval System Facility Subsystem

US MINES..... Mines Master Index File

ABANDONED MINES..... Abandoned Mines

FINDS....... Facility Index System/Facility Registry System DOCKET HWC...... Hazardous Waste Compliance Docket Listing

UXO...... Unexploded Ordnance Sites

ECHO...... Enforcement & Compliance History Information

FUELS PROGRAM..... EPA Fuels Program Registered Listing

Financial Assurance Information Listing NPDES....... Wastewater Discharge Permit Listing

UIC Information

#### **EDR HIGH RISK HISTORICAL RECORDS**

#### **EDR Exclusive Records**

EDR MGP..... EDR Proprietary Manufactured Gas Plants EDR Hist Cleaners EDR Exclusive Historical Cleaners

#### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### Exclusive Recovered Govt. Archives

RGA LF...... Recovered Government Archive Solid Waste Facilities List

#### **SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in bold italics are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

#### STANDARD ENVIRONMENTAL RECORDS

#### State- and tribal - equivalent CERCLIS

SHWS: State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with where cleanup will be paid for by potentially responsible parties.

A review of the SHWS list, as provided by EDR, and dated 09/25/2018 has revealed that there are 6 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BETHEL RADIO RELAY S Facility Status: Active Hazard ID: 2831	~5 MILES W OF, BETHE	WNW 1/2 - 1 (0.833 mi.)	40	71
BETHEL BIA HEADQUART Facility Status: Active Hazard ID: 2899	4 MILES WEST OF BETH	SSE 1/2 - 1 (0.890 mi.)	41	79
BETHEL BIA SPILL - W Facility Status: Cleanup Complete - Ins Hazard ID: 1868	BIA ROAD, ~4 MILES W stitutional Controls	NW 1/2 - 1 (0.896 mi.)	42	90
Lower Elevation	Address	Direction / Distance	Map ID	Page
ADOT&PF BETHEL MAINT Facility Status: Cleanup Complete Hazard ID: 24665	CHIEF EDDIE HOFFMAN	0 - 1/8 (0.000 mi.)	36	60
BETHEL FUEL SALES PU Facility Status: Cleanup Complete Hazard ID: 285 Hazard ID: 1858 Hazard ID: 1033 Hazard ID: 1549 Hazard ID: 1580	BETHEL	NNE 0 - 1/8 (0.032 mi.)	37	63
ROBAIR REPAIR-BETHEL Facility Status: Cleanup Complete Hazard ID: 22910	3241 NORTH R	NE 1/8 - 1/4 (0.195 mi.)	B38	68

#### State and tribal leaking storage tank lists

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Pollution Control & Ecology's LUST Notice Information.

A review of the LUST list, as provided by EDR, and dated 08/09/2018 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	<b>Direction / Distance</b>	Map ID	Page
ADOT&PF BETHEL MAINT	CHIEF EDDIE HOFFMAN	0 - 1/8 (0.000 mi.)	36	60

eventid: 24665

Facility Status: Cleanup Complete

ROBAIR REPAIR CO 3241 N RAMP NE 1/8 - 1/4 (0.195 mi.) B39 70

eventid: 22910

Facility Status: Cleanup Complete

#### State and tribal institutional control / engineering control registries

INST CONTROL: Contaminated sites that have institutional controls.

A review of the INST CONTROL list, as provided by EDR, and dated 09/25/2018 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ADOT&PF BETHEL MAINT Facility Status: Cleanup Complete	CHIEF EDDIE HOFFMAN	0 - 1/8 (0.000 mi.)	36	60
Hazard ID: 24665				

#### ADDITIONAL ENVIRONMENTAL RECORDS

#### Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROBAIR REPAIR CO	3241 N RAMP	NE 1/8 - 1/4 (0.195 mi.)	B39	70
EPA ID:: AKD983068933				

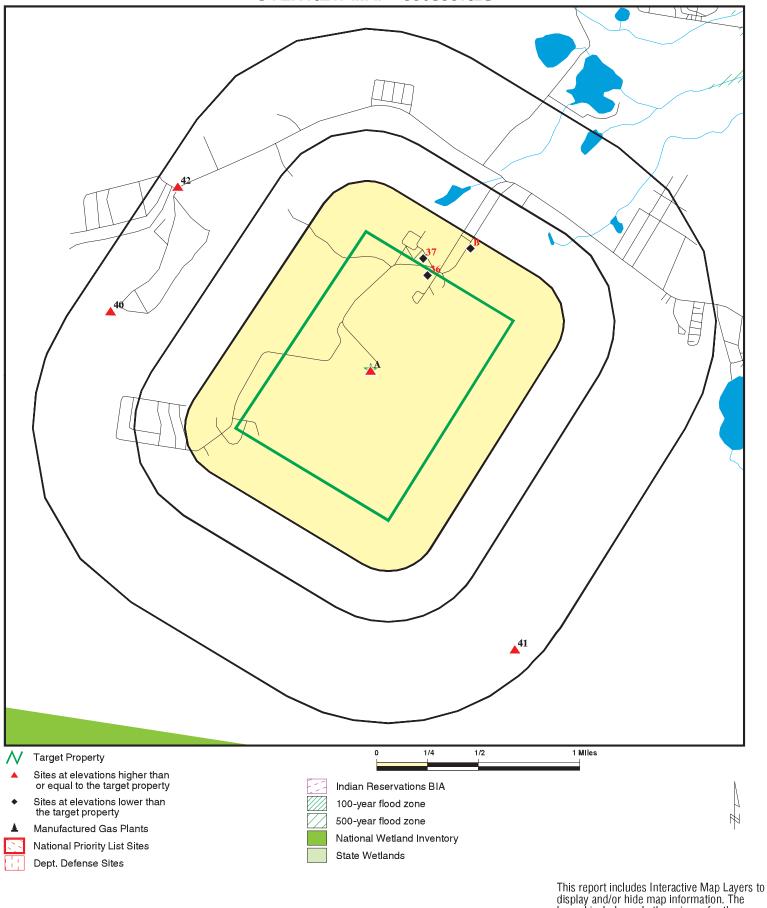
Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

Site Name

YUKON-KUSKOKWIM HEALTH CORPORATION USDOT FAA BETHEL SECTOR FIELD OFF ALASKA AIRLINES BETHEL USDOT FAA BETHEL BETHEL AIRPORT FAA BETHEL WELL BETHEL LANDFILL Database(s)

ICIS, US AIRS FTTS, HIST FTTS RCRA NonGen / NLR RCRA-CESQG, DOCKET HWC HMIRS FINDS, ECHO ODI

## **OVERVIEW MAP - 5509557.2S**



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Bethel Airport

ADDRESS: Bethel Airport

Bethel AK 99559

LAT/LONG: 60.776914 / 161.847007

CLIENT: AECOM

CONTACT: Brittany Kirchmann

INQUIRY #: 5509557.2s

DATE: December 12, 2018 9:57 am

## **DETAIL MAP - 5509557.2S**



SITE NAME: Bethel Airport
ADDRESS: Bethel Airport
Bethel AK 99559
LAT/LONG: 60.776914 / 161.847007

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5509557.2s
DATE: December 12, 2018 9:57 am

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL site	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRAI	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRAC	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	s list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP	1	NR	NR	NR	NR	NR	1
State- and tribal - equiva	lent CERCLIS	3						
SHWS	1.000	5	2	1	0	3	NR	11
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST INDIAN LUST	0.500 0.500	3	1 0	1 0	0 0	NR NR	NR NR	5 0
State and tribal registere	ed storage tan	k lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted	
UST AST INDIAN UST	0.250 0.250 0.250	1	0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	1 0 0	
State and tribal institution control / engineering con		s							
ENG CONTROLS INST CONTROL	0.500 0.500	1 1	0 1	0 0	0 0	NR NR	NR NR	1 2	
State and tribal voluntary cleanup sites									
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0	
State and tribal Brownfie	lds sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0	
ADDITIONAL ENVIRONMENTAL RECORDS									
Local Brownfield lists									
US BROWNFIELDS	0.500		0	0	0	NR	NR	0	
Local Lists of Landfill / S Waste Disposal Sites	olid								
SWRCY INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0	
Local Lists of Hazardous waste / Contaminated Sites									
US HIST CDL CDL US CDL	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0	
Local Land Records									
LIENS 2	TP		NR	NR	NR	NR	NR	0	
Records of Emergency R	elease Repo	rts							
HMIRS SPILLS SPILLS 90	TP TP TP	1	NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 1 0	
Other Ascertainable Records									
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST	0.250 1.000 1.000 0.500 TP TP	1	0 0 0 0 NR NR	1 0 0 0 NR NR	NR 0 0 0 NR NR	NR 0 0 NR NR NR	NR NR NR NR NR NR	2 0 0 0 0	

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	Ö
TRIS	TP		NR	NR	NR	NR	NR	Ō
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0
COAL ASH DOE COAL ASH EPA	0.500		0	0	0	NR NR	NR NR	0 0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	Ő
CONSENT	1.000		0	0	0	0	NR	Ö
INDIAN RESERV	1.000		Ō	Ō	Ō	Ö	NR	Ō
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO ECHO	1.000 TP		0 NR	0 ND	0 NR	0 NR	NR	0
FUELS PROGRAM	0.250		0	NR 0	NR NR	NR NR	NR NR	0 0
AIRS	0.230 TP		NR	NR	NR	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		Ö	Ö	NR	NR	NR	Ő
Financial Assurance	TP		NR	NR	NR	NR	NR	Ö
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125	1	Ö	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Go	vt. Archives							
RGA LF	TP		NR	NR	NR	NR	NR	0
NOA LI	11		INIX	INIX	INL	INIX	INIX	J

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LUST	TP	25	NR	NR	NR	NR	NR	25
- Totals		40	4	3	0	3	0	50

## NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

A1 ADOT&PF BETHEL MAINTENANCE STATION CLASS V INJECTI SHWS S122880016
Target BETHEL AIRPORT; SW OF TOWER RD & CHIEF EDDIE HOFFMAN HWY INT N/A

Property BETHEL, AK 99559

Site 1 of 35 in cluster A

Actual: SHWS:

**101 ft.** File Number: 2407.38.029

Staff: Grant Lidren, 9072698685 , grant.lidren@alaska.gov

 Facility Status:
 Active

 Latitude:
 60.784132

 Longitude:
 -161.840306

 Hazard ID:
 26924

Problem: On September 12, 2018, soil contamination was encountered during the

decommissioning of a Class V injection well at the Alaska Department of Transportation and Public Facilities (ADOT&PF) Bethel Airport Maintenance Station. This work was conducted as part of a compliance order with EPA. During this work, olfactory senses and PID readings indicate significant contamination in the soil to a depth of 12 feet below ground surface. The Class V injection well received the combined effluent from the state equipment fleet (SEF) building and the snow removal equipment / maintenance and operations (SRE/M&O) building. These two building drainage systems discharged via a drain line from the SEF building into an 8' by 8' by 5' underground log

crib.

Actions:

Action Date: 9/19/2018

Action: Site Added to Database

DEC Staff: Mitzi Read

Action Description: A new site has been added to the database

Action Date: 9/19/2018

Action: Potentially Responsible Party/State Interest Letter

DEC Staff: Grant Lidren

Action Description: PRP letter sent to DOT on this date

Contaminants:

Staff: Grant Lidren, 9072698685 , grant.lidren@alaska.gov

Contaminate Name1: ADOT&PF Bethel Maintenance Station Class V Injecti

Contaminate Level Description1: Not reported Contaminate Media1: Not reported

Control Type: Not reported
Control Details Description1: Not reported
Contaminant CTD: Not reported
Contaminant CDR: Not reported
Comments: Not reported

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**A2 CAMAI AIR** 

**BETHEL REGIONAL ARPRT Target** UST AKD085802114 **RCRA NonGen / NLR Property BETHEL, AK 99559** 

Site 2 of 35 in cluster A

LUST: Actual: 101 ft.

Facility Name: CAMAI AIR - BETHEL Facility Status: Cleanup Complete Record Key: 1998250025301 File ID: 2407.26.005

Oname: Camai Air Dba Village Aviation

60.78272 -161.8437 Lat/Lon:

Lust Event ID: 2713 LUST CS or Lust: Borough: Bethel

No Longer Assigned Staff:

Site Type: Unknown Horizontal Datum: WGS84

UST:

666 Facility ID:

Facility Type: Air Taxi (Airline)

Owner ID: 1213

Owner Name: Camai Air Dba Village Aviation

P.O. Box 787 Owner Address: Owner City,St,Zip: Aniak, AK 99557

Tank ID:

Tank Status: **Permanently Out of Use** 

Tack Capacity: 1000 Tank Product: Gasoline Installed Date: 06/10/1983 Regulated Tank: Yes

Tank ID:

Tank Status: **Permanently Out of Use** 

Tack Capacity: Tank Product: Gasoline 06/10/1983 Installed Date: Regulated Tank: Yes

RCRA NonGen / NLR:

Date form received by agency: 10/27/1986 **CAMAI AIR** Facility name:

Facility address: BETHEL REGIONAL ARPRT

BETHEL, AK 99559 EPA ID: AKD085802114 Mailing address: PO BOX 787

BETHEL, AK 99559 JOHN WATTS Contact: Contact address: PO BOX 787

BETHEL, AK 99559

Contact country:

907-543-4040 Contact telephone: Contact email: Not reported

EPA Region: 10 LUST

1000146598

MAP FINDINGS Map ID

Direction Distance Elevation

**EDR ID Number** Site Database(s) **EPA ID Number** 

**CAMAI AIR (Continued)** 1000146598

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator address:

Owner/operator name: VILLAGE AVIATION INC

Not reported

Not reported Owner/operator country: Not reported Owner/operator telephone: Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Not reported Legal status: Private Owner/Operator Type: Owner

Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: Yes Treater, storer or disposer of HW: No Underground injection activity: No On-site burner exemption: No Furnace exemption: Nο Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: No Used oil transfer facility: No Used oil transporter: No

NONE Waste code: Waste name: None

Violation Status: No violations found

YUTE AIR BANKRUPTCY PROPERTIES **A3 Target** FISHER HANGAR LOT 4 BLOCK 11, BETHEL AIRPORT **Property BETHEL, AK** 

RGA LUST S116474010 N/A

Site 3 of 35 in cluster A

Actual: 101 ft.

RGA LUST:

YUTE AIR BANKRUPTCY PROPERTIES 2007 FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT

2006 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT

2005 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT

2004 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT

YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT

2002 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT

Map ID MAP FINDINGS

Direction Distance

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

A4 YUTE AIR BANKRUPTCY PROPERTIES RGA LUST S116474009

Target FISHER HANGAR LOT 4 BLOCK 11, BETHEL AIRPORT,

Property BETHEL, AK

Site 4 of 35 in cluster A

Actual: 101 ft.

RGA LUST:

2012 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT,

2011 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT,

2010 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT,

2009 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11, BETHEL AIRPORT,

A5 USFWS - BETHEL AIRPORT, TANK #1 RGA LUST S116473511

Target BETHEL AIRPORT, Property BETHEL, AK

Site 5 of 35 in cluster A

Actual: RGA LUST:

**Actual:** RGA LUST **101 ft.** 

2012 USFWS - BETHEL AIRPORT, TANK #1 BETHEL AIRPORT,
2011 USFWS - BETHEL AIRPORT, TANK #1 BETHEL AIRPORT,
2010 USFWS - BETHEL AIRPORT, TANK #1 BETHEL AIRPORT,

2009 USFWS - BETHEL AIRPORT, TANK #1 BETHEL AIRPORT,

A6 USFWS-BETHEL AIRPORT, TANK #1 RGA LUST S116473556

Target BETHEL AIRPORT

Property BETHEL, AK

Site 6 of 35 in cluster A

Actual: RGA LUST:

101 ft. 2006 USFWS-BETHEL AIRPORT, TANK #1 BETHEL AIRPORT

2005 USFWS-BETHEL AIRPORT, TANK #1 BETHEL AIRPORT

A7 YUTE AIR BANKRUPTCY PROPERTIES RGA LUST \$116474008

Target FISHER HANGAR LOT 4 BLOCK 11 BETHEL AIRPORT

Property BETHEL, AK

Site 7 of 35 in cluster A

Actual: RGA LUST:

101 ft. 2008 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK

11 BETHEL AIRPORT

A8 USFWS - BETHEL AIRPORT, TANK #1 RGA LUST S116473512

Target BETHEL AIRPORT Property BETHEL, AK

Site 8 of 35 in cluster A

Actual: RGA LUST:

101 ft. 2008 USFWS - BETHEL AIRPORT, TANK #1 BETHEL AIRPORT

2007 USFWS - BETHEL AIRPORT, TANK #1 BETHEL AIRPORT

N/A

N/A

N/A

N/A

N/A

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

Α9 **CAMAI AIR - BETHEL RGA LUST** S116465320

**BETHEL REGIONAL AIRPORT BLDG 3594, Target** 

BETHEL, AK **Property** 

Site 9 of 35 in cluster A

Actual: RGA LUST:

101 ft. 2012 BETHEL REGIONAL AIRPORT BLDG 3594, CAMAI AIR - BETHEL BETHEL REGIONAL AIRPORT BLDG 3594, 2011 CAMAI AIR - BETHEL 2010 CAMAI AIR - BETHEL BETHEL REGIONAL AIRPORT BLDG 3594,

> BETHEL REGIONAL AIRPORT BLDG 3594, 2009 CAMAI AIR - BETHEL

A10 **ARCTIC CIRCLE AIR SERVICES - 2001 RGA LUST S116464648** N/A

**BETHEL AIRPORT, Target Property BETHEL, AK** 

Site 10 of 35 in cluster A

Actual: RGA LUST:

101 ft. 2012 ARCTIC CIRCLE AIR SERVICES - 2001 BETHEL AIRPORT,

2011 ARCTIC CIRCLE AIR SERVICES - 2001 BETHEL AIRPORT, ARCTIC CIRCLE AIR SERVICES - 2001 2010 BETHEL AIRPORT, ARCTIC CIRCLE AIR SERVICES - 2001 BETHEL AIRPORT, 2009

A11 SEAGULL AIR SERVICE INC. RGA LUST S116471932 N/A

**LOT 1 BLOCK 7, BETHEL AIRPORT Target** 

**Property** BETHEL, AK

Site 11 of 35 in cluster A

Actual: RGA LUST:

101 ft. SEAGULL AIR SERVICE INC. LOT 1 BLOCK 7, BETHEL AIRPORT 1999

A12 **ARCTIC CIRCLE AIR SERVICES - 1994 RGA LUST** S116464646 **Target** BETHEL AIRPORT; P. O. BOX 907, N/A

BETHEL, AK **Property** 

Site 12 of 35 in cluster A

Actual: RGA LUST:

101 ft. 2012 ARCTIC CIRCLE AIR SERVICES - 1994 BETHEL AIRPORT; P. O.

BOX 907.

2011 ARCTIC CIRCLE AIR SERVICES - 1994 BETHEL AIRPORT; P. O.

BOX 907,

2010 ARCTIC CIRCLE AIR SERVICES - 1994 BETHEL AIRPORT; P. O.

BOX 907,

2009 ARCTIC CIRCLE AIR SERVICES - 1994 BETHEL AIRPORT; P. O.

BOX 907.

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

A13 **ROBAIR REPAIR** RGA LUST S116471810 N/A

3241 NORTH RAMP, BETHEL AIRPORT **Target** 

**Property BETHEL, AK** 

Site 13 of 35 in cluster A

Actual: RGA LUST:

101 ft. 1999 ROBAIR REPAIR 3241 NORTH RAMP, BETHEL AIRPORT

**ARCTIC CIRCLE AIR SERVICES - 1994** A14 RGA LUST S116464647

**BETHEL AIRPORT; P. O. BOX 907 Target** 

**Property BETHEL, AK** 

Site 14 of 35 in cluster A

Actual: RGA LUST:

101 ft.

2008 ARCTIC CIRCLE AIR SERVICES - 1994 BETHEL AIRPORT; P. O.

**BOX 907** 

2007 ARCTIC CIRCLE AIR SERVICES - 1994 BETHEL AIRPORT; P. O.

**BOX 907** 

2006 ARCTIC CIRCLE AIR SERVICES - 1994 BETHEL AIRPORT; P. O.

**BOX 907** 

ARCTIC CIRCLE AIR SERVICES - 1994 2005 BETHEL AIRPORT; P. O.

**BOX 907** 

2004 ARCTIC CIRCLE AIR SERVICES - 1994 BETHEL AIRPORT; P. O.

**BOX 907** 

A15 RGA LUST S116465321 **CAMAI AIR - BETHEL Target BETHEL REGIONAL AIRPORT BLDG 3594** N/A

**Property** BETHEL, AK

Site 15 of 35 in cluster A

Actual: RGA LUST:

101 ft. BETHEL REGIONAL AIRPORT BLDG 3594 2008 CAMAI AIR - BETHEL 2007 CAMAI AIR - BETHEL BETHEL REGIONAL AIRPORT BLDG 3594

BETHEL REGIONAL AIRPORT BLDG 3594 2006 CAMAI AIR - BETHEL BETHEL REGIONAL AIRPORT BLDG 3594 2005 CAMAI AIR - BETHEL 2004 CAMAI AIR - BETHEL BETHEL REGIONAL AIRPORT BLDG 3594 2003 BETHEL REGIONAL AIRPORT BLDG 3594 CAMAI AIR - BETHEL 2002 CAMAI AIR - BETHEL BETHEL REGIONAL AIRPORT BLDG 3594 BETHEL REGIONAL AIRPORT BLDG 3594 2001 CAMAI AIR - BETHEL

A16 **BETHEL NG, MAINTENANCE SHOP & AV AAOF RGA LUST** S116465059 **Target BETHEL AIRPORT HANGAR AAOF** 

**Property** BETHEL, AK

Site 16 of 35 in cluster A

Actual: **RGA LUST:** 

101 ft. 1999 BETHEL NG, MAINTENANCE SHOP & AV AAOF BETHEL AIRPORT

HANGAR AAOF

N/A

Direction Distance

Distance EDR ID Number
Elevation Site EPA ID Number

A17 ARCTIC CIRCLE AIR SERVICES - 2001 RGA LUST S116464649

Target BETHEL AIRPORT N/A

Property BETHEL, AK

Site 17 of 35 in cluster A

Actual: RGA LUST:

**101 ft.** 2008 ARCTIC CIRCLE AIR SERVICES - 2001 BETHEL AIRPORT

2007 ARCTIC CIRCLE AIR SERVICES - 2001 BETHEL AIRPORT 2006 ARCTIC CIRCLE AIR SERVICES - 2001 BETHEL AIRPORT 2005 ARCTIC CIRCLE AIR SERVICES - 2001 BETHEL AIRPORT 2004 ARCTIC CIRCLE AIR SERVICES - 2001 BETHEL AIRPORT

A18 USFWS - YUKON DELTA NWR HANGER RGA LUST S116473549

Target BETHEL AIRPORT N/A

Property BETHEL, AK

Site 18 of 35 in cluster A

Actual: RGA LUST:

101 ft. 2004 USFWS - YUKON DELTA NWR HANGER BETHEL AIRPORT

2003 USFWS - YUKON DELTA NWR HANGER BETHEL AIRPORT
 2002 USFWS - YUKON DELTA NWR HANGER BETHEL AIRPORT
 2001 USFWS - YUKON DELTA NWR HANGER BETHEL AIRPORT
 2000 USFWS - YUKON DELTA NWR HANGER BETHEL AIRPORT

A19 AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY N RGA LUST S116464054

Target BETHEL AIRPORT AAOF LOT # 9 & 10 OF BLOCK 4

Property BETHEL, AK

Site 19 of 35 in cluster A

Actual: RGA LUST:

**101 ft.** 2000 AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY NATIONAL

GUARD ARMORY BETHEL AIRPORT AAOF LOT # 9 & 10 OF BLOCK 4

A20 ARCTIC CIRCLE AIR BETHEL FACILITY RGA LUST S116464645

Target BETHEL AIRPORT; P. O. BOX 907

Property BETHEL, AK

Site 20 of 35 in cluster A

Actual: RGA LUST:

101 ft. 2000 ARCTIC CIRCLE AIR BETHEL FACILITY BETHEL AIRPORT; P. O.

BOX 907

A21 AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY N RGA LUST S116464056

Target BETHEL AIRPORT AAOF; LOT # 9 & 10 OF BLOCK 4

Property BETHEL, AK

Site 21 of 35 in cluster A

Actual: RGA LUST:

**101 ft.** 2007 AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY NATIONAL

GUARD ARMORY BETHEL AIRPORT AAOF; LOT # 9 & 10 OF BLOCK 4
2006 AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY NATIONAL
GUARD ARMORY BETHEL AIRPORT AAOF; LOT # 9 & 10 OF BLOCK 4
2005 AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY NATIONAL
GUARD ARMORY BETHEL AIRPORT AAOF; LOT # 9 & 10 OF BLOCK 4

N/A

N/A

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY NATIONAL GU (Continued)

S116464056

AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY NATIONAL GUARD ARMORY BETHEL AIRPORT AAOF; LOT # 9 & 10 OF BLOCK 4

A22 AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY N **RGA LUST S116464055** 

N/A

BETHEL AIRPORT AAOF LOT #9 & 10 OF BLOCK 4 **Target** 

Property BETHEL, AK

Site 22 of 35 in cluster A

Actual: 101 ft.

RGA LUST:

AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY NATIONAL GUARD ARMORY BETHEL AIRPORT AAOF LOT # 9 & 10 OF BLOCK 4 AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY NATIONAL GUARD ARMORY BETHEL AIRPORT AAOF LOT # 9 & 10 OF BLOCK 4 AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY NATIONAL

GUARD ARMORY BETHEL AIRPORT AAOF LOT # 9 & 10 OF BLOCK 4

A23 ADOT&PF BETHEL MAINTENANCE FACILITY **BETHEL Target** 

**RGA LUST** S116463500

N/A

N/A

**BETHEL, AK Property** 

Site 23 of 35 in cluster A

Actual: 101 ft.

**RGA LUST:** 

2008 ADOT&PF BETHEL MAINTENANCE FACILITY **BETHEL** 

2007 ADOT&PF BETHEL MAINTENANCE FACILITY **BETHEL** 2006 ADOT&PF BETHEL MAINTENANCE FACILITY **BETHEL** 

A24 **ADOTPF - MAINTENANCE BETHEL RGA LUST S116463648** Target **BETHEL** 

**Property** BETHEL, AK

Site 24 of 35 in cluster A

101 ft.

RGA LUST:

Actual:

2005 ADOTPF - MAINTENANCE BETHEL 2004 ADOTPF - MAINTENANCE BETHEL **BETHEL** 2003 ADOTPF - MAINTENANCE BETHEL **BETHEL** ADOTPF - MAINTENANCE BETHEL 2002 **BETHEL** ADOTPF - MAINTENANCE BETHEL 2001 **BETHEL** 2000 ADOTPF - MAINTENANCE BETHEL **BETHEL** 

A25 ARCTIC CIRCLE AIR BETHEL FACILITY **Target** 

**BETHEL AIRPORT P. O. BOX 907** 

**Property** BETHEL, AK RGA LUST S116464644

N/A

Site 25 of 35 in cluster A

Actual: 101 ft.

RGA LUST:

ARCTIC CIRCLE AIR BETHEL FACILITY BETHEL AIRPORT P. O.

**BOX 907** 

2002 ARCTIC CIRCLE AIR BETHEL FACILITY BETHEL AIRPORT P. O.

**BOX 907** 

ARCTIC CIRCLE AIR BETHEL FACILITY 2001 BETHEL AIRPORT P. O.

ARCTIC CIRCLE AIR BETHEL FACILITY BETHEL AIRPORT P. O.

**BOX 907** 

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

A26 **AKANG - HANGER FACILITY RGA LUST** S116464066

**Target** BETHEL AIRPORT LOT #9 & 10 OF BLOCK 4

BETHEL, AK **Property** 

Site 26 of 35 in cluster A

Actual: RGA LUST:

101 ft. AKANG - HANGER FACILITY BETHEL AIRPORT LOT # 9 & 10 OF 1998

BLOCK 4

ADOT&PF BETHEL MAINTENANCE FACILITY **A27** RGA LUST S116463499

BETHEL, AK **Property** 

BETHEL,

Site 27 of 35 in cluster A

Actual:

**Target** 

RGA LUST:

101 ft. 2012 ADOT&PF BETHEL MAINTENANCE FACILITY BETHEL,

2011 ADOT&PF BETHEL MAINTENANCE FACILITY BETHEL, 2010 ADOT&PF BETHEL MAINTENANCE FACILITY BETHEL, 2009 ADOT&PF BETHEL MAINTENANCE FACILITY BETHEL,

**NELSON ISLAND AIR SERVICE INC** A28 **EDR Hist Auto** 1020418233

**Target BETHEL AIRPORT** N/A

**BETHEL, AK 99559 Property** 

Site 28 of 35 in cluster A

Actual: 101 ft.

**EDR Hist Auto** 

Year: Name: Type: 1982 NELSON ISLAND AIR SERVICE INC Not reported

A29 BETHEL, BETHEL ARMY AVIATION OPERATIONS FACILITY A SPILLS S110245572 N/A

**Target BETHEL AIRPORT BETHEL, AK 99559 Property** 

Site 29 of 35 in cluster A

SPILLS: Actual:

101 ft. Facility ID: 10279900702 Facility Type: Other

> Facilty Subject Type: Not reported Region: Lower Kuskokwim

Spill ID: 35306

Spill Name: 2 gal diesel spill Bethel AAOF.

Spill Date: 01/07/2010 Case Closed: 02/04/2010 Substance ID: Noncrude Oil Substance Subject Type: Diesel

Substance Area: Western Alaska Area Name: Central Alaska

Quantity Released: 2

Quantity Potential: Not reported Unit: Gallons Cause: Human Error Cause Type: **Human Factors** 

ALASKA ARMY NATIONAL GUARD - NO ENTRY, NO ENTRY Responsible Party:

Response: Phone Follow-up N/A

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

#### BETHEL, BETHEL ARMY AVIATION OPERATIONS FACILITY A (Continued)

Not reported

S110245572

Source Type: Tank, Other, Aboveground

Longitude: Not reported 10279900702 Facility ID: Facility Type: Other Facilty Subject Type: Not reported Region: Lower Kuskokwim

Spill ID: 35306

Latitude:

Spill Name: 2 gal diesel spill Bethel AAOF.

Spill Date: 01/07/2010 Case Closed: 02/04/2010 Substance ID: Noncrude Oil Substance Subject Type: Diesel

Substance Area: Western Alaska Area Name: Central Alaska

Quantity Released:

Quantity Potential: Not reported Unit: Gallons Cause: Overfill Cause Type: **Human Factors** 

Responsible Party: ALASKA ARMY NATIONAL GUARD - NO ENTRY, NO ENTRY

Response: Phone Follow-up

Source Type: Tank, Other, Aboveground

Latitude: Not reported Longitude: Not reported

**ERNS** A30 2017181027

N/A

**BETHEL AIRPORTS Target Property** BETHEL, AK

Site 30 of 35 in cluster A

Actual: 101 ft.

**Incident Commons:** 

NRC Report #: 1181027

> Description of Incident: CALLER IS REPORTING THAT ALASKA AIRLINE FLIGHT AS46 WAS PREPARING FOR

> > DEPARTURE AT BETHEL, AK WHEN A PASSENGERS CARRY ON LUGGAGE BEGAN SMOKING DUE TO THE LITHIUM ION BATTERY IN AN E-CIGERETTE OVERHEATING.

**AIRCRAFT** 

Type of Incident: Incident Cause: **EQUIPMENT FAILURE** Incident Date Time: 2017-06-12 22:36:00

Incident DTG: **OCCURRED** Incident Location: Not reported

Loaction Address: **BETHEL AIRPORTS** Location Street 1: Not reported

Location Street 2: Not reported **BETHEL** Location Nearest City: Location State: AK **BETHEL** Location County: Not reported Location Zip: Distance From City: Not reported Not reported Distance Units: Direction From City: Not reported Lat Deg: Not reported Lat Min: Not reported Lat Sec: Not reported Not reported Lat Quad: Not reported Long Deg:

Direction Distance Elevation

ration Site Database(s) EPA ID Number

(Continued) 2017181027

Long Min:

Long Sec:

Not reported

Long Quad:

Not reported

Not reported

Location Section:

Location Township:

Location range:

Potential Range:

Not reported

Y

Incidents:

NRC Report #: 1181027 Aircraft Type: COMMERCIAL Aircraft Model: Not reported Aircraft ID: AS46 Aircraft Fuel Capacity: Not reported Aircraft Fuel Capacity Units: Not reported Aircraft Fuel on Board: Not reported Aircraft Fuel on Board Units: Not reported Aircraft Spot Number: Not reported Aircraft Hanger: Not reported Aircraft Runway Number: Not reported Road Mile Marker: Not reported Building ID: Not reported Type of Fixed Object: Not reported

Power Generating Facility: U

Generating Capacity: Not reported Type of Fuel: Not reported NPDES: Not reported

NPDES Compliance: U

Pipeline Type: Not reported

DOT Regulated: U
Pipeline Above Ground: ABOVE
Exposed Underwater: N
Pipeline Covered: U

Railroad Hotline: Not reported

Grade Crossing: U

Location Subdivision:

Railroad Milepost:

Type Vehicle Involved:

Crossing Device Type:

Not reported

Not reported

Not reported

Device Operational: U
DOT Crossing Number: Not reported

Brake Failure:

Description of Tank:

Tank Above Ground:

Transportable Container:

Tank Regulated:

Not reported
ABOVE
U

U

U

Tank Regulated By: Not reported Tank ID: Not reported Capacity of Tank: Not reported Capacity of Tank Units: Not reported Actual Amount: Not reported **Actual Amount Units:** Not reported Platform Rig Name: Not reported Not reported Platform Letter: Not reported Location Area ID: Location Block ID: Not reported OCSG Number: Not reported OCSP Number: Not reported

MAP FINDINGS Map ID

Direction Distance Elevation

Site Database(s) **EPA ID Number** 

(Continued) 2017181027

State Lease Number: Not reported Pier Dock Number: Not reported Not reported Berth Slip Number: Not reported Continuous Release Type: Initial Continuous Release No: Not reported Continuous Release Permit: Not reported Allision:

Type of Structure: Not reported Structure Name: Not reported

Structure Operational: Airbag Deployed: U

Date Tiem Normal Service: Not reported Service Disruption Time: Not reported Service Disruption Units: Not reported Transit Bus Flag: Not reported CR Begin Date: Not reported CR End Date: Not reported CR Change Date: Not reported FBI Contact: Not reported FBI Contact Date Time: Not reported

Sub Part C Testing Req: XXX

Conductor Testing: Not reported Engineer Testing: Not reported Trainman Testing: Not reported Yard Foreman Testing: Not reported **RCL Operator Testing:** Not reported Brakeman Testing: Not reported Train Dispatcher Testing: Not reported Signalman Testing: Not reported Other Employee Testing: Not reported Unknown Testing: Not reported Passenger Handling: Not reported

Passenger Route: XXX Passenger Delay: XXX

Incident Details:

NRC Report #: 1181027 Fire Involved: Fire Extinguished: Υ Any Evacuations: Ν

Number Evacuated: Not reported Who Evacuated: Not reported Radius of Evacuation: Not reported

Any Injuries:

Not reported Number Injured: Number Hospitalized: Not reported

Any Fatalities:

Not reported Number Fatalities:

Any Damages: Ν

Damage Amount: Not reported

Air Corridor Closed: Ν

Air Corridor Desc: Not reported Air Closure Time: Not reported

Waterway Closed:

Waterway Desc: Not reported Waterway Closure Time: Not reported

Road Closed: Ν

Direction Distance

Elevation Site Database(s) EPA ID Number

(Continued) 2017181027

Road Desc: Not reported Road Closure Time: Not reported Closure Direction: Not reported

Major Artery: N Track Closed: N

Track Desc: Not reported
Track Closure Time: Not reported
Media Interest: UNKNOWN
Medium Desc: AIR

Additional Medium Info: LITHIUM BATTERY SMOLDERING

Body of Water: Not reported Tributary of: Not reported

Release Secured: U
Estimated Duration of Release: Not reported
Release rate: Not reported

Desc Remedial Action: E-CIGERETTE WAS PLACED IN FIRE BAG AND REMOVED FROM AIRCRAFT.

State Agency on Scene: Not reported State Agency Report Number: Not reported Other Agency Notified: Not reported Weather Conditions: Not reported Air Temperature: Not reported Wind Speed: Not reported Wind Direction: Not reported Water Supply Contaminated: II

Water Supply Contaminated: U Sheen Size: Not reported Sheen Color: Not reported Direction of Sheen Travel: Not reported Sheen Odor Description: Not reported Wave Condition: Not reported Not reported Current Speed: Current Direction: Not reported Water Temperature: Not reported Track Close Dir: Not reported **Empl Fatality:** Not reported Pass Fatality: Not reported Community Impact: Not reported Wind Speed Unit: Not reported Employee Injuries: Not reported Passenger Injuries: Not reported Occupant Fatality: Not reported

**Current Speed Unit:** Not reported Road Closure Units: Not reported Track CLosure Units: Not reported Sheen Size Units: Not reported Not reported Additional Info: LOCAL POLICE State Agency Notified: Federal Agency Notified: Not reported nearest River Mile Marker: Not reported Sheen Size Length: Not reported Sheen Size Length Units: Not reported Sheen Size Width: Not reported Sheen Size Width Units: Not reported Offshore:

Duration Unit:
Release Rate Unit:
Release Rate Rate:
Not reported
Not reported
Not reported
Not reported

Passengers Transferred: NO

Direction Distance

Elevation Site Database(s) EPA ID Number

(Continued) 2017181027

Calls:

 NRC Report #:
 1181027

 Site ID:
 20171181027

 Date Time Received:
 2017-06-13 11:38:52

 Date Time Complete:
 2017-06-13 11:46:56

Call Type: INC

Responsible Company:
Responsible Org Type:
UNKNOWN
Responsible City:
Responsible State:
XX
Responsible Zip:
Not reported
On Behalf:
Not reported
Source:
TELEPHONE

Material Involved:

NRC Report #: 1181027 Chris Code: LTM

Case Number: 000000-00-0 UN Number: Not reported

Amount of Material: 0

Unit of Measure: UNKNOWN AMOUNT Name of Material: LITHIUM ION BATTERY

If Reached Water: NO
Amount in Water: Not reported
Unit of Measure Reach Water: Not reported

A31 YUTE AIR BANKRUPTCY PROPERTIES

Target FISHER HANGAR LOT 4 BLOCK 11 BETHEL AIRPORT

Property BETHEL, AK 99559

Site 31 of 35 in cluster A

Actual: LUST:

**101 ft.** Facility Name: YUTE AIR BANKRUPTCY PROPERTIES

Facility Status: Cleanup Complete
Record Key: 2000250029101
File ID: 2407.26.012

Oname: Yute Bankruptcy Trustee Lat/Lon: 60.78563 -161.8356

Lust Event ID: 2867
CS or Lust: LUST
Borough: Bethel

Staff: No Longer Assigned

Site Type: Unknown Horizontal Datum: WGS84 LUST S109261041

N/A

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

A32 **CAMAI AIR - BETHEL** SHWS S109256702 N/A

**BETHEL REGIONAL AIRPORT BLDG 3594 Target BETHEL, AK 99559 Property** 

Site 32 of 35 in cluster A

Actual: SHWS: 101 ft.

File Number: 2407.26.005 Staff: Not reported Cleanup Complete Facility Status: 60.782727 Latitude: Longitude: -161.843727 Hazard ID: 24882 Problem: Not reported

Actions:

Action Date: 9/8/1998

Underground Storage Tank Site Characterization or Assessment Action:

DEC Staff: Donald Seagren

Action Description: UST Closure report submitted. Soil contamination, exceeding ADEC

cleanup standards, discovered during UST removal.

Action Date: 9/24/1999

Update or Other Action Action: DEC Staff: Donald Seagren

Action Description: Approval to transport 15yds3 of petroleum contaminated soil approved

> by Paul Horwath. Field screening &/or site assessment required under and around stockpile area after removal. Reprot to be submitted by

qualified thrid party.

Action Date: 9/16/1999

Action: Update or Other Action DEC Staff: Donald Seagren

Action Description: Request to transport approximately 15 yds3 of DRO contaminted soil

off-site to Old Indian Health Service Hospital for thermal treatment.

Treated soil will be used for fill at the hospital site.

Action Date: 9/10/1998

Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum

DEC Staff: Monica English

Action Description: A 1000-gallon and a 500-gallon avgas UST closed. Approximately 15

cubic yards hydrocarbon impacted soil stockpiled on site.

Action Date: 9/10/1998

Site Added to Database Action:

DEC Staff: \* Not Assigned Action Description: Not reported

Action Date: 7/19/1999

Action: Update or Other Action DEC Staff: Donald Seagren

Letter to the City of Bethel requesting information on groundwater Action Description:

use in the vicinity of the facility.

Action Date: 7/15/1998

Update or Other Action Action: DEC Staff: Donald Seagren

Action Description: Waiver of the 15 day notification period for closure of 2 USTs

located at the Village Aviation facility in Bethel, Alaska granted by

Tim Stevens.

Distance

Elevation Site Database(s) EPA ID Number

#### **CAMAI AIR - BETHEL (Continued)**

S109256702

**EDR ID Number** 

Action Date: 6/17/2008

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: Site transferred from Don Seagren to Paul Horwath per Linda

Nuechterlein.

Action Date: 5/23/2000

Action: Update or Other Action
DEC Staff: Donald Seagren

Action Description: Request received from Restoration Science to transport 15 yds3 to ASR

in Anchorge for thermal remediation. Request approved by Paul Horwath

on 26 May 00.

Action Date: 2/8/2017

Action: Update or Other Action

DEC Staff: Paul Horwath

Action Description: Attach ADEC's January 7, 2005 closure decision letter to this

database, for public access and availability, while responding to a

public records request.

Action Date: 12/2/2004

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: File number 2407.26.005 assigned and entered into the Fileroom

database and Leaking Underground Storage Tank database.

Action Date: 10/27/1999

Action: Update or Other Action
DEC Staff: Donald Seagren

Action Description: Approval for off-site transport and thermal treatment of contaminated

soil recinded due to treatment facility being approved to receive soils from only two specific sites. The treatment facility operating

plan would need to be revised.

Action Date: 10/23/2000

Action: Site Closure Approved DEC Staff: Donald Seagren

Action Description: The post treatment samples from ASR-Anchorage demonstrate successful

remediation of the excavated contaminated soil, completing cleanup

and remediation of this site. No further rremedial actions are

required.

Action Date: 10/23/2000

Action: Update or Other Action
DEC Staff: Donald Seagren

Action Description: Post treatment analytical data received from Alaska Soil Recycling -

Anchorge showing all contaminant levels to be below ADEc Method 2,

Table B cleanup standards.

Action Date: 1/7/2005

Action: Update or Other Action
DEC Staff: Donald Seagren

Action Description: After review of report/file and data, site closure letter issued.

Direction Distance

Elevation Site Database(s) EPA ID Number

A33 ARCTIC CIRCLE AIR SERVICES - 1994 SHWS S109255835
Target BETHEL AIRPORT; P. O. BOX 907 LUST N/A

Property BETHEL, AK 99559

Site 33 of 35 in cluster A

Actual: SHWS: 101 ft. File !

 File Number:
 2407.26.001

 Staff:
 Not reported

 Facility Status:
 Cleanup Complete

 Latitude:
 60.790176

 Longitude:
 -161.832068

 Hazard ID:
 23550

Problem: Registered tank 1 (conflicting size references, 980 or 2,000 gal.).

Contamination probably due to cumulative overfills/spill incidents by

the fueler. A 300 s.f. area affected. Stockpile sampling due in spring 1995 and a final disposition will be submitted for the department's approval. Had LC 14815560 at one time. Last staff assigned were Krogseng, Dronenburg, and Last staff assigned was

English. English.

Actions:

Action Date: 9/29/1995

Action: Release Investigation
DEC Staff: \* Not Assigned

Action Description: RELR; Reviewed site assessment at request of ADOT&PF.

Action Date: 9/24/1994

Action: Site Added to Database

DEC Staff: \* Not Assigned
Action Description: Not reported

Action Date: 8/15/1995

Action: Update or Other Action
DEC Staff: \* Not Assigned

Action Description: UPD; Per conversations with Krogseng and Dronenburg. Site closed for

all intents and purposes of ADEC. Private remediation company in area supposedly took stockpile for bioremediation study. No sampling results for cleanup level A submitted, as requested by ADOT&PF.

Action Date: 12/1/2004

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: File number 2407.26.001 assigned and entered into the Fileroom

database and Leaking Undergound Storage Tank database.

Action Date: 10/11/1994

Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum

DEC Staff: \* Not Assigned

Action Description: LCAU; Remedial action underway.

Action Date: 1/24/1997

Action: Site Closure Approved DEC Staff: \* Not Assigned

Action Description: CLOS; Released the soils stockpiled from this incident. Site

closed.:CLOS Date changed DB conversion

Action Date: 1/23/1997

Action: Update or Other Action
DEC Staff: \* Not Assigned

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

# ARCTIC CIRCLE AIR SERVICES - 1994 (Continued)

S109255835

Action Description: UPD; Departmental staff reviewed the file and rescinded the 1/21/1997

> letter to RP requesting that new stockpile confirmation sampling occur or return stockpile to origianl site for landspreading. A letter was sent by Dronenburg 9/29/1995 to the RP releasing the RP of

further treatment of the stockpile and closing the site.

Action Date: 1/21/1997

Update or Other Action Action: DEC Staff: \* Not Assigned

Action Description: UPD; Departmental staff composed a letter to the RP requesting that

either the contaminated stockpile be taken back to the original site

for landspreading in the area of the former tank system or confirmation sampling because the stockpile was removed off-site causing cleanup level to change from C to A. A 12/1994 SA/RI report indicated two of the samples exceeded cleanup level A of 50 ppm GRO

(76 & 139 mg/kg).

Action Date: 1/12/1995

Action: Leaking Underground Storage Tank Corrective Action Underway

DEC Staff: \* Not Assigned

Action Description: LCAR; Reviewed a corrective action report prepared by Environemntal

Services, Ltd.

Action Date: 1/12/1995

Action: Leaking Underground Storage Tank Corrective Action Underway

DEC Staff: \* Not Assigned

Action Description: RAPA; Based on the 12/16/94 UST Closure Report and previous site

> reports, no further action for the UST release is required by ADEC. However, site closure is pending stockpiled soil sampling due spring

'95 and levels below level A cleanup standards required.

LUST:

ARCTIC CIRCLE AIR SERVICES - 1994 Facility Name:

Facility Status: Cleanup Complete Record Key: 1994250026701 File ID: 2407.26.001

Oname: Arctic Circle Air (formerly Seag

60.79017 -161.8320 Lat/Lon:

Lust Event ID: 834 CS or Lust: LUST Borough: Bethel

Staff: No Longer Assigned

Site Type: Unknown Horizontal Datum: WGS84

YUTE AIR BANKRUPTCY PROPERTIES

FISHER HANGAR LOT 4 BLOCK 11, BETHEL AIRPORT

**BETHEL, AK 99559 Property** 

Site 34 of 35 in cluster A

Actual: SHWS:

A34

**Target** 

101 ft. File Number: 2407.26.012 Staff: Not reported

Facility Status: Cleanup Complete 60.785631 Latitude:

SHWS S109255581

Direction Distance

Elevation Site Database(s) EPA ID Number

# YUTE AIR BANKRUPTCY PROPERTIES (Continued)

S109255581

**EDR ID Number** 

Longitude: -161.835646 Hazard ID: 23088

Problem: Historic hydrocarbon releases from:an avgas above-ground storage

tank, buried product pipeline, and dispenser, two heating oil ASTs

and two agvas underground storage tanks.

Actions:

Action Date: 8/2/2002

Action: Update or Other Action
DEC Staff: Donald Seagren

Action Description: Reviewed confirmation sampling report for treatment cells 1 & 2. They

met Method @ MTGW cleanup standards. Closure of these two treatment

cells approved..

Action Date: 6/13/2008

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: Site transferred from Don Seagren to Paul Horwath per Linda

Nuechterlein.

Action Date: 5/29/2002

Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum

DEC Staff: Donald Seagren

Action Description: 16 August 00,UST Closure Sampling workplan reviewed and approved by

Paul Horwath

Action Date: 5/29/2002

Action: Update or Other Action
DEC Staff: Donald Seagren

Action Description: Soil remediation status report reviewed and proposed changes to work

plan given conditional approval.

Action Date: 5/29/2002

Action: Underground Storage Tank Site Characterization or Assessment

DEC Staff: Donald Seagren

Action Description: Site Assessment and Remediation Report reviewed and accepted. No

further assessment or remediation required. Contaminated soil in long

term storage for remediation.

Action Date: 5/29/2002

Action: Leaking Underground Storage Tank Corrective Action Underway

DEC Staff: Donald Seagren

Action Description: Corrective action plan reviewed and approved by Paul Horwath on 24

May 01.

Action Date: 5/28/2002

Action: Site Added to Database

DEC Staff: \* Not Assigned Action Description: Not reported

Action Date: 2/7/2017

Action: Update or Other Action

DEC Staff: Paul Horwath

Action Description: Attach closure decision document to this database for public

accessibility.

Action Date: 2/3/2003

Action: Underground Storage Tank Site Characterization or Assessment

Direction Distance

Distance EDR ID Number
Elevation Site EPA ID Number

#### YUTE AIR BANKRUPTCY PROPERTIES (Continued)

S109255581

DEC Staff: Donald Seagren

Action Description: Reviewed analytical results from sampling of treatment cells 3,4 & 5.

All data below ADEC Method 2 migration to groundwater cleanup levels. Approval tt dispose fo soils in non-wetlands, non-environmentally

sensitive areas.

Action Date: 2/3/2003

Action: Site Closure Approved DEC Staff: Donald Seagren

Action Description: All cleanup requirements have been met. No further remedial actions

required. Site closure approved.

Action Date: 12/15/2004

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: File number 2407.26.012 assigned and entered into the Fileroom

database and Leaking Underground Storage Tank database.

A35 ERA AVIATION BETHEL AIRPORT FAC.
Target BETHEL AIRPORT, LOT 2B, BLOCK 4

Property BETHEL, AK 99559

SHWS S107504763 NG CONTROLS N/A

ENG CONTROLS N/
INST CONTROL

Site 35 of 35 in cluster A

Actual: SHWS:

**101 ft.** File Number:

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov Facility Status: Cleanup Complete - Institutional Controls

Latitude: 60.786110 Longitude: -161.839484 Hazard ID: 2465

Problem: On August 10, 1995 a contractor reported numerous drums

2407.38.012

(approximately 109) containing used oil with soil surface staining visible. Site assessment revealed maximum concentrations of gasoline range organics (GRO) at 1,388 parts per million (ppm), diesel range organics (DRO) at 9,350 ppm, and total petroleum hydrocarbons (TPH) at 43,000 ppm. Approximately 150 to 400 cubic yards of soil is

impacted. A further investigation to look at potential for gasoline contamination is suggested but won't happen until summer 1996.

Actions:

Action Date: 8/31/2012

Action: Final Cleanup Report Reviewed

DEC Staff: Alyce Hughey

Action Description: Paul Horwath reviewed the September 2011 Biocell Sampling Report,

dated November 2011 prepared by BGES, and issued approval for the soils within the biocell to spread across the north-northeast portion of the subject property, within the fenced area, for permanent disposal. The 20 mil base and cover liners should be properly disposed as solid waste, unless salvaged for beneficial re-use. Several digital photos of the biocell during and after land spreading must be provided to our office for purposes of documenting the final

disposal of the biocell soils onsite.

Action Date: 7/9/2008

Action: Report or Workplan Review - Other

DEC Staff: Paul Horwath

Distance

Elevation Site Database(s) EPA ID Number

# **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

Action Description: Reviewed the D&G Maintenance Facility Corrective Action Work Plan,

Alaska Department of Transportation Lease ADA-4321,dated June 12, 2008 and provided some comments and questions regarding the proposed

Corrective Action Work Plan.

Action Date: 6/1/2006

Action: Update or Other Action
DEC Staff: Alyce Hughey

Action Description: Project manager changed to Monica English, per Paul Horwath.

Action Date: 6/1/2006

Action: GIS Position Updated DEC Staff: Alyce Hughey

Action Description: Using Figure 1 from a Site Assessment and Hazardous Material

Management Activities, Lot 5, Block 6, ADOT Lease Property ADA-4321, from Restoration Science & Engineering, dated December 1995, in conjunction with TopoZone Pro, entered the coordinates for this site. Metadata includes USGS Topo Map 1:24/25K, TopoZone Pro Street Maps, on a Medium Size Map, View Scale 1:25,000, Coordinate Datum NAD83.

Moderate degree of confidence in accuracy of location.

Action Date: 5/21/2007

Action: Site Characterization Workplan Approved

DEC Staff: Paul Horwath

Action Description: Approved the May 6, 2007 D&G Maintenance Facility Additional Site

Characterization Work Plan, from BGES, Inc. The objective of the site

characterization work plan is to delineate the vertical and horizontal extent of any impacted soils that might remain on site in the area of the former drum storage area, and the vicinity of a former above-ground storage tank that contained aviation fuel.

Action Date: 5/14/2008

Action: Update or Other Action

DEC Staff: Paul Horwath

Action Description: Reviewed BGES, Inc.'s ADDITIONAL SITE CHARACTERIZATION REPORT, dated

April 2008. Report identified Av-gas contaminated soil and petroleum contaminated soil from former drum storage on this ADOT owned airport

lease lot. DRO concentrations of 265 to 11,600 mg/kg, GRO

concentrations of 600 to 33,600 mg/kg, RRo concentrations of 18,400 mg/kg, and Pentachlorophenol at concentrations of 272 mg/kg were detected from depths of 2 to 8 feet below ground surface. The contamination in the southwestern area may extend laterally beyond the property boundary and should be examined closely during field remediation efforts. It was estimated that approximately 700 cubic yards of impacted soils are located in the former AST area and to the southwest of the subject property, and approximately 500 cubic yards of impacted soils are located in the former drum storage area. An e-mail response was issued to Dave Lefner and BGES, providing ADEC

e-mail response was issued to Dave Lefner and BGES, providing ADEC comments and noting that additional comments may follow upon ADEC's receipt of a work plan for additional assessment and cleanup work at

this site.

Action Date: 5/12/2006

Action: Update or Other Action DEC Staff: Aggie Blandford

Action Description: Site transferred from Frechione to Horwath.

MAP FINDINGS Map ID Direction

Distance Elevation

**EPA ID Number** Site Database(s)

# **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

Action Date: 5/11/2017

Institutional Control Compliance Review Action:

Kristin Thompson DEC Staff:

Action Description: IC compliance review conducted. ICs Verification letter issued.

Reminder system set for future follow-ups to occur every three years.

Action Date: 4/29/1996

Action: Site Ranked Using the AHRM

DEC Staff: S&W

Action Description: Ranked by Shannon and Wilson.

Action Date: 4/22/1996

Action: Site Ranked Using the AHRM

DEC Staff: Bill Wright

Action Description: Site ranked. Score = 51.

Action Date: 3/9/2011

Action: Exposure Tracking Model Ranking

DEC Staff: Alyce Hughey

Action Description: A new updated ranking with ETM has been completed for source area

73442 ADOT Lease Lot.

Action Date: 3/8/2011

Action: Report or Workplan Review - Other

DEC Staff: Alyce Hughey

Action Description: Reviewed the Corrective Action Report, dated December 2010, from

BGES, Inc for Paul Horwath. During the June 23, 2009 site characterization activities additional soil samples were collected and analyzed for lead to verify whether or not the contaminated soils should be considered non-hazardous or hazardous waste, and it was

determined to be non-hazardous. Also, during these site

characterization activities, the approximate area of PCP-impacted soils was identified by sampling the soils around the PCP impacted soils. On August 31 through September 3, 2009 the corrective action measures were performed. The work included the excavation of the impacted soils, placing the impacted soil into a covered biocell, and

capping the area of PCP contamination with a concrete pad. Approximately 240 cubic yards of impacted soil in the areas of the former 10,000-gallon aviation fuel AST and the former drum storage area were excavated and placed into a constructed biocell on site. The soil samples taken from the excavation indicated that the contamination had been successfully removed from the area of the 10,000-gallon aviation fuel AST and the former drum storage area. The concrete pad covering the PCP contaminated soil was an eight foot by ten foot by one foot thick rebar-reinforced concrete pad that was placed over the PCP impacted soils. The biocell construction included spreading approximately 1.5 feet of soil across a 20-mil liner, application of ArcticGro fertilizer (16 nitrogen, 16 phosphorus and

16 potash), then six 4-inch diameter polyethylene pipes were placed 10 feet apart across the soils with the two rows of 0.5 inch diameter perforations placed face down. The southern edge was connected with piping and connected with a Radon Away RP145 blower, and the northern ends of the pipes were capped and covered with soil. After the pipes were placed approximately 1.5 feet of additional contaminated soil was placed on top with an additional application of ArcticGro then being added, for a total depth of the biocell approximately 3 feet. Then a 20-mil liner was placed over the top of the biocell and

Elevation Site

Distance

Site Database(s) EPA ID Number

# ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

secured in place with sand bags.

Action Date: 2/26/2008

Action: Exposure Tracking Model Ranking

DEC Staff: Paul Horwath

Action Description: Initial site ranking with ETM completed.

Action Date: 2/12/1996

Action: Site Added to Database
DEC Staff: Ray Dronenburg
Action Description: Site added to database.

Action Date: 2/12/1996

Action: Preliminary Assessment Approved

DEC Staff: Bill Wright

Action Description: (Old R:Base Action Code = SA1A - Phase I Site Assessment Approval).

Reviewed and approved a phase 1 site assessment report.

Action Date: 12/29/2011

Action: Report or Workplan Review - Other

DEC Staff: Alyce Hughey

Action Description: Reviewed the D & G Express September 2011 Biocell Sampling Report,

dated November 2011, from BGES, Inc. On September 22, 2011, multi-incremental sampling was conducted within the biocell located on site. Analytical results did not detect any of the analytes above the migration to groundwater in the samples analyzed. The relative standard deviation levels for GRO, Ethylbenzene and Xylenes exceeded

the recommended 30 at 53.28, 55.97 and 31.13 respectively.

Action Date: 12/11/2013

Action: Institutional Control Record Established

DEC Staff: Paul Horwath

Action Description: Issued a Cleanup Complete Decision with Institutional Controls, with

a Notice of Environmental Contamination (NEC) for recording on the property deed, and a site diagram showing the location of a concrete pad that has been employed as an engineering control in the effort to prevent future exposure to pentachlorphenol contaminated soil. An 8' x 10' steel reinforced concrete pad covers a small area of PCP impacted soil. The NEC requires reporting every three years on the

presence/maintenance of the concrete pad, and property

use/ownership/lease.

Action Date: 12/11/2013

Action: Cleanup Complete Determination Issued

DEC Staff: Paul Horwath

Action Description: Issued a Cleanup Complete Decision with Institutional Controls, with

a Notice of Environmental Contamination (NEC) for recording on the property deed, and a site diagram showing the location of a concrete pad that has been employed as an engineering control in the effort to prevent future exposure to pentachlorphenol contaminated soil. An 8' x 10' steel reinforced concrete pad covers a small area of PCP impacted soil. The NEC requires reporting every three years on the

presence/maintenance of the concrete pad, and property

use/ownership/lease.

Action Date: 11/7/2008

Action: Cleanup Plan Approved

Direction Distance Elevation

**EPA ID Number** Site Database(s)

# **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

DEC Staff: Paul Horwath

Action Description: ADEC issued approval for the D&G Maintenance Facility Revised Corrective Action Work Plan, dated October 2008, prepared by BGES,

Inc. and received in our office on November 6, 2008.

Action Date: 11/6/2012

Action: **Exposure Tracking Model Ranking** 

DEC Staff: Alyce Hughey

A new updated ranking with ETM has been completed for source area Action Description:

73442 ADOT Lease Lot.

Action Date: 11/6/2008

Action: Site Characterization Workplan Approved

DEC Staff: Paul Horwath

Action Description: ADEC issued approval for the D&G Maintenance Facility Revised

> Corrective Action Work Plan, dated October 2008, prepared by BGES, Inc. and received in our office on November 6, 2008. The work plan

will likely be implemented during the 2009 field season.

Action Date: 11/10/2014

Institutional Control Compliance Review Action:

DEC Staff: Kristin Thompson

IC compliance review conducted and staff changed from Paul Horwath to Action Description:

IC Unit. Reminder system set to follow-up with the responsible party

in early 2017.

Action Date: 10/9/2006

Action: Update or Other Action

DEC Staff: Alyce Hughey

Project manager changed from Monica English to Paul Horwath, per Paul Action Description:

Horwath.

Action Date: 10/31/1996

Action: Site Ranked Using the AHRM

DEC Staff: Bill Petrik

Action Description: Reviewed S&W and Wright rankings. Both were the same. No further

action on rankings to be done.

Action Date: 10/25/2006

Action: Update or Other Action

DEC Staff: Paul Horwath

Issued a Site Characterization and Site Cleanup Requirements letter Action Description:

> requesting any information regarding any site characterization or corrective action that has been performed at the site, and if none has been performed to sibmit a Site Characterization Workplan for

approval.

Contaminants:

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

D & G Express Contaminate Name1:

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1:

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1:

Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's Contaminant CTD:

Map ID Direction Distance Elevation

#### MAP FINDINGS

Site EDR ID Number

Database(s) EPA ID Number

# **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: ADOT shall report to ADEC every three years to document land use and

the presence of the concrete pad; or report as soon as they become aware of the absence of the concrete pad or any change in land

ownership and/or use, if earlier.

Comments: An engineering control and Notice of Environmental Contamination are

required due to the pentachlorophenol contaminated soil exceeding

ADEC's 'ingestion' soil cleanup level.

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Movement or use of contaminated material (including on site) in a manner that res

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's 'ingestion' soil cleanup level. A steel reinforced concrete pad has

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: Standard condition.

Comments: An engineering control and Notice of Environmental Contamination are

required due to the pentachlorophenol contaminated soil exceeding

ADEC's 'ingestion' soil cleanup level.

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: So

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Excavation / Soil Movement Restrictions

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: GRO & DRO contamination remains in soil at concentrations exceeding

the approved soil cleanup levels in the area of a former 55-gallon drum storage area, at the location of the concrete pad. In the future,

if such soil is to be transported or moved off site, it must be

characterized and managed following regulations applicable at that

time.

Comments: An engineering control and Notice of Environmental Contamination are

required due to the pentachlorophenol contaminated soil exceeding

ADEC's 'ingestion' soil cleanup level.

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

**ERA AVIATION BETHEL AIRPORT FAC. (Continued)** 

S107504763

Contaminate Media1:

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Maintenance / Inspection Of Engineering Controls

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

Soil

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: A 8' x 10' steel reinforced concrete pad must remain over a small area

of PCP impacted soil.

Comments: An engineering control and Notice of Environmental Contamination are

required due to the pentachlorophenol contaminated soil exceeding

ADEC's 'ingestion' soil cleanup level.

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's 'ingestion' soil cleanup level. A steel reinforced concrete pad has

been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: Standard condition.

Comments: An engineering control and Notice of Environmental Contamination are

required due to the pentachlorophenol contaminated soil exceeding

ADEC's 'ingestion' soil cleanup level.

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Other

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: ADOT shall report to ADEC every three years to document land use and

the presence of the concrete pad; or report as soon as they become aware of the absence of the concrete pad or any change in land

ownership and/or use, if earlier.

Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

**ERA AVIATION BETHEL AIRPORT FAC. (Continued)** 

S107504763

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Movement or use of contaminated material (including on site) in a manner that res Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has

been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: Standard condition.
Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Excavation / Soil Movement Restrictions

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: GRO & DRO contamination remains in soil at concentrations exceeding

the approved soil cleanup levels in the area of a former 55-gallon drum storage area, at the location of the concrete pad. In the future, if such soil is to be transported or moved off site, it must be characterized and managed following regulations applicable at that

time.

Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Maintenance / Inspection Of Engineering Controls

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: A 8' x 10' steel reinforced concrete pad must remain over a small area

of PCP impacted soil.

Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: Standard condition.
Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soi

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Other

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: ADOT shall report to ADEC every three years to document land use and

the presence of the concrete pad; or report as soon as they become aware of the absence of the concrete pad or any change in land

ownership and/or use, if earlier.

Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Movement or use of contaminated material (including on site) in a manner that res

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: Standard condition.
Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

**ERA AVIATION BETHEL AIRPORT FAC. (Continued)** 

S107504763

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Excavation / Soil Movement Restrictions

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: GRO & DRO contamination remains in soil at concentrations exceeding

the approved soil cleanup levels in the area of a former 55-gallon drum storage area, at the location of the concrete pad. In the future, if such soil is to be transported or moved off site, it must be

characterized and managed following regulations applicable at that

time. Not reported

Comments: Not reporte

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Maintenance / Inspection Of Engineering Controls

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: A 8' x 10' steel reinforced concrete pad must remain over a small area

of PCP impacted soil.

Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: D & G Express

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Notice of Environmental Contamination (Deed Notice)

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Deed Notice required because pentachlorophenol (PCP) exceeded ADEC's

'ingestion' soil cleanup level. A steel reinforced concrete pad has been placed over this limited area of PCP impacted soil as an engineering control to prevent future human exposure. This concrete

pad must remain in place to be effective.

Contaminant CDR: Standard condition.
Comments: Not reported

File Number: 2407.38.013

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov
Facility Status: Cleanup Complete - Institutional Controls

Latitude: 60.777472
Longitude: -161.836194
Hazard ID: 2608

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

# ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

Problem:

Site extensively contaminated with diesel and gasoline range organics from documented and unknown spills from the surface to at least 18' below ground surface. Unknown if groundwater contaminated, soil borings consistently hit permafrost at around 25 feet bgs. Site is the current location of the Alaska Airlines Terminal at the Bethel Airport. Site lies within Municipal Borough which is surrounded by Yukon Delta Wildlife Refuge. Preliminary ranking. Several facilities in Bethel have individual wells, some households have piped water, others have water delivered. Seasonal surface water bodies within 1/4 mile are assumed, absence does not change priority level. The elevation is 132 feet. The gradient is 1.9 percent. Lot 2B, Block 4, Bethel Airport.

Actions:

Action Date: 9/23/1997

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: Phase II of release investigation was conducted. Additional DRO and

GRO contaminated soils were found to be commingled at least in one

area.

Action Date: 9/18/1998

Action: Meeting or Teleconference Held

DEC Staff: Shah Alam

Action Description: Meeting with Eileen Olson and Bob Dreyer, teleconference with Bob

Gilfilian. Also spoke with Peggy McClusky. Prepared letter approving Dames and Moore's workplan on site investigation. Bob Dreyer approving a work plan for Gilfilian Engg for soil excavation.

Action Date: 9/15/2016

Action: Institutional Control Update

DEC Staff: Kristin Thompson

Action Description: ADEC was contacted by SLR Consulting representing Alaska Airlines

letting us know that the trenching work at the Bethel airport, as discussed in previous communications, will be conducted at the end of next week. Although the trench is located away from areas of known contamination, SLR will be on site to screen the soil and will notify

ADEC if impacted soil is encountered.

Action Date: 8/9/2000

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: ADEC has reviewed a final report dated March 15, 2000 and requested a

corrective action workplan to remediate contaminated soil stockpiles, and, a schedule to install a SVE system for contaminated soils left in place. Following are the comments on the report:1. Gasoline range

organics (GRO) contaminated soils in excess of site-specific

alternative cleanup levels remain at the base of the excavation (soil samples SS-10 and SS-10 Dup.), at about 10 feet below the ground surface. A site cleanup workplan dated March 1999 had previously proposed that the remaining contaminated soil at the site would be treated via in situ soil vapor extraction (SVE).2. Approximately 2800 cubic yards of contaminated soil and 4700 cubic yards of suspected clean soil were removed from the site and were stockpiled off-site on ADOT property. Additional sampling to characterize and remediation of

these stockpiles are required.

Action Date: 8/5/1997

Direction Distance Elevation

vation Site Database(s) EPA ID Number

# ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: Release investigation report dated August 5, 97. Soils contaminated

by both GRO and DRO were identified but not fully characterized.

Action Date: 7/26/2000

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: ADEC project manager, Shah Alam, visited the site.

Action Date: 7/12/1999

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: Carl with Davies construction (562-2336) called to clarify the

concerns related to stockpiled soil management.

Action Date: 6/29/2016

Action: Institutional Control Update

DEC Staff: Evonne Reese

Action Description: I was contacted by SLR Consulting representing Alaska Airlines in a

project that involves trenching activities near the ERA Aviation Facility. They want to make sure they remain in compliance with all

institutional controls for the site. If contaminated soil is

encountered they have plans in place for field screening, evaluating conditions and sampling if necessary. The documentation for this

project has been placed in the electronic file.

Action Date: 6/18/1999

Action: Meeting or Teleconference Held

DEC Staff: Shah Alam

Action Description: ADEC met with Ron Stroman, Bob Norton, Paul Dworian (teleconference)

and Bob Dreyer to discuss Bethel ERA contaminated site. ADOT is concerned with volume of contaminated soils to be stored and disposed. Total soil volume to be excavated is 10000 cubic yards of which maximum 2000 cubic yards may be above the established cleanup

level.

Action Date: 6/17/1999

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: Construction practice requires a liner under the building covering

the excavation. The liner under the building will cover a larger area than the liner at the bottom of the excavation. ADEC agreed that the liner under the building will achieve the same purpose as the liner

at the bottom of the excavation.

Action Date: 6/16/1999

Action: Cleanup Plan Approved

DEC Staff: Shah Alam

Action Description: ADEC approved a modified a work plan. The excavation will be to a

depth of 12 feet in stead of six feet.

Action Date: 6/12/2012

Action: Institutional Control Compliance Review

DEC Staff: Evonne Reese

Action Description: An IC review was conducted on this site and the staff assigned was

changed from Bill O'Connell to IC Unit.

Distance

Elevation Site Database(s) EPA ID Number

# ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

Action Date: 6/11/1998

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: Phase I Environmental Site Assessment (historical use) report dated

June 2, 98 prepared by Gilfilian submitted to ADEC.

Action Date: 5/14/1999

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: Bob Dreyer (ADEC) wrote to Gilfillian requesting additional

information on corrective action plan for stockpiled soil.

Action Date: 5/14/1998

Action: Cleanup Plan Approved

DEC Staff: Shah Alam

Action Description: ADEC/PERP wrote to Gilfilian approving a work plan to remove and

characterize Jet A fuel contaminated soil.

Action Date: 5/12/1998

Action: Site Added to Database

DEC Staff: Eileen Olson
Action Description: Site added by staff.

Action Date: 4/9/2001

Action: Site Characterization Report Approved

DEC Staff: Renee Evans

Action Description: Site characterization report completed to characterize hydrocarbons

in soil excavated during terminal construction project. Plans for

cleanup and remediation to follow.

Action Date: 4/28/2006

Action: Update or Other Action

DEC Staff: Bill O'Connell

Action Description: Vapor Intrusion Pathway Analysis submitted by URS for Alaska

Airlines. New terminal area is underlain by a fuel-proof liner and at

least 6 feet of clean fill, effectively eliminating the vapor intrusion pathway. CSM graphic and text submitted.

Action Date: 4/23/1998

Action: Preliminary Assessment Approved

DEC Staff: Eileen Olson

Action Description: (Old R:Base Action Code = SA1A - Phase I Site Assessment Approval).

Reviewed the Release Investigation Report for ERA Bethel Airport

Facility dated 8/5/1997.

Action Date: 4/23/1998

Action: Update or Other Action

DEC Staff: Eileen Olson

Action Description: (Old R:Base Action Code = RI - Remedial Investigation). Reviewed

Phase II Release Investigation Report for ERA Bethel Airport, dated 2/3/1998. Further site characterization work is needed to define the horizontal and vertical extent of the GRO or DRO contamination.

Action Date: 4/23/1998

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: ADEC/CS wrote ERA Aviation requesting for additional site

Distance Flevation Site

Elevation Site Database(s) EPA ID Number

#### **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

characterization. Matrix cleanup level cannot be established until contamination is characterized.

Action Date: 4/14/1999

Action: Cleanup Plan Approved

DEC Staff: Shah Alam

Action Description: ADEC approved a corrective action workplan.

Action Date: 3/21/2006

Action: Meeting or Teleconference Held

DEC Staff: David Pikul

Action Description: DEC attended a meeting with the RP (Alaska Airlines) and the land

owner (ADOT&PF). Alaska Airlines will proceed with actions to move to a conditional closure at that site. Conversation included potential for ADOT&PF responsibility for soil contamination at the south end of

the terminal.

Action Date: 3/21/2002

Action: Site Ranked Using the AHRM

DEC Staff: No Longer Assigned

Action Description: Database changes: added drinking water information to comments field,

changed population density from 5 to 8, corrected latitude and longitude, added quadrant, section, township, range and meridian.

Action Date: 3/15/2000

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: ADEC received a final cleanup report. The report describes excavation

and off-site stockpiling of contaminated soils.

Action Date: 2/9/1999

Action: Cleanup Level(s) Approved

DEC Staff: Shah Alam

Action Description: ADEC issued a cleanup decision letter to Alaska Airlines.

Action Date: 2/3/2006

Action: Update or Other Action

DEC Staff: David Pikul

Action Description: The Department of Environmental Conservation, Contaminated Sites

Program, (DEC) has completed review of the document titled:

???Environmental Baseline Survey and Corrective Action Plan, Alaska Airlines Terminal, Bethel Airport Facility dated November 28, 2005 prepared by URS Corporation. There are two areas of investigation proposed at the Alaska Airlines Terminal Building. The northern area is the former location of two 1,000 gallon aboveground storage tanks (AST???s) that were removed in 1997. Historical documents indicate that a drum storage area, an aboveground fuel supply line and three other AST???s and dispensers were located on the northern side of the terminal building. Review of file documentation for the southern area indicates that two AST???s were located near the southern side of the terminal building along with a Jet-A fuel supply line. Between 1997 and 1999 there have been multiple investigative activities completed at the northern area of the terminal building. Soil impacted by gasoline range organics (GRO), diesel range organics (DRO), and benzene above applicable clean up levels established in 18 AAC 75.341

Table B1 have been documented. Soil removal activities were implemented and soil stockpiled near the site. Soil removal did not

Map ID
Direction
Distance

Site

Elevation

MAP FINDINGS

Database(s)

#### S107504763

**EDR ID Number** 

**EPA ID Number** 

#### **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

achieve applicable clean up levels and contaminated soil remains in the ground. Data gaps in soil characterization have been identified resulting in the need for further site characterization. Soil borings advanced on the northern side of the terminal building have identified permafrost at depth with no measurable groundwater encountered. Based on the available data, permafrost appears to be continuous beneath the site. Investigation at the southern area of the terminal building was limited to four field screening data points with no laboratory analysis. These field screening results collected during a 2001 site investigation performed by URS indicate the potential for contaminant impacts to soil in this location. It appears from the data provided that data gaps exist in the site characterization of soil in both the north and south areas of the terminal building. Previous soil borings advanced to permafrost have not identified measurable groundwater and therefore additional groundwater investigations would not appear warranted. No known drinking water wells are reportedly within one mile of the site. Site is served by community water and sewer. DEC concurs with the conceptual approach outlined in the above referenced report.

Action Date: 2/2/2007

Action: Conditional Closure Approved

DEC Staff: Bill O'Connell

Action Description: The Department of Environmental Conservation, Contaminated Sites

Program (ADEC) has reviewed the administrative records for ERA Aviation, Bethel Airport Facility. This site had been contaminated by the release of a hazardous substance; however, based on the information provided to date, ADEC has determined that the ERA Aviation, Bethel Airport Facility can be closed subject to the conditions outlined in the database entry below. The hazardous substance contamination has been adequately addressed and does not

pose an unacceptable risk to human health or the environment.

Action Date: 2/2/2007

Action: Institutional Control Record Established

DEC Staff: Bill O'Connell

Action Description: The cleanup actions conducted at the ERA Aviation, Bethel Airport

Facility were effective in removing the majority of impacted soil. There is a minor amount of contamination remaining above established cleanup levels but ADEC has determined there is no unacceptable risk

to human health or the environment and this site will be

conditionally closed. However, additional cleanup may be required when the terminal building is removed. This decision is subject to the following conditions:1.A Notice of Residual Contamination will be recorded on the ADEC database to document that there is residual

contamination remaining on site above the most stringent ADEC cleanup levels;2.Any proposal to transport soil off site requires ADEC

approval in accordance with 18 AAC 75.325(i) 3.Alaska Airlines must notify ADEC if the existing structure is removed.In accordance with 18 AAC 75.380(d)(2), this determination 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.

Action Date: 2/11/1999

Action: Update or Other Action

DEC Staff: Shah Alam

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

ERA AVIATION BETHEL AIRPORT FAC. (Continued)

Action Description: Dames and Moore submitted soil cleanup technologies and engineering

control options for this site.

Action Date: 2/11/1999

Action: Meeting or Teleconference Held

DEC Staff: Shah Alam

Action Description: Teleconference with Peggy McCluskey and Paul Dworian to discuss

Bethel ERA site. ADEC asked them to submit a corrective action plan considering cleanup levels and proposed cleanup technologies.

Action Date: 2/1/2007

Action: Update or Other Action

DEC Staff: Bill O'Connell

Action Description: The contaminated stockpile associated with this site was moved to an

area operated by ADOT, who has assumed responsibility for the handling of this material. The stockpile is typically referred to as the 1999 Excavation Stockpile and consists of approximately 2,500 cy of material. Samples collected from this stockpile in 2000 had DRO up

2,130 mg/kg.

Action Date: 2/1/2007

Action: Exposure Tracking Model Ranking

DEC Staff: Bill O'Connell
Action Description: Not reported

Action Date: 12/4/2013

Action: Institutional Control Update

DEC Staff: Kristin Thompson

Action Description: An IC reminder letter was issued to the responsible party on this

date.

Action Date: 12/18/2013

Action: Institutional Control Update

DEC Staff: Evonne Reese

Action Description: Received a call from an Alaska Airlines representative to let us know

that the site conditions remain the same and wanting to check to see

if there was anything else they needed to do.

Action Date: 10/27/2009

Action: Update or Other Action

DEC Staff: Bill O'Connell

Action Description: Reviewed Environmental Document Review To Establish Baseline

Conditions, Alaska Airlines Termianl Lease, Bethel Alaska, submitted to ADOT&PF by Ak Air prior to renewing their lease. THe document summarizes the current environmental status of the site, indicating contamination remains beneath the building (north side) near the parking lot (south side) and at the Ramp Spill Area, where

contamination is primarily beneth the pavement.

Action Date: 10/19/1999

Action: Site Ranked Using the AHRM

DEC Staff: Shah Alam Action Description: Site ranked.

Action Date: 1/14/1999

Action: Meeting or Teleconference Held

DEC Staff: Shah Alam

S107504763

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

Action Description: A meeting was held on January 14, 1998 at ADEC Anchorage office to

discuss issues related to Bethel ERA contaminated site at the Bethel Airport. Bethel ERA conducted contaminated soil excavation through their contractor, Gilfillian Engineering, who assumed an ADEC cleanup level of Matrix Level B. Meeting participants were Ron Stroman, Korbey Hunt, Peggy McClusky, Richard H. Smith, PAUL R. DWORIAN, Murphy Forner, Robert Gilfilian, Steve Rebillard, Shah Alam, Jim

Frechione, Bob Dreyer and Eileen Olson.

Contaminants:

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ERA Aviation Bethel Airport Fac.

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soi

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported Contaminant CDR: Not reported Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ERA Aviation Bethel Airport Fac.

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Other
Contaminant CTD: Not reported

Contaminant CDR: If the building is removed or significantly alter

Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ERA Aviation Bethel Airport Fac.
Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: So

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported
Contaminant CDR: Not reported
Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ERA Aviation Bethel Airport Fac.
Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Other
Contaminant CTD: Not reported

Direction Distance Elevation

tance EDR ID Number vation Site Database(s) EPA ID Number

# ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

Contaminant CDR: If the building is removed or significantly alter

Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ERA Aviation Bethel Airport Fac.

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported Contaminant CDR: Not reported Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ERA Aviation Bethel Airport Fac.

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Other
Contaminant CTD: Not reported

Contaminant CDR: If the building is removed or signiificantly alter

Comments: Not reported

File Number: 2407.38.017

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov
Facility Status: Cleanup Complete - Institutional Controls

Latitude: 60.792206 Longitude: -161.755737 Hazard ID: 2108

Problem: Aviation gas contaminated soil and possibility of GW contamination.

Property leased from ADOT&PF. No Further Remedial Action Planned

(NFRAP) letter was sent on 10-25-02.

Actions:

Action Date: 7/8/2002

Action: Update or Other Action
DEC Staff: Beatrice Egbejimba

Action Description: ADEC received Second Phase Interim Removal Action and Site

Characterization Report.

Action Date: 7/5/2001

Action: Update or Other Action DEC Staff: Beatrice Egbejimba

Action Description: Site Characterization Report received 7/5/01.

Action Date: 7/26/2000

Action: Update or Other Action

DEC Staff: Shah Alam

Action Description: ADEC staff, Shah Alam, visited the site.

Action Date: 5/3/2011

Distance Elevation

Elevation Site Database(s) EPA ID Number

# ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

Action: Update or Other Action

DEC Staff: Pam Clemens

Action Description: Spoke with Robert Holbrook, ADOT&PF Airport Leasing, about his draft

letter to the current tenant notifying them of the requirement to contact ADEC prior to disturbing the soil on the leased lot for the Sourdough Car Rental Permit Number: ADA-08698. The letter will serve as notification and is in accordance with the No Further Remedial

Action Planned letter dated October 25, 2002.

Action Date: 5/27/2014

Action: Institutional Control Update

DEC Staff: Kristin Thompson

Action Description: An IC reminder letter was issued to the responsible party on this

date.

Action Date: 5/1/2013

Action: Institutional Control Compliance Review

DEC Staff: Evonne Reese

Action Description: IC review conducted and reminder system set for May 2014 to do a

follow up with ADOT to see if the tenants have changed. We want to

make sure that any future tenants are aware of the property

conditions.

Action Date: 4/8/1996

Action: Update or Other Action DEC Staff: Ray Dronenburg Action Description: This site is in litigation.

Action Date: 4/25/1996

Action: Site Ranked Using the AHRM

DEC Staff: S&W

Action Description: Ranked by Shannon and Wilson.

Action Date: 4/22/2002

Action: Site Ranked Using the AHRM

DEC Staff: Beatrice Egbejimba

Action Description: Changed the Population Density value from 8 to 5, SW Environments

value from 2 to 0, and Environmental/Recreation Area value from 2 to

0.

Action Date: 3/5/2001

Action: Update or Other Action

DEC Staff: Jim Frechione

Action Description: Interim Removal Action and Site Characterization Proposal received

for Lot 3A, Block 1, and Lots 5A, 6A and 7A, Block 4.

Action Date: 3/2/2011

Action: Update or Other Action

DEC Staff: Pam Clemens

Action Description: Spoke with Sam Myers, ADOT&PF, February 2011, he is following up with

the airport managers to verify status of the old MarkAir sites. Some

with ICs some waiting for capping prior to closure.

Action Date: 3/12/2001

Action: Interim Removal Action Approved

DEC Staff: Jim Frechione

Action Description: Letter sent to Stafford Glashon of Shannon and Wilson, Inc. with the

Direction Distance Elevation

vation Site Database(s) EPA ID Number

# ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

approval of plan in letter dated 03/05/01.

Action Date: 2/24/2003

Action: Update or Other Action DEC Staff: Beatrice Egbejimba

Action Description: ADEC approved landspreading proposal with conditions.

Action Date: 2/20/2003

Action: Update or Other Action
DEC Staff: Beatrice Egbejimba

Action Description: ADEC received a proposed plan for the handling of existing stockpile

Action Date: 2/20/2002

Action: Meeting or Teleconference Held

DEC Staff: Beatrice Egbejimba

Action Description: ADEC met with Ron Stroman (ADOT) and Stafford Glashon (Shannon &

Wilson, Inc.) to discuss the application of Arctic clean up levels at the site. It was agreed that ACL would be used instead of Arctic clean up levels. TOC valued to be provided by Shannon and Wilson, Inc.

Not reported

Action Date: 2/16/2012

Action: Update or Other Action
DEC Staff: Kristin Thompson

Action Description: Staff changed from Pam Clemens to IC Unit.

Action Date: 2/10/2009

Action: Update or Other Action

DEC Staff: Pam Clemens

Action Description: Linda Nuechterlien met with ADOT&PF representative Jennifer Kuentzel

to discuss former MarkAir sites. When ADOT&PF researches the status of this site and contacts ADEC I will update the problem statement

and actions.

Action Date: 2/10/1995

Action: Site Added to Database DEC Staff: Ray Dronenburg Action Description: Aviation gas.

Action Date: 12/30/2010

Action: Update or Other Action

DEC Staff: Pam Clemens

Action Description: Sent email to Becky Iles the acting ADOT&PF Airport Leasing Chief,

Central Region; asking for an update.

Action Date: 11/29/1999

Action: Site Number Identifier Changed

DEC Staff: David Pikul

Action Description: Combined data from Reckey 1994250112501 into this site because it was

a duplicate.

Action Date: 10/25/2002

Action: Site Characterization Report Approved

DEC Staff: Beatrice Egbejimba

Action Description: Letter sent to Ron Stroman with information regarding ADEC's approval

of Site Characterization Report and Second Phase Interim Removal

Action and Site Characterization Report.

Distance Elevation

tion Site Database(s) EPA ID Number

# ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

Action Date: 10/25/2002
Action: Record of Decision
DEC Staff: Jim Frechione

Action Description: The decision document established cleanup levels and served as the

basis for the no further remedial action determination. In addition, there were conditions or requirements in the document that must be fulfilled prior to it being finalized. These include the submittal of an operations plan associated with the proposal to treat (landspread)

soil generated from this site.

Action Date: 10/25/2002

Action: Cleanup Level(s) Approved

DEC Staff: Jim Frechione

Action Description: ADEC approved the inhalation and ingestion pathways for the ???Under

40 Inch Zone of 18 AAC 75. 341. The most stringent cleanup level(s) for those pathways are the site cleanup level(s). ADEC recognizes that the concentration of DRO, xylenes and arsenic may exceed the established cleanup levels in some areas of the site but the extent of contamination is limited and/or is impractical to remove at this

time.

Action Date: 10/25/2002

Action: Institutional Control Record Established

DEC Staff: Jim Frechione

Action Description: Concentrations of DRO, xylenes and arsenic may exceed the established

cleanup levels in some areas of the site but the extent of

contamination is limited and/or is impractical to remove at this time.

Not reported

Action Date: 10/25/2002

Action: Conditional Closure Approved

DEC Staff: Jim Frechione

Action Description: Conditional NFAP subject to capping of tank farm area and treatment

of DRO contaminated soil.

Contaminants:

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ADOT&PF MarkAir - Bethel

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: So

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: When Contaminated Soil is Accessible, Remediation Should Occur

Contaminant CTD: Not reported
Contaminant CDR: Not reported
Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ADOT&PF MarkAir - Bethel

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Excavation / Soil Movement Restrictions

Contaminant CTD: Not reported

Distance Elevation

nce EDR ID Number ation Site Database(s) EPA ID Number

**ERA AVIATION BETHEL AIRPORT FAC. (Continued)** 

S107504763

Contaminant CDR: Not reported Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ADOT&PF MarkAir - Bethel

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Other
Contaminant CTD: Not reported

Contaminant CDR: It is recommended that the former tank farm property be capped with

asphalt to reduce the potential for exposure.

Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ADOT&PF MarkAir - Bethel

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: When Contaminated Soil is Accessible, Remediation Should Occur

Contaminant CTD: Not reported
Contaminant CDR: Not reported
Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ADOT&PF MarkAir - Bethel

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: So

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Excavation / Soil Movement Restrictions

Contaminant CTD: Not reported
Contaminant CDR: Not reported
Comments: Not reported

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov

Contaminate Name1: ADOT&PF MarkAir - Bethel

Contaminate Level Description1: > Human Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Other

Contaminant CTD: Not reported

Contaminant CDR: It is recommended that the former tank farm property be capped with

asphalt to reduce the potential for exposure.

Comments: Not reported

File Number: 2407.38.024
Staff: Not reported
Facility Status: Cleanup Complete

Direction Distance

Elevation Site Database(s) EPA ID Number

## ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

Latitude: 60.782241 Longitude: -161.842619

Hazard ID: 3048

Problem: Petroleum contamination. This site was vacated by the AKARNG in 2000.

There is a LUST Site, Event ID 1340 associated with this facility. LUST file number 2407.26.014 Matrix score is 26 (Level C). DRO detected at 2,600 mg/kg, TPH at 5,700 mg/kg near above ground tank

area. Last staff assigned was Pexton.

Actions:

Action Date: 9/7/1999

Action: Cleanup Plan Approved

DEC Staff: Scott Pexton

Action Description: Approval of revised corrective action plan received 8/27/99. Plan

involves excavation of petroleum contaminated soil associated with an

above-ground storage tank for thermal treatment.

Action Date: 9/4/2012

Action: Site Characterization Report Approved

DEC Staff: Debra Caillouet

Action Description: Draft Site Investigation Report, Former Bethel Army Aviation

Operating Facility, Bethel Alaska, August 2012

Action Date: 9/21/2012

Action: Cleanup Complete Determination Issued

DEC Staff: Debra Caillouet

Action Description: Final Site Investigation Report, Former Bethel Army Aviation

Operating Facility, Bethel Alaska, September 2012

Action Date: 9/21/2012

Action: Exposure Tracking Model Ranking

DEC Staff: Debra Caillouet

Action Description: A new updated ranking with ETM has been completed for source area

78332 AST.

Action Date: 6/8/2012

Action: Site Characterization Workplan Approved

DEC Staff: Debra Caillouet

Action Description: Final Work Plan, Remedial Action/Clean-Up Complete at the Bethel Army

Airfield Operations (Old) Facility (BAAOF), Bethel, Alaska June 2012

Action Date: 5/31/2012

Action: Report or Workplan Review - Other

DEC Staff: Debra Caillouet

Action Description: Comment sent on the Draft Remedial Action/Clean-Up Complete at the

Bethel Army Airfield Operations (Old) Facility (BAAOF), Bethel,

Alaska May 2012

Action Date: 4/28/1998

Action: Site Added to Database

DEC Staff: Scott Pexton

Action Description: Final Report, Preliminary Assessment/Site Investigation prepared for

AK-ARNG by Ogden Environmental and Energy Services.

Action Date: 4/28/1998

Action: Site Ranked Using the AHRM

DEC Staff: Scott Pexton
Action Description: Site ranked by staff.

Direction Distance

Elevation Site Database(s) EPA ID Number

## **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

Action Date: 4/27/2011

Action: Report or Workplan Review - Other

DEC Staff: Debra Caillouet

Action Description: Draft Work Plan Corrective Action, Alaska Army National Guard Bethel

AAOF, Bethel Alaska, April 2011

Action Date: 4/25/2006

Action: Update or Other Action
DEC Staff: Aggie Blandford

Action Description: File number correction. Mis-entered as 2407.38.027, correct file

number 2407.38.024.

Action Date: 4/18/2000

Action: Update or Other Action

DEC Staff: Scott Pexton

Action Description: Received Final Technical Report for AAOF-ASTCorrective Action

prepared by BNC International.Report indicated that 107 cubic yards of contaminated soil was removed for thermaltreatment (instead of

estimated 50 cubic yards).

Action Date: 3/15/2004

Action: Update or Other Action
DEC Staff: Sarah Cunningham

Action Description: File number assigned: 2407.38.024.

Action Date: 3/14/2008

Action: Exposure Tracking Model Ranking

DEC Staff: Debra Caillouet

Action Description: Initial ranking with ETM completed.

Action Date: 2/3/2010

Action: Meeting or Teleconference Held

DEC Staff: Debra Caillouet

Action Description: Staff participated in the Installation Action Plan meeting.

Action Date: 12/21/2011

Action: Site Characterization Workplan Approved

DEC Staff: Debra Caillouet

Action Description: Final Work Plan Corrective Action, Alaska Army National Guard Bethel

AAOF, Bethel Alaska, May 2011

Action Date: 12/21/2011

Action: Report or Workplan Review - Other

DEC Staff: Debra Caillouet

Action Description: Staff reviewed the Site Investigation Report, Former AKARNG AAOF,

Bethel Alaska (aka Bethel Old AAOF)December 2011 and a draft ROD.

While the SI does show the former UST area is below the ingestion/inhalation cleanup levels for DRO, it does not provide

adequate characterization of the former AST site.

Action Date: 12/2/2011

Action: Update or Other Action
DEC Staff: Debra Caillouet

Action Description: Comment sent on the draft ROD for cleanup complete.

Action Date: 1/30/1998

Action: Update or Other Action

Direction Distance

Elevation Site Database(s) EPA ID Number

## ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

DEC Staff: Scott Pexton

Action Description: Received Preliminary Assessment/Site Investigation Report prepared by

Ogden Environmental and Energy Services Co., Inc.

Contaminants:

Staff: Not reported

Contaminate Name1: AKARNG Bethel Old AAOF

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: No ICs Required

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported Contaminant CDR: Not reported Comments: Not reported

File Number: 2407.38.027
Staff: Not reported
Facility Status: Cleanup Complete
Latitude: 60.775765
Longitude: -161.846259
Hazard ID: 4159

Problem: 38 gallons of Jet A fuel was spilled during refilling of an

Aboveground Storage Tank Absorbent pads and booms were deployed to collect free product from the hardstand surface. Six 85-gallon drums of petroleum impacted soil were removed from the site. Sampling in

2004 found a maximum of 4090 mg/Kg DRO remaining in the impacted area

Actions:

Action Date: 4/15/2008

Action: Site Characterization Report Approved

DEC Staff: Debra Caillouet

Action Description: Staff accepted the final ACL report

Action Date: 3/5/2013

Action: Report or Workplan Review - Other

DEC Staff: Debra Caillouet

Action Description: Work Plan for Decommissioning of Groundwater Wells at the AKARNG

Bethel New AAOF, February 2013

Action Date: 3/14/2008

Action: Exposure Tracking Model Ranking

DEC Staff: Debra Caillouet

Action Description: Initial ranking with ETM completed.

Action Date: 2/5/2013

Action: Site Characterization Report Approved

DEC Staff: Debra Caillouet

Action Description: Draft Site Characterization Report and Cleanup Complete Decision,

Alaska Army National Guard, Bethel New AAOF, January 2013The site characterization indicates that diesel range organics are remaining in a small area in the pad fill sloping to the tundra. The maximum concentration found was 3330 mg/kg at 4 feet below ground surface (bgs). A sample at 11??? bgs at the same location was found to

Distance Elevation Site

ation Site Database(s) EPA ID Number

### **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

contain and undetectable quantity of DRO. Ten other soil borings were installed around this point and no other significant contamination was identified. Three monitoring wells were installed and sampled downgradient of this location. DRO was not detected in the groundwater above the applicable cleanup level of 1.5 mg/l. The report recommends a cleanup complete determination for this site and ADEC concurs. The monitoring wells on site should be decommissioned in accordance with ADEC guidance.

Action Date: 2/5/2013

Action: Cleanup Complete Determination Issued

DEC Staff: Debra Caillouet
Action Description: Not reported

Action Date: 2/3/2010

Action: Meeting or Teleconference Held

DEC Staff: Debra Caillouet

Action Description: Staff participated in the Installation Action Plan meeting.

Action Date: 12/3/2012

Action: Site Characterization Workplan Approved

DEC Staff: Debra Caillouet

Action Description: Final Site Characterization Work Plan, Alaska Army National Guard,

Bethel New AAOF, November 2012

Action Date: 12/21/2009

Action: Update or Other Action
DEC Staff: Debra Caillouet

Action Description: Comment was sent to the AKARNG on the draft ROD

Action Date: 11/2/2012

Action: Report or Workplan Review - Other

DEC Staff: Debra Caillouet

Action Description: Draft Site Characterization Work Plan, AKARNG Bethel New AAOF,

October 2012

Action Date: 11/18/2005

Action: Update or Other Action
DEC Staff: Debra Caillouet

Action Description: Staff prepared a comment letter on the Draft

Characterization/Alternative Cleanup Level Demonstration Report for

Bethel Army Aviation Operating Facility Contaminated Site

Action Date: 11/18/2005

Action: Site Added to Database DEC Staff: Debra Caillouet

Action Description: Site added to the database.

Contaminants:

Staff: Not reported

Contaminate Name1: AKARNG Bethel New AAOF

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: No ICs Required

Direction Distance

Elevation Site Database(s) EPA ID Number

## ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported
Contaminant CDR: Not reported
Comments: Not reported

File Number: 2407.26.002

Staff: IC Unit, 9074655229 dec.icunit@alaska.gov
Facility Status: Cleanup Complete - Institutional Controls

Latitude: 60.790177 Longitude: -161.832069 Hazard ID: 24571

Problem: 10 to 50 cubic yards of contaminated soils generated during 6/24/02

removal of 2,000-gallon double wall UST used to store AvGas.

Actions:

Action Date: 9/18/2003

Action: Leaking Underground Storage Tank Corrective Action Underway

DEC Staff: Donald Seagren

Action Description: Reviewed CAP; checked on qualified lab; awaiting soil stockpile

sampling analysis report priro to approval of CAP.

Action Date: 8/24/2015

Action: Institutional Control Update

DEC Staff: Evonne Reese

Action Description: I was contacted by the former business owner. He reported that they

have not owned that business or held the lease on the property in many years. We will plan on investigating who owns the property now

and resend the IC reminder letter.

Action Date: 8/24/2015

Action: Update or Other Action

DEC Staff: Evonne Reese

Action Description: Verified that this property is owned and leased out by ADOT. I

updated the Affiliates information.

Action Date: 8/20/2015

Action: Institutional Control Update

DEC Staff: Kristin Thompson

Action Description: An IC reminder letter was issued to the responsible party on this

date.

Action Date: 8/20/2002

Action: Underground Storage Tank Site Characterization or Assessment

DEC Staff: Donald Seagren

Action Description: Reviewed UST Closure Assessment report. 45 yds3 stockpiled at Bethel

Airport.

Action Date: 8/20/2002

Action: Update or Other Action DEC Staff: Donald Seagren

Action Description: Requested remedial action plan for stockpiled soils at Bethel

Airport. Conditional NFA for site. If building is moved additions site assessment, remediation &/or excavation will be required.

Action Date: 8/18/2015

Action: Institutional Control Compliance Review

DEC Staff: Evonne Reese

Direction Distance Elevation

vation Site Database(s) EPA ID Number

## ERA AVIATION BETHEL AIRPORT FAC. (Continued)

S107504763

**EDR ID Number** 

Action Description: IC compliance review conducted. Schedule to send an IC reminder

letter to the responsible party.

Action Date: 6/27/2002

Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum

DEC Staff: Donald Seagren

Action Description: Containmnated soil exceeding Method 2 cleanup levels remains under

building adjacent to excavation. Further remedial actions required if

building is moved.

Action Date: 6/27/2002

Action: Site Added to Database

DEC Staff: \* Not Assigned Action Description: Not reported

Action Date: 6/17/2008

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: Site transferred from Don Seagren to Paul Horwath per Linda

Nuechterlein.

Action Date: 4/27/2004

Action: Institutional Control Record Established

DEC Staff: \* Not Assigned Action Description: Not reported

Action Date: 4/27/2004

Action: Conditional Closure Approved

DEC Staff: Donald Seagren

Action Description: Contaminated soil beneath building must be addressed when building is

removed or the soil becomes accessible.

Action Date: 4/27/2004

Action: Underground Storage Tank Site Characterization or Assessment

DEC Staff: Donald Seagren

Action Description: Reviewed stockpile soil sampling report. All levels are below Method

2 cleanup levels. Approval given to spread in non-wetland,

non-environmentally sensitive area of facility.

Action Date: 12/1/2004

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: File number 2407.26.002 assigned and entered into the Fileroom

database and Leaking Underground Storage Tank database.

Action Date: 11/10/2014

Action: Update or Other Action
DEC Staff: Kristin Thompson

Action Description: Staff changed from Paul Horwath to IC Unit.

Action Date: 10/5/2015

Action: Institutional Control Update

DEC Staff: Kristin Thompson

Action Description: The IC reminder letter was re-issued to the updated affiliate address

on this date.

Action Date: 10/21/2002

Distance Flevation Site

Elevation Site Database(s) EPA ID Number

## **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

Action: Leaking Underground Storage Tank Corrective Action Underway

DEC Staff: Donald Seagren

Action Description: Reviewed CAP. CAP incomplete. Sent letter with reference documents

requesting revised CAP be sent following landfarming guidelines in

the checklist.

 File Number:
 2407.26.010

 Staff:
 Not reported

 Facility Status:
 Cleanup Complete

 Latitude:
 60.788681

 Longitude:
 -161.833285

 Hazard ID:
 25054

Problem: Minor Av-Gas release detected at time of UST system closure. Facility

ID 2383.Owner Name = USFWService

Actions:

Action Date: 7/30/1999

Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum

DEC Staff: \* Not Assigned Action Description: Not reported

Action Date: 7/30/1999

Action: Site Closure Approved
DEC Staff: \* Not Assigned
Action Description: Not reported

Action Date: 7/30/1999

Action: Site Added to Database

DEC Staff: \* Not Assigned
Action Description: Not reported

Action Date: 12/15/2004

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: File number 2407.26.010 assigned and entered into the Fileroom

database and Leaking Underground Storage Tank database.

File Number: 2407.38.001

Staff: Gretchen Caudill, gretchen.caudill@alaska.gov

Facility Status: Active
Latitude: 60.786548
Longitude: -161.841665
Hazard ID: 1552

Problem: This site encompasses 2 FAA areas in Bethel. FAA and FUDS are

conducting work at the Former Bethel Airport. The former Bethel

Airport FUDS site is tracked under 2407.38.006.

Actions:

Action Date: 9/20/2012

Action: Report or Workplan Review - Other

DEC Staff: Melody Debenham

Action Description: Approved the final injection well closure report documenting the

permanent closure of floor drains at Building 300 and Building 302. Building 300 had a floor drain sump connected to an outfall pipe that discharged to a septic crib. The outfall pipe was plugged and the sump filled with clean material and capped with concrete. Results

Distance Elevation

Site Database(s) EPA ID Number

## **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

from the sample collected from the floor of the septic crib show results for diesel range organics and arsenic above the cleanup level. Building 302 had a floor drain that discharged to a septic crib. The floor drain was closed during building renovations in 1983. Results from a sample collected beneath the bottom of the septic crib show diesel range organics and arsenic above the cleanup level.

Action Date: 8/5/2015

Action: Update or Other Action DEC Staff: Monte Garroutte

Action Description: The Alaska Department of Environmental Conservation (DEC) has

reviewed the environmental records for the FAA Bethel Flight Service Station- AST 19-D-5, B302 Injection Well, and B300 Injection Well sites. No further remedial action is required at AST 19-D-5 or the building 302 injection well, and at the building 300 injection well no further remedial action will be required as long as compliance with the closure conditions are maintained. FAA has agreed to maintain the specified closure conditions. The site number

2407.38.001 will remain active in the DEC contaminated sites program

database, as it covers all FAA Bethel sites.

Action Date: 8/12/2015

Action: Institutional Control Record Established

DEC Staff: Joy Whitsel

Action Description: Institutional Controls established and entered into the database.

Action Date: 7/20/2001

Action: Update or Other Action

DEC Staff: Eileen Olson

Action Description: Site closure / NFA for former FSS tank 19-F-1.

Action Date: 6/6/2000

Action: Site Added to Database

DEC Staff: Eileen Olson

Action Description: Petroleum hydrocarbon contamination.

Action Date: 6/1/2015

Action: Cleanup Plan Approved DEC Staff: Monte Garroutte

Action Description: The Alaska Department of Environmental Conservation (DEC) approved

the Work Plan, Decommissioning and Remediation, FAA Direction Finder Facility, Bethel, Alaska. The work plan includes the removal of the FAA-owned direction finder (DF), associated building and utility line infrastructure, the removal of the lead-contaminated soil around the DF-associated building, and the brushing off and removal of loose

lead based paint from the DF and associated structures.

Action Date: 5/28/2008

Action: Exposure Tracking Model Ranking

DEC Staff: Kim DeRuyter

Action Description: Initial ranking with ETM completed.

Action Date: 5/27/2008

Action: Leaking Underground Storage Tank Corrective Action Underway

DEC Staff: Kim DeRuyter

Action Description: A letter in the file dated July 18, 2006 details the No Further

Action decision for underground storage tanks 19-A-1, 19-C-1, 19-D-2,

Distance
Elevation Site

Database(s)

## **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

**EPA ID Number** 

and 19-D-3. The letter states that the site will remain open until remaining contamination from other sources is adressed.

Action Date: 5/27/2008

Action: Update or Other Action

DEC Staff: Kim DeRuyter

Action Description: Prepared a working site summary which is saved to the electronic file.

Not reported

Action Date: 5/27/2008

Action: Update or Other Action

DEC Staff: Kim DeRuyter

Action Description: Previously this site was tracked under 3 separate files: this site,

the FAA Bethel Station Tank Farm site (file 2407.38.016), and the FAA Bethel Station, (file 2407.38.014). The later two sites were closed in an effort to track information for all of the FAA Bethel source

areas under one file.

Action Date: 5/26/2015

Action: Exposure Tracking Model Ranking

DEC Staff: Monte Garroutte

Action Description: Initial ranking with ETM completed for source area id: 79773 name:

Injection Wells - Buildings 300 and 302

Action Date: 12/21/2017

Action: Report or Workplan Review - Other

DEC Staff: Gretchen Caudill

Action Description: DEC Approval - FAA Final Work Plan Former Bethel Airport

Infrastructure Removal & Release Investigation. This work plan details the removal activities of FAA infrastructures, release investigation, and remedial action to be conducted at the FAA infrastructure in the city of Bethel and the Former Bethel Airport. The primary objective of the scope of work during the first

mobilization will be to remove the 164 drums from the former Bethel Airport. The second mobilization will include infrastructure removals

and RI/RA actions.

Action Date: 10/6/2014

Action: Report or Workplan Review - Other

DEC Staff: Melody Debenham

Action Description: Approved Final Sector Field Office Decommissioning Work Plan.

Building 302 and associated underground storage tanks will be removed.

Not reported

Action Date: 1/8/2009

Action: Exposure Tracking Model Ranking

DEC Staff: Kim DeRuyter

Action Description: Initial ranking with ETM completed for source area id: 72530 name:

Bethel Station ASTs, USTs, fuel dist. pipeline

Action Date: 1/29/2003

Action: Site Ranked Using the AHRM

DEC Staff: No Longer Assigned Action Description: Initial ranking.

Action Date: 1/20/2016

Action: Exposure Tracking Model Ranking

Distance Elevation

**EPA ID Number** Site Database(s)

## **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

**EDR ID Number** 

DEC Staff: Monte Garroutte

Action Description: Initial ranking with ETM completed for source area id: 79854 name:

Bethel Direction Finder Facility- Tower and Building

Contaminants:

Gretchen Caudill, gretchen.caudill@alaska.gov Staff:

Contaminate Name1: FAA Bethel Flight Service Station

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Signed CS Determination Control Type:

Control Details Description1: Restricted to Industrial / Commercial Land Use

Contaminant CTD: The Building 300 Injection Well Site is closed with ICs until the

subsurface soil beneath Building 300 is evaluated and contamination

addressed in accordance with a DEC approved work plan.

Contaminant CDR: the FAA shall report to DEC every 5 years to document land use at

Building 300, or report as soon as the FAA becomes aware of any change

in land ownership and/or use, if earlier.

Comments: Soil concentrations beneath Building 300 are unknown.

Staff: Gretchen Caudill, gretchen.caudill@alaska.gov

FAA Bethel Flight Service Station Contaminate Name1:

Between Method 2 Migration to Groundwater and Human Contaminate Level Description1:

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Signed CS Determination Control Type:

Control Details Description1: When Contaminated Soil is Accessible, Remediation Should Occur Contaminant CTD: The Building 300 Injection Well Site is closed with ICs until the

subsurface soil beneath Building 300 is evaluated and contamination

addressed in accordance with a DEC approved work plan.

Contaminant CDR:

Sub-surface soil contamination may be located underneath Building 300. When the building is removed and/or the soil becomes accessible, the soil must be evaluated and contamination addressed in accordance with

a DEC approved work plan.

Soil concentrations beneath Building 300 are unknown. Comments:

**ENG CONTROLS:** 

File Number: 2407.38.012

Facility Status: Cleanup Complete - Institutional Controls Control Details Description: Maintenance / Inspection Of Engineering Controls

Hazard ID: 2465

Inst Control:

Hazard ID: 2608

Cleanup Complete - Institutional Controls Facility Status: Action: Institutional Control Record Established

Action Date: 2/2/2007 2407.38.013 File Number:

Hazard ID: 2608

Facility Status: Cleanup Complete - Institutional Controls

Direction Distance

Elevation Site Database(s) EPA ID Number

## **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

Action: Institutional Control Compliance Review

Action Date: 6/12/2012 File Number: 2407.38.013

Hazard ID: 2608

Facility Status: Cleanup Complete - Institutional Controls

Action: Institutional Control Update

Action Date: 12/4/2013 File Number: 2407.38.013

Hazard ID: 2608

Facility Status: Cleanup Complete - Institutional Controls

Action: Institutional Control Update

Action Date: 12/18/2013 File Number: 2407.38.013

Hazard ID: 2608

Facility Status: Cleanup Complete - Institutional Controls

Action: Institutional Control Update

Action Date: 6/29/2016 File Number: 2407.38.013

Hazard ID: 2608

Facility Status: Cleanup Complete - Institutional Controls

Action: Institutional Control Update

Action Date: 9/15/2016 File Number: 2407.38.013

Hazard ID: 1552 Facility Status: Active

Action: Institutional Control Record Established

Action Date: 8/12/2015 File Number: 2407.38.001

Hazard ID: 24571

Facility Status: Cleanup Complete - Institutional Controls
Action: Institutional Control Record Established

Action Date: 4/27/2004 File Number: 2407.26.002

Hazard ID: 24571

Facility Status: Cleanup Complete - Institutional Controls
Action: Institutional Control Compliance Review

Action Date: 8/18/2015 File Number: 2407.26.002

Hazard ID: 24571

Facility Status: Cleanup Complete - Institutional Controls

Action: Institutional Control Update

Action Date: 8/20/2015 File Number: 2407.26.002

Hazard ID: 24571

Facility Status: Cleanup Complete - Institutional Controls

Action: Institutional Control Update

Action Date: 8/24/2015 File Number: 2407.26.002 **EDR ID Number** 

S107504763

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

## **ERA AVIATION BETHEL AIRPORT FAC. (Continued)**

S107504763

Hazard ID: 24571

Cleanup Complete - Institutional Controls Facility Status:

Institutional Control Update Action:

Action Date: 10/5/2015 File Number: 2407.26.002

Hazard ID: 2465

Facility Status: Cleanup Complete - Institutional Controls Institutional Control Record Established Action:

Action Date: 12/11/2013 File Number: 2407.38.012

Hazard ID: 2465

Cleanup Complete - Institutional Controls Facility Status: Action: Institutional Control Compliance Review

Action Date: 11/10/2014 2407.38.012 File Number:

Hazard ID: 2465

Facility Status: Cleanup Complete - Institutional Controls Institutional Control Compliance Review Action:

Action Date: 5/11/2017 2407.38.012 File Number:

Hazard ID: 2108

Cleanup Complete - Institutional Controls Facility Status: Action: Institutional Control Record Established

Action Date: 10/25/2002 File Number: 2407.38.017

Hazard ID: 2108

Facility Status: Cleanup Complete - Institutional Controls Action: Institutional Control Compliance Review

Action Date: 5/1/2013 2407.38.017 File Number:

Hazard ID: 2108

Facility Status: Cleanup Complete - Institutional Controls

Action: Institutional Control Update

Action Date: 5/27/2014 File Number: 2407.38.017

**ADOT&PF BETHEL MAINTENANCE FACILITY CHIEF EDDIE HOFFMAN HIGHWAY** 

LUST **INST CONTROL** 

< 1/8 **BETHEL, AK 99559** 1 ft.

36

SHWS:

Relative: File Number: 2400.26.001 Lower Staff: Not reported Facility Status: Cleanup Complete Actual: Latitude: 60.784239 99 ft. Longitude: -161.840932

Hazard ID: 24665

Problem: In October 1997 one diesel and one gasoline underground storage tanks were removed. Approximately 43 cubic yards of soil was excavated and

stockpiled on site. The final limits of the excavation were 16 feet by 15 feet by 7 feet deep. Five confirmation soil samples were

S106247545

N/A

SHWS

Direction

Elevation Site Database(s) EPA ID Number

## ADOT&PF BETHEL MAINTENANCE FACILITY (Continued)

S106247545

**EDR ID Number** 

collected from the bottom and sides of the excavation, with maximum concentrations of 14,000 mg/Kg for DRO, 1,800 mg/Kg for GRO, 0.15 mg/Kg for benzene, and 94.2 mg/Kg for total BTEX. The highest contaminant concentrations were located at the southeast end of the excavation area, where the pump island was located. Following the removal of the underground storage tanks, the excavation was lined with a 10-mil plastic liner and backfilled with clean material. The area was later repaved with asphalt.

Actions:

Action Date: 9/14/2010

Action: Exposure Tracking Model Ranking

DEC Staff: Don Fritz

Action Description: A new updated ranking with ETM has been completed for source area

78071 ADOT&PF Bethel Maintenance Facility.

Action Date: 6/9/2008

Action: Exposure Tracking Model Ranking

DEC Staff: Not reported

Action Description: Intitial Ranking Complete for Source Area: 78071 (Autogenerated

Action)

Action Date: 6/14/2004

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: File number assigned and entered into the Fileroom DB and LUS DB.

Action Date: 3/25/1998

Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum

DEC Staff: \* Not Assigned Action Description: Not reported

Action Date: 2/11/1998

Action: Site Added to Database

DEC Staff: \* Not Assigned Action Description: Not reported

Action Date: 12/28/2010

Action: Exposure Tracking Model Ranking

DEC Staff: Don Fritz

Action Description: A new updated ranking with ETM has been completed for source area

78071 ADOT&PF Bethel Maintenance Facility.

Action Date: 10/9/2006

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: Project manager changed from Monica English to Don Seagren, per Paul

Horwath.

Action Date: 1/21/2011

Action: Cleanup Complete Determination Issued

DEC Staff: Don Fritz

Action Description: In May of 2006, in an effort to characterize the nature and extent of

remaining soil contamination, ADEC contracted with a term contractor

to install additional soil borings at the facility. Seven soil

borings were drilled within and around the 1997 UST excavation. Soil

borings extended to a depth of 42 feet below ground surface. Analytical samples were collected from these borings and were

Direction Distance

Elevation Site Database(s) EPA ID Number

### ADOT&PF BETHEL MAINTENANCE FACILITY (Continued)

S106247545

**EDR ID Number** 

analyzed for: BTEX; GRO; and DRO. The analytical samples contained maximum concentrations of 1.34 mg/kg benzene, 452 mg/kg GRO, and 604 mg/kg DRO. Toluene, ethylbenzene, and xylenes were encountered at concentrations below regulatory cleanup levels. Based on the information provided to date, the ADEC has determined that the contaminant concentrations remaining on site do not pose an unacceptable risk to human health or the environment, and this site will be closed.ADEC DecisionThe cleanup actions and natural attenuation to date have served to reduce residual soil and groundwater contaminant concentrations to acceptable levels. Contamination may remain on site in surface or subsurface soil above an established default soil cleanup level; however ADEC has determined there is no unacceptable risk to human health or the environment. Therefore this site is being issued a Corrective Action Complete determination. Although a Corrective Action Complete determination has been granted, ADEC approval is still required for off-site soil disposal in accordance with 18 AAC 78.600(h). 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.

Action Date: 1/21/2011

Action: Institutional Control Record Established

DEC Staff: Don Fritz

Action Description: Institutional Controls established and entered into the database.

LUST:

Facility Name: ADOT&PF BETHEL MAINTENANCE FACILITY

Facility Status: Cleanup Complete Record Key: 1998250000801 File ID: 2400.26.001

Oname: State of Alaska - ADOTPF DES-Design / Engineering Svcs

Lat/Lon: 60.78423 -161.8409

Lust Event ID: 1500
CS or Lust: LUST
Borough: Bethel

Staff: No Longer Assigned
Site Type: Maintenance Yard/Shop

Horizontal Datum: WGS84

Inst Control:

Hazard ID: 24665

Facility Status: Cleanup Complete

Action: Institutional Control Record Established

Action Date: 1/21/2011 File Number: 2400.26.001

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

37 **BETHEL FUEL SALES PUMPHOUSE** SHWS S109568328 N/A

NNE **BETHEL** 

**BETHEL, AK 99559** < 1/8

0.032 mi. 170 ft.

Relative: SHWS:

Lower File Number: Not reported Staff: Not reported Actual: Facility Status: Cleanup Complete 98 ft. Latitude: 60.792206 -161.755737

Longitude: Hazard ID: 285

Problem: Information on this spill consists of a PHS report that was faxed to

WDO on May 5, 1993, from Denton Woodford, PHS. At the time of the spill, PHS reported the spill to several agencies including DEC, and hired Crowley Maritime to clean up the spill. The quantity of fuel

recovered and what was done with it were not reported. The PHS report

states that the fuel spread over a large area and could only be recovered using sorbents, which were burned in a pit with the department's approval. The tank farm is variously referred to in the PHS report as Bethel Fuel Sales, the Bethel tank farm and the Chevron tank farm. The spill history is being reviewed because Oly Olsen of Bethel Fuel Sales has contacted several department personnel recently. Mr. Olsen wants the department to apply pressure to PHS to clean up the site as he plans to upgrade the facility. Although PHS has not taken responsibility for the site, Mr. Woodford plans to visit the site on May 11th while in Bethel on other business. Last

staff assigned was Dronenburg.

Actions:

Action Date: 5/10/1993

Site Added to Database Action: No Longer Assigned DEC Staff:

Action Description: Diesel.

Action Date: 12/1/1994

Site Closure Approved Action: DEC Staff: Ray Dronenburg

There are no records for this loss. BFS has another loss at this time Action Description:

for the same spot so I am closing this and the excavation for the new

loss will encompass this one.

Contaminants:

Staff: Not reported

Contaminate Name1: Bethel Fuel Sales Pumphouse

Contaminate Level Description1: Not reported Contaminate Media1: Not reported

Control Type: No ICs Required

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported Contaminant CDR: Not reported

For more information about this site, contact DEC at (907) 465-5390. Comments:

File Number: 2407.38.005 Staff: Not reported

Direction Distance

Elevation Site Database(s) EPA ID Number

## BETHEL FUEL SALES PUMPHOUSE (Continued)

S109568328

**EDR ID Number** 

Facility Status: Cleanup Complete
Latitude: 60.792206
Longitude: -161.755737
Hazard ID: 1858

Problem: Bank stabilization project discovered contaminated soils near river.

Senator Stevens had budgeted \$14 million but some monies lost to other projects. Project on hold until 1995. Last staff assigned were

Dronenburg then Wright.

Actions:

Action Date: 5/10/1995

Action: Site Added to Database
DEC Staff: Ray Dronenburg
Action Description: Site added to database.

Action Date: 2/15/1996

Action: Site Closure Approved DEC Staff: Ray Dronenburg

Action Description: No further action by ADEC letter sent.

Action Date: 11/9/1995

Action: Site Ranked Using the AHRM

DEC Staff: Bill Wright
Action Description: Initial ranking.

Contaminants:

Staff: Not reported

Contaminate Name1: Bank Stabilization Project

Contaminate Level Description1: Not reported Contaminate Media1: Not reported

Control Type: No ICs Required

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported Contaminant CDR: Not reported

Comments: For more information about this site, contact DEC at (907) 465-5390.

File Number: CS

Staff: Not reported
Facility Status: Cleanup Complete
Latitude: 60.792220
Longitude: -161.755790
Hazard ID: 1033

Problem: Old oil drums amounting in the hundreds leaking in dump. Impact to

human health and date of occurrence unknown. Last staff assigned was

Dronenburg.

Actions:

Action Date: 9/30/1990

Action: Site Added to Database DEC Staff: No Longer Assigned

Action Description: Hundreds of oil drums leaking with possible petroleum contamination

from them.

Action Date: 9/30/1990

Action: Site Ranked Using the AHRM

Distance EDR ID Number
Elevation Site EDR ID Number
Database(s) EPA ID Number

## BETHEL FUEL SALES PUMPHOUSE (Continued)

S109568328

DEC Staff: No Longer Assigned Action Description: Initial ranking.

Action Date: 8/9/1991

Action: Site Number Identifier Changed

DEC Staff: No Longer Assigned

Action Description: Old number was 90220120701, new number is 90250120701, Western

District now.

Action Date: 12/1/1994

Action: Site Closure Approved DEC Staff: Ray Dronenburg

Action Description: There are no records of this loss available at Western District

Office.

Contaminants:

Staff: Not reported

Contaminate Name1: Bethel Dump
Contaminate Level Description1: Not reported
Contaminate Media1: Not reported

Control Type: No ICs Required

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported Contaminant CDR: Not reported

Comments: For more information about this site, contact DEC at (907) 465-5390.

File Number: 2407.38.016
Staff: Not reported
Facility Status: Cleanup Complete
Latitude: 60.785375
Longitude: -161.841912

Hazard ID: 1549 Problem: A 200

A 200 gallon gasoline spill at the FAA's Bethel Station Tank Farm was caused by a leaking gasoline nozzle. The spill occurred inside a small pumphouse but the majority of the gasoline reportedly leaked through a hole in the floor where the fuel line entered the building. FAA personnel discovered the spill on January 14, 1993, but did not report it to ADEC until February 11th. Harding Lawson Associates (HLA) responded to the spill from February 13th through 15th and submitted a report to FAA dated March 17th. FAA submitted the HLA report to ADEC on April 7th. The FAA removed and disposed of the pumphouse, allowing HLA to excavate to a depth of 1 1/2 to 2 feet beneath the building, and remove 3 cubic yards of contaminated soil. HLA personnel noted that some of the staining and odors in the excavation appear to have resulted from previous spills. The volume of remaining soil contaminated by the January 14th spill is estimated by HLA at 25 to 100 cubic yards. VPH concentrations in the three samples taken from the excavation before backfilling were 6,200; 72,700; and 4,950 ppm, with respective benzene concentrations of 206; 2,450; and 186 ppm. 12 drums of contaminated soil and 1 drum of used sorbents are stored at the site. While the estimated depth to groundwater at the Bethel FAA station varies between 11 and 50 feet, this groundwater is not used for drinking water. Drinking water wells

at the station and in the Bethel area are over 400 feet deep and draw

Distance

Elevation Site Database(s) EPA ID Number

#### **BETHEL FUEL SALES PUMPHOUSE (Continued)**

S109568328

**EDR ID Number** 

from an aquifer below the approximately 300 feet thick permafrost layer. Last staff assigned was Dronenburg.

Actions:

Action Date: 6/12/1998

Action: Site Ranked Using the AHRM

DEC Staff: Kent Patrick-Riley

Action Description: Ranking taken from Patrick-Riley spreadsheet.

Action Date: 5/8/2009

Action: Update or Other Action

DEC Staff: Pam Clemens

Action Description: Made corrections to the action entered 3/27/93.

Action Date: 5/31/1993

Action: Meeting or Teleconference Held

DEC Staff: No Longer Assigned

Action Description: WDO verbally approved telephone request by Scott Berglund of FAA to

extend submittal dates until June 1st for the following two plans: 1) a plan for removal of drums containing contaminated soils -- the plan was due on May 26, 1993, as per verbal agreement between Berglund and Olson/WDO) and 2) a work plan for contamination assessment at the

spill site, due on May 31, 1993, as per 3/27 RCA from WDO.

Action Date: 5/15/2000

Action: Update or Other Action

DEC Staff: Eileen Olson

Action Description: Site name changed to FAA Bethel Station Tank Farm from Bethel FAA

Tank Farm. Some of same information is in separate DB listing FAA

Bethel Sta. so need to review file. Also, this DB listing only

addresses one gasoline spill which was closed, and apparently not

historical contamination and releases.

Action Date: 4/29/1993

Action: Site Added to Database DEC Staff: No Longer Assigned Action Description: Gasoline spill.

Action Date: 3/27/1993

Action: Update or Other Action
DEC Staff: No Longer Assigned

Action Description: (Old R:Base Action Code = CORR - Correspondence (General)). Reviewed

Harding Lawson Associates report contracted by the FAA, Release Response Report, Fuel Spill Response, Bethel Station Tank Farm Site, Bethel, AK received on April 12, 1993. WDO sent a letter on 3/27 to FAA which included the following comments and requests: 1) the department determined that initial cleanup and response was satisfactory; 2) additional site assessment and cleanup work will need to be done, and a work plan should be submitted by May 31, 1993; 3) since highly contaminated soils remain at the site (one sample result: 72,000 ppm GRO), interim actions were requested entailing placing a liner over the site and mounding backfill above the liner to divert surface water from the area; 4) RCRA regulations may apply to gasoline contaminated soils excavated and stored at the site, and the work plan should include testing of excavated soils to determine whether they are hazardous waste; and 5) FAA was reminded to report spills within the timeframes required by regulations, and applicable regulations and reporting forms were enclosed with the letter.

Direction Distance

Elevation Site Database(s) EPA ID Number

### **BETHEL FUEL SALES PUMPHOUSE (Continued)**

S109568328

**EDR ID Number** 

Action Date: 12/1/1994

Action: Site Closure Approved

DEC Staff: Eileen Olson

Action Description: Dronenburg says tank farm torn down and soils excavated to 55 gallon

drums, then shipped to Seattle.

Contaminants:

Staff: Not reported

Contaminate Name1: FAA Bethel Station Tank Farm

Contaminate Level Description1: Not reported Contaminate Media1: Not reported

Control Type: No ICs Required

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported Contaminant CDR: Not reported

Comments: For more information about this site, contact DEC at (907) 465-5390.

File Number: 2407.38.014
Staff: Not reported
Facility Status: Cleanup Complete
Latitude: 60.785553
Longitude: -161.840560
Hazard ID: 1580

Problem: Soils at the currently operating FAA station, which includes numerous

related facilities, are reportedly contaminated with gasoline, diesel, solvents, PCBs, pesticides, and metals. Groundwater

contamination has not been documented. Contamination was reported to the department in a report prepared by Ecology and Environment (E&E) Environmental Compliance Investigation Report, Bethel FAA Station, Bethel, Alaska, dated May 1992 and received by the department December 4, 1992. E and E defines an FAA station as a series of facilities and sites initially established by FAA for use in support of air navigation. Therefore, the site number for the Bethel station includes diverse facilities and numerous contaminated sites. The station is located in the Yukon Delta National Wildlife Refuge. While the estimated depth to groundwater at the Bethel FAA station varies between 11 and 50 feet, this groundwater is not used for drinking water. Drinking water wells at the station and in the Bethel area are over 400 feet deep and draw from an aquifer below the approximately 300 foot thick permafrost layer. The Bethel FAA facility has not been listed on the EPA's Federal Agency Hazardous Waste Compliance Docket,

but is considered by FAA to be eligible for future listing. Last

staff assigned was Dronenburg.

Actions:

Action Date: 7/20/2001

Action: Update or Other Action

DEC Staff: Eileen Olson

Action Description: Site closure / NFA for former tank 19-F-1 at the Flight Service

Station.

Action Date: 5/15/2000

Action: Update or Other Action

DEC Staff: Eileen Olson

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

## **BETHEL FUEL SALES PUMPHOUSE (Continued)**

S109568328

Action Description: Changed site name to FAA Bethel Station from Bethel FAA Station. File

review needed as the action above refers to tank farm, which is

separately listed in the DB.

Action Date: 4/29/1993

Site Added to Database Action: DEC Staff: No Longer Assigned

Action Description: Gasoline, diesel, solvents, PCBs, pesticides, and metals.

Action Date: 4/29/1993

Action: Site Ranked Using the AHRM

DEC Staff: Ray Dronenburg Action Description: Initial ranking.

Action Date: 12/1/1994

Action: Site Closure Approved DEC Staff: Ray Dronenburg

Action Description: Tank farm dismantled and soils excavated. Soils were put in 55 gallon

drums for disposal outside the state.

Contaminants:

Staff: Not reported

**FAA Bethel Station** Contaminate Name1: Contaminate Level Description1: Not reported Contaminate Media1: Not reported

Control Type: No ICs Required

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Not reported Contaminant CDR: Not reported

Comments: For more information about this site, contact DEC at (907) 465-5390.

**ROBAIR REPAIR-BETHEL AIRPORT** SHWS S109255472

NE **3241 NORTH R BETHEL, AK 99559** 1/8-1/4

0.195 mi.

**B38** 

1032 ft. Site 1 of 2 in cluster B

Relative: SHWS:

Lower File Number: 2407.26.009 Staff: Not reported Actual: Facility Status: Cleanup Complete 94 ft. Latitude: 60.786592

Longitude: -161.835313 Hazard ID: 22910

Problem: Last staff assigned was Balogh and then English.

Actions:

Action Date: 9/22/1995

Action: Release Investigation DEC Staff: \* Not Assigned

Action Description: RELR; Review closure SA at request of DOT.

12/16/1998 Action Date:

Site Closure Approved Action: DEC Staff: \* Not Assigned

N/A

Direction Distance

Elevation Site Database(s) EPA ID Number

## ROBAIR REPAIR-BETHEL AIRPORT (Continued)

S109255472

**EDR ID Number** 

Action Description: stockpile missing

Action Date: 12/10/2004

Action: Update or Other Action

DEC Staff: Alyce Hughey

Action Description: File number 2407.26.009 assigned and entered into the Fileroom

database and Leaking Underground Storage Tank database.

Action Date: 11/21/1997

Action: Update or Other Action
DEC Staff: \* Not Assigned

Action Description: Letter Returned. Address Wrong. Resend to Robert Goethals 6381 NW

Aileron Ct. Silverdale, WA 98983.;;

Action Date: 11/20/1997

Action: Update or Other Action
DEC Staff: \* Not Assigned

Action Description: ADEC sends Notification of Intent to Cost Recover Letter to Current

Owner: ROBERT GOETHALS

Action Date: 10/7/1993

Action: Site Added to Database

DEC Staff: \* Not Assigned Action Description: Not reported

Action Date: 10/28/1993

Action: Leaking Underground Storage Tank Corrective Action Underway

DEC Staff: \* Not Assigned

Action Description: LCAR;

Action Date: 10/28/1993

Action: Update or Other Action
DEC Staff: \* Not Assigned

Action Description: CAPR;

Action Date: 10/28/1993

Action: Underground Storage Tank Site Characterization or Assessment

DEC Staff: \* Not Assigned

Action Description: SA1R;

Action Date: 10/28/1993

Action: Update or Other Action
DEC Staff: \* Not Assigned

Action Description: NOR;

Action Date: 10/28/1993

Action: Leaking Underground Storage Tank Cleanup Initiated - Petroleum

DEC Staff: \* Not Assigned

Action Description: LCAU;

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**B39 ROBAIR REPAIR CO** LUST 1000473419 NE **3241 N RAMP** RCRA NonGen / NLR AKD983068933

1/8-1/4 **BETHEL, AK 99559** 

0.195 mi.

1032 ft. Site 2 of 2 in cluster B

LUST: Relative:

Lower Facility Name: ROBAIR REPAIR-BETHEL AIRPORT

Actual: 94 ft.

Facility Status: Cleanup Complete Record Key: 1993250028051 File ID: 2407.26.009 Oname: Robert Goethals 60.78659 -161.8353 Lat/Lon:

Lust Event ID: 725 LUST CS or Lust: Borough: Bethel

Staff: No Longer Assigned

Site Type: Unknown Horizontal Datum: WGS84

RCRA NonGen / NLR:

Date form received by agency: 10/11/1990

ROBAIR REPAIR CO Facility name: Facility address: 3241 N RAMP

BETHEL, AK 99559

EPA ID: AKD983068933 N RAMP BOX 2214 Mailing address:

BETHEL, AK 99559 ROBERT GOETHALS

Contact: Contact address: 3241 N RAMP BOX 2214 BETHEL, AK 99559

US

Contact country:

907-543-2003 Contact telephone: Contact email: Not reported

EPA Region: 10

Classification: Non-Generator

Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

ROBERT M GOETHALS Owner/operator name:

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported Owner/operator telephone: Not reported Not reported Owner/operator email: Not reported Owner/operator fax: Not reported Owner/operator extension: Legal status: Private Owner/Operator Type: Owner Owner/Op start date: Not reported Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No Mixed waste (haz. and radioactive): No Recycler of hazardous waste: No Transporter of hazardous waste: No Treater, storer or disposer of HW: No

Direction Distance

**EDR ID Number** Elevation Site **EPA ID Number** Database(s)

**ROBAIR REPAIR CO (Continued)** 

1000473419

Underground injection activity: No On-site burner exemption: No Furnace exemption: No Used oil fuel burner: No Used oil processor: No User oil refiner: No Used oil fuel marketer to burner: No Used oil Specification marketer: Nο Used oil transfer facility: No Used oil transporter: No

NONE Waste code: Waste name: None

Violation Status: No violations found

40 **BETHEL RADIO RELAY STATION** WNW ~5 MILES W OF, BETHEL 1/2-1 BETHEL, AK 99559

S107504601 SHWS **INST CONTROL** N/A

0.833 mi. 4398 ft.

Relative: SHWS:

Higher File Number: 2407.38.010

Staff: Gretchen Caudill, gretchen.caudill@alaska.gov Actual: Facility Status: Active 115 ft.

Latitude: 60.778282 Longitude: -161.885805 Hazard ID: 2831

Vehicle maintenance facility (SS02) and equipment building (SS04) Problem:

were razed and buried on site by 611 CES in 1990. Other drums were disposed of by 611 CES, but stained surface soils remain (LF07). Petroleum contaminated soil and shallow groundwater are present near the former fuel tank(s). 14-acre installation surrounded by wetlands. Formerly part of a much larger military withdrawl. Small fuel distribution facility on 100' x 100' gravel pad (SS01). Permafrost at 18-20' below ground surface. Groundwater at 9' to >25' below ground surface. Local residents use this area for hunting and berry

picking.

Actions:

9/6/1995 Action Date:

Action: Update or Other Action

DEC Staff: S&W-Miner Action Description:

(Old R:Base Action Code = SI - Site Investigation). SI action added by Shannon and Wilson, Inc. on 02/11/1997, based on Air Force

Relative Risk Evaluation Worksheet dated 9/6/95, which indicates SI

is currently in phase. No other information available.

9/4/2009 Action Date:

Action: Update or Other Action DEC Staff: Debra Caillouet

Action Description: Staff acknowledged receipt of the final Work Plan Addendum Supplement

DDT and Septic Tank Outfall Area Interim Removal Action. The implementation of the work was approved based on the draft and there

are no changes in the final.

Action Date: 9/19/2007

Update or Other Action Action:

Distance

Elevation Site Database(s) EPA ID Number

## **BETHEL RADIO RELAY STATION (Continued)**

S107504601

**EDR ID Number** 

DEC Staff: Debra Caillouet

Action Description: Staff sent comments on the draft RI work plan

Action Date: 8/8/2011

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final Work Plan - PCB Contaminated Soil Stockpile Removal at ST001

Bethel RRS dated July, 2011. There is approximately 70 cubic yards (cy) of soil with PCB concentrations between 1.0 and 8.5 mg/Kg at the SS001 site. The soil with PCB concentrations between 1.0 and 8.5 mg/Kg will be containerized and shipped offsite to an approved

landfill for disposal.

Action Date: 8/29/2014

Action: Report or Workplan Review - Other

DEC Staff: Curtis Dunkin

Action Description: ADEC contaminated sites staff reviewed the 2014 revised final

long-term monitoring work plan for Site SS001 and submitted approval to the Air Force. Biennial monitoring is being conducted at site SS001 as required by the 2011 Record of Decision. Monitoring efforts

planned for 2014 include the decommissioning of a previous

groundwater monitoring well and the installation of a new monitoring well along with the collection of groundwater samples for analysis.

Planned activities also include inspecting the landfill cap, perimeter exclusion fencing, and the installation of warning/no

trespassing signs.

Action Date: 8/26/2011

Action: Report or Workplan Review - Other

DEC Staff: Curtis Dunkin

Action Description: ADEC-CS staff reviewed the draft 2011 Removal Action and Demolition

Work Plan and submitted comments to the Air Force. After resolution

of comments, ADEC approved the final work plan.

Action Date: 8/25/2008

Action: Update or Other Action
DEC Staff: Debra Caillouet

Action Description: Significant comment was sent to the Air Force on the Draft Remedail

Investigation report for 2007 work.

Action Date: 8/19/2008

Action: Interim Removal Action Approved

DEC Staff: Debra Caillouet

Action Description: The Work Plan Addendum, DDT and Septic Tank Outfall Area, Interim

Removal Acion, Bethel Radio Relay Staion, Final August 2008 was

approved.

Action Date: 8/17/2017

Action: Report or Workplan Review - Other

DEC Staff: Joy Whitsel

Action Description: DEC approved the final work plan addendum to the 2014 Work Plan for Biennial Groundwater Monitoring Site SS001. The work plan addendum

describes the environmental monitoring and site investigation activities that will be performed at the SS001 operating unit. The monitoring activities will consist of the collection groundwater

depth measurements and the investigation for free product from both site monitoring wells and the collection of groundwater samples from

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

## **BETHEL RADIO RELAY STATION (Continued)**

S107504601

monitoring well MW19RRS-R for analysis of DRO concentrations. In addition, the project field team will inspect the condition of the existing landfill cap and assess the effectiveness of the cap and the established land use controls (LUCs) in mitigating exposure to the residual site contaminants.

Action Date: 8/17/2012

Action: Report or Workplan Review - Other

DEC Staff: Curtis Dunkin

Action Description: ADEC-CS staff reviewed the draft 2012 Site Inspection and Groundwater

Monitoring Work Plan and submitted comments to the Air Force. After resolution of comments, ADEC approved the final work plan. Work is being conducted as required by the long-term monitoring controls

outlined in the 2011 ROD.

Action Date: 8/14/2011

Action: Long Term Monitoring Established

DEC Staff: Curtis Dunkin

Action Description: As required by the final 2011 ROD, visual inspection and monitoring

of the protective cap and exclusion fence will occur at least once every 5 years along with CERCLA 5-yr. reviews. The ROD also requires biennial sampling of groundwater to evaluate whether monitored natural attenuation of DRO-contaminated suprapermafrost groundwater

at the site continues to progress at an acceptable rate.

Action Date: 8/14/2011

Action: Institutional Control Record Established

DEC Staff: Curtis Dunkin

Action Description: Institutional Controls established and entered into the database.

Action Date: 8/14/2011

Action: CERCLA ROD Approved

DEC Staff: Curtis Dunkin

Action Description: ADEC-CS staff reviewed the draft 2011 Bethel RRS Record of decision

and submitted comments to the Air Force. After resolving comments and revision requests, ADEC reviewed and approved the final ROD, which was signed by John Halverson on August 09, 2011, and by the USAF on August 14, 2011. The selected remedies include removing and disposing of the PCB-contaminated soil off site, and implementing instutional controls; including maintaining current property records and land use controls in the Air Force's forthcoming Land Use Control Plan, visual inspection and monitoring of the protective cap and exclusion fence every 5 years, and biennial sampling of groundwater to evaluate whether monitored natural attenuation of DRO-contaminated suprapermafrost groundwater at the site continues to progress at an

acceptable rate.

Action Date: 7/31/2008

Action: Update or Other Action

DEC Staff: Debra Caillouet

Action Description: Comments were sent to the Air Force on the Draft Work Plan Addendum,
Bethel Radio Relay Station, DDT and Septic Tank Outfall Area, Interim

Removal Action. The plan had did not address the U listed DDT and staff requested the Air Force coordinate with EPA to determine the appropriate treatment, storage and disposal for the RCRA waste. The

laboratory proposed for use is not a DEC approved lab.

Distance

Elevation Site Database(s) EPA ID Number

## **BETHEL RADIO RELAY STATION (Continued)**

S107504601

**EDR ID Number** 

Action Date: 7/26/2007

Action: Update or Other Action
DEC Staff: Debra Caillouet

Action Description: Staff sent the Air Force comment on the draft supplemental site

investigation work plan

Action Date: 7/23/2002

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final Management Action Plan for Bethel Radio Relay Station dated

July 2002.

Action Date: 7/13/1994

Action: Update or Other Action DEC Staff: John Halverson

Action Description: ADEC received a draft preliminary assessment report from the Air

Force. It documents the presence of petroleum contaminated soil and groundwater (suprapermafrost), DDT in soil, and an on-site landfill that contains the fromer structures and debris from the site. The landfill was created in 1989 and 1990 when the Air Force tore down the site and buried the wastes beneath the gravel pad. Further

investigation and/or cleanup were recommended.

Action Date: 7/10/2009

Action: Report or Workplan Review - Other

DEC Staff: Debra Caillouet

Action Description: Staff reviewed and approved the supplemental IRA work plan.

Action Date: 7/1/2003

Action: Cleanup Plan Approved

DEC Staff: Bob Glascott

Action Description: DEC approved the landfarming plan that calls for dismantling the

biocell containing soil from the BIA Administrative Site and landfarming the soil at the RRS. \*\*Note, this is not a cleanup plan for the RRS, which still needs further characterization and cleanup work. Environmental Work and Quality Plans Part I - Project Activities Work Plan dated June 2003. Part II - Field Sampling Plan dated September 2002. Part III - Quality Assurance Program Plan dated

September 2002.

Action Date: 6/24/1989

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: Air Force provided ADEC a memorandum stating that a preliminary

assessment was done at the Radio Relay Site (RRS) and that further work is necessary under the Installation Restoration Program.

Action Date: 6/23/2011

Action: CERCLA Proposed Plan

DEC Staff: Curtis Dunkin

Action Description: ADEC-CS staff participated in the public meeting for the June, 2011

Proposed Plan at the City Hall in Bethel, AK.

Action Date: 6/23/2011
Action: Site Visit
DEC Staff: Curtis Dunkin

Action Description: While in Bethel to participate in the public meeting for the 2011

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

# BETHEL RADIO RELAY STATION (Continued)

S107504601

Proposed Plan, contaminated sites staff conducted a site visit of the Bethel RRS. One of the previous four radio relay towers remains standing and is planned for demolition disposal in the onsite landfill in 2011. Staff also inspected the POL Pad Site (SS001), the stockpile of PCB-contaminated soil that will be disposed offsite in 2011, the ground water monitoring wells associated with the POL Pad area, the Landfill/Pad Area (SS010), the DDT Area (SS006), and the STO Area (SS009). There is evidence of ongoing trespassing and vandalism, which is suspected to decrease significantly once the last remaining tower is demolished and buried in the landfill pad area.

Action Date: 6/17/2011

Action: CERCLA Proposed Plan

DEC Staff: Curtis Dunkin

Action Description: ADEC-CS staff reviewed and approved the final June, 2011 Proposed Plan

Not reported

Action Date: 6/16/2017

Action: Institutional Control Periodic Reporting

DEC Staff: Joy Whitsel

Action Description: DEC approved the 2016 Site SS001 First Five-Year Report. The report

concludes that the remedy is protective of human health and the environment. To maintain long-term protectiveness, concerns raised by DEC regarding the remedy performance, including the efficacy of the exclusion measures and the integrity of the soil cap, will have to be addressed. Site inspections will be increased to 2 times per year for the first 2 years (once in the spring, and once in the fall) to

ensure that the exclusion measures are maintained. Additionally, the USAF will conduct additional public outreach in Bethel to communicate

the hazards associated with Site SS001.

Action Date: 6/11/2013

Action: Exposure Tracking Model Ranking

DEC Staff: Curtis Dunkin

Action Description: A new updated ranking with ETM has been completed for source area

73807 Radar Station.

Action Date: 6/10/2005

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: DEC approved the landfarming technical memo and concurred no further

soil treatment is required for the soil which was excavated from the BIA site, moved to a biocell at the RRS site and subsequently landfarmed in 2003-04. \*\*Note, site characterization and cleanup work at the Bethel RRS site has not been completed and is planned for a

later date.

Action Date: 4/25/2012

Action: Report or Workplan Review - Other

DEC Staff: Curtis Dunkin

Action Description: ADEC-CS Staff reviewed the draft 2011 Removal Action and Demolition

Report and submitted comments to the Air Force. After resolving comments, ADEC approved the final report. 2011 remedial efforts included removing and disposing of the 70 cu yard stockpile of PCB-contaminated soil offsite and the demolition and offsite disposal

of the remaining radio relay tower.

Distance

Elevation Site Database(s) EPA ID Number

## **BETHEL RADIO RELAY STATION (Continued)**

S107504601

**EDR ID Number** 

Action Date: 3/7/2013

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: ADEC received the 2012 Site SS001 and PAD Area Annual Inspection and

Biennial Groundwater Monitoring Letter Reports on this date. Damage to the northern gate, an exposed liner, surface water ponding, and

erosion areas were observed.

Action Date: 3/26/2010

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: DDT and Septic Tank Outfall 2009 Interim Removal Action Report -

Bethel Radio Relay Station Technical Memorandum dated March 26, 2010.

The intent of the 2009 IRA was to excavate and dispose of any remaining in situ soil contamination of PCB in the former septic tank outfall and DDT in the DDT excavation. Conclusions from this report suggest that no further action is required with regard to the DDT excavation. The three final soil confirmation samples collected from the final excavation effort at the STO contained PCB just above the ADEC Cleanup levels, but are below ADEC's cumulative risk level for

PCB. The remaining 60 to 70 cubic yards of stockpiled

PCB-contaminated soil will require proper disposal in the future.

Action Date: 3/20/2009

Action: Update or Other Action
DEC Staff: Debra Caillouet

Action Description: Staff reviewed the draft IRA report and sent comment

Action Date: 3/1/2010

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final Report Remedial Investigation dated March 2010. The objectives

of the RI were to characterize past hazardous waste disposal and spill areas, obtain characterization data to complete a baseline RA,

and make recommendations for future remedial actions.

Action Date: 2/8/2005

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: DEC received a final Technical Memorandum Bethel Bio-cell Soil

Landfarming Remedial Action document, dated January 2005.

Action Date: 2/6/2002

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: Staff discussed the biocell cleanup project status with the Air Force

management. They plan to propose changing to landfarming, but not changing the soil cleanup levels. This would require an explanation

of significant differences to the record of decision, but not

formally changing the ROD.

Action Date: 2/28/2018

Action: Update or Other Action
DEC Staff: Gretchen Caudill

Action Description: DEC Approval ??? Final Remedial Action-Operations / Long-Term

Management Report, Bethel Radio Relay Station, Site SS001, February 2018 detailing the assessment of the land use controls including

Direction Distance Elevation

ion Site Database(s) EPA ID Number

## **BETHEL RADIO RELAY STATION (Continued)**

S107504601

**EDR ID Number** 

signage and fencing; the inspection of the landfill cap, and monitoring of groundwater. Most of the signage is undamaged and the integrity of the fencing is intact, however two gates have been damaged. The landfill cap is reported to be in good condition and free of erosion. Groundwater contamination was documented as elevated compared to previous sampling events with DRO detected at 6.54 mg/L, more than ten times higher than the concentration reported in 2016. DEC concurs that continued groundwater monitoring at Bethel Radio Relay Station and further outreach regarding the hazards of the site to the Bethel community are necessary.

Action Date: 2/10/1997

Action: Site Added to Database

DEC Staff: S&W-Miner

Action Description: Site added by Shannon and Wilson, Inc.

Action Date: 12/19/2003

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: DEC recevied a Technical Memorandum of the Bethel Bureau of Indian

Affairs (BIA) Biocell Demolition and Landfarm Construction, Dec. 2003. The report describes closure of the biocell and construction of

a fenced landfarming area.

Action Date: 11/6/2007

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Supplemental Site Investigation Work Plan for Bethel RRS dated

October 2007 and received by ADEC on this date. This document includes the work plan, sampling and analysis plan, health and safety

plan, and data management plan.

Action Date: 11/18/2015

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final Project Activities Addendum to the 2014 LTM Work Plan Bethel

Radio Relay Station Site SS001 dated November 2015 and received by ADEC on this date. This document summarizes the procedures for conducting site restoration by placement of 100cy of clean backfill for an erosion ditch, repair of fencing and gates, sampling of a groundwater monitor well and securing all wells with new locks.

Action Date: 11/17/2010

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final Supplemental Feasibility Study dated October 2010. The purpose

of this report was to re-evaluate the disposal of PCB contaminated stockpiled soil with PCB concentrations of less than 10 mg/kg.

Action Date: 11/14/1997

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final Management Action Plan submitted for the Bethel RRS. MAP

includes: 1) restoration objectives; 2) identifies contaminated sites, condition of property; 3) IRP status summary; 4)

installation-wide strategy; 5) master schedule of planned activities.

Hard copy filed under 2407.38.008.

Distance Elevation Site

Database(s)

**EDR ID Number EPA ID Number** 

S107504601

### **BETHEL RADIO RELAY STATION (Continued)**

Action Date: 10/9/2007

**Exposure Tracking Model Ranking** Action:

DEC Staff: Debra Caillouet Action Description: Not reported

Action Date: 10/8/1999

Update or Other Action Action: DEC Staff: John Halverson

Action Description: Between 1996 and 1998, during the Air Force cleanup at the 27 acre

BIA Adminstrative Site (former WACS and AWCS), approximately 9,000 cubic yards of petroleum contaminated soil were excavated and placed in a bioremediation cell located over the landfill at the RRS. Also, monitoring wells installed at the RRS during the PA were periodically sampled along with wells installed at the BIA site. Petroleum contaminated soil and shallow groundwater, the landfill and the biocell remain at this site and all still need to be addressed.

Action Date: 10/5/2001

Action: Update or Other Action DEC Staff: John Halverson

Action Description: Staff reviewed and responded to a letter from the Air Force proposing

> that ADEC determine groundwater beneath the site is not a potential future drinking water source and raising the soil cleanup levels to ten times the method two migration to groundwater cleanup levels. This would require an amendment to the record of decision. The ADEC

letter describes the steps necessary to accomplish this.

Action Date: 10/29/2002

Action: Update or Other Action DEC Staff: John Halverson

Action Description: DEC and the Air Force signed an Explanation of Significant

> Difference, amending the Record of Decision of the Bethel BIA site. The remedy for soil placed in the biocell at the RRS was changed from treatment in a biocell to landfarming. Workplans still need to be

reviewed and approved before the biocell is dismantled.

Action Date: 1/23/2015

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final Technical Project Report - Biennial Groundwater Monitoring Site

> SS001 dated January 2015 and received by ADEC on this date. Field activities consisted of decommissioning damaged well MW-19RRS. installing replacement well MW-19RRS-R, monitoring site groundwater, performing visual inspection, photo documentation, and repair of

existing fencing, signage, and Pad Area soil cap.

Action Date: 1/1/2001

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Year 2000 Biocell Performance Report dated January 2001. Activities

conducted during the 2000 field season included: 1) turning the blower system on to route air through the injection lines 2) continue the treatment and discharge of precipitation water 3) collect performance samples 4) collect interim closure samples from the top

three feet of soil in the biocell.

Direction Distance

Elevation Site Database(s) EPA ID Number

# **BETHEL RADIO RELAY STATION (Continued)**

S107504601

**EDR ID Number** 

Contaminants:

Staff: Gretchen Caudill, gretchen.caudill@alaska.gov

Contaminate Name1: Bethel Radio Relay Station

Contaminate Level Description1: Other Contaminate Media1: Soil

Control Type: Land Use Plan / Maps / Base Master Plan

Control Details Description1: Groundwater Monitoring

Contaminant CTD: Not reported

Contaminant CDR: Site inspections of the protective cap and exclusion fence surrounding

the landfill every 5 years and biennial ground water monitoring to

evaluate whether MNA continues at an acceptable rate

Comments: Not reported

Staff: Gretchen Caudill, gretchen.caudill@alaska.gov

Contaminate Name1: Bethel Radio Relay Station

Contaminate Level Description1: Other Contaminate Media1: Groundwater

Control Type: Land Use Plan / Maps / Base Master Plan

Control Details Description1: Groundwater Monitoring

Contaminant CTD: Not reported

Contaminant CDR: Site inspections of the protective cap and exclusion fence surrounding

the landfill every 5 years and biennial ground water monitoring to

evaluate whether MNA continues at an acceptable rate

Comments: Not reported

Inst Control:

Hazard ID: 2831 Facility Status: Active

Action: Institutional Control Record Established

Action Date: 8/14/2011 File Number: 2407.38.010

Hazard ID: 2831 Facility Status: Active

Action: Institutional Control Periodic Reporting

Action Date: 6/16/2017 File Number: 2407.38.010

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41 BETHEL BIA HEADQUARTERS SHWS \$104892333 SSE 4 MILES WEST OF BETHEL N/A 1/2-1 BETHEL, AK 99559

0.890 mi. 4700 ft.

Relative: SHWS:

Higher File Number: 2407.38.007

Actual: Staff: Gretchen Caudill, gretchen.caudill@alaska.gov

120 ft. Facility Status: Active
Latitude: 60.785381

Longitude: -161.881143 Hazard ID: 2899

Problem: Petroleum and PCB contamination, an abandoned sewage lagoon

Direction Distance

Elevation Site Database(s) EPA ID Number

#### **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

**EDR ID Number** 

containing low level PCBs, and fuel tanks including a bulk storage tank farm, all were left at this inactive site. The site as defined for this cleanup consists of 27 acres of land which had been used by the Bureau of Indian Affairs. It had been part of a much larger site withdrawn from public land for military use. The Air Force developed a portion of the site in 1957 which served as the Aircraft Control and Warning portion of the White Alice Communication System. It later was used as part of the Radio Relay Site. Of the original military withdrawal, 1,467 acres were declared excess and have been portioned out to other land managers and owners over the years. Portions that were transferred out of Department of Defense control may be eligible for investigation and cleanup under the FUDS Program. The Department of Interior (DOI) was given control of 125 acres in 1963. Public law 102-497 stipulates that the Air Force and BIA will jointly cleanup 27 acres of the site so that land can be transferred to the Yukon Kuskokwim Health Corporation. The Air Force and BIA entered into an agreement on how they would jointly conduct any necessary cleanup.In 1993 an estimated 100,000 gallons of diesel fuel spilled from a line connected to one of the above ground bulk fuel storage tanks. That spill is being addressed by the Department of Interior, BIA and ADEC and is entered in this database as a separate site called Bethel BIA Spill - White Alice Tank.In 2010, USFWS documented PCBs and pesticides in the Composite Building and adjacent to the lagoon on Bethel Native Corporation Land. As of 2018, the land resides with USFWS. Composite Building has caught fire twice - 2010 and 2017, the results the from the latter are still unknown.

Actions:

Action Date: 9/5/1995

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Addendum to Sampling/Analysis and Quality Assurance/Quality Control

and Site Safety and Health Plans dated August 1995 and received by

ADEC on this date.

Action Date: 9/29/1995

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Bioremediation Treatment Cell Development, Operation, and Maintenance

Workplan dated September 1995 received by ADEC on this date.

Action Date: 9/17/2001

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Draft Groundwater Use Determination Bethel Biocell Site dated

September 2001 and received by ADEC on this date.

Action Date: 9/10/1996

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Asbestos Abatement Activity Report performed by USAF received by DEC

on this date.

Action Date: 8/6/2018

Action: Update or Other Action DEC Staff: Gretchen Caudill

Action Description: DEC Request for Interim Engineering Controls. Known conditions at the

site are currently not protective of human health and as the

Distance EDR ID Number Elevation Site EDR ID Number Database(s) EPA ID Number

## **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

landowner, USFWS should prevent exposure to site visitors and trespassers by implementing controls to inform and prevent access. DEC is requesting interim engineering controls be placed on the site as follows access to areas of known contamination should be restricted by fencing or other means; and trespassers should be alerted to the presence of hazardous substances by signage. DEC requested a response within 30 days with a plan to implement

institutional controls on the site.

Action Date: 7/27/1994

Action: Interim Removal Action Approved

DEC Staff: John Halverson

Action Description: ADEC received an addendum to previously submitted workplan documents.

With this submittal the workplans were determined to be complete and were approved. Called for excavation of petroleum contaminated soil and placement in bioremediation cells to be constructed on the 14 acre Radio Relay Site, which is still controlled by the Air Force. The plan was implemented over the summer and late into the fall.

Action Date: 7/20/1998

Action: Update or Other Action

DEC Staff: John Halverson

Action Description: ADEC sent a letter to the Air Force recommending it test for PCBs

inside the former WACS building since the ultimate objective of the cleanup is to transfer the land and building to YKHC; similar WACS buildings in Alaska have often had PCB contamination in the generator

rooms and adjacent areas.

Action Date: 7/18/1996

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Draft Final Quality Program Plan Addendum for Remedial Actions at the

Bureau of Indian Affairs Administrative Site dated July 1996 and

received by ADEC on this date.

Action Date: 7/17/1998

Action: Cleanup Plan Approved

DEC Staff: John Halverson

Action Description: ADEC reviewed and commented on the draft remedial action plan and

associated documents prepared by BNCI. Several issues needed clarification or resolution. A comment resolution meeting was held and the contractor proceeded with implementing field work.

Action Date: 7/10/2009

Action: Report or Workplan Review - Other

DEC Staff: Debra Caillouet

Action Description: Draft Site Investigation Workplan received on July 6, 2009. Staff

prepared comment on the draft Site Investigation plan.

Action Date: 6/9/1999

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: ADEC received the Final Report for Sampling Activities Conducted

Under Contract No. DACA85-94-D-0016. Work completed under this project included groundwater sampling of wells located between the 27-acre BIA site and the 14-acre USAF site, bioattenuation soil sampling of surface soils in the foot print of a historical 1993

Distance Elevation

tion Site Database(s) EPA ID Number

# **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

**EDR ID Number** 

fuel-oil spill, and PCB wipe sampling of the floor surface of the electrical generation and distribution facility within Building 413

on the 27-acre BIA site.

Action Date: 6/9/1999

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final 1998 Performance Report Bioremediation Treatment Cell dated

March 1999 and received by ADEC on this date. Activities conducted during 1998 operating season included continuation of the treatment and discharge of precipitation water that had accumulated in the biocell and the collection of performance samples after three seasons

of biocell operation.

Action Date: 6/8/2010
Action: CERCLA SI
DEC Staff: Curtis Dunkin

Action Description: ADEC received the draft 2009 Site Investigation Report that was

conducted by the USFWS. ADEC staff reviewed the draft report and participated in a planning meeting with representatives from the

USFWS and their contractor to discuss ADEC's preliminary comments on the draft report as well as ADEC's request that the USFWS conduct future work and also development and implement adequate and appropriate institutional controls. The USFWS informed ADEC that at the current time the USFWS did not have funding available to complete

the draft report.

Action Date: 6/30/2003

Action: Update or Other Action

DEC Staff: Bob Glascott

Action Description: DEC received the final workplan for the Bethel BIA Biocell Remedial

Action, Bethel Radio Relay Station.

Action Date: 6/28/2018

Action: Update or Other Action
DEC Staff: Gretchen Caudill

Action Description: Request for response to PRP notification sent to BIA, USFWS, and

USAF. Response requested within 15 days.

Action Date: 6/15/1991

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: (Old R:Base Action Code = SI - Site Investigation). The Air Force

conducted a Site Investigation in 1991. Issues of concern on the 13 acre FUDS parcel include petroleum and PCB contamination. Additional investigation and possible cleanup are necessary. Petroleum and PCB

contamination present at the 27 acre site.

Action Date: 6/10/2005

Action: Update or Other Action

DEC Staff: John Halverson

Action Description: Copies of the biocell dimantling and landfarm setup workplan and tech

memo were found, DEC received them on June 30 and Dec 19, 2003.

Action Date: 6/10/2005

Action: Update or Other Action
DEC Staff: John Halverson

Direction Distance Elevation

tance EDR ID Number vation Site Database(s) EPA ID Number

## **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

Action Description: DEC sent the Air Force a letter approving the soil

treatment/landfarming and stating no further soil treatment is required. Institutional controls still need to be established for the

former BIA headquarters site.

Action Date: 5/7/1999

Action: Update or Other Action DEC Staff: John Halverson

Action Description: ADEC reviewed and provided comments to the Air Force on the draft

Bethel BIA 27 Acre Administrative Site Lagoon Dewatering and Capping Project, Technical Report dated February 1999. Several items need to be clarified in the final report. These will be addressed in the final site cleanup report that will include documentation on the PCB

contaminated concrete cleanup.

Action Date: 5/31/2000

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: ADEC received the Final Technical Report August 1999 for BIA 27 Acre

Administration Site Lagoon Dewatering and Capping Project, prepared by BNCI. The report documents cleanup work completed at the sewage lagoon, management of soil removed from the lower lagoon, dewatering the upper lagoon and capping both the upper and lower lagoon, soil removal within building 413 and efforts to wash PCBs from concrete in

the building.

Action Date: 5/30/2000

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: ADEC received the Final Technical Report for PCB Removal at the

Bethel BIA - 27 Acre Administration Site, Building 413, by BNCI. The report documents that PCB contaminated concrete was removed from portions of the generator and transformer rooms and that samples from

the remaining concrete met cleanup levels.

Action Date: 5/25/2017

Action: Report or Workplan Review - Other

DEC Staff: Gretchen Caudill

Action Description: DEC Approval - Remedial Investigation and Limited Removal Report for

the Bethel Airport and Bethel BIA Headquarters, FUDS. This work addresses the 18 acre parcel only at the former BIA Headquarters area. POL and related contaminants were present in the Pit 3 Area, Drum Storage Areas (1 and 2), the 4,000-Gallon Fuel Storage Area, and the Kerosene Drum Area. Subsurface contamination is present to 8 ft bgs in Pit 3, 6 ft bgs in Drum Storage Area (Area 1), and 4 ft in Drum Storage Area (Area 2). Solvents (TCE) were present in the Pit 3 Area at 7 ft bgs. Further delineation work remains for several sites.

Action Date: 5/15/2009

Action: Meeting or Teleconference Held

DEC Staff: Debra Caillouet

Action Description: Staff met with BIA and their contractor to discuss characterization

needs prior to land transfer.

Action Date: 4/8/2005

Action: Update or Other Action DEC Staff: Update or Other Action John Halverson

Direction Distance

Elevation Site Database(s) EPA ID Number

## **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

**EDR ID Number** 

Action Description: Unable to locate a copy of the final workplan for the biocell

dismantling and landfarming or a report on the work.

Action Date: 4/5/1999

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: Air Force notified ADEC that cleaning the concrete was not

successful, confirmation samples showed four areas with residual PCB

level exceeding the cleanup levels.

Action Date: 4/4/2000

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: ADEC reviewed and commented on the draft PCB removal report, prepared

by BNC. Several issues need to be clarified in the report. ADEC also requested clarification on whether documentation on cleanup work done in 1998 will be included in the PCB cleanup report or if a separate

report will be finalized (see May 7, 1999 action above).

Action Date: 4/23/2018

Action: Potentially Responsible Party/State Interest Letter

DEC Staff: Gretchen Caudill

Action Description: PRP letters have been provided to the BIA, USFWS, and USAF.

Action Date: 4/23/2018

Action: Exposure Tracking Model Ranking

DEC Staff: Gretchen Caudill

Action Description: Initial ranking with ETM completed for source area id: 73875 name:

auto-generated pm edit Bethel BIA Headquarters

Action Date: 4/23/1999

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Draft Final Bethel BIA Administration Site Development of Risk-Based

Cleanup Levels and Corrective Action Alternatives Report dated April

1999 and received by ADEC on this date.

Action Date: 4/18/1996

Action: Risk Assessment Report Approved

DEC Staff: John Halverson

Action Description: ADEC received the final Human Health and Ecological Risk Assessment

Report, Bethel BIA Administrative Site, by EMCON, dated April 1996.

Action Date: 4/11/2018
Action: Site Reopened
DEC Staff: Gretchen Caudill

Action Description: Based on new information including: the documentation of PCBs in soil

above cleanup levels inside and outside of Building 413 from the presence of PCB-paint, the documentation of PCBs in soil outside of the fenced lagoon cap, and changes in DEC's POL cleanup levels the Bethel BIA HQ site consisting of the 27 acre parcel is reopened.

Action Date: 3/23/2000

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: ADEC reviewed and commented on the draft Performance Report

Bioremediation Treatment Cell, by EMCON, dated December 1999. The

Direction Distance Elevation

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## **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

majority of the treatment cell has been flooded since 1996 and efforts to dewater it have not been successful. During 1999 water in the bottom of the cell was determined to be frozen and reportedly did not thaw during the summer. Air injection lines in the lower portion of the cell were determined to be in this frozen layer. The Air Force recommended changing the soil cleanup levels to the Arctic Zone level in 18 AAC 75. ADEC responded that the Arctic Zone levels are not applicable at this site, but that the Air Force may be able to demonstrate that an alternative level using method three is applicable. If this is done, it would warrant further community

involvement and would require an amendment to the Record of Decision. ADEC requested evaluation of alternative treatment technologies

and/or a much more aggressive dewatering effort.

Action Date: 3/14/2003

Action: Update or Other Action DEC Staff: Update or Other Action John Halverson

Action Description: DEC reviewed and commented on a workplan for dismantling the biocell

and creating a landfarm in which petroleum contaminated soil would be tilled to promote bioremediation. Several concerns were raised and

requested to be incorporated into the final workplan.

Action Date: 3/1/1992

Action: Update or Other Action DEC Staff: Update or Other Action John Halverson

Action Description: Bureau of Indian Affairs conducted a preliminary assessment.

Action Date: 2/9/1995

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: ADEC received the Field and Analytical Report for the Interim Removal

of Contaminated Soil at the BIA Site, Bethel Alaska, prepared by the 611 CES. Approximately 7000 cubic yards of petroleum contaminated soil were excavated and stockpiled at the RRS. Site characterization indicates there is still a fairly significant volume of residual soil

contamination at the site.

Action Date: 2/8/2005

Action: Update or Other Action DEC Staff: John Halverson

Action Description: DEC received a Final Technical Memorandum on the biocell landfarming

remedial action. The report describes tilling of the soil, site

monitoring and confirmation sampling and results. It recommends no

further action on the landfarmed soil.

Action Date: 2/2/1996

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Baseline Sampling July and October, 1995 Bioremediation Treatment

Cell Bethel BIA Site dated January 1996 and received by ADEC on this

date.

Action Date: 2/19/1997

Action: Site Added to Database

DEC Staff: S&W-Miner

Action Description: Site added by Shannon and Wilson.

Direction Distance

Elevation Site Database(s) EPA ID Number

## **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

**EDR ID Number** 

Action Date: 2/18/1996

Action: Site Characterization Report Approved

DEC Staff: John Halverson

Action Description: ADEC received the final Site Characterization Report, Bethel BIA

Administrative Site, by EMCON, dated February 1996.

Action Date: 12/23/1996

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Technical Memorandum for Sampling Activities Conducted Under Contract

No. DACA85-93-D-0013 Delivery Oder 018, June 1996. Dated December

1996 and received on this date.

Action Date: 12/11/1997
Action: Proposed Plan
DEC Staff: John Halverson

Action Description: ADEC received the final version of the Proposed Plan. Public meeting

on the plan was held in Bethel on December 15th.

Action Date: 12/1/2016

Action: Meeting or Teleconference Held

DEC Staff: Darren Mulkey

Action Description: CS managers participate in the annual FUDS site management action

plan meeting. The purpose of the is to collaborate with FUDS management on site progress and prioritization for all of the formerly used defense sites. FUDS prioritization is based on risk, congressional interest, state input and proximity to other sites on the prioritization list. FUDS has increased environmental restoration funding in Alaska for the 2017 and 2018 field seasons to meet

National goals for site progress.

Action Date: 11/4/2002

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: DEC received a copy of a letter from EPA to the Bethel Native

Corporation stating it completed a Preliminary Assessment on the site and determined No Further Action is needed under the federal

Superfund Program.

Action Date: 11/27/1998

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: ADEC responded to and concurred with the Air Force letter of November

13.

Action Date: 11/13/1998

Action: Update or Other Action DEC Staff: John Halverson

Action Description: The Air Force formally notified ADEC that when removing soil from

inside the garage area, PCBs were not found however, petroleum contaminated soil was encountered. It was removed to a depth of 4' below ground surface and further excavation was limited due to building foundation/footings. Air Force proposed removing two more

feet in depth, placing a liner, backfilling with clean soil and

noting the residual contamination in the property transfer documents.

Action Date: 10/7/1999

Direction Distance Elevation

evation Site Database(s) EPA ID Number

## **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

**EDR ID Number** 

Action: Interim Removal Action Approved

DEC Staff: John Halverson

Action Description: ADEC received the draft Report for 1996 Remedial Actions at the BIA

Administrative Site, Bethel, prepared by EMCON, and dated October 1997. It documents additional petroleum contaminated soil excavation and placement in the biocell, capping low level DRO contaminated soil, additional site characterization in the former sewage lagoon (characterizing low level PCB contamination), and supra permafrost

groundwater monitoring.

Action Date: 10/7/1999

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: Per Air Force, their contractor is cutting concrete out from the

floor around each sampling point that exceeded cleanup levels. Planned to remove 5'X5'X12 deep around each point and then take core samples; found out floor is 4 of concrete, 2 cork and then another 4 of concrete. Initial results indicate only the top 4 is impacted, however, the PCB extends laterally farther than they anticipated. Work is continuing. Will compile a cleanup report for all work done

in 1996-1999.

Action Date: 10/29/2002

Action: Update or Other Action

DEC Staff: John Halverson

Action Description: DEC and the Air Force signed an Explanation of Significant Difference

amending the ROD for the ex-site soil treatment at the Radio Relay Site. Following plan review and approval, the biocell will be dismantled and the petroleum contaminated soil will be landfarmed.

Action Date: 10/25/2000

Action: Conditional Closure Approved

DEC Staff: John Halverson

Action Description: ADEC sent a letter to the Air Force stating that no further cleanup

is required. An institutional control still needs to be established by placing a notice in the property transfer documents. The land is slated to be transferred from the federal government to the Yukon

Kuskokwim Health Corporation in the near future.

Action Date: 10/2/1996

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final Quality Program Plan Addendum for Remedial Action at the BIA

Administrative Site Bethel, Alaska dated September 1996 and received

by DEC on this date.

Action Date: 10/19/2010
Action: CERCLA SI
DEC Staff: Curtis Dunkin

Action Description: ADEC staff contacted the USFWS to follow up on the status of

finalizing the draft 2009 SI report. The USFWS currently does not have an RPM assigned to this site, and further follow up will be necessary to complete the draft SI report and determine the required

future actions to achieve protectiveness.

Action Date: 10/16/2001

Action: Site Number Identifier Changed

Direction Distance

**EDR ID Number** Elevation **EPA ID Number** Site Database(s)

### **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

DEC Staff: John Halverson

Action Description: Workplan changed from X1 for oil to X9 for hazardous substances (PCBs

and pesticides present).

Action Date: 10/14/2003

Update or Other Action Action: DEC Staff: John Halverson

Action Description: After the NFRAP letter was signed in 2000, the administrative

> building at the site was destroyed in a fire, the remaining portions of the structure are heavily damaged. Also, it has been determined that the USFW has jurisdiction over the property, rather than BIA. All involved parties had thought BIA still had jurisdiction. These issues have complicated the land transfer to YKHC and establishment

of institutional controls, which have yet to be developed.

Action Date: 10/14/2002

Update or Other Action Action: DEC Staff: Debra Caillouet

Action Description: START 2 PA July 2002. Two tracts owned by Bethel Native Corp.

> investigated. Tract A is the southern one and contains two borrow pits with drums and debris on the east side of borrow pit (BP) 1. Two surface samples were collected, results were all below ADEC Method II levels, but low level (22 ug/kg) PCBs were present in one sample. EPA

assigned a no further action status under CERCLA.

Action Date: 10/1/1998 Action: Record of Decision DEC Staff: John Halverson

Action Description: ROD has been signed by the Air Force, BIA and ADEC. It specified:

> surface soil in the garage (Building 413) contaminated with PCB (less than 10 mg/kg) will be excavated and placed in the landfill at the RRS (if > 10 mg/kg PCB is found it will be shipped to a permitted disposal facility); surface soil outside building 413 that contains low levels of DDT will be excavated and disposed of at the landfill at the RRS; the sewage lagoon will be dewatered, capped and institutional controls will be established documenting the lagoon closure and limitation on future development over it; stockpiled soil from earlier removal actions will be characterized and either treated or used as fill; the biocell at the RRS will be operated until total

petroleum hydrocarbon levels are below 1000 mg/kg.

Action Date: 1/7/1999

Action: Update or Other Action DEC Staff: John Halverson

Air Force notified ADEC that wipe samples from concrete in the former Action Description:

generator room and a transformer room contained PCBs above the TSCA

cleanup levels for non-porous surfaces in high contact areas.

Coordination between the Air Force, ADEC and EPA followed. The Air Force modified its cleanup contract with BNC to include washing and triple rinsing the area following TSCA procedure and re-sampling.

Action Date:

Report or Workplan Review - Other Action:

DEC Staff: Sammi Castle

Action Description: Draft Field Activities Report for Biocell Performance and Sampling

Activities received by ADEC on this date.

Direction Distance Elevation

on Site Database(s) EPA ID Number

## **BETHEL BIA HEADQUARTERS (Continued)**

S104892333

**EDR ID Number** 

Action Date: 1/24/1997

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Performance Report Bioremediation Treatment Cell Bethel BIA Site

dated January 1997 and received by DEC on this date.

Action Date: 1/20/2010
Action: CERCLA PA
DEC Staff: Curtis Dunkin

Action Description: ADEC received the final 2009 Preliminary Assessment Report that was

conducted by the USFWS.

Action Date: 1/11/1999

Action: Update or Other Action
DEC Staff: John Halverson

Action Description: ADEC sent the Air Force a letter approving transporting nineteen

85-gallon drums of petroleum contaminated soil to Alaska Soil Recycling for thermal treatment. Documentation of treatment/disposal

to be included in the final report.

Action Date: 1/1/2001

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Year 2000 Biocell Performance Report - Bethel BIA Administrative Site

dated January 2001.

Contaminants:

Staff: Gretchen Caudill, gretchen.caudill@alaska.gov

Contaminate Name1: Bethel BIA Headquarters

Contaminate Level Description1: Other Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Excavation / Soil Movement Restrictions

Contaminant CTD: The need for an IC is documented in the record of decision and the CS

database; however, to date no ICs have been established beyond notice

in the database.

Contaminant CDR: Areas of the site have DRO contaminated soil that has been capped with

clean soil and revegetated. Petroleum contaminated soil remains beneath the former composite building and if exposed in the future it needs to be managed in accordance with regulations applicable at that time. Low level PCB contaminated sewage sludge capped in place. None

clearly established yet.

Comments: Not reported

Staff: Gretchen Caudill, gretchen.caudill@alaska.gov

Contaminate Name1: Bethel BIA Headquarters

Contaminate Level Description1: Other Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Advance approval required to transport soil or groundwater off-site.

Contaminant CTD: Advance approval required to transport soil or groundwater off-site.

The need for an IC is documented in the record of decision and the CS

database; however, to date no ICs have been established beyond notice

in the database.

Map ID MAP FINDINGS Direction

Distance

**EDR ID Number** Elevation **EPA ID Number** Site Database(s)

**BETHEL BIA HEADQUARTERS (Continued)** 

S104892333

Contaminant CDR: Offsite transport of contaminated soil requires prior DEC approval.

Comments: Not reported

Gretchen Caudill, gretchen.caudill@alaska.gov Staff:

Contaminate Name1: Bethel BIA Headquarters

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: CS Database Notation And Letter To Landowner/RP

Control Details Description1: Excavation / Soil Movement Restrictions

Contaminant CTD: The need for an IC is documented in the record of decision and the CS

database; however, to date no ICs have been established beyond notice

in the database.

Contaminant CDR: Areas of the site have DRO contaminated soil that has been capped with

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clearly established yet.

Comments: Not reported

Staff: Gretchen Caudill, gretchen.caudill@alaska.gov

Contaminate Name1: Bethel BIA Headquarters

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1:

CS Database Notation And Letter To Landowner/RP Control Type:

Control Details Description1: Advance approval required to transport soil or groundwater off-site. Contaminant CTD: The need for an IC is documented in the record of decision and the CS

database; however, to date no ICs have been established beyond notice

in the database.

Contaminant CDR: Offsite transport of contaminated soil requires prior DEC approval.

Comments: Not reported

**BETHEL BIA SPILL - WHITE ALICE TANK** S107028734 42 SHWS NW BIA ROAD, ~4 MILES WEST OF BETHEL **INST CONTROL** N/A

**BETHEL, AK 99559** 1/2-1 0.896 mi.

4731 ft.

Relative: SHWS: Higher 2407.38.008 File Number:

Gretchen Caudill, gretchen.caudill@alaska.gov Staff: Actual: Facility Status: Cleanup Complete - Institutional Controls 149 ft.

60.787778 Latitude: Longitude: -161.878889 Hazard ID: 1868

Problem: More than 100,000 gallons of diesel fuel was released due to a broken

> pipe fitting. The release was first noticed on 4/15/93. Estimates are that over 50 recovered. Last staff assigned was Frechione.An equitable servitude has been placed on the BNC land portion of this

site. IC's have yet to be implemented on the BIA portion.

Map ID MAP FINDINGS
Direction

Distance Elevation Site

vation Site Database(s) EPA ID Number

## BETHEL BIA SPILL - WHITE ALICE TANK (Continued)

S107028734

**EDR ID Number** 

Actions:

Action Date: 9/21/1993

Action: Site Added to Database DEC Staff: No Longer Assigned Action Description: Diesel contamination.

Action Date: 9/19/1995

Action: Site Ranked Using the AHRM

DEC Staff: Bill Wright
Action Description: Initial ranking.

Action Date: 9/18/2000

Action: Institutional Control Record Established

DEC Staff: Jim Frechione

Action Description: An Equitable Servitude Agreement (ESA) was entered into between the

Bethel Native Corporation and DEC. It restricted use of suprapermafrost groundwater; no residential development; no

excavation or construction of new buildings.

Action Date: 9/1/1998

Action: Site Characterization Workplan Approved

DEC Staff: Jim Frechione

Action Description: The site characterization work plan was prepared to assess current

site conditions and review contaminant levels for risk-based standards. The State assumed the lead based on the history of the site and the need to investigate the site based on a proposed

settlement agreement. Ecology and Environment was hired as the state

term contractor.

Action Date: 9/1/1995

Action: Update or Other Action
DEC Staff: Ray Dronenburg

Action Description: (Old R:Base Action Code = CORR - Correspondence (General)). Requested

a decision by BIA regarding cleanup and water quality monitoring.

Action Date: 8/25/2004

Action: GIS Position Updated DEC Staff: No Longer Assigned

Action Description: Updated coordinates from USGS Place Name using TopoZone.com and

report site map, Figure 2-1, page 2-3, and aerial photo, Figure 2-2, page 2-9, Draft Bethel BIA Administration Site Development of Risk-Based Cleanup Levels and Corrective Action Alternatives, Bethel,

Alaska, April 1999 by Ecology & Environment, Inc. NAD27.

Action Date: 8/25/1999

Action: Update or Other Action

DEC Staff: Jim Frechione

Action Description: Ecology and Environment submit work plan to conduct berry study.

Action Date: 7/26/1996

Action: Cleanup Plan Approved

DEC Staff: Ray Burger

Action Description: (Old R:Base Action Code = RAPA - Remedial Action Plan Approval).

Conditionally approved plan to identify and treat remaining

contamination and set up long-term monitoring.

Action Date: 7/10/2009

Map ID MAP FINDINGS Direction

Distance Elevation Site Database(s)

**BETHEL BIA SPILL - WHITE ALICE TANK (Continued)** 

S107028734

**EDR ID Number** 

**EPA ID Number** 

Action: Report or Workplan Review - Other

Debra Caillouet DEC Staff:

Action Description: Staff prepared comment on the draft Site Investigation plan.

Action Date: 6/4/2004

Action: Update or Other Action DEC Staff: Jim Frechione

Action Description: DEC issued non-objection to Bethel Native Corporation related to a

request to install a telecommunications cable across a portion of the

former BIA spill site.

Action Date: 6/3/1996

Action: Update or Other Action

DEC Staff: Jim Frechione

Action Description: Remediation Plan submitted by Hartec Management Consultants dated May

1996 was reviewed and commented on by ADEC on 06/26/96.

Action Date: 6/1/1995

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Remediation Plan Phase 1 dated June, 1995. Specific objectives of the

remediation program are to: 1) Maximize attenuation of hydrocarbons present in the soil and water: 2) Maximize recovery of vegetation damaged by hydrocarbon contamination; 3) Minimize erosionary processes and repair erosion damage in the phase 1 location area; 4) Minimize further damage to the environment by the remediation activities; 5) Minimize risks to aquatic resources downstream of the

site.

5/28/1999 Action Date: Record of Decision Action: DEC Staff: Jim Frechione

Record of Decision was prepared for the site. It was decided Action Description:

excavation of the tundra vegetation and sediments affected by the spill might cause more harm than good. Therefore, in situ treatment

(in the future) might be appropriate depending on funding

availability.

Action Date: 5/28/1999

Conditional Closure Approved Action:

DEC Staff: Jim Frechione

Action Description: The decision to require no further action was made on intrusive

> cleanup might cause more harm than good at this site. Therefore, future cleanup action would be dependent on the identification of any

risk posed by the contamination remaining.

Action Date: 5/28/1993

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Release Investigation Plan/Quality Assurance Project Plan - Bethel Action Description:

> Tank Farm Site. On January 14, 1993 approximately 200 gallons of gasoline was spilled in Fuel Pump House Building 605 from the fuel dispenser line. The purpose of this Plan is to identify site-specific field procedures so that representative data are collected during the

investigation.

Action Date: 5/26/1999

Direction Distance

Elevation Site Database(s) EPA ID Number

## BETHEL BIA SPILL - WHITE ALICE TANK (Continued)

S107028734

**EDR ID Number** 

Action: Cleanup Level(s) Approved

DEC Staff: Jim Frechione

Action Description: The Draft Final Bethel BIA Administration Site Development of Risk

Based Cleanup Levels and Corrective Action Alternatives was accepted by ADEC based on a proposed berry study to be conducted in the area.

Action Date: 5/19/2009

Action: Update or Other Action
DEC Staff: Debra Caillouet

Action Description: Comments were prepared on the Final Preliminary Assessment Report,

Contaminant Investigation, Conceptual Site Model and Proposed

Investigation Activities, May 2009.

Action Date: 5/15/2009

Action: Meeting or Teleconference Held

DEC Staff: Debra Caillouet

Action Description: Staff met with BIA and their contractor to discuss characterization

needs prior to land transfer.

Action Date: 4/1/2000

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Final Report Sampling Activities dated April 2000. This report is for

the two groundwater sampling events and one soil sampling event performed at the site in 1999. Groundwater samples were collected from six existing monitoring wells and analyzed for RCRA metals,

PCBs, DRO, GRO, AVOCs, SVOCs. Bioattenuation samples were collected

from surface soils within a historical fuel-spill area on the site

and analyzed for DRO and RRO.

Action Date: 4/1/1995

Action: Site Characterization Report Approved

DEC Staff: Ray Dronenburg

Action Description: (Old R:Base Action Code = SA2A - Phase II SA Approval / Release

Investigation). Reviewed and approved a Phase 2 Site Assessment

Report.

Action Date: 3/1/1995

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Draft Remedial Alternatives Report dated March 1995.

Action Date: 2/11/1998

Action: Update or Other Action

DEC Staff: Jim Frechione

Action Description: Ecology and Environment submit a proposal to establish risk-based

cleanup levels and propose appropriate cleanup actions.

Action Date: 12/31/1998

Action: Update or Other Action

DEC Staff: Jim Frechione

Action Description: Draft Site Assessment report submitted to ADEC. The report presented

soil, water and sediment sample information.

Action Date: 12/30/2002

Action: Update or Other Action DEC Staff: Debra Caillouet

Map ID MAP FINDINGS
Direction

Distance Elevation

ation Site Database(s) EPA ID Number

## BETHEL BIA SPILL - WHITE ALICE TANK (Continued)

S107028734

**EDR ID Number** 

Action Description: START 2 PA July 2002. Two tracts owned by Bethel Native Corporation

investigated. Tract A is the southern one and contains two borrow pits with drums and debris on the east side of borrow pit (BP) 1. Two surface samples were collected, results were all below ADEC Method II levels, but low level (22 ug/kg) PCBs were present in one sample. EPA

assigned a no further action status under CERCLA.

Action Date: 11/29/1999

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Summary of Berry Collection and Analysis at Bethel Bureau of Indian

Affairs (BIA) Administrative Site report submitted to ADEC. Field activities were conducted on August 26 and 27, 1999. Crowberries were sampled and analyzed for DRO contamination. In conclusion, no indication of accumulation of diesel contamination in crowberries is

evident at the Bethel BIA Administrative Site.

Action Date: 11/20/1997

Action: Site Ranked Using the AHRM

DEC Staff: Ray Burger

Action Description: Surface Water Exposure Index Value changed from 0 to 0.4 since

surface water has never been tested.

Action Date: 11/1/2000

Action: Update or Other Action

DEC Staff: Jim Frechione

Action Description: A management right assignment between DNR and DEC was signed to allow

DEC to manage the restrictions identified in the ESA.

Action Date: 10/26/1994

Action: Update or Other Action
DEC Staff: No Longer Assigned

Action Description: (Old R:Base Action Code = RAPR - Remedial Action Plan Review (CS)).

Ray Dronenburg coordinator. BIA Bethel Sampling Plan approved.

Action Date: 1/1/2001

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Report for Sampling Activities dated January 2001. This report

includes one groundwater sampling event and one soil sampling event performed at the site in 2000. Groundwater samples were collected from six monitoring wells and analyzed for RCRA metals, PCBs, DRO, GRO, AVOCs, SVOCs. Bioattenuation samples were collected from surface

soils within a historical fuel-spill area on the site and analyzed

for DRO and RRO. Analytical data does not show a consistent decrease

in petroleum concentrations in the fuel-spill area.

Action Date: 1/1/1996

Action: Report or Workplan Review - Other

DEC Staff: Sammi Castle

Action Description: Impacted Soil Characterization and Removal BIA Bioremediation

Treatment Cell dated January 1996. A biocell was constructed to remediate contaminated soil identified during a Preliminary

Assessment conducted in 1991 by the COE. The soil was stockpiled in

four cells at a site previously occupied by a White Alice

Communications System facility. Impacted soil was encountered beneath

the stockpiles during construction of the biocell. This report

Direction Distance

Elevation Site Database(s) EPA ID Number

## BETHEL BIA SPILL - WHITE ALICE TANK (Continued)

S107028734

**EDR ID Number** 

documents the investigation of the impacted soil.

Action Date: 1/1/1994

Action: Update or Other Action DEC Staff: No Longer Assigned

Action Description: (Old R:Base Action Code = RAPR - Remedial Action Plan Review (CS)).

Action Date: 1/1/1994

Action: Update or Other Action DEC Staff: No Longer Assigned

Action Description: (Old R:Base Action Code = DD - Decision Document (CERCLIS)).

Contaminants:

Staff: Gretchen Caudill, gretchen.caudill@alaska.gov

Contaminate Name1: Bethel BIA Spill - White Alice Tank

Contaminate Level Description1: Between Method 2 Migration to Groundwater and Human

Health/Ingestion/Inhalation

Contaminate Media1: Soil

Control Type: Equitable Servitude

Control Details Description1: Restricted to Recreational Land Use

Contaminant CTD: Restrictions were placed on the property related to development; soil

excavation and groundwater use

Contaminant CDR: The IC was intended to limit development of the property based on soil

contamination Notify ADEC of any proposed changes in land use or

building construction

Comments: Not reported

Inst Control:

Hazard ID: 1868

Facility Status: Cleanup Complete - Institutional Controls
Action: Institutional Control Record Established

Action Date: 9/18/2000 File Number: 2407.38.008 Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BETHEL	1018161778	USDOT FAA BETHEL	BET BETHEL ARPRT NAV AIDS	9955	9 RCRA-CESQG, DOCKET HWC
BETHEL	1007443749	BETHEL LANDFILL	BETHEL CENSUS DIVISION		ODI
BETHEL	2014007622	BETHEL AIRPORT	BETHEL AIRPORT	9955	9 HMIRS
BETHEL	1004433667	USDOT FAA BETHEL SECTOR FIELD OFF	BETHEL ARPRT W OF CY E OF STA	9955	9 FTTS, HIST FTTS
BETHEL	1000586265	ALASKA AIRLINES BETHEL	3521 CHIEF EDDIE HOFFMAN HWY	9955	9 RCRA NonGen / NLR
BETHEL	1006798128	YUKON-KUSKOKWIM HEALTH CORPORATION	829 CHIEF EDDIE HOFFMAN HIGHWA	9955	9 ICIS, US AIRS
BETHEL	1008026103	FAA BETHEL WELL	TOWER RD	9955	FINDS, ECHO

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

**Number of Days to Update:** Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

### STANDARD ENVIRONMENTAL RECORDS

#### Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 11/14/2018 Source: EPA
Date Data Arrived at EDR: 11/27/2018 Telephone: N/A

Number of Days to Update: 10 Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

**NPL Site Boundaries** 

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 Telephone: 415-947-4246

EPA Region 10

Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 11/14/2018 Source: EPA
Date Data Arrived at EDR: 11/27/2018 Telephone: N/A

Date Made Active in Reports: 12/07/2018 Last EDR Contact: 11/27/2018

Number of Days to Update: 10 Next Scheduled EDR Contact:

Next Scheduled EDR Contact: 01/14/2019
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991 Date Data Arrived at EDR: 02/02/1994 Date Made Active in Reports: 03/30/1994

Number of Days to Update: 56

Source: EPA

Telephone: 202-564-4267 Last EDR Contact: 08/15/2011

Next Scheduled EDR Contact: 11/28/2011 Data Release Frequency: No Update Planned

### Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 11/14/2018 Date Data Arrived at EDR: 11/27/2018 Date Made Active in Reports: 12/07/2018

Number of Days to Update: 10

Source: EPA
Telephone: N/A

Last EDR Contact: 11/27/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Quarterly

### Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016 Date Data Arrived at EDR: 01/05/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 92

Source: Environmental Protection Agency Telephone: 703-603-8704 Last EDR Contact: 07/06/2018

Next Scheduled EDR Contact: 10/15/2018 Data Release Frequency: Varies

### SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 11/14/2018 Date Data Arrived at EDR: 11/27/2018 Date Made Active in Reports: 12/07/2018

Number of Days to Update: 10

Source: EPA Telephone: 800-424-9346 Last EDR Contact: 11/27/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Quarterly

#### Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 11/14/2018 Date Data Arrived at EDR: 11/28/2018 Date Made Active in Reports: 12/07/2018

Number of Days to Update: 9

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 11/28/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Quarterly

### Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

#### Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

### Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

#### RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 01/07/2019
Data Release Frequency: Quarterly

### RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

### Federal institutional controls / engineering controls registries

#### LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 10/17/2018 Date Data Arrived at EDR: 10/25/2018 Date Made Active in Reports: 12/07/2018

Number of Days to Update: 43

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Varies

#### US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 07/31/2018 Date Data Arrived at EDR: 08/28/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 17

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 11/28/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Varies

### US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 07/31/2018 Date Data Arrived at EDR: 08/28/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 17

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 11/28/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Varies

#### Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous

substances.

Date of Government Version: 09/24/2018 Date Data Arrived at EDR: 09/25/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 45

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

### State- and tribal - equivalent CERCLIS

SHWS: Contaminated Sites Database

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/25/2018 Date Data Arrived at EDR: 09/27/2018 Date Made Active in Reports: 10/24/2018

Number of Days to Update: 27

Source: Department of Environmental Conservation

Telephone: 907-451-2143 Last EDR Contact: 11/07/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Semi-Annually

### State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/06/2018 Date Data Arrived at EDR: 09/25/2018 Date Made Active in Reports: 09/27/2018

Number of Days to Update: 2

Source: Department of Environmental Conservation

Telephone: 907-269-7632 Last EDR Contact: 09/24/2018

Next Scheduled EDR Contact: 01/09/2047 Data Release Frequency: Semi-Annually

## State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 08/09/2018 Date Data Arrived at EDR: 08/10/2018 Date Made Active in Reports: 08/20/2018

Number of Days to Update: 10

Source: Department of Environmental Conservation

Telephone: 907-465-5301 Last EDR Contact: 11/14/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: Environmental Protection Agency Telephone: 415-972-3372 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

#### State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017 Date Data Arrived at EDR: 05/30/2017 Date Made Active in Reports: 10/13/2017

Number of Days to Update: 136

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 10/10/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Varies

UST: Underground Storage Tank Database

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 11/12/2018 Date Data Arrived at EDR: 11/14/2018 Date Made Active in Reports: 11/28/2018

Number of Days to Update: 14

Source: Department of Environmental Conservation

Telephone: 907-269-7504 Last EDR Contact: 11/14/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Semi-Annually

AST: Regulated Aboveground Storage Tanks

The list covers "regulated" facilities with storage capacities above 10,000 barrels (or 5,000 barrels of crude).

Date of Government Version: 01/05/2005 Date Data Arrived at EDR: 01/06/2005 Date Made Active in Reports: 02/02/2005

Number of Days to Update: 27

Source: Department of Environmental Conservation

Telephone: 907-465-5231 Last EDR Contact: 12/06/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019

Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018 Date Data Arrived at EDR: 05/18/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 63

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Varies

#### State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Controls Site Listing

A listing of sites with engineering controls in place included in the Contaminated Sites.

Date of Government Version: 09/25/2018 Date Data Arrived at EDR: 09/27/2018 Date Made Active in Reports: 10/24/2018

Number of Days to Update: 27

Source: Department of Environmental Conservation

Telephone: 907-451-2143 Last EDR Contact: 11/07/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Semi-Annually

Inst Control: Contaminated Sites with Institutional Controls Contaminated sites that have institutional controls.

Date of Government Version: 09/25/2018 Date Data Arrived at EDR: 09/27/2018 Date Made Active in Reports: 10/24/2018

Number of Days to Update: 27

Source: Department of Environmental Conservation

Telephone: 907-451-2143 Last EDR Contact: 11/07/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Semi-Annually

### State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015 Date Data Arrived at EDR: 09/29/2015 Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1 Telephone: 617-918-1102 Last EDR Contact: 09/24/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Varies

VCP: Voluntary Cleanup Program sites

Sites involved in the Voluntary Cleanup Program.

Date of Government Version: 11/26/2018 Date Data Arrived at EDR: 11/27/2018 Date Made Active in Reports: 11/28/2018

Number of Days to Update: 1

Source: Department of Environmental Conservation

Telephone: 907-451-2143 Last EDR Contact: 11/26/2018

Next Scheduled EDR Contact: 03/11/2019

Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008 Date Data Arrived at EDR: 04/22/2008 Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7 Telephone: 913-551-7365 Last EDR Contact: 04/20/2009

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

#### State and tribal Brownfields sites

BROWNFIELDS: Identified and/or Proposed Brownfields Sites

Brownfield properties are defined by U.S Environmental Protection Agency (EPA) as "real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contamination." DEC is developing resources to assist eligible entities in Alaska in applying for EPA brownfields grants. The program also will provide technical assistance and perform some site assessments, The purpose of these assessments is to assist local redevelopment efforts on previously contaminated properties that are vacant or underused.

Date of Government Version: 09/25/2018 Date Data Arrived at EDR: 09/27/2018 Date Made Active in Reports: 10/24/2018

Number of Days to Update: 27

Source: Department of Environmental Conservation

Telephone: 907-451-2166 Last EDR Contact: 11/07/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Semi-Annually

### ADDITIONAL ENVIRONMENTAL RECORDS

### Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 09/18/2018 Date Data Arrived at EDR: 09/18/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 09/18/2018

Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Semi-Annually

### Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities

A listing of Recycling centers in the state of Alaska.

Date of Government Version: 12/29/2014 Date Data Arrived at EDR: 12/30/2014 Date Made Active in Reports: 02/02/2015

Number of Days to Update: 34

Source: Department of Environmental Conservation

Telephone: 907-269-7802 Last EDR Contact: 09/24/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands

Location of open dumps on Indian land.

Date of Government Version: 12/31/1998 Date Data Arrived at EDR: 12/03/2007 Date Made Active in Reports: 01/24/2008

Number of Days to Update: 52

Source: Environmental Protection Agency

Telephone: 703-308-8245 Last EDR Contact: 10/25/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258

Subtitle D Criteria.

Date of Government Version: 06/30/1985 Date Data Arrived at EDR: 08/09/2004 Date Made Active in Reports: 09/17/2004

Number of Days to Update: 39

Source: Environmental Protection Agency

Telephone: 800-424-9346 Last EDR Contact: 06/09/2004 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009 Date Data Arrived at EDR: 05/07/2009 Date Made Active in Reports: 09/21/2009

Number of Days to Update: 137

Source: EPA, Region 9 Telephone: 415-947-4219 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014 Date Data Arrived at EDR: 08/06/2014 Date Made Active in Reports: 01/29/2015

Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service

Telephone: 301-443-1452 Last EDR Contact: 11/02/2018

Next Scheduled EDR Contact: 02/11/2019

Data Release Frequency: Varies

### Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 09/21/2018 Date Data Arrived at EDR: 09/21/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 49

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 11/26/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: No Update Planned

CDL: Illegal Drug Manufacturing Sites

A list of properties that have been determined to be illegal drug manufacturing sites.

Date of Government Version: 02/12/2018 Date Data Arrived at EDR: 02/13/2018 Date Made Active in Reports: 03/21/2018

Number of Days to Update: 36

Source: Department of Environmental Conservation

Telephone: 907-269-7543 Last EDR Contact: 11/16/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/21/2018 Date Data Arrived at EDR: 09/21/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 49

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 11/26/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Quarterly

### Local Land Records

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 08/13/2018 Date Data Arrived at EDR: 10/04/2018 Date Made Active in Reports: 11/16/2018

Number of Days to Update: 43

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 11/27/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Semi-Annually

### Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 06/08/2018

Number of Days to Update: 73

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

SPILLS: Spills Database

Oil and hazardous substance releases to be reported to the Department of Environmental Conservation.

Date of Government Version: 10/16/2018 Date Data Arrived at EDR: 10/18/2018 Date Made Active in Reports: 10/24/2018

Number of Days to Update: 6

Source: Department of Environmental Conservation

Telephone: 907-465-5242 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Semi-Annually

#### SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 07/21/2010 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 02/08/2013

Number of Days to Update: 36

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### Other Ascertainable Records

### RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018 Date Data Arrived at EDR: 03/28/2018 Date Made Active in Reports: 06/22/2018

Number of Days to Update: 86

Source: Environmental Protection Agency

Telephone: (206) 553-1200 Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

### FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015 Date Data Arrived at EDR: 07/08/2015 Date Made Active in Reports: 10/13/2015

Number of Days to Update: 97

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 11/19/2018

Next Scheduled EDR Contact: 03/04/2019 Data Release Frequency: Varies

## DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 11/10/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 62

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 10/12/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Semi-Annually

### FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 02/06/2006 Date Made Active in Reports: 01/11/2007

Number of Days to Update: 339

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 10/12/2018

Next Scheduled EDR Contact: 01/21/2019

Data Release Frequency: N/A

### SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017 Date Data Arrived at EDR: 02/03/2017 Date Made Active in Reports: 04/07/2017

Number of Days to Update: 63

Source: Environmental Protection Agency

Telephone: 615-532-8599 Last EDR Contact: 11/16/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Varies

## US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 08/31/2018 Date Data Arrived at EDR: 09/25/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 45

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 09/25/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: Quarterly

#### EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013 Date Data Arrived at EDR: 03/21/2014 Date Made Active in Reports: 06/17/2014

Number of Days to Update: 88

Source: Environmental Protection Agency

Telephone: 617-520-3000 Last EDR Contact: 11/05/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Quarterly

### 2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 05/08/2018 Date Made Active in Reports: 07/20/2018

Number of Days to Update: 73

Source: Environmental Protection Agency

Telephone: 703-308-4044 Last EDR Contact: 11/09/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Varies

### TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 06/21/2017 Date Made Active in Reports: 01/05/2018

Number of Days to Update: 198

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 09/21/2018

Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Every 4 Years

## TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016 Date Data Arrived at EDR: 01/10/2018 Date Made Active in Reports: 01/12/2018

Number of Days to Update: 2

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 11/16/2018

Next Scheduled EDR Contact: 03/04/2019 Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009 Date Data Arrived at EDR: 12/10/2010 Date Made Active in Reports: 02/25/2011

Number of Days to Update: 77

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 10/24/2018

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 08/13/2018 Date Data Arrived at EDR: 10/04/2018 Date Made Active in Reports: 11/16/2018

Number of Days to Update: 43

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 11/27/2018

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2018 Date Data Arrived at EDR: 08/22/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 44

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 10/23/2018

Next Scheduled EDR Contact: 02/04/2019
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995 Date Data Arrived at EDR: 07/03/1995 Date Made Active in Reports: 08/07/1995

Number of Days to Update: 35

Source: EPA

Telephone: 202-564-4104 Last EDR Contact: 06/02/2008

Next Scheduled EDR Contact: 09/01/2008 Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 08/13/2018 Date Data Arrived at EDR: 10/04/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 36

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 10/04/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/14/2018 Date Data Arrived at EDR: 10/11/2018 Date Made Active in Reports: 12/07/2018

Number of Days to Update: 57

Source: EPA Telephone: 2

Telephone: 202-566-0500 Last EDR Contact: 10/11/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016 Date Data Arrived at EDR: 11/23/2016 Date Made Active in Reports: 02/10/2017

Number of Days to Update: 79

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 10/09/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act) A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009 Date Data Arrived at EDR: 04/16/2009 Date Made Active in Reports: 05/11/2009

Number of Days to Update: 25

Source: EPA

Telephone: 202-566-1667 Last EDR Contact: 08/18/2017

Next Scheduled EDR Contact: 12/04/2017 Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016 Date Data Arrived at EDR: 09/08/2016 Date Made Active in Reports: 10/21/2016

Number of Days to Update: 43

Source: Nuclear Regulatory Commission Telephone: 301-415-7169

Last EDR Contact: 10/11/2018
Next Scheduled EDR Contact:

Next Scheduled EDR Contact: 02/04/2019 Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005 Date Data Arrived at EDR: 08/07/2009 Date Made Active in Reports: 10/22/2009

Number of Days to Update: 76

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 12/05/2018

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014 Date Data Arrived at EDR: 09/10/2014 Date Made Active in Reports: 10/20/2014

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 12/03/2018

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017 Date Data Arrived at EDR: 11/30/2017 Date Made Active in Reports: 12/15/2017

Number of Days to Update: 15

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 10/26/2018

Next Scheduled EDR Contact: 02/04/2019

Data Release Frequency: Varies

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/02/2018 Date Data Arrived at EDR: 10/03/2018 Date Made Active in Reports: 11/09/2018

Number of Days to Update: 37

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 10/03/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2007

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006 Date Data Arrived at EDR: 03/01/2007 Date Made Active in Reports: 04/10/2007

Number of Days to Update: 40

Source: Environmental Protection Agency

Telephone: 202-564-2501 Last EDR Contact: 12/17/2008

Next Scheduled EDR Contact: 03/17/2008 Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012 Date Data Arrived at EDR: 08/07/2012 Date Made Active in Reports: 09/18/2012

Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety

Telephone: 202-366-4595 Last EDR Contact: 10/30/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2018 Date Data Arrived at EDR: 10/12/2018 Date Made Active in Reports: 12/07/2018

Number of Days to Update: 56

Telephone: Varies

Last EDR Contact: 10/01/2018

Next Scheduled EDR Contact: 12/31/2018

Source: Department of Justice, Consent Decree Library

Data Release Frequency: Varies

**BRS: Biennial Reporting System** 

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015 Date Data Arrived at EDR: 02/22/2017 Date Made Active in Reports: 09/28/2017

Number of Days to Update: 218

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 11/21/2018

Next Scheduled EDR Contact: 03/04/2019 Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 07/14/2015 Date Made Active in Reports: 01/10/2017

Number of Days to Update: 546

Source: USGS

Telephone: 202-208-3710 Last EDR Contact: 10/09/2018

Next Scheduled EDR Contact: 01/21/2019 Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 3

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 11/01/2018

Next Scheduled EDR Contact: 02/18/2019 Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017 Date Data Arrived at EDR: 10/11/2017 Date Made Active in Reports: 11/03/2017

Number of Days to Update: 23

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 11/16/2018

Next Scheduled EDR Contact: 03/04/2019 Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 08/13/2018 Date Data Arrived at EDR: 10/04/2018 Date Made Active in Reports: 11/16/2018

Number of Days to Update: 43

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 11/27/2018

Next Scheduled EDR Contact: 01/14/2019 Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites

may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001 Date Data Arrived at EDR: 10/27/2010 Date Made Active in Reports: 12/02/2010

Number of Days to Update: 36

Source: American Journal of Public Health

Telephone: 703-305-6451 Last EDR Contact: 12/02/2009 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data A listing of minor source facilities.

Date of Government Version: 10/12/2016 Date Data Arrived at EDR: 10/26/2016 Date Made Active in Reports: 02/03/2017

Number of Days to Update: 100

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 09/26/2017

Next Scheduled EDR Contact: 01/08/2018 Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 08/01/2018 Date Data Arrived at EDR: 08/29/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 37

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 11/30/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005 Date Data Arrived at EDR: 02/29/2008 Date Made Active in Reports: 04/18/2008

Number of Days to Update: 49

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 11/30/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Varies

### US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011 Date Data Arrived at EDR: 06/08/2011 Date Made Active in Reports: 09/13/2011

Number of Days to Update: 97

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 11/30/2018

Next Scheduled EDR Contact: 03/11/2019

Data Release Frequency: Varies

## ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 09/10/2018 Date Data Arrived at EDR: 09/11/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 3

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 12/06/2018

Next Scheduled EDR Contact: 03/25/2019 Data Release Frequency: Quarterly

## FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 08/07/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 30

Source: EPA

Telephone: (206) 553-1200 Last EDR Contact: 12/05/2018

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Quarterly

### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2017 Date Data Arrived at EDR: 06/19/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 87

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 10/15/2018

Next Scheduled EDR Contact: 01/28/2019 Data Release Frequency: Varies

### ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/02/2018 Date Data Arrived at EDR: 09/05/2018 Date Made Active in Reports: 09/14/2018

Number of Days to Update: 9

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 12/31/2018

Next Scheduled EDR Contact: 03/18/2019 Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 07/26/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 71

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 11/30/2018

Next Scheduled EDR Contact: 03/11/2019 Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels

Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2018 Date Data Arrived at EDR: 08/22/2018 Date Made Active in Reports: 10/05/2018

Number of Days to Update: 44

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 11/19/2018

Next Scheduled EDR Contact: 03/04/2019 Data Release Frequency: Quarterly

AIRS: AIRS Facility Listing

A listing of permitted airs facilities.

Date of Government Version: 07/09/2018 Date Data Arrived at EDR: 07/13/2018 Date Made Active in Reports: 08/20/2018

Number of Days to Update: 38

Source: Department of Environmental Conservation

Telephone: 907-451-2103 Last EDR Contact: 10/22/2018

Next Scheduled EDR Contact: 01/21/2019

Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

A listing of coal ash disposal site locations.

Date of Government Version: 03/08/2018 Date Data Arrived at EDR: 03/27/2018 Date Made Active in Reports: 04/13/2018

Number of Days to Update: 17

Source: Department of Environmental Conservation

Telephone: 907-451-2135 Last EDR Contact: 09/17/2018

Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Facility Listing
A listing of drycleaning facilities in Alaska.

Date of Government Version: 02/15/2006 Date Data Arrived at EDR: 02/16/2006 Date Made Active in Reports: 03/15/2006

Number of Days to Update: 27

Source: Department of Environmental Conservation

Telephone: 907-269-7577 Last EDR Contact: 09/24/2018

Next Scheduled EDR Contact: 01/07/2019 Data Release Frequency: No Update Planned

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information for underground storage tank facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 11/12/2018 Date Data Arrived at EDR: 11/14/2018 Date Made Active in Reports: 11/28/2018

Number of Days to Update: 14

Source: Department of Environmental Conservation

Telephone: 907-269-8149 Last EDR Contact: 11/14/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Quarterly

Financial Assurance 2: Financial Assurance Information Listing

Financial Assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Telephone: 907-269-7802

Last EDR Contact: 09/24/2018

Data Release Frequency: Varies

Date of Government Version: 04/24/2007 Date Data Arrived at EDR: 04/26/2007 Date Made Active in Reports: 05/14/2007

Number of Days to Update: 18

NPDES: Wastwater Discharge Permit Listing A listing of permitted wastewater facilities.

Date of Government Version: 09/17/2018 Date Data Arrived at EDR: 09/18/2018 Date Made Active in Reports: 09/27/2018

Number of Days to Update: 9

Source: Department of Environmental Conservation

Source: Department of Environmental Conservation

Telephone: 907-465-5480 Last EDR Contact: 09/18/2018

Next Scheduled EDR Contact: 12/31/2018 Data Release Frequency: Varies

Next Scheduled EDR Contact: 01/07/2019

UIC: UIC Information

A listing of underground injection control wells.

Date of Government Version: 11/12/2018 Date Data Arrived at EDR: 11/14/2018 Date Made Active in Reports: 11/28/2018

Number of Days to Update: 14

Source: Oil & Gas Conservation Commission

Telephone: 907-793-1224 Last EDR Contact: 11/14/2018

Next Scheduled EDR Contact: 02/25/2019 Data Release Frequency: Quarterly

### **EDR HIGH RISK HISTORICAL RECORDS**

### **EDR Exclusive Records**

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: N/A Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Date Data Arrived at EDR: N/A Date Made Active in Reports: N/A Number of Days to Update: N/A Source: EDR, Inc. Telephone: N/A Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A Source: EDR, Inc. Date Data Arrived at EDR: N/A Telephone: N/A Last EDR Contact: N/A Date Made Active in Reports: N/A

Next Scheduled EDR Contact: N/A Number of Days to Update: N/A Data Release Frequency: Varies

### **EDR RECOVERED GOVERNMENT ARCHIVES**

#### Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in Alaska.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/17/2014

Number of Days to Update: 200

Source: Department of Environmental Conservation

Source: Department of Environmental Conservation

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Conservation in Alaska.

Date of Government Version: N/A Date Data Arrived at EDR: 07/01/2013 Date Made Active in Reports: 01/04/2014 Number of Days to Update: 187

Telephone: N/A Last EDR Contact: 06/01/2012

Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

## OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 07/01/2018 Date Data Arrived at EDR: 08/01/2018 Date Made Active in Reports: 08/31/2018

Number of Days to Update: 30

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 10/31/2018

Next Scheduled EDR Contact: 02/11/2019 Data Release Frequency: Quarterly

#### Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

#### Electric Power Transmission Line Data

Source: PennWell Corporation

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

#### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services,

a federal agency within the U.S. Department of Health and Human Services.

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

### **Public Schools**

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary

and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Facilities Database

Source: Department of Education & Early Development

Telephone: 907-465-2800

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Classification and Mapping

Source: Alaska Natural Heritage Program

Telephone: 907-235-2218

# **GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING**

Current USGS 7.5 Minute Topographic Map Source: U.S. Geological Survey

## STREET AND ADDRESS INFORMATION

2008 TIGER© Map, produced by the U.S. Census Bureau.

## **GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM**

#### **TARGET PROPERTY ADDRESS**

BETHEL AIRPORT BETHEL AIRPORT BETHEL, AK 99559

#### **TARGET PROPERTY COORDINATES**

Latitude (North): 60.776914 - 60° 46′ 36.89″ Longitude (West): 161.847007 - 161° 50′ 49.23″

Universal Tranverse Mercator: Zone 4 UTM X (Meters): 344965.8 UTM Y (Meters): 6741097.0

Elevation: 101 ft. above sea level

#### **USGS TOPOGRAPHIC MAP**

Target Property: N/A

Source: USGS 7.5 min quad index

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

#### **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

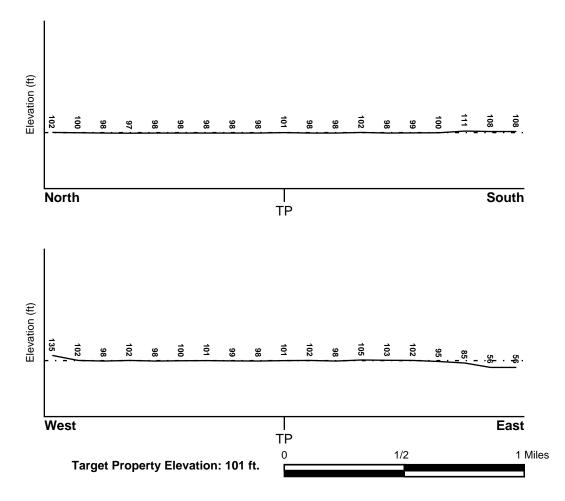
#### **TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

#### **SURROUNDING TOPOGRAPHY: ELEVATION PROFILES**



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

#### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

#### **FEMA FLOOD ZONE**

Flood Plain Panel at Target Property FEMA Source Type

0201040040C FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

0201040020C FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

Not Reported N

#### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

#### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

#### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

#### **GEOLOGIC AGE IDENTIFICATION**

Era: - Category: -

System: -

Series: -

Code: N/A (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: HISTIC PERGELIC CRYAQUEPTS

Soil Surface Texture: peat

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic

conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

	Soil Layer Information							
	Bou	ndary		Classif	fication			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)	
1	8 inches	0 inches	peat	A-8	Highly organic soils, Peat.	Max: 2.00 Min: 0.60	Max: 5.00 Min: 4.50	
2	9 inches	60 inches	ice or frozen soil	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00	

#### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
Surficial Soil Types: silt loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: No Other Soil Types

#### **LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

### WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u> <u>SEARCH DISTANCE (miles)</u>

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

#### FEDERAL USGS WELL INFORMATION

INE
ΙE
VNW
VNW

#### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP

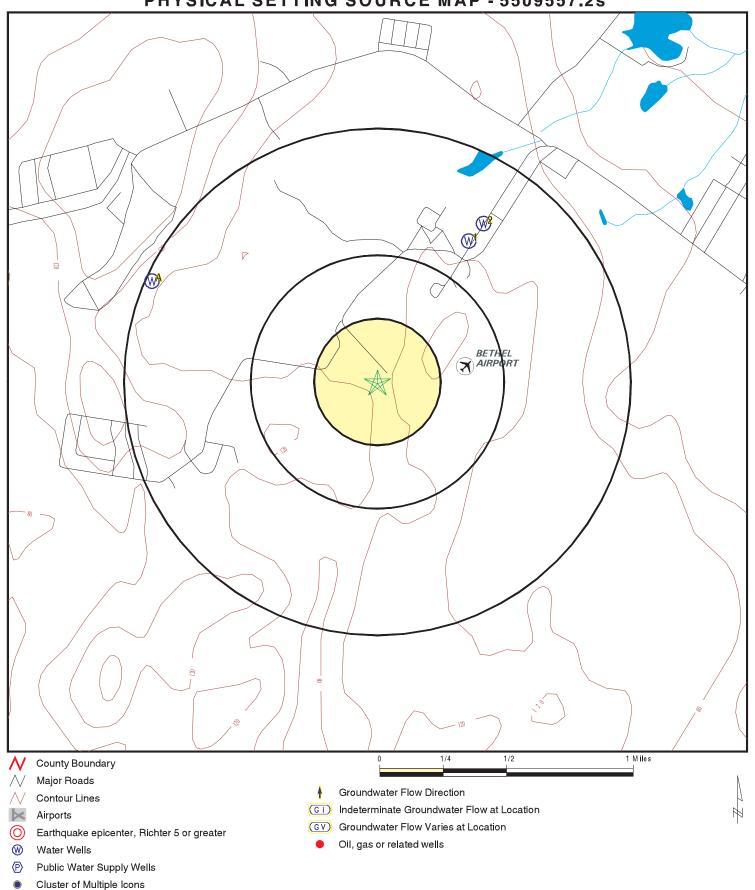
## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No PWS System Found		

No PWS System Found

Note: PWS System location is not always the same as well location.

# PHYSICAL SETTING SOURCE MAP - 5509557.2s



SITE NAME: Bethel Airport Bethel Airport Bethel AK 99559 ADDRESS:

LAT/LONG: 60.776914 / 161.847007

CLIENT: AECOM CONTACT: Brittany Kirchmann

INQUIRY#: 5509557.2s

DATE: December 12, 2018 9:58 am

### **GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Distance

Elevation Database EDR ID Number

NNE 1/2 - 1 Mile FED USGS USGS40000016237

1/2 - 1 Mile Lower

Organization ID: USGS-AK Organization Name: USGS Alaska Water Science Center

SB00807213BDAD1 001 Monitor Location: Type: Well HUC: 19030502 Description: Not Reported Drainage Area: Not Reported Drainage Area Units: Not Reported Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported Aquifer: Not Reported Formation Type: Not Reported Aquifer Type: Not Reported Construction Date: 19581201 Well Depth: Well Depth Units: 434 ft Well Hole Depth: 434 Well Hole Depth Units: ft

Ground water levels, Number of Measurements: 1 Level reading date: 1960-06-01 Feet below surface: 90.00 Feet to sea level: Not Reported

Note: Not Reported

2 NE FED USGS USGS4000016239

1/2 - 1 Mile Lower

Organization ID: USGS-AK Organization Name: USGS Alaska Water Science Center

SB00807213ACBB1 002 Monitor Location: Type: Well Description: Not Reported HUC: 19030502 Drainage Area: Not Reported **Drainage Area Units:** Not Reported Contrib Drainage Area: Not Reported Contrib Drainage Area Unts: Not Reported Aquifer: Not Reported Formation Type: Not Reported Aquifer Type: Not Reported Construction Date: 19580101 Well Depth: 421 Well Depth Units: ft Well Hole Depth: 441 Well Hole Depth Units: ft

Ground water levels, Number of Measurements: 1 Level reading date: 1958-01-01 Feet below surface: 90.00 Feet to sea level: Not Reported

Note: Not Reported

A3 WNW FED USGS USGS40000016217

1/2 - 1 Mile Higher

Organization ID: USGS-AK Organization Name: USGS Alaska Water Science Center

SB00807214CACC1 002 Monitor Location: Type: Well 19030502 Description: Not Reported HUC: Drainage Area: Not Reported **Drainage Area Units:** Not Reported Contrib Drainage Area Unts: Contrib Drainage Area: Not Reported Not Reported Aquifer: Not Reported Formation Type: Not Reported Aquifer Type: Not Reported Construction Date: 19560227 202 ft

Well Depth:202Well Depth Units:ftWell Hole Depth:378Well Hole Depth Units:ft

Ground water levels, Number of Measurements: 1 Level reading date: 1962-10-03 Feet below surface: 57.49 Feet to sea level: Not Reported

# **GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS**

Not Reported

60.00

Not Reported

Note:

Feet below surface:

Note:

A4 WNW I/2 - 1 Mile Higher		FED I	USGS USGS40000016218
Organization ID:	USGS-AK	Organization Name:	USGS Alaska Water Science Cente
Monitor Location:	SB00807214CACC2 002	Type:	Well
Description:	Not Reported	HUC:	19030502
Drainage Area:	Not Reported	Drainage Area Units:	Not Reported
Contrib Drainage Area:	Not Reported	Contrib Drainage Area Unts:	Not Reported
Aquifer:	Not Reported	Formation Type:	Not Reported
Aquifer Type:	Not Reported	Construction Date:	19490101
Well Depth:	185	Well Depth Units:	ft
Well Hole Depth:	190	Well Hole Depth Units:	ft
Ground water levels,Numbe	r of Measurements: 1	Level reading date:	1949-01-01

Feet to sea level:

Not Reported

# GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

## AREA RADON INFORMATION

State Database: AK Radon

Radon Test Results

Num Tests < 0.5 pCi/L 0.5 - 2.0 2.1 - 4.0 4.1 - 10 10-20 > 20 pCi/L

3

Federal EPA Radon Zone for BETHEL County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Not Reported

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

#### **HYDROLOGIC INFORMATION**

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Classification and Mapping

Source: Alaska Natural Heritage Program

Telephone: 907-235-2218

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

## PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Department of Administration, Oil & Gas Conservation Commission

Telephone:

Oil and gas well locations in the state.

#### **RADON**

State Database: AK Radon

Source: University of Alaska Fairbanks

Telephone: 907-474-7201 Radon Information

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

#### OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

## STREET AND ADDRESS INFORMATION

2008 TIGER© Map, produced by the U.S. Census Bureau.

**Bethel Airport** 

Bethel Airport Bethel, AK 99559

Inquiry Number: 5509557.2s

December 12, 2018

# **EDR Summary Radius Map Report**



6 Armstrong Road, 4th floor Shelton, CT 06484 Toll Free: 800.352.0050 www.edrnet.com

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**Thank you for your business.** Please contact EDR at 1-800-352-0050 with any questions or comments.

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A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

#### TARGET PROPERTY INFORMATION

#### **ADDRESS**

BETHEL AIRPORT BETHEL, AK 99559

#### **COORDINATES**

Latitude (North): 60.7769140 - 60° 46′ 36.89" Longitude (West): 161.8470070 - 161° 50′ 49.22"

Universal Tranverse Mercator: Zone 4 UTM X (Meters): 344965.8 UTM Y (Meters): 6741097.0

Elevation: 101 ft. above sea level

#### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property: N/A

Source: U.S. Geological Survey

## MAPPED SITES SUMMARY

Target Property Address: BETHEL AIRPORT BETHEL, AK 99559

Click on Map ID to see full detail.

MAP	0.75	100000	D.T.D.O.T. A.D.D.D.W.	RELATIVE	DIST (ft. & mi.)
ID A1	SITE NAME ADOT&PF BETHEL MAINT	ADDRESS BETHEL AIRPORT; SW O	DATABASE ACRONYMS SHWS	ELEVATION	DIRECTION TP
A2	CAMAI AIR	BETHEL REGIONAL ARPR	LUST, UST, RCRA NonGen / NLR		TP
A3	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	RGA LUST		TP
A4	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	RGA LUST		TP
A5	USFWS - BETHEL AIRPO	BETHEL AIRPORT,	RGA LUST		TP
A6	USFWS-BETHEL AIRPORT	BETHEL AIRPORT	RGA LUST		TP
A7	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	RGA LUST		TP
A8	USFWS - BETHEL AIRPO	BETHEL AIRPORT	RGA LUST		TP
A9	CAMAI AIR - BETHEL	BETHEL REGIONAL AIRP	RGA LUST		TP
A10	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT,	RGA LUST		TP
A11	SEAGULL AIR SERVICE	LOT 1 BLOCK 7, BETHE	RGA LUST		TP
A12	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT; P. O	RGA LUST		TP
A13	ROBAIR REPAIR	3241 NORTH RAMP, BET	RGA LUST		TP
A14	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT; P. O	RGA LUST		TP
A15	CAMAI AIR - BETHEL	BETHEL REGIONAL AIRP	RGA LUST		TP
A16	BETHEL NG, MAINTENAN	BETHEL AIRPORT HANGA	RGA LUST		TP
A17	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT	RGA LUST		TP
A18	USFWS - YUKON DELTA	BETHEL AIRPORT	RGA LUST		TP
A19	AKANG - BETHEL AAOF	BETHEL AIRPORT AAOF	RGA LUST		TP
A20	ARCTIC CIRCLE AIR BE	BETHEL AIRPORT; P. O	RGA LUST		TP
A21	AKANG - BETHEL AAOF	BETHEL AIRPORT AAOF;	RGA LUST		TP
A22	AKANG - BETHEL AAOF	BETHEL AIRPORT AAOF	RGA LUST		TP
A23	ADOT&PF BETHEL MAINT	BETHEL	RGA LUST		TP
A24	ADOTPF - MAINTENANCE	BETHEL	RGA LUST		TP
A25	ARCTIC CIRCLE AIR BE	BETHEL AIRPORT P. O.	RGA LUST		TP
A26	AKANG - HANGER FACIL	BETHEL AIRPORT LOT	RGA LUST		TP
A27	ADOT&PF BETHEL MAINT	BETHEL,	RGA LUST		TP
A28	NELSON ISLAND AIR SE	BETHEL AIRPORT	EDR Hist Auto		TP
A29	BETHEL, BETHEL ARMY	BETHEL AIRPORT	SPILLS		TP
A30		BETHEL AIRPORTS	ERNS		TP
A31	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	LUST		TP
A32	CAMAI AIR - BETHEL	BETHEL REGIONAL AIRP	SHWS		TP
A33	ARCTIC CIRCLE AIR SE	BETHEL AIRPORT; P. O	SHWS, LUST		TP
A34	YUTE AIR BANKRUPTCY	FISHER HANGAR LOT 4	SHWS		TP
A35	ERA AVIATION BETHEL	BETHEL AIRPORT, LOT	SHWS, ENG CONTROLS, INST CONTROL		TP
36	ADOT&PF BETHEL MAINT	CHIEF EDDIE HOFFMAN	SHWS, LUST, INST CONTROL	Lower	1 ft.
37	BETHEL FUEL SALES PU	BETHEL	SHWS	Lower	170, 0.032, NNE
B38	ROBAIR REPAIR-BETHEL	3241 NORTH R	SHWS	Lower	1032, 0.195, NE
B39	ROBAIR REPAIR CO	3241 N RAMP	LUST, RCRA NonGen / NLR	Lower	1032, 0.195, NE

## MAPPED SITES SUMMARY

Target Property Address: BETHEL AIRPORT BETHEL, AK 99559

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	<b>ELEVATION</b>	DIRECTION
40	BETHEL RADIO RELAY S	~5 MILES W OF, BETHE	SHWS, INST CONTROL	Higher	4398, 0.833, WNW
41	BETHEL BIA HEADQUART	4 MILES WEST OF BETH	SHWS	Higher	4700, 0.890, SSE
42	BETHEL BIA SPILL - W	BIA ROAD, ~4 MILES W	SHWS, INST CONTROL	Higher	4731, 0.896, NW

## TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ADOT&PF BETHEL MAINT BETHEL AIRPORT; SW O BETHEL, AK 99559	SHWS Facility Status: Active Hazard ID: 26924	N/A
CAMAI AIR BETHEL REGIONAL ARPR BETHEL, AK 99559	LUST eventid: 24882 Facility Status: Cleanup Complete  UST Facility Id: 666 Tank Status: Permanently Out of Use  RCRA NonGen / NLR	AKD085802114
	EPA ID:: AKD085802114	
YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK	RGA LUST	N/A
YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK	RGA LUST	N/A
USFWS - BETHEL AIRPO BETHEL AIRPORT, BETHEL, AK	RGA LUST	N/A
USFWS-BETHEL AIRPORT BETHEL AIRPORT BETHEL, AK	RGA LUST	N/A
YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK	RGA LUST	N/A
USFWS - BETHEL AIRPO BETHEL AIRPORT BETHEL, AK	RGA LUST	N/A
CAMAI AIR - BETHEL BETHEL REGIONAL AIRP BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT, BETHEL, AK	RGA LUST	N/A

SEAGULL AIR SERVICE LOT 1 BLOCK 7, BETHE BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT; P. O BETHEL, AK	RGA LUST	N/A
ROBAIR REPAIR 3241 NORTH RAMP, BET BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT; P. O BETHEL, AK	RGA LUST	N/A
CAMAI AIR - BETHEL BETHEL REGIONAL AIRP BETHEL, AK	RGA LUST	N/A
BETHEL NG, MAINTENAN BETHEL AIRPORT HANGA BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT BETHEL, AK	RGA LUST	N/A
USFWS - YUKON DELTA BETHEL AIRPORT BETHEL, AK	RGA LUST	N/A
AKANG - BETHEL AAOF BETHEL AIRPORT AAOF BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR BE BETHEL AIRPORT; P. O BETHEL, AK	RGA LUST	N/A
AKANG - BETHEL AAOF BETHEL AIRPORT AAOF; BETHEL, AK	RGA LUST	N/A
AKANG - BETHEL AAOF BETHEL AIRPORT AAOF BETHEL, AK	RGA LUST	N/A

ADOT&PF BETHEL MAINT BETHEL BETHEL, AK	RGA LUST	N/A
ADOTPF - MAINTENANCE BETHEL BETHEL, AK	RGA LUST	N/A
ARCTIC CIRCLE AIR BE BETHEL AIRPORT P. O. BETHEL, AK	RGA LUST	N/A
AKANG - HANGER FACIL BETHEL AIRPORT LOT BETHEL, AK	RGA LUST	N/A
ADOT&PF BETHEL MAINT BETHEL, BETHEL, AK	RGA LUST	N/A
NELSON ISLAND AIR SE BETHEL AIRPORT BETHEL, AK 99559	EDR Hist Auto	N/A
BETHEL, BETHEL ARMY BETHEL AIRPORT BETHEL, AK 99559	SPILLS Case Closed: 02/04/2010 Facility Id: 10279900702 Spill ID: 35306	N/A
BETHEL AIRPORTS BETHEL AIRPORTS BETHEL, AK	ERNS NRC Report #: 1181027	N/A
YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK 99559	LUST eventid: 23088 Facility Status: Cleanup Complete	N/A
CAMAI AIR - BETHEL BETHEL REGIONAL AIRP BETHEL, AK 99559	SHWS Facility Status: Cleanup Complete Hazard ID: 24882	N/A
ARCTIC CIRCLE AIR SE BETHEL AIRPORT; P. O BETHEL, AK 99559	SHWS	N/A

Facility Status: Cleanup Complete

Hazard ID: 23550

LUST

eventid: 23550

Facility Status: Cleanup Complete

YUTE AIR BANKRUPTCY FISHER HANGAR LOT 4 BETHEL, AK 99559 SHWS

N/A

Facility Status: Cleanup Complete

Hazard ID: 23088

ERA AVIATION BETHEL BETHEL AIRPORT, LOT BETHEL, AK 99559 SHWS

N/A

Facility Status: Cleanup Complete - Institutional Controls

Facility Status: Cleanup Complete

Facility Status: Active Hazard ID: 2465 Hazard ID: 2608 Hazard ID: 2108 Hazard ID: 3048 Hazard ID: 4159

\*Additional key fields are available in the Map Findings section

#### **ENG CONTROLS**

Facility Status: Cleanup Complete - Institutional Controls

Hazard ID: 2465

#### **INST CONTROL**

Facility Status: Cleanup Complete - Institutional Controls

Facility Status: Active Hazard ID: 2608 Hazard ID: 1552 Hazard ID: 24571 Hazard ID: 2465 Hazard ID: 2108

#### **SURROUNDING SITES: SEARCH RESULTS**

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in **bold italics** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

#### STANDARD ENVIRONMENTAL RECORDS

#### State- and tribal - equivalent CERCLIS

SHWS: A review of the SHWS list, as provided by EDR, and dated 09/25/2018 has revealed that there are 6 SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
BETHEL RADIO RELAY S Facility Status: Active Hazard ID: 2831	~5 MILES W OF, BETHE	WNW 1/2 - 1 (0.833 mi.)	40	16
BETHEL BIA HEADQUART Facility Status: Active Hazard ID: 2899	4 MILES WEST OF BETH	SSE 1/2 - 1 (0.890 mi.)	41	16
BETHEL BIA SPILL - W Facility Status: Cleanup Complete - Inst	BIA ROAD, ~4 MILES W stitutional Controls	NW 1/2 - 1 (0.896 mi.)	42	16
Lower Elevation	Address	Direction / Distance	Map ID	Page
ADOT&PF BETHEL MAINT Facility Status: Cleanup Complete Hazard ID: 24665	CHIEF EDDIE HOFFMAN	0 - 1/8 (0.000 mi.)	36	15
BETHEL FUEL SALES PU Facility Status: Cleanup Complete Hazard ID: 285 Hazard ID: 1858 Hazard ID: 1033 Hazard ID: 1549 Hazard ID: 1580	BETHEL	NNE 0 - 1/8 (0.032 mi.)	37	15
ROBAIR REPAIR-BETHEL Facility Status: Cleanup Complete Hazard ID: 22910	3241 NORTH R	NE 1/8 - 1/4 (0.195 mi.)	B38	15

## State and tribal leaking storage tank lists

LUST: A review of the LUST list, as provided by EDR, and dated 08/09/2018 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ADOT&PF BETHEL MAINT eventid: 24665 Facility Status: Cleanup Complete	CHIEF EDDIE HOFFMAN	0 - 1/8 (0.000 mi.)	36	15
ROBAIR REPAIR CO eventid: 22910 Facility Status: Cleanup Complete	3241 N RAMP	NE 1/8 - 1/4 (0.195 mi.)	B39	15

#### State and tribal institutional control / engineering control registries

INST CONTROL: A review of the INST CONTROL list, as provided by EDR, and dated 09/25/2018 has revealed that there is 1 INST CONTROL site within approximately 0.5 miles of the target property.

Lower Elevation	Address	<b>Direction / Distance</b>	Map ID	Page	
ADOT&PF BETHEL MAINT Facility Status: Cleanup Complete Hazard ID: 24665	CHIEF EDDIE HOFFMAN	0 - 1/8 (0.000 mi.)	36	15	

#### ADDITIONAL ENVIRONMENTAL RECORDS

#### Other Ascertainable Records

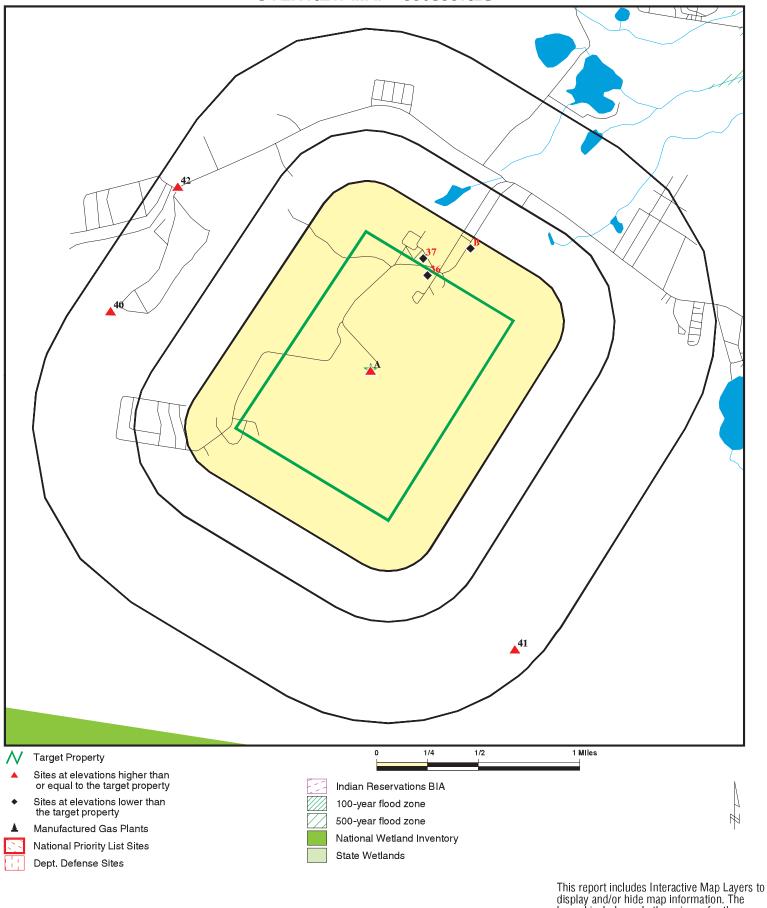
RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/01/2018 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page	
ROBAIR REPAIR CO EPA ID:: AKD983068933	3241 N RAMP	NE 1/8 - 1/4 (0.195 mi.)	B39	15	

Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BETHEL	1018161778	USDOT FAA BETHEL	BET BETHEL ARPRT NAV AIDS	9955	9 RCRA-CESQG, DOCKET HWC
BETHEL	1007443749	BETHEL LANDFILL	BETHEL CENSUS DIVISION		ODI
BETHEL	2014007622	BETHEL AIRPORT	BETHEL AIRPORT	9955	9 HMIRS
BETHEL	1004433667	USDOT FAA BETHEL SECTOR FIELD OFF	BETHEL ARPRT W OF CY E OF STA	9955	9 FTTS, HIST FTTS
BETHEL	1000586265	ALASKA AIRLINES BETHEL	3521 CHIEF EDDIE HOFFMAN HWY	9955	9 RCRA NonGen / NLR
BETHEL	1006798128	YUKON-KUSKOKWIM HEALTH CORPORATION	829 CHIEF EDDIE HOFFMAN HIGHWA	9955	9 ICIS, US AIRS
BETHEL	1008026103	FAA BETHEL WELL	TOWER RD	9955	FINDS, ECHO

# **OVERVIEW MAP - 5509557.2S**



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Bethel Airport

ADDRESS: Bethel Airport

Bethel AK 99559

LAT/LONG: 60.776914 / 161.847007

CLIENT: AECOM

CONTACT: Brittany Kirchmann

INQUIRY #: 5509557.2s

DATE: December 12, 2018 9:57 am

# **DETAIL MAP - 5509557.2S**



SITE NAME: Bethel Airport
ADDRESS: Bethel Airport
Bethel AK 99559
LAT/LONG: 60.776914 / 161.847007

CLIENT: AECOM
CONTACT: Brittany Kirchmann
INQUIRY #: 5509557.2s
DATE: December 12, 2018 9:57 am

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	>1	Total Plotted
STANDARD ENVIRONMENT	AL RECORDS							
Federal NPL site list								
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Federal Delisted NPL site	e list							
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Federal CERCLIS NFRAF	P site list							
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACT	TS facilities li	st						
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORI	RACTS TSD fa	acilities list						
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generator	s list							
RCRA-LQG RCRA-SQG RCRA-CESQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROL	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP	1	NR	NR	NR	NR	NR	1
State- and tribal - equiva	lent CERCLIS	;						
SHWS	1.000	5	2	1	0	3	NR	11
State and tribal landfill a solid waste disposal site								
SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking s	storage tank li	ists						
LUST INDIAN LUST	0.500 0.500	3	1 0	1 0	0 0	NR NR	NR NR	5 0
State and tribal registere	ed storage tan	k lists						
FEMA UST	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST AST INDIAN UST	0.250 0.250 0.250	1	0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	1 0 0
State and tribal institutional control / engineering control registries								
ENG CONTROLS INST CONTROL	0.500 0.500	1 1	0 1	0 0	0 0	NR NR	NR NR	1 2
State and tribal voluntary	cleanup site	es						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
State and tribal Brownfie	lds sites							
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	TAL RECORDS	<u> </u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	olid							
SWRCY INDIAN ODI ODI DEBRIS REGION 9 IHS OPEN DUMPS	0.500 0.500 0.500 0.500 0.500		0 0 0 0	0 0 0 0	0 0 0 0	NR NR NR NR NR	NR NR NR NR NR	0 0 0 0
Local Lists of Hazardous Contaminated Sites	waste/							
US HIST CDL CDL US CDL	TP TP TP		NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 0 0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency R	elease Repo	rts						
HMIRS SPILLS SPILLS 90	TP TP TP	1	NR NR NR	NR NR NR	NR NR NR	NR NR NR	NR NR NR	0 1 0
Other Ascertainable Reco	ords							
RCRA NonGen / NLR FUDS DOD SCRD DRYCLEANERS US FIN ASSUR EPA WATCH LIST	0.250 1.000 1.000 0.500 TP TP	1	0 0 0 0 NR NR	1 0 0 0 NR NR	NR 0 0 0 NR NR	NR 0 0 NR NR NR	NR NR NR NR NR	2 0 0 0 0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	Ö
TRIS	TP		NR	NR	NR	NR	NR	Ō
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS COAL ASH DOE	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	Ö
DOT OPS	TP		NR	NR	NR	NR	NR	Ö
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS DOCKET HWC	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0
UXO	1.000		0	0	0	0	NR NR	0 0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	Ő
COAL ASH	0.500		0	0	0	NR	NR	Ō
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICA	L RECORDS							
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125	1	Ō	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERN	IMENT ARCHIV	/ES						
Exclusive Recovered Go	vt. Archives							
RGA LF	TP		NR	NR	NR	NR	NR	0
NOA LI	11		INIX	INIX	INL	INIX	INIX	J

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LUST	TP	25	NR	NR	NR	NR	NR	25
- Totals		40	4	3	0	3	0	50

## NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

A1 ADOT&PF BETHEL MAINTENANCE STATION CLASS V INJECTI SHWS S122880016
Target BETHEL AIRPORT; SW OF TOWER RD & CHIEF EDDIE HOFFMAN HWY INT N/A

Property BETHEL, AK 99559

Click here for full text details

Actual: 101 ft.

SHWS

Hazard ID: 26924 Facility Status: Active

A2 CAMAI AIR

Target BETHEL REGIONAL ARPRT

LUST 1000146598

UST AKD085802114

Property BETHEL, AK 99559 RCRA NonGen / NLR

Click here for full text details

Actual: 101 ft.

LUST

eventid: 24882

Facility Status: Cleanup Complete

UST

Facility Id: 666

Tank Status: Permanently Out of Use

RCRA NonGen / NLR EPA ld: AKD085802114

A3 YUTE AIR BANKRUPTCY PROPERTIES RGA LUST S116474010

Target FISHER HANGAR LOT 4 BLOCK 11, BETHEL AIRPORT

Property BETHEL, AK

Click here for full text details

Actual: 101 ft.

A4 YUTE AIR BANKRUPTCY PROPERTIES RGA LUST S116474009

A4 YUTE AIR BANKRUPTCY PROPERTIES
Target FISHER HANGAR LOT 4 BLOCK 11, BETHEL AIRPORT,

Target FISHER HANG Property BETHEL, AK

Click here for full text details

Actual: 101 ft.

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N/A

MAP FINDINGS Map ID Direction Distance **EDR ID Number** Elevation Site Database(s) **EPA ID Number** Α5 **USFWS - BETHEL AIRPORT, TANK #1** RGA LUST S116473511 Target **BETHEL AIRPORT,** N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. Α6 **USFWS-BETHEL AIRPORT, TANK #1** RGA LUST S116473556 **Target BETHEL AIRPORT** N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. RGA LUST S116474008 Α7 YUTE AIR BANKRUPTCY PROPERTIES FISHER HANGAR LOT 4 BLOCK 11 BETHEL AIRPORT **Target** N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. **8**A **USFWS - BETHEL AIRPORT, TANK #1** RGA LUST S116473512 **BETHEL AIRPORT** Target N/A Property BETHEL, AK Click here for full text details Actual: 101 ft. Α9 RGA LUST S116465320 **CAMAI AIR - BETHEL BETHEL REGIONAL AIRPORT BLDG 3594,** Target N/A

Property BETHEL, AK

Click here for full text details

Actual: 101 ft.

RGA LUST S116464648

A10 **ARCTIC CIRCLE AIR SERVICES - 2001** BETHEL AIRPORT, **Target** 

**Property BETHEL, AK** 

Click here for full text details

Actual: 101 ft.

TC5509557.2s Page 9

MAP FINDINGS Map ID Direction Distance **EDR ID Number** Elevation Site Database(s) **EPA ID Number** A11 SEAGULL AIR SERVICE INC. RGA LUST S116471932 Target **LOT 1 BLOCK 7, BETHEL AIRPORT** N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. A12 **ARCTIC CIRCLE AIR SERVICES - 1994** RGA LUST S116464646 **Target** BETHEL AIRPORT; P. O. BOX 907, N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. A13 **ROBAIR REPAIR** RGA LUST S116471810 3241 NORTH RAMP, BETHEL AIRPORT Target N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. A14 **ARCTIC CIRCLE AIR SERVICES - 1994** RGA LUST S116464647 **BETHEL AIRPORT; P. O. BOX 907** Target N/A Property BETHEL, AK Click here for full text details Actual: 101 ft.

A15 CAMAI AIR - BETHEL RGA LUST S116465321

Target BETHEL REGIONAL AIRPORT BLDG 3594

Property BETHEL, AK

Click here for full text details

Actual: 101 ft.

\_\_\_\_

A16 BETHEL NG, MAINTENANCE SHOP & AV AAOF RGA LUST S116465059
Target BETHEL AIRPORT HANGAR AAOF N/A

Property BETHEL, AK

Click here for full text details

Actual: 101 ft.

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MAP FINDINGS Map ID Direction Distance **EDR ID Number** Elevation Site Database(s) **EPA ID Number** A17 **ARCTIC CIRCLE AIR SERVICES - 2001** RGA LUST S116464649 **Target BETHEL AIRPORT** N/A **BETHEL, AK Property** Click here for full text details Actual: 101 ft. A18 **USFWS - YUKON DELTA NWR HANGER RGA LUST S116473549 Target BETHEL AIRPORT** N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. A19 **AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY N RGA LUST** S116464054 BETHEL AIRPORT AAOF LOT #9 & 10 OF BLOCK 4 Target N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. A20 ARCTIC CIRCLE AIR BETHEL FACILITY RGA LUST S116464645 **BETHEL AIRPORT; P. O. BOX 907 Target** N/A Property BETHEL, AK Click here for full text details Actual: 101 ft. A21 **AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY N** RGA LUST S116464056 BETHEL AIRPORT AAOF; LOT # 9 & 10 OF BLOCK 4 Target N/A Property **BETHEL, AK** 

Click here for full text details

Actual: 101 ft.

A22 **AKANG - BETHEL AAOF HANGER FACILITY- ALASKA ARMY N** RGA LUST S116464055

BETHEL AIRPORT AAOF LOT # 9 & 10 OF BLOCK 4 **Target** 

**Property BETHEL, AK** 

Click here for full text details

Actual: 101 ft.

MAP FINDINGS Map ID Direction Distance **EDR ID Number** Elevation Site Database(s) **EPA ID Number** A23 ADOT&PF BETHEL MAINTENANCE FACILITY RGA LUST S116463500 Target **BETHEL** N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. A24 **ADOTPF - MAINTENANCE BETHEL** RGA LUST S116463648 **Target BETHEL** N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. A25 ARCTIC CIRCLE AIR BETHEL FACILITY **RGA LUST** S116464644 **BETHEL AIRPORT P. O. BOX 907** Target N/A **Property BETHEL, AK** Click here for full text details Actual: 101 ft. A26 **AKANG - HANGER FACILITY** RGA LUST S116464066 BETHEL AIRPORT LOT #9 & 10 OF BLOCK 4 Target N/A Property BETHEL, AK Click here for full text details Actual: 101 ft.

A27 ADOT&PF BETHEL MAINTENANCE FACILITY **RGA LUST S116463499** BETHEL, Target N/A

Property BETHEL, AK

Click here for full text details

Actual: 101 ft.

1020418233 A28 **NELSON ISLAND AIR SERVICE INC EDR Hist Auto** 

**Target BETHEL AIRPORT Property BETHEL, AK 99559** 

Click here for full text details

Actual: 101 ft.

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N/A

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

A29 BETHEL, BETHEL ARMY AVIATION OPERATIONS FACILITY A SPILLS S110245572 N/A

**Target BETHEL AIRPORT Property BETHEL, AK 99559** 

Click here for full text details

Actual: 101 ft.

**SPILLS** 

Case Closed: 02/04/2010 Spill ID: 35306

Facility Id: 10279900702

ERNS 2017181027 A30 N/A

**Target BETHEL AIRPORTS** 

**Property** BETHEL, AK

Click here for full text details

Actual: 101 ft.

**ERNS** 

NRC Report #: 1181027

A31 YUTE AIR BANKRUPTCY PROPERTIES LUST S109261041

**Target** FISHER HANGAR LOT 4 BLOCK 11 BETHEL AIRPORT N/A

BETHEL, AK 99559 **Property** 

Click here for full text details

Actual: 101 ft.

LUST

eventid: 23088

Facility Status: Cleanup Complete

A32 **CAMAI AIR - BETHEL** SHWS S109256702

**BETHEL REGIONAL AIRPORT BLDG 3594 Target** N/A

**Property BETHEL, AK 99559** 

Click here for full text details Actual:

101 ft.

SHWS

Hazard ID: 24882

Facility Status: Cleanup Complete

SHWS S109255835 A33 **ARCTIC CIRCLE AIR SERVICES - 1994** LUST N/A

**Target BETHEL AIRPORT; P. O. BOX 907** 

**BETHEL, AK 99559 Property** 

Click here for full text details

Actual: 101 ft.

SHWS

Hazard ID: 23550

Facility Status: Cleanup Complete

LUST

MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**ARCTIC CIRCLE AIR SERVICES - 1994 (Continued)** 

S109255835

N/A

eventid: 23550

Facility Status: Cleanup Complete

SHWS YUTE AIR BANKRUPTCY PROPERTIES S109255581 A34

FISHER HANGAR LOT 4 BLOCK 11, BETHEL AIRPORT **Target** 

**Property BETHEL, AK 99559** 

Click here for full text details

Actual: 101 ft.

SHWS

Hazard ID: 23088

Facility Status: Cleanup Complete

A35 **ERA AVIATION BETHEL AIRPORT FAC.** SHWS S107504763

**Target BETHEL AIRPORT, LOT 2B, BLOCK 4** 

**Property** 

**ENG CONTROLS** N/A **BETHEL, AK 99559 INST CONTROL** 

Actual:

Click here for full text details

101 ft.

**SHWS** 

Hazard ID: 2465 Hazard ID: 2608 Hazard ID: 2108 Hazard ID: 3048 Hazard ID: 4159

Hazard ID: 24571 Hazard ID: 25054 Hazard ID: 1552

Facility Status: Cleanup Complete - Institutional Controls

Facility Status: Cleanup Complete

Facility Status: Active

**ENG CONTROLS** 

Hazard ID: 2465

Facility Status: Cleanup Complete - Institutional Controls

**INST CONTROL** 

Hazard ID: 2608

Hazard ID: 1552 Hazard ID: 24571

Hazard ID: 2465

Hazard ID: 2108

Facility Status: Cleanup Complete - Institutional Controls

Facility Status: Active

Map ID MAP FINDINGS

Direction Distance

Distance Elevation Site EDR ID Number

Database(s) EPA ID Number

36 ADOT&PF BETHEL MAINTENANCE FACILITY

CHIEF EDDIE HOFFMAN HIGHWAY

< 1/8 BETHEL, AK 99559

1 ft.

Click here for full text details

Relative: SHWS Lower

Hazard ID: 24665

Facility Status: Cleanup Complete

LUST

eventid: 24665

Facility Status: Cleanup Complete

INST CONTROL

Hazard ID: 24665

Facility Status: Cleanup Complete

37 BETHEL FUEL SALES PUMPHOUSE

NNE BETHEL < 1/8 BETHEL, AK 99559

0.032 mi.

170 ft.

Relative: Click here for full text details

Lower

SHWS

Hazard ID: 285 Hazard ID: 1858 Hazard ID: 1033 Hazard ID: 1549 Hazard ID: 1580

Facility Status: Cleanup Complete

B38 ROBAIR REPAIR-BETHEL AIRPORT

NE 3241 NORTH R 1/8-1/4 BETHEL, AK 99559

0.195 mi. 1032 ft.

Click here for full text details

Relative: Lower

SHWS

Hazard ID: 22910

Facility Status: Cleanup Complete

B39 ROBAIR REPAIR CO
NE 3241 N RAMP
1/8-1/4 BETHEL, AK 99559

0.195 mi. 1032 ft.

Relative:

Click here for full text details

Lower

LUST

eventid: 22910

Facility Status: Cleanup Complete

RCRA NonGen / NLR

S109255472

N/A

LUST 1000473419

RCRA NonGen / NLR AKD983068933

SHWS

SHWS

**LUST** 

**INST CONTROL** 

S106247545

N/A

SHWS S109568328

N/A

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MAP FINDINGS Map ID

Direction Distance

**EDR ID Number** Elevation Site Database(s) **EPA ID Number** 

**ROBAIR REPAIR CO (Continued)** 

1000473419

EPA Id: AKD983068933

40 **BETHEL RADIO RELAY STATION** 

SHWS S107504601 **INST CONTROL** N/A

WNW ~5 MILES W OF, BETHEL **BETHEL, AK 99559** 1/2-1

0.833 mi. 4398 ft.

Click here for full text details

Relative: Higher

SHWS

Hazard ID: 2831 Facility Status: Active

**INST CONTROL** 

Hazard ID: 2831 Facility Status: Active

41 **BETHEL BIA HEADQUARTERS** SHWS S104892333 SSE **4 MILES WEST OF BETHEL** N/A

1/2-1 **BETHEL, AK 99559** 

0.890 mi. 4700 ft.

Click here for full text details

Relative: Higher

SHWS

Hazard ID: 2899 Facility Status: Active

42 **BETHEL BIA SPILL - WHITE ALICE TANK** SHWS S107028734 NW **INST CONTROL** BIA ROAD, ~4 MILES WEST OF BETHEL N/A

BETHEL, AK 99559 1/2-1

0.896 mi. 4731 ft.

Click here for full text details

Relative: Higher

SHWS

Hazard ID: 1868

Facility Status: Cleanup Complete - Institutional Controls

**INST CONTROL** 

Hazard ID: 1868

Facility Status: Cleanup Complete - Institutional Controls

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
AK	AIRS	AIRS Facility Listing	Department of Environmental Conservation	07/09/2018	07/13/2018	08/20/2018
AK	AST	Regulated Aboveground Storage Tanks	Department of Environmental Conservation	01/05/2005	01/06/2005	02/02/2005
AK	BROWNFIELDS	Identified and/or Proposed Brownfields Sites	Department of Environmental Conservation	09/25/2018	09/27/2018	10/24/2018
AK	CDL	Illegal Drug Manufacturing Sites	Department of Environmental Conservation	02/12/2018	02/13/2018	03/21/2018
AK	COAL ASH	Coal Ash Disposal Sites	Department of Environmental Conservation	03/08/2018	03/27/2018	04/13/2018
AK	DRYCLEANERS	Drycleaner Facility Listing	Department of Environmental Conservation	02/15/2006	02/16/2006	03/15/2006
AK	ENG CONTROLS	Engineering Controls Site Listing	Department of Environmental Conservation	09/25/2018	09/27/2018	10/24/2018
AK	Financial Assurance 1	Financial Assurance Information Listing	Department of Environmental Conservation	11/12/2018	11/14/2018	11/28/2018
AK	Financial Assurance 2	Financial Assurance Information Listing	Department of Environmental Conservation	04/24/2007	04/26/2007	05/14/2007
AK	Inst Control	Contaminated Sites with Institutional Controls	Department of Environmental Conservation	09/25/2018	09/27/2018	10/24/2018
AK	LUST	Leaking Underground Storage Tank Database	Department of Environmental Conservation	08/09/2018	08/10/2018	08/20/2018
AK	NPDES	Wastwater Discharge Permit Listing	Department of Environmental Conservation	09/17/2018	09/18/2018	09/27/2018
AK	RGA LF	Recovered Government Archive Solid Waste Facilities List	Department of Environmental Conservation	00/11/2010	07/01/2013	01/17/2014
AK	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Environmental Conservation		07/01/2013	01/04/2014
AK	SHWS	Contaminated Sites Database	Department of Environmental Conservation	09/25/2018	09/27/2018	10/24/2018
	SPILLS	Spills Database	Department of Environmental Conservation	10/16/2018	10/18/2018	10/24/2018
AK	SPILLS 90	SPILLS90 data from FirstSearch	FirstSearch	07/21/2010		02/08/2013
AK		Solid Waste Facilities	Department of Environmental Conservation	09/06/2018	09/25/2018	09/27/2018
AK	SWRCY	Recycling Facilities	Department of Environmental Conservation	12/29/2014	12/30/2014	02/02/2015
AK	UIC	UIC Information	Oil & Gas Conservation Commission	11/12/2018	11/14/2018	11/28/2018
AK	UST	Underground Storage Tank Database	Department of Environmental Conservation	11/12/2018	11/14/2018	11/28/2018
AK	VCP	Voluntary Cleanup Program sites	Department of Environmental Conservation	11/26/2018	11/27/2018	11/28/2018
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	09/30/2017	05/08/2018	07/20/2018
US	ABANDONED MINES	Abandoned Mines	Department of Interior	09/10/2018	09/11/2018	09/14/2018
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	09/30/2018	10/12/2018	12/07/2018
US	CORRACTS	Corrective Action Report	EPA	03/01/2018	03/28/2018	06/22/2018
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	05/31/2018	07/26/2018	10/05/2018
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012
US	Delisted NPL	National Priority List Deletions	EPA	11/14/2018	11/27/2018	12/07/2018
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	09/02/2018	09/05/2018	09/14/2018
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.	00/02/2010	00/00/2010	00/14/2010
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	09/24/2018	09/25/2018	11/09/2018
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/07/2016	01/05/2017	04/07/2017
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2000	10/13/2017
US	FINDS	Facility Index System/Facility Registry System	EPA	08/07/2018	09/05/2018	10/05/2017
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
55	1 000	1 officing Odea Deletide Office	J.J. Anny Corps of Engineers	01/01/2010	31/00/2013	10/10/2010

US   FURLS PROGRAM   EPA Fuels Program Registered Listing   Formerly Ullized Sitos Remodal Action Program   Department of Energy   088/2217   088/2217   1008/2018   US   FURSAP   Formerly Ullized Sitos Remodal Action Program   Department of Energy   088/2217   071/2018   071/2018   US   HIST FTTS   FIFRATSCA Tracking System Inspection & Enforcement Case List   Environmental Protection Agency   101/92006   0301/2007   041/02007   041	St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US HUSRAP	US	•	EPA Fuels Program Registered Listing	<b>5</b> ,	08/22/2018	08/22/2018	10/05/2018
US HIST FITS   FIFRA/TSCA Tracking System Administrative Case Listing   Environmental Protection Agency   10/19/2006   30/10/2007   47/02/007   US HIMRS   Hazardous Materials Information Reporting System   10/19/2006   30/10/2007   47/02/007   US HIMRS   Hazardous Materials Information System   US. Department of Transportation   32/56/2018   30/27/2018   66/82/2018   US ICIS   US I	US	FUSRAP		Department of Energy	08/08/2017	09/11/2018	09/14/2018
US         HIST FTTS INSP         FIRANTSCA Tracking System Inspection & Enforcement Case Lis         Environmental Protection Agency         101/9/2006         03/01/2007         74/10/2007           US         HMIRS         Integrated Compliance Information System         U.S. Denton Integrated Compliance Integrated Co	US	HIST FTTS					
US         HMIRS         Hazardous Materials Information Reporting System         U.S. Department of Transportation         03/26/2018         05/27/2018         06/20/2018         05/20/2018	US	HIST FTTS INSP					
US         CICS         Integrated Compliance Information System         Environmental Protection Agency         11/18/2016         11/18/2016         20/20/2017           US         HIS OPEN DUMPS         Open Dumps on Indian Land         EPA Region 1         04/13/2018         60/18/2018         07/20/2018           US         INDIAN LUST R1         Leaking Underground Storage Tanks on Indian Land         EPA Region 1         04/13/2018         60/18/2018         07/20/2018           US         INDIAN LUST R4         Leaking Underground Storage Tanks on Indian Land         EPA Region 5         04/12/2018         60/18/2018         07/20/2018           US         INDIAN LUST R8         Leaking Underground Storage Tanks on Indian Land         EPA Region 6         04/12/2018         60/18/2018         07/20/2018           US         INDIAN LUST R8         Leaking Underground Storage Tanks on Indian Land         EPA Region 6         04/12/2018         05/18/2018         07/20/2018           US         INDIAN LUST R8         Leaking Underground Storage Tanks on Indian Land         EPA Region 1         04/12/2018         05/18/2018         07/20/2018           US         INDIAN BESERV         Leaking Underground Storage Tanks on Indian Land         EPA Region 1         04/12/2018         05/18/2018         07/20/2018           US         INDIAN UST R6	US	HMIRS		• •			
ISS   DISAN   LUST R1   Leaking Underground Storage Tanks on Indian Land   EPA Region 1   04/1/2014   05/18/2015   07/202018   US   INDIAN LUST R1   Leaking Underground Storage Tanks on Indian Land   EPA Region 1   04/1/2018   05/18/2018   07/202018   US   INDIAN LUST R1   Leaking Underground Storage Tanks on Indian Land   EPA Region 4   05/18/2018   05/18/2018   07/202018   US   INDIAN LUST R5   Leaking Underground Storage Tanks on Indian Land   EPA Region 5   04/12/2018   05/18/2018   07/202018   US   INDIAN LUST R5   Leaking Underground Storage Tanks on Indian Land   EPA Region 6   04/12/2018   05/18/2018   07/202018   US   INDIAN LUST R6   Leaking Underground Storage Tanks on Indian Land   EPA Region 6   04/12/2018   05/18/2018   07/202018   US   INDIAN LUST R6   Leaking Underground Storage Tanks on Indian Land   EPA Region 7   04/24/2018   05/18/2018   07/202018   US   INDIAN LUST R8   Leaking Underground Storage Tanks on Indian Land   EPA Region 8   04/25/2018   05/18/2018   07/202018   US   INDIAN LUST R9   Leaking Underground Storage Tanks on Indian Land   Environmental Protection Agency   04/10/2018   05/18/2018   07/202018   US   INDIAN UST R1   Underground Storage Tanks on Indian Land   EPA Region 1   04/13/2018   07/202018   US   INDIAN UST R1   Underground Storage Tanks on Indian Land   EPA Region 1   04/13/2018   07/202018   US   INDIAN UST R1   Underground Storage Tanks on Indian Land   EPA Region 1   04/12/2018   05/18/2018   07/202018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 1   04/12/2018   05/18/2018   07/202018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 6   04/12/2018   05/18/2018   07/202018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 6   04/12/2018   05/18/2018   07/202018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 6   04/12/2018   05/18/2018   07/202018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 6   04/12/2018   05/18/							
INDIAN LUST R1							
ISB   INDIAN LUST R4   Leaking Underground Storage Tanks on Indian Land   EPA Region 1   65/82/2018   65/82/2018   75/20/2018   USB   INDIAN LUST R5   Leaking Underground Storage Tanks on Indian Land   EPA Region 6   64/12/2018   65/82/2018   75/20/2018   USB   INDIAN LUST R6   Leaking Underground Storage Tanks on Indian Land   EPA Region 6   64/01/2018   65/82/2018   75/20/2018   USB   INDIAN LUST R7   Leaking Underground Storage Tanks on Indian Land   EPA Region 7   64/25/2018   65/82/2018   75/20/2018   USB   INDIAN LUST R8   Leaking Underground Storage Tanks on Indian Land   EPA Region 8   64/25/2018   65/82/2018   75/20/2018   USB   INDIAN LUST R9   Leaking Underground Storage Tanks on Indian Land   EPA Region 8   64/25/2018   65/82/2018   75/20/2018   USB   INDIAN LUST R9   Leaking Underground Storage Tanks on Indian Land   Environmental Protection Agency   12/3/11/98   12/3/20/20/20/20/20/20/20/20/20/20/20/20/20/			, ,				
INDIAN LUST R4				<u> </u>			
US   INDIAN LUST R6				<u> </u>			
US   INDIAN LUST R6   Leaking Underground Storage Tanks on Indian Land   EPA Region 6   0.401/2018   0.5/18/2018   0.7/20/2018   US   INDIAN LUST R7   Leaking Underground Storage Tanks on Indian Land   EPA Region 7   0.4/24/2018   0.5/18/2018   0.7/20/2018   US   INDIAN LUST R8   Leaking Underground Storage Tanks on Indian Land   EPA Region 8   0.4/25/2018   0.7/20/2018   US   INDIAN LUST R8   Leaking Underground Storage Tanks on Indian Land   EPA Region 8   0.4/25/2018   0.7/20/2018   US   INDIAN LUST R9   Leaking Underground Storage Tanks on Indian Land   Environmental Protection Agency   1.2/31/1998   1.2/31/2018   0.7/20/2018   US   INDIAN UST R1   Underground Storage Tanks on Indian Land   EPA, Region 1   0.4/13/2018   0.7/20/2018   0.7/20/2018   US   INDIAN UST R1   Underground Storage Tanks on Indian Land   EPA, Region 1   0.4/13/2018   0.7/20/2018   0.7/20/2018   US   INDIAN UST R1   Underground Storage Tanks on Indian Land   EPA Region 4   0.5/08/2018   0.7/20/2018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 4   0.5/08/2018   0.7/20/2018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 6   0.401/2018   0.5/18/2018   0.7/20/2018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 6   0.401/2018   0.5/18/2018   0.7/20/2018   US   INDIAN UST R6   Underground Storage Tanks on Indian Land   EPA Region 6   0.401/2018   0.5/18/2018   0.7/20/2018   US   INDIAN UST R6   Underground Storage Tanks on Indian Land   EPA Region 6   0.401/2018   0.5/18/2018   0.7/20/2018   US   INDIAN UST R6   Underground Storage Tanks on Indian Land   EPA Region 8   0.4/25/2018   0.5/18/2018   0.7/20/2018   US   INDIAN UST R9   Underground Storage Tanks on Indian Land   EPA Region 8   0.4/25/2018   0.5/18/2018   0.7/20/2018   US   INDIAN UST R9   Underground Storage Tanks on Indian Land   EPA Region 8   0.4/25/2018   0.5/18/2018   US   INDIAN UST R9   Underground Storage Tanks on Indian Land   EPA Region 8   0.4/25/2018   0.5/18/2018   0.7/20/201							
US   INDIAN LUST R7							
INDIAN LUST R8				<u> </u>			
INDIAN LUST R9	US			•			
US   INDIAN ODI   Report on the Status of Open Dumps on Indian Lands   Environmental Protection Agency   12/31/1998   12/03/2007   01/12/2008   US   INDIAN RESERV   Indian Reservations   USGS   12/31/2014   07/14/2018   07/14/2018   US   INDIAN UST R1   Underground Storage Tanks on Indian Land   EPA Region 1   04/13/2018   05/18/2018   07/20/2018   US   INDIAN UST R4   Underground Storage Tanks on Indian Land   EPA Region 1   04/12/2018   05/18/2018   07/20/2018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 5   04/12/2018   05/18/2018   07/20/2018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 5   04/12/2018   05/18/2018   07/20/2018   US   INDIAN UST R5   Underground Storage Tanks on Indian Land   EPA Region 6   04/12/2018   05/18/2018   07/20/2018   US   INDIAN UST R7   Underground Storage Tanks on Indian Land   EPA Region 7   04/24/2018   05/18/2018   07/20/2018   US   INDIAN UST R8   Underground Storage Tanks on Indian Land   EPA Region 8   04/25/2018   05/18/2018   07/20/2018   US   INDIAN UST R8   Underground Storage Tanks on Indian Land   EPA Region 9   04/10/2018   05/18/2018   07/20/2018   US   INDIAN UST R8   Underground Storage Tanks on Indian Land   EPA Region 9   04/10/2018   05/18/2018   07/20/2018   US   INDIAN UST R8   Underground Storage Tanks on Indian Land   EPA Region 9   04/10/2018   05/18/2018   07/20/2018   US   INDIAN UST R8   Underground Storage Tanks on Indian Land   EPA Region 9   04/10/2018   05/18/2018   05/18/2018   05/18/2018   US   US   US   US   US   US   US   U				<u> </u>			
US         INDIAN RESERV         Indian Reservations         USGS         1221/2014         07/14/2015         01/10/2017           US         INDIAN UST R1         Underground Storage Tanks on Indian Land         EPA, Region 10         04/13/2018         05/18/2018         07/20/2018           US         INDIAN UST R4         Underground Storage Tanks on Indian Land         EPA Region 1         05/08/2018         05/18/2018         07/20/2018           US         INDIAN UST R4         Underground Storage Tanks on Indian Land         EPA Region 5         04/12/2018         05/18/2018         07/20/2018           US         INDIAN UST R6         Underground Storage Tanks on Indian Land         EPA Region 6         04/01/2018         05/18/2018         07/20/2018           US         INDIAN UST R6         Underground Storage Tanks on Indian Land         EPA Region 6         04/01/2018         05/18/2018         07/20/2018           US         INDIAN UST R7         Underground Storage Tanks on Indian Land         EPA Region 7         04/24/2018         05/18/2018         07/20/2018           US         INDIAN UST R8         Underground Storage Tanks on Indian Land         EPA Region 7         04/24/2018         05/18/2018         07/20/2018           US         INDIAN VST R1         Underground Storage Tanks on Indian Land         EPA Re				ŭ ,			
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US         INDIAN UST R5         Underground Storage Tanks on Indian Land         EPA Region 5         04/12/2018         05/18/2018         07/20/2018           US         INDIAN UST R6         Underground Storage Tanks on Indian Land         EPA Region 6         04/01/2018         05/18/2018         07/20/2018           US         INDIAN UST R7         Underground Storage Tanks on Indian Land         EPA Region 8         04/25/2018         05/18/2018         07/20/2018           US         INDIAN UST R8         Underground Storage Tanks on Indian Land         EPA Region 8         04/25/2018         05/18/2018         07/20/2018           US         INDIAN UST R9         Underground Storage Tanks on Indian Land         EPA Region 9         04/10/2018         05/18/2018         07/20/2018           US         INDIAN UST R9         Underground Storage Tanks on Indian Land         EPA Region 9         04/10/2018         05/18/2018         07/20/2018           US         INDIAN UST R9         Underground Storage Tanks on Indian Land         EPA Region 9         04/10/2018         05/18/2018         07/20/2018           US         INDIAN UST R9         Underground Storage Tanks on Indian Land         EPA Region 1         07/27/2018         02/29/2015         02/18/2018         07/20/2018         07/20/2018         06/10/2018         06/10/2018							
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US         INDIAN UST R8         Underground Storage Tanks on Indian Land         EPA Region 8         04/25/2018         05/18/2018         07/20/2018           US         INDIAN UST R9         Underground Storage Tanks on Indian Land         EPA Region 9         04/10/2018         05/18/2018         07/20/2018           US         INDIAN VCP R1         Voluntary Cleanup Priority Listing         EPA, Region 7         03/20/2008         04/25/2008         05/18/2018         07/20/2018           US         INDIAN VCP R7         Voluntary Cleanup Priority Listing         EPA, Region 7         03/20/2008         04/22/2008         05/19/2008           US         LEAD SMELTER 1         Lead Smelter Sites         Environmental Protection Agency         08/13/2018         10/04/2018         11/16/2018           US         LEAD SMELTER 2         Lead Smelter Sites         American Journal of Public Health         04/05/2001         10/27/2010         12/02/2018           US         LICRS         Land Use Control Information         Environmental Protection Agency         08/13/2018         10/04/2018         11/16/2018           US         LICRS         Land Use Control Information System         Department of the Navy         10/17/2018         10/25/2018         12/07/2018           US         MLTS         Material Licensing Tracking Syste	US					05/18/2018	
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US         INDIAN VCP R1         Voluntary Cleanup Priority Listing         EPA, Region 1         07/27/2015         09/29/2015         02/18/2016           US         INDIAN VCP R7         Voluntary Cleanup Priority Listing         EPA, Region 7         03/20/2008         04/22/2008         05/19/2008           US         LEAD SMELTER 1         Lead Smelter Sites         Environmental Protection Agency         08/13/2018         10/04/2018         11/16/2018           US         LEAD SMELTER 2         Lead Smelter Sites         American Journal of Public Health         04/05/2001         10/27/2010         10/27/2010         10/27/2010         10/27/2010         10/27/2011         10/20/2010         10/27/2018         11/16/2018	US			•			
US         INDIAN VCP R7         Voluntary Cleanup Priority Lisiting         EPA, Region 7         03/20/2008         04/22/2008         05/19/2008           US         LEAD SMELTER 1         Lead Smelter Sites         Environmental Protection Agency         08/13/2018         10/04/2018         11/16/2018           US         LEAD SMELTER 2         Lead Smelter Sites         American Journal of Public Health         04/05/2001         10/04/2018         11/16/2018           US         LIENS 2         CERCLA Lien Information         Environmental Protection Agency         08/13/2018         10/04/2018         11/16/2018           US         LUCIS         Land Use Control Information System         Department of the Navy         10/17/2018         10/25/2018         12/07/2018           US         MLTS         Material Licensing Tracking System         Nuclear Regulatory Commission         08/30/2016         09/08/2016         10/21/2016           US         NPL         National Priority List         EPA         11/14/2018         11/27/2018         12/07/2018           US         NPL LIENS         Federal Superfund Liens         EPA         11/14/2018         11/27/2018         12/07/2018           US         NPL         Open Dump Inventory         EPA         09/30/1985         08/09/2004         09/17/2004	US			•			
US         LEAD SMELTER 1         Lead Smelter Sites         Environmental Protection Agency         08/13/2018         10/04/2018         11/16/2018           US         LEAD SMELTER 2         Lead Smelter Sites         American Journal of Public Health         04/05/2001         10/27/2010         12/02/2010           US         LIENS 2         CERCLA Lien Information         Environmental Protection Agency         08/13/2018         10/04/2018         11/16/2018           US         LUCIS         Land Use Control Information System         Department of the Navy         10/17/2018         10/25/2018         12/07/2018           US         MLTS         Material Licensing Tracking System         Nuclear Regulatory Commission         08/30/2016         09/08/2016         10/21/2018           US         NPL         National Priority List         EPA         11/14/2018         11/27/2018         12/07/2018           US         NPL LIENS         Federal Superfund Liens         EPA         10/15/1991         02/02/1994         03/30/1994           US         ODI         Open Dump Inventory         EPA         10/15/1991         02/02/1994         03/30/1994           US         PADS         PCB Activity Databases System         EPA         09/14/2018         10/01/2018         12/07/2018	US	INDIAN VCP R7			03/20/2008	04/22/2008	05/19/2008
US         LEAD SMELTER 2         Lead Smelter Sites         American Journal of Public Health         04/05/2001         10/27/2010         12/02/2010           US         LIENS 2         CERCLA Lien Information         Environmental Protection Agency         08/13/2018         10/04/2018         11/16/2018           US         LUCIS         Land Use Control Information System         Department of the Navy         10/17/2018         10/25/2018         12/07/2018           US         MLTS         Material Licensing Tracking System         Nuclear Regulatory Commission         08/30/2016         09/08/2016         10/21/2016           US         NPL         National Priority List         EPA         11/14/2018         11/27/2018         11/27/2018           US         NPL LIENS         Federal Superfund Liens         EPA         10/15/1991         02/02/1994         03/30/1994           US         ODI         Open Dump Inventory         Environmental Protection Agency         06/30/1985         08/09/2004         09/17/2004           US         PADS         PCB Activity Database System         EPA         09/14/2018         10/11/2018         12/07/2018           US         PCB Transformer Registration Database         Environmental Protection Agency         05/24/2017         11/30/2018         11/09/2018     <	US	LEAD SMELTER 1			08/13/2018	10/04/2018	11/16/2018
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US         MLTS         Material Licensing Tracking System         Nuclear Regulatory Commission         08/30/2016         09/08/2016         10/21/2016           US         NPL         National Priority List         EPA         11/14/2018         11/27/2018         12/07/2018           US         NPL LIENS         Federal Superfund Liens         EPA         10/15/1991         02/02/1994         03/30/1994           US         ODI         Open Dump Inventory         Environmental Protection Agency         06/30/1985         08/09/2004         09/17/2004           US         PADS         PCB Activity Database System         EPA         09/14/2018         10/11/2018         12/07/2018           US         PCB Transformer Registration Database         Environmental Protection Agency         05/24/2017         11/30/2017         12/15/2017           US         PRP         Potentially Responsible Parties         EPA         08/13/2018         10/04/2018         11/09/2018           US         PROposed NPL         Proposed National Priority List Sites         EPA         11/14/2018         11/27/2018         12/07/2018           US         RAATS         RCRA Administrative Action Tracking System         EPA         04/17/1995         07/03/1995         08/07/1995           US         RCR	US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	08/13/2018	10/04/2018	11/16/2018
US         NPL         National Priority List         EPA         11/14/2018         11/27/2018         12/07/2018           US         NPL LIENS         Federal Superfund Liens         EPA         10/15/1991         02/02/1994         03/30/1994           US         ODI         Open Dump Inventory         Environmental Protection Agency         06/30/1985         08/09/2004         09/17/2004           US         PADS         PCB Activity Database System         EPA         09/14/2018         10/11/2018         12/07/2018           US         PCB TRANSFORMER         PCB Transformer Registration Database         Environmental Protection Agency         05/24/2017         11/30/2017         12/15/2017           US         PRP         Potentially Responsible Parties         EPA         08/13/2018         10/04/2018         11/09/2018           US         Proposed NPL         Proposed N	US	LUCIS	Land Use Control Information System	Department of the Navy	10/17/2018	10/25/2018	12/07/2018
US         NPL LIENS         Federal Superfund Liens         EPA         10/15/1991         02/02/1994         03/30/1994           US         ODI         Open Dump Inventory         Environmental Protection Agency         06/30/1985         08/09/2004         09/17/2004           US         PADS         PCB Activity Database System         EPA         09/14/2018         10/11/2018         12/07/2018           US         PCB TRANSFORMER         PCB Transformer Registration Database         Environmental Protection Agency         05/24/2017         11/30/2017         12/15/2017           US         PRP         Potentially Responsible Parties         EPA         08/13/2018         10/04/2018         11/09/2018           US         Proposed NPL         Proposed National Priority List Sites         EPA         11/14/2018         11/27/2018         12/07/2018           US         RAATS         RCRA Administrative Action Tracking System         EPA         04/17/1995         07/03/1995         08/07/1995           US         RADINFO         Radiation Information Database         Environmental Protection Agency         10/02/2018         10/03/2018         11/09/2018           US         RCRA NonGen / NLR         RCRA - Non Generators / No Longer Regulated         Environmental Protection Agency         03/01/2018         0	US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
US         ODI         Open Dump Inventory         Environmental Protection Agency         06/30/1985         08/09/2004         09/17/2004           US         PADS         PCB Activity Database System         EPA         09/14/2018         10/11/2018         12/07/2018           US         PCB TRANSFORMER         PCB Transformer Registration Database         Environmental Protection Agency         05/24/2017         11/30/2017         12/15/2017           US         PRP         Potentially Responsible Parties         EPA         08/13/2018         10/04/2018         11/09/2018           US         Proposed NPL         Proposed National Priority List Sites         EPA         11/14/2018         11/27/2018         12/07/2018           US         RAATS         RCRA Administrative Action Tracking System         EPA         04/17/1995         07/03/1995         08/07/1995           US         RADINFO         Radiation Information Database         Environmental Protection Agency         10/02/2018         10/03/2018         11/09/2018           US         RCRA NonGen / NLR         RCRA - Non Generators / No Longer Regulated         Environmental Protection Agency         03/01/2018         03/28/2018         06/22/2018	US	NPL	National Priority List	EPA	11/14/2018	11/27/2018	12/07/2018
US         PADS         PCB Activity Database System         EPA         09/14/2018         10/11/2018         12/07/2018           US         PCB TRANSFORMER         PCB Transformer Registration Database         Environmental Protection Agency         05/24/2017         11/30/2017         12/15/2017           US         PRP         Potentially Responsible Parties         EPA         08/13/2018         10/04/2018         11/09/2018           US         Proposed NPL         Proposed National Priority List Sites         EPA         11/14/2018         11/27/2018         12/07/2018           US         RAATS         RCRA Administrative Action Tracking System         EPA         04/17/1995         07/03/1995         08/07/1995           US         RADINFO         Radiation Information Database         Environmental Protection Agency         10/02/2018         10/03/2018         11/09/2018           US         RCRA NonGen / NLR         RCRA - Non Generators / No Longer Regulated         Environmental Protection Agency         03/01/2018         03/28/2018         06/22/2018	US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US         PADS         PCB Activity Database System         EPA         09/14/2018         10/11/2018         12/07/2018           US         PCB TRANSFORMER         PCB Transformer Registration Database         Environmental Protection Agency         05/24/2017         11/30/2017         12/15/2017           US         PRP         Potentially Responsible Parties         EPA         08/13/2018         10/04/2018         11/09/2018           US         Proposed NPL         Proposed National Priority List Sites         EPA         11/14/2018         11/27/2018         12/07/2018           US         RAATS         RCRA Administrative Action Tracking System         EPA         04/17/1995         07/03/1995         08/07/1995           US         RADINFO         Radiation Information Database         Environmental Protection Agency         10/02/2018         10/03/2018         11/09/2018           US         RCRA NonGen / NLR         RCRA - Non Generators / No Longer Regulated         Environmental Protection Agency         03/01/2018         03/28/2018         06/22/2018	US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
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US         Proposed NPL         Proposed National Priority List Sites         EPA         11/14/2018         11/27/2018         12/07/2018           US         RAATS         RCRA Administrative Action Tracking System         EPA         04/17/1995         07/03/1995         08/07/1995           US         RADINFO         Radiation Information Database         Environmental Protection Agency         10/02/2018         10/03/2018         11/09/2018           US         RCRA NonGen / NLR         RCRA - Non Generators / No Longer Regulated         Environmental Protection Agency         03/01/2018         03/28/2018         06/22/2018	US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US         RAATS         RCRA Administrative Action Tracking System         EPA         04/17/1995         07/03/1995         08/07/1995           US         RADINFO         Radiation Information Database         Environmental Protection Agency         10/02/2018         10/03/2018         11/09/2018           US         RCRA NonGen / NLR         RCRA - Non Generators / No Longer Regulated         Environmental Protection Agency         03/01/2018         03/28/2018         06/22/2018	US	PRP	Potentially Responsible Parties	EPA	08/13/2018	10/04/2018	11/09/2018
US RADINFO Radiation Information Database Environmental Protection Agency 10/02/2018 10/03/2018 11/09/2018 US RCRA NonGen / NLR RCRA - Non Generators / No Longer Regulated Environmental Protection Agency 03/01/2018 03/28/2018 06/22/2018	US	Proposed NPL	Proposed National Priority List Sites	EPA	11/14/2018	11/27/2018	12/07/2018
US RCRA NonGen / NLR RCRA - Non Generators / No Longer Regulated Environmental Protection Agency 03/01/2018 03/28/2018 06/22/2018	US	RAATS		EPA	04/17/1995	07/03/1995	08/07/1995
	US	RADINFO	Radiation Information Database	Environmental Protection Agency	10/02/2018	10/03/2018	11/09/2018
US_RCRA-CESOG	US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
100 North Debug 100/01/2010 00/20/2010 00/20/2010 00/20/2010 00/20/2010	US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US RCRA-LQG RCRA - Large Quantity Generators Environmental Protection Agency 03/01/2018 03/28/2018 06/22/2018	US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	03/01/2018		06/22/2018
US RCRA-SQG RCRA - Small Quantity Generators Environmental Protection Agency 03/01/2018 03/28/2018 06/22/2018	US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	03/01/2018		06/22/2018
US RCRA-TSDF RCRA - Treatment, Storage and Disposal Environmental Protection Agency 03/01/2018 03/28/2018 06/22/2018	US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	03/01/2018	03/28/2018	06/22/2018
US RMP Risk Management Plans Environmental Protection Agency 08/01/2018 08/22/2018 10/05/2018	US	RMP	Risk Management Plans	Environmental Protection Agency	08/01/2018	08/22/2018	10/05/2018

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	ROD	Records Of Decision	EPA	08/13/2018	10/04/2018	11/16/2018
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	11/14/2018	11/27/2018	12/07/2018
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	11/14/2018	11/28/2018	12/07/2018
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	09/18/2018	09/18/2018	11/09/2018
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	09/21/2018	09/21/2018	11/09/2018
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	07/31/2018	08/28/2018	09/14/2018
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	08/31/2018	09/25/2018	11/09/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	09/21/2018	09/21/2018	11/09/2018
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	07/31/2018	08/28/2018	09/14/2018
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	08/01/2018	08/29/2018	10/05/2018
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/30/2017	06/19/2018	09/14/2018
NIX.	NIX MANUETOT	Facility and Markers Date	Description of Engineering (Company)	07/04/0040	00/04/0040	00/04/0040
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	07/01/2018	08/01/2018	08/31/2018
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
AK	Daycare Centers	Sensitive Receptor: Child Care Facilities Database	Department of Education & Early Development			
	•					
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
AK	State Wetlands	Wetland Classification and Mapping	Alaska Natural Heritage Program			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines	N-1-	PennWell Corporation			
US	Electric Power Transmission Line D	уата	PennWell Corporation			

St Acronym Full Name Government Agency Gov Date Arvl. Date Active Date

STREET AND ADDRESS INFORMATION

2008 TIGER© Map, produced by the U.S. Census Bureau.

# **GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM**

#### **TARGET PROPERTY ADDRESS**

BETHEL AIRPORT BETHEL AIRPORT BETHEL, AK 99559

### **TARGET PROPERTY COORDINATES**

Latitude (North): 60.776914 - 60° 46′ 36.89″ Longitude (West): 161.847007 - 161° 50′ 49.23″

Universal Tranverse Mercator: Zone 4 UTM X (Meters): 344965.8 UTM Y (Meters): 6741097.0

Elevation: 101 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property: N/A

Source: USGS 7.5 min quad index

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

- 1. Groundwater flow direction, and
- 2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

# **GROUNDWATER FLOW DIRECTION INFORMATION**

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

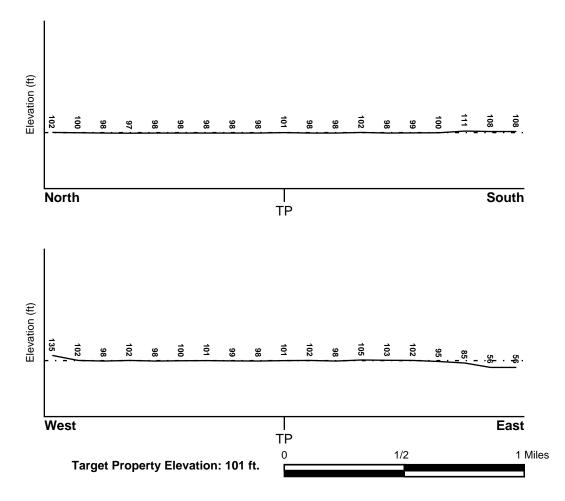
### **TOPOGRAPHIC INFORMATION**

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

#### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

#### SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

### HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

#### **FEMA FLOOD ZONE**

Flood Plain Panel at Target Property FEMA Source Type

0201040040C FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

0201040020C FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

Not Reported N

### HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

## **AQUIFLOW®**

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

 MAP ID
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

### **GROUNDWATER FLOW VELOCITY INFORMATION**

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

#### **GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY**

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

#### **ROCK STRATIGRAPHIC UNIT**

#### **GEOLOGIC AGE IDENTIFICATION**

Era: - Category: -

System: -

Series: -

Code: N/A (decoded above as Era, System & Series)

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

#### DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: HISTIC PERGELIC CRYAQUEPTS

Soil Surface Texture: peat

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high

water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic

conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

	Soil Layer Information							
Boundary Classification								
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)	
1	8 inches	0 inches	peat	A-8	Highly organic soils, Peat.	Max: 2.00 Min: 0.60	Max: 5.00 Min: 4.50	
2	9 inches	60 inches	ice or frozen soil	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00	

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: silt loam
Surficial Soil Types: silt loam

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: No Other Soil Types

# **LOCAL / REGIONAL WATER AGENCY RECORDS**

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

# WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u> <u>SEARCH DISTANCE (miles)</u>

Federal USGS 1.000

Federal FRDS PWS Nearest PWS within 1 mile

# FEDERAL USGS WELL INFORMATION

INE
ΙE
VNW
VNW

### FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP

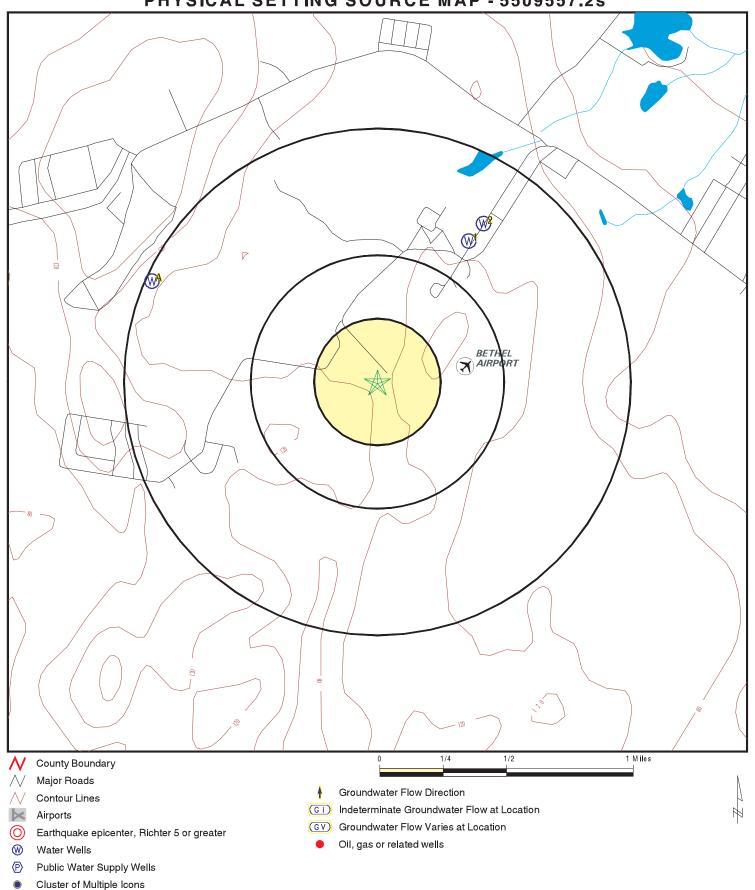
# FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

		LOCATION
MAP ID	WELL ID	FROM TP
No PWS System Found		

No PWS System Found

Note: PWS System location is not always the same as well location.

# PHYSICAL SETTING SOURCE MAP - 5509557.2s



SITE NAME: Bethel Airport Bethel Airport Bethel AK 99559 ADDRESS:

LAT/LONG: 60.776914 / 161.847007

CLIENT: AECOM CONTACT: Brittany Kirchmann

INQUIRY#: 5509557.2s

DATE: December 12, 2018 9:58 am

# **GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS**

Map ID Direction Distance Elevation		Database	EDR ID Number
1 NNE 1/2 - 1 Mile Lower	Click here for full text details	FED USGS	USGS40000016237
2 NE 1/2 - 1 Mile Lower	Click here for full text details	FED USGS	USGS40000016239
A3 WNW 1/2 - 1 Mile Higher	Click here for full text details	FED USGS	USGS40000016217
A4 WNW 1/2 - 1 Mile Higher	Click here for full text details	FED USGS	USGS40000016218

# GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

# AREA RADON INFORMATION

State Database: AK Radon

Radon Test Results

Num Tests < 0.5 pCi/L 0.5 - 2.0 2.1 - 4.0 4.1 - 10 10-20 > 20 pCi/L

3

Federal EPA Radon Zone for BETHEL County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Not Reported

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### **TOPOGRAPHIC INFORMATION**

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Source: U.S. Geological Survey

#### HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Classification and Mapping

Source: Alaska Natural Heritage Program

Telephone: 907-235-2218

#### HYDROGEOLOGIC INFORMATION

AQUIFLOW<sup>R</sup> Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

#### **GEOLOGIC INFORMATION**

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

#### LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

#### OTHER STATE DATABASE INFORMATION

Oil and Gas Well Database

Source: Department of Administration, Oil & Gas Conservation Commission

Telephone:

Oil and gas well locations in the state.

#### **RADON**

State Database: AK Radon

Source: University of Alaska Fairbanks

Telephone: 907-474-7201 Radon Information

Area Radon Information Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency

(USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor

radon levels.

## OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

# PHYSICAL SETTING SOURCE RECORDS SEARCHED

# STREET AND ADDRESS INFORMATION

2008 TIGER© Map, produced by the U.S. Census Bureau.

# Appendix B Preliminary Assessment Documentation

# Appendix B.1 Interview Records

# **PA Interview Questionnaire - Other**

Bethel
Facility: BETH 2
Interviewer: Date/Time: \$130/18 1130 an

			7	
Interviewee:	Can your name/role be u	ised in the	PA Report? Y or N	
Title: Face 1 ty Commender 9	an you recommend any	yone we ca	n interview?	
Phone Number:	or N			
Email:	A. Rport Main	eiger-	hist downerst	D
Roles or activities with the Facility/Years working	g at the Facility:			
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whole crew, 4 pepll	all now)	to	1 u	3 <del>8</del> 1
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PFAS Use: Identify accidental/intentional release lo		-		
storage container size (maintenance, fire training, fire builts), fueling stations, crash sites, pest management				
waterproofing). How are materials ordered/purchase			ctals plating, of	
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0.00			Nozzle and Suppression	
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Delfal	veston e	- typica		
Now Krown inciden	tran site		wenicle washing	
7/1/5 - 1 /			Ramp Washing	
			Fuel Spill Washing and Fueling Stations	
			Chrome Plating or Waterproofing	

PA Interview Questionnaire - Other		lity:
PITTINALC.	Intervie Date/T	wer:
BETTAAOF - re:	mid 19905 17h	
Interviewee:	Can your name/role be used in th	e PA Report? Y or N
Title: CW4	Can you recommend anyone we	can interview?
Phone Number:	Y or N	
Email:		
Roles or activities with the Facility/Years wor	king at the Facility:	
- Maintenance & Ficer	white @ Bet	hel AAOF
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6 yrs @ 1990-1996		
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storage container size (maintenance, fire training	, firefighting, buildings with suppres	ssion systems (as
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10/02		Known Uses
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dining facility and u	vatiched The	Procurement
crass.		Disposition
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Canada Fire - No	fine truck 0	Storage (Solution)
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report were respond	NO TONC	SOP on Filling
downtown.		Leaking Vehicles
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- Tried to contact -ald Formerly AKARNE & B	ethel Fine Deport	Dining Facilities
101110019 700711-100 90	The state of	Vehicle Washing
		Ramp Washing
		Fuel Spill Washing and Fueling Stations

Chrome Plating or Waterproofing

PA Interview Questionnaire - Other Can your name/role be used in the PA Report? Interviewee Can you recommend anyone we can interview? Title: Maintanance Lead Phone Number: Y or N Email: Roles or activities with the Facility/Years working at the Facility: may knew & Maui PFAS Use: Identify accidental/intentional release locations, time frame of release, frequency of releases, storage container size (maintenance, fire training, firefighting, buildings with suppression systems (as builts), fueling stations, crash sites, pest management, recreational, dining facilities, metals plating, or waterproofing). How are materials ordered/purchased/disposed/shared with others? Known Uses Use Procurement Disposition Storage (Mixed) Storage (Solution) Inventory, Off-Spec Containment SOP on Filling Leaking Vehicles Nozzle and Suppression System Testing Dining Facilities Vehicle Washing Ramp Washing Fuel Spill Washing and **Fueling Stations** Chrome Plating or Waterproofing

Natiquard Housepur 12/2

Facility:
Interviewer:
Date/Time: 4/30/(§

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	one I trunge on site -> ants spitched by Feds-ack
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	Big fire, Skylan
	396

# PA Interview Questionnaire - Other

Facility: Kangar 2
Interviewer: Date/Time: 8/2/2018

Interviewee:	Can your name/role be used in the	PA Report? Y or N
Title: D.O.T. Alport Mange	Can you recommend anyone we ca	n interview?
Phone Number	Y or N	
Email:		
Roles or activities with the Facility/Years work	ing at the Facility:	1 %
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PFAS Use: Identify accidental/intentional release	locations time frame of release free	mency of releases
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builts), fueling stations, crash sites, pest managem		etals plating, or
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7 4 12	.0.	Storage (Solution)
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)		Containment
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1. Tanny evens som	Somed N/agencies	Nozzle and Suppression
A: Have had some w/	guero past	System Testing
Bylers only	Maler	Dining Facilities
	W W	Vehicle Washing
sony ose frame ist	NOUN MORARO	Ramp Washing
PARMSINO . ar	it rid of foam	Fuel Spill Washing and Fueling Stations
that did not	neet FAISPER	Chrome Plating or Waterproofing
Shipped out w/	continueted dues	is >

PA Interview Questionnaire - Other Facility:\_ Interviewer: Date/Time: 413 Did not use for training o years, puck, 1 short plast Drukey water 400 under permentrost -> ON N Side of AKAIR Buildua

-)1.30 m

> near this bldg?

Facility:	Har	9av	1
Interviewer:	18/18	/	47430

Interviewee:	Can your name/role be used in the Can you recommend anyone we ca	•
Phone Number:	Y or N	in interview:
Email:	1 0111	
Roles or activities with the Facility/Years work	ing at the Facility:	
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x Lsin Beshellh	en) 1 brevalet	Vehicle Washing
grand it back to to	en Inresilia	Ramp Washing
2005		Fuel Spill Washing and Fueling Stations
Vort Know J	discharge Henry de	Waterproofing

AASF -> Don't rember any extinguishing a Henger 6

# Appendix B.2 Visual Site Inspection Checklists

Names(s) of people performing VSI:
Recorded by:
ARNG Contact:
Date and Time: \$ 130/14 1000 av-
Method of visit (walking, driving, adjacent):
Source/Release Information
Site Name / Area Name / Unique ID: BETH 2 Natique of hange
Site / Area Acreage: Real CSTate doc
Historic Site Use (Brief Description): always used by Nati grand as a hour
100/1+ rig5)
Current Site Use (Brief Description): Hunga ! Good Officed
or the approach to the lateral angular and the control of the cont
Physical barriers or access restrictions: Score door. Nac a ring-in Gystw
No Sence out front
1. Was PFAS used (or spilled) at the site/area?
1a. If yes, document how PFAS was used and usage time (e.g., fire fighting training 2001 to 2014):
small tlak inside
2. Has usage been documented?  2a. If yes, keep a record (place electronic files on a disk):
2a. If yes, keep a record (place electronic lifes on a disk).
3. What types of businesses are located near the site? Industrial / Commercial / Plating / Waterproofing / Residential
3a. Indicate what businesses are located near the site  AIR FIELD
4. Is this site located at an airport/flightline?
4a. If yes, provide a description of the airport/flightline tenants:
ap. Laks
Jo slow proto W
photo E inside Hangar, I rimer
Trive Sup. Pipo Ce
W "
W" multiple Ceaks in
PIPES" evy where " Page 1 of 4

3% AFFF

# **Visual Survey Inspection Log**

Other Significan	t Site Features:
1. Does the facilit	ty have a fire suppression system?
-	1a. If yes, indicate which type of AFFF has been used:
	3% Aft Seephoto Watarafoan
	Chemina 1 1 200
	1b. If yes, describe maintenance schedule/leaks:
. \	Part fest it - certifies by Frantier avery yer
W my III	
helicopy	1 XC 1
Var	1c. If yes, how often is the AFFF replaced:
	Not replaced or topped off.
	1d. If yes, does the facility have floor drains and where do they lead? Can we obtain an as built drawing?
	act unit, takes outly-vogor bous,
9	RGF unit takes out y troger bous, would be in change of re-order
Tuansport / Pa	others Information ( Should - 1 , Mickey) (20)
Migration Poten	theren to sew system. work be in change of re-order thrown Information Stank, gets picked up
	drainage flow off installation? Y/N
1. Does site/area	1a. If so, note observation and location:
	site is on a built up pad
2 Is those shown	elized flow within the site/area?
2. Is there channe	2a. If so, please note observation and location:
	adjusted ditch off pad
3. Are monitoring	g or drinking water wells located near the site?  Y/N
	3a. If so, please note the location:
No.	Maybe a Mondany Well
water is drew	ocked in sever is purped of
• 4. Are surface wa	ter intakes located near the site?
	4a. If so, please note the location:
×	
• 5. Can wind dispe	ersion information be obtained?
	5a. If so, please note and observe the location.
	airport
<ul> <li>6. Does an adiace</li> </ul>	nt non-ARNG PFAS source exist?
	6a. If so, please note the source and location.
	Airport facilities
	AIRPORT FOLCHER.
	(I. Will 60 it
	6b. Will off-site reconnaissance be conducted? Y/N

# Visual Survey Inspection Log

1. Has the infrastr	graphical Features:
	ructure changed at the site/area?
	1a. If so, please describe change (ex. Structures no longer exist):  Novel from a different water Bldg
	moved from a different water Blog
	Som BETHI TO BE
2. Is the site/area	
2. 15 1 5 5 41 41	2a. If not vegetated, briefly describe the site/area composition:
	would cement pad,
<ul> <li>3 Does the site or</li> </ul>	r area exhibit evidence of erosion?
3. Does the site of	3a. If yes, describe the location and extent of the erosion:
	grand Slarging @amony
- 4 D - 4 - 1/4	
4. Does the site/ar	rea exhibit any areas of ponding or standing water?
	4a. If yes, describe the location and extent of the ponding:
	Just Some Storing water coming yoully H20 Seeps
Irla arome	down right
Receptor Infor	d .
1. Is access to the	
1. Is access to the	
	1a. If so, please note to what extent:
	access to bldg is restriction
	Site Workers / Construction Workers / Trespassers / Residential / Recreational
	s the site? Users / Ecological Visitors
2. Who can access	
2. Who can access	2a. Circle all that apply, note any not covered above:
2. Who can access	
2. Who can access	
	2a. Circle all that apply, note any not covered above:  areas located near the site?
	2a. Circle all that apply, note any not covered above:
	2a. Circle all that apply, note any not covered above:  areas located near the site?
3. Are residential a	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:
3. Are residential a	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:
3. Are residential a	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:
3. Are residential a	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:
3. Are residential a	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:
3. Are residential a 4. Are any schools	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:  s/day care centers located near the site?  4a. If so, please note the location/distance/type:
3. Are residential a 4. Are any schools	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:  s/day care centers located near the site?  4a. If so, please note the location/distance/type:  ds located near the site?  Y/N  As located near the site?
3. Are residential a 4. Are any schools	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:  s/day care centers located near the site?  4a. If so, please note the location/distance/type:  ds located near the site?  5a. If so, please note the location/distance/type:
3. Are residential a 4. Are any schools	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:  s/day care centers located near the site?  4a. If so, please note the location/distance/type:  ds located near the site?  5a. If so, please note the location/distance/type:
3. Are residential a 4. Are any schools	2a. Circle all that apply, note any not covered above:  areas located near the site?  3a. If so, please note the location/distance:  s/day care centers located near the site?  4a. If so, please note the location/distance/type:  ds located near the site?  Y/N  As located near the site?

# Visual Survey Inspection Log

hotographic Log		they bearing the service
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# Appendix B.3 Conceptual Site Model Information

### **Preliminary Assessment – Conceptual Site Model Information**

**Site Name: Bethel AAOF** 

#### Why has this location been identified as a site?

Historically held TRI-MAX 30 AFFF crash carts, and hangar is equipped with AFFF FSS which has a leaky gauge, that leaks only when checked.

#### Are there any other activities nearby that could also impact this location?

There is a fire department that tests their AFFF form their truck once a year by spraying on the front ramp a short blast. This is approx. 1 mile north. Additionally, a 1992 skyvan crash resulted in the discharge of 500 gal. each of water and AFFF approx. 800 yards north.

#### **Training Events**

Have any training events with AFFF occurred at this site? No.

If so, how often?

How much material was used? Is it documented?

**Identify Potential Pathways:** Do we have enough information to fully understand over land surface water flow, groundwater flow, and geological formations on and around the facility? Any direct pathways to larger water bodies?

#### **Surface Water:**

Surface water flow direction? South/east into the Kuskokwim River

Average rainfall? 16.18 inches

Any flooding during rainy season? Coastal floodplain sometimes floods

Direct or indirect pathway to ditches? Yes

Direct or indirect pathway to larger bodies of water? Indirect pathway to Kuskokwim River

Does surface water pond any place on site? Yes, there are several kettle lakes in the area

Any impoundment areas or retention ponds? There are natural lakes nearby.

Any NPDES location points near the site? N/A

How does surface water drain on and around the flight line? Radially

# **Preliminary Assessment – Conceptual Site Model Information**

Groundwater:
Groundwater flow direction? South/East into Kuskokwim river
Depth to groundwater? Approx. 9 - 40 Feet. (meltwater and permafrost drastically affect groundwater
levels)
Uses (agricultural, drinking water, irrigation)? Groundwater is drawn from 400 feet bgs
Any groundwater treatment systems? No
Any groundwater monitoring well locations near the site? Maybe
Is groundwater used for drinking water? Yes, but it must be treated
Are there drinking water supply wells on installation? No
Do they serve off-post populations? No
Are there off-post drinking water wells downgradient . No
Waste Water Treatment Plant:
Has the installation ever had a WWTP, past or present? No, but the City of Bethel treats their water.
If so, do we understand the process and which water is/was treated at the plant?
Do we understand the fate of sludge waste?
Is surface water from potential contaminated sites treated?
Equipment Rinse Water
1. Is firefighting equipment washed? Where does the rinse water go?
Only the airport has fire fighting equipment that is tested.
2. Are nozzles tested? How often are nozzles tested? Where are nozzles tested? Are nozzles cleaned after use? Where does the rinse water flow after cleaning nozzles?
TRI-MAX carts are not tested here.
3. Other?
Identify Potential Receptors:
Site Worker
Construction Worker

# **Preliminary Assessment – Conceptual Site Model Information**

Recreational User
Residential
Child
Ecological
Note what is located near by the site (e.g. daycare, schools, hospitals, churches, agricultural, livestock)?
Documentation
Ask for Engineering drawings (if applicable).
Has there been a reconstruction or changes to the drainage system? When did that occur?

# Appendix C Photographic Log

Army National Guard, Preliminary
Assessment for PFAS

Bethel AAOF

Bethel, Alaska

#### Photograph No. 1

#### **Description:**

Bethel AKARNG Hangar, facing southeast.

Date Taken:

30 August 2018



#### Photograph No. 2

#### **Description:**

Bethel AKARNG Armory, facing northwest.

Date Taken:



Army National Guard, Preliminary Assessment for PFAS

**Bethel AAOF** 

Bethel, Alaska

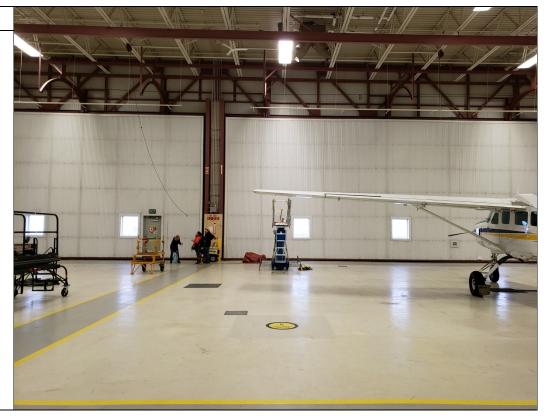
#### Photograph No. 3

#### **Description:**

TRI-MAX location inside the Bethel AAOF Hangar, facing southeast.

Date Taken:

30 August 2018



#### Photograph No. 4

#### **Description:**

AFFF drum inside the Bethel AAOF Hangar.

Date Taken:



Army National Guard, Preliminary
Assessment for PFAS

Bethel AAOF

Bethel, Alaska

#### Photograph No. 5

#### **Description:**

AFFF drums inside the Bethel AAOF Hangar.

Date Taken:

30 August 2018



#### Photograph No. 6

#### **Description:**

Valve system for the AFFF Fire Suppression System inside the Bethel AAOF Hangar.

Date Taken:



Army National Guard, Preliminary
Assessment for PFAS

**Bethel AAOF** 

Bethel, Alaska

#### Photograph No. 7

#### **Description:**

Diesel pump for the AAFF Fire Suppression System inside the Bethel AAOF Hangar.

Date Taken:

30 August 2018



#### Photograph No. 8

#### **Description:**

Two 800 gallon tanks of AFFF that supply the Fire Suppression System. Photo shows the leaky sight valve on the right tank.

Date Taken:



Army National Guard, Preliminary
Assessment for PFAS

Bethel AAOF

Bethel, Alaska

#### Photograph No. 9

#### **Description:**

Tops of the AFFF tanks and the sight gauge valves (clear tube) at  $\frac{3}{4}$  full.

Date Taken:

30 August 2018



#### Photograph No. 10

#### **Description:**

Left AFFF tank and surrounding system components.

Date Taken:



Army National Guard, Preliminary
Assessment for PFAS

Bethel AAOF

Bethel, Alaska

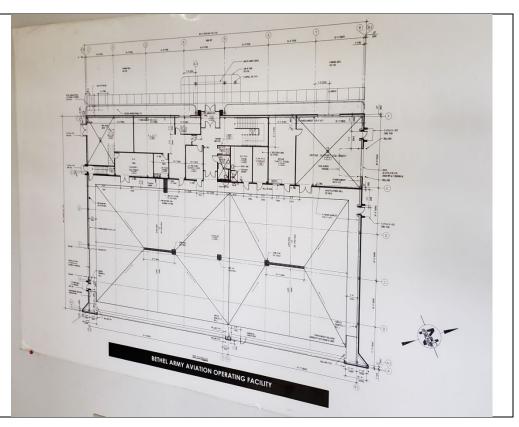
#### Photograph No. 11

#### **Description:**

As-built of the Bethel AAOF.

Date Taken:

30 August 2018



#### Photograph No. 12

#### **Description:**

Floor drain inside the Bethel AAOF Hangar, plugged in 2016.

Date Taken:



Army National Guard, Preliminary
Assessment for PFAS

Bethel AAOF

Bethel, Alaska

#### Photograph No. 13

#### **Description:**

Hangar floor drain outlet, disconnected in 2016, facing southwest.

Date Taken:

30 August 2018



#### Photograph No. 14

#### **Description:**

Southeast side of AAOF, facing northeast.

Date Taken:



Army National Guard, Preliminary Assessment for PFAS

**Bethel AAOF** 

Bethel, Alaska

#### Photograph No. 15

#### **Description:**

Northeast side of AAOF, facing northwest.

Date Taken:

30 August 2018



#### Photograph No. 16

#### **Description:**

Northeast side of AAOF, facing north.

Date Taken:



APPENDIX C -	Photographi	c Log

Army National Guard, Preliminary
Assessment for PFAS

Bethel AAOF

Bethel, Alaska

#### Photograph No. 17

#### **Description:**

Former AKARNG AAOF hangar, facing south.

Date Taken:

