

Final Preliminary Assessment Report Presque Isle SFRO and NMRC Presque Isle, Maine

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

November 2019

Prepared for:



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Acronyms and Abbreviations

°F	Degrees Fahrenheit
µg/L	micrograms per liter
AECOM	AECOM Technical Services, Inc.
AFFF	aqueous film forming foam
AOI	Area of Interest
ARNG	Army National Guard
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	conceptual site model
DVEM	Department of Defense, Veterans and Emergency Management
FTA	fire training area
MEARNG	Maine Army National Guard
MEDEP	Maine Department of Environmental Protection
mg/L	milligrams per liter
NMRC	Northern Maine Readiness Center
NOAA	National Oceanic and Atmospheric Administration
NPDES	National Pollutant Discharge Elimination System
NWI	National Wetland Inventory
PA	Preliminary Assessment
PFAS	per- and poly-fluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
PIUD	Presque Isle Utilities District
ppt	parts per trillion
SFRO	Store Front Recruiting Office
SI	Site Inspection
US	United States
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VSI	visual site inspection
WWTP	Wastewater Treatment Plant

Executive Summary

The United States (US) Army Corps of Engineers (USACE) Baltimore District on behalf of the Army National Guard-Installations & Environment Division, Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform *Preliminary Assessments (PAs) and Site Inspections (SIs) for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at Army National Guard (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), primarily in the form of aqueous film forming foam (AFFF) released as part of firefighting activities, although other PFAS sources are possible.

AECOM completed a PA for PFAS at the Maine ARNG (MEARNG) Presque Isle Store Front Recruiting Office (SFRO) and Northern Maine Readiness Center (NMRC) in Presque Isle, Maine, to assess potential PFAS release areas and exposure pathways to receptors. The performance of this PA included the following tasks:

- Reviewed data resources to obtain information relevant to suspected PFAS releases
- Conducted a site visit on 1 July 2019
- Interviewed current MEARNG personnel, Presque Isle Industrial Council personnel, and Presque Isle Fire Department personnel
- Completed visual site inspections (VSIs) at suspected PFAS release locations and documented with photographs

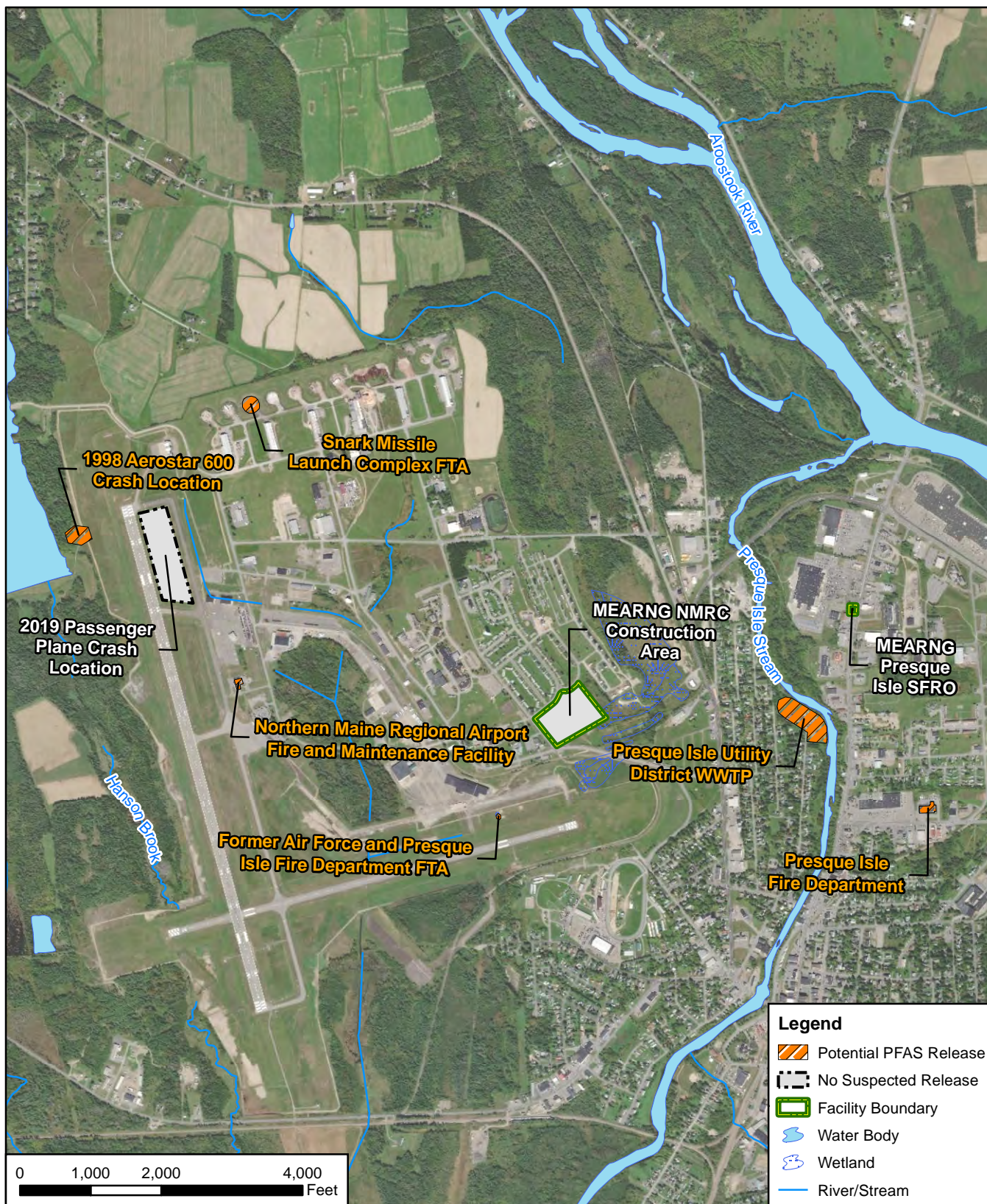
Two adjacent fire training areas (FTAs) were identified as potential adjacent PFAS source areas: the Presque Isle Fire Department FTA at the former Snark Missile Launch Complex, and the former FTA used by the Presque Isle Fire Department and Air Force, colloquially referred to as “The Pit”. The Snark Missile Launch Complex FTA has been historically used by the Presque Isle Fire Department (exact dates of use are unknown); training sometimes included AFFF use. The period of use of “The Pit” FTA are unknown, but AFFF use occurred approximately once per year during use.

The Northern Maine Regional Airport Fire and Maintenance Facility is considered a potential adjacent PFAS source area due to its storage of AFFF used for emergency response. The Presque Isle Fire Station Number One, located in downtown Presque Isle, is also considered a potential adjacent PFAS source due to its storage of AFFF and the maintenance of firefighting vehicles that carry AFFF.

Lastly, the location of a 1998 plane crash on the northwest end of Runway 1/19 is considered a potential adjacent PFAS source area due to the usage of AFFF to extinguish the resulting fire. These potential adjacent PFAS source areas are shown on **Figure ES-1**.

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.

Based on the documented absence of the use or release of PFAS-containing materials at the unfinished NMRC (currently under construction) and the Presque Isle SFRO, evidence does not support current or former ARNG activities at the facilities having contributed to PFAS contamination in soil, groundwater, surface water, or sediment. No areas of interest (AOIs) related to PFAS release were identified at the MEARNG Presque Isle SFRO or unfinished NMRC based on PA data. The Presque Isle SFRO and NMRC will not move forward in the CERCLA process.



CLIENT		ARNG			
NOTES		Preliminary Assessment for PFAS at Presque Isle, ME			
REVISED	11/8/2019	GIS BY	MS	11/8/2019	
SCALE	1:24,000	CHK BY	JW	11/8/2019	
Base Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI,		PM	RG	11/8/2019	



Summary of Findings

AECOM

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Figure ES-1

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 (SIs) 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. The ARNG is assessing potential effects on human health related to processes at facilities that used per- and poly-fluoroalkyl substances (PFAS), primarily in the form of aqueous film forming foam (AFFF) released as part of firefighting activities, although other PFAS sources 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 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. Maine does not currently have legally enforceable drinking water standards for PFAS.

This report presents findings of a PA for PFAS at Presque Isle Store Front Recruiting Office (SFRO) and Northern Maine Readiness Center (NMRC) in Presque Isle, ME, 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 documents the known Presque Isle SFRO and unfinished NMRC, the combination of which will also be referred to as the “facility”, as well as adjacent locations where PFAS may have been released into the environment. The term PFAS will be used throughout this report to encompass all PFAS chemicals being evaluated, including PFOS and PFOA, which are key components 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 site visit on 1 July 2019
- Interviewed current Maine Army National Guard (MEARNG) personnel, Presque Isle Industrial Council personnel, and Presque Isle Fire Department personnel
- Completed visual site inspections (VSIs) at suspected PFAS release locations and documented with photographs

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 (if present) 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 AFFF release at the facility, specifically in response to emergency situations (if present)
- **Section 5 – Adjacent Off-Site Sources:** describes sources of PFAS release adjacent to the facility that are not under the control of ARNG
- **Section 6 – Preliminary Conceptual Site Model:** describes the pathways of PFAS transport and receptors for the AOIs and the facility
- **Section 7 – Conclusions:** summarizes the data findings and presents the conclusions 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 History

The property that would become the Presque Isle International Airport was developed in 1937 for commercial air service and included one hangar and a runway. In 1941, Presque Isle Army Airfield was established to support World War II efforts as a major departure point for combat planes. The base remained active during the Korean war to defend the northeastern US and nearby Loring Air Force Base. In 1959, the 702d Strategic Missile Wing was activated, and Presque Isle Air Force Base became the nation's first Intercontinental Missile Base equipped with Northrop SM-62 Snark Intercontinental Cruise Missiles (henceforth referred to as "Snark" Missiles). The missile wing was deactivated in 1961, and all military activity at Presque Isle Air Force Base ceased. The Presque Isle Industrial Council was formed to develop an industrial park and make use of the parcels formerly occupied by the air force base. Today, the former base area consists of the Presque Isle International Airport, a technical college, housing areas, and 440 acres of industrial park (Presque Isle Air Museum, 2019).

The MEARNG operates two properties in Presque Isle, ME: the Presque Isle SFRO and the unfinished NMRC, which is currently under construction. The Presque Isle SFRO is located on the north end of Main Street in downtown Presque Isle, approximately 1.8 miles east of the Presque Isle International Airport Runway 1/19 (**Figure 1-1**). The Presque Isle SFRO shares a building with other businesses, and has no history of MEARNG use for anything other recruiting purposes. The unfinished NMRC encompasses approximately 10.6 acres between the intersections of Edgemont Drive with Morningside Road and Central Drive, approximately one mile east of Runway 1/19 (**Figure 1-1**). Aerial photographs demonstrate that the unfinished NMRC

was an agricultural field and forest in 1937. Deed records document ownership by Stanley Beckwith prior to 1943, at which time the property was acquired by the federal government for the development of the Presque Isle Air Force Base. It was then developed with residences between approximately 1940 and 2000. Residential development of the site transitioned from barracks circa 1940 to apparent duplexes in the 1960s (MEARNG, 2015a). The property is owned by the city of Presque Isle and managed by the Presque Isle Industrial Council. The 2016 quitclaim deed conveying the property to the state of Maine, Department of Defense, Veterans and Emergency Management (DVEM) is included in **Appendix A**. Construction for the NMRC began in 2018. The finished property will provide spaces that include training, administrative, vehicle maintenance, and locker room areas, along with special functions areas unique to the ARNG (WBRC, 2019).

1.5 Facility Environmental Setting

The Presque Isle SFRO and unfinished NMRC are situated in the Uplands physiographic zone, which extends northward and eastward from the mountains of Central Maine across Aroostook County into adjacent New Brunswick and Quebec. This zone is large and diverse, with tree species varying across microenvironments, although the two subject MEARNG facilities are located within developed spaces, and the adjacent areas are predominantly agricultural (MEARNG, 2015b).

Topography in the eastern portion of the Presque Isle SFRO gently slopes down northward along Main Street, towards the Aroostook River. On the northwestern portion of the SFRO, topography gently slopes down northwest towards the Walmart Supercenter parking lot. The Presque Isle Stream lies approximately 0.2 miles west of the SFRO, behind the Walmart Supercenter, and joins the Aroostook River about 0.4 miles north of the SFRO.

The unfinished NMRC lies west of the Presque Isle Stream, approximately 0.7 miles west of the SFRO. The construction zone for the readiness center is at the end of a paved, dead-end road that includes a storm drain outlet and sanitary sewer manway. The property includes a fire hydrant and electric/telephone utility pole. No other apparent structures existed at the site prior to construction of the readiness center; however, underground water, sewer, and stormwater utilities are expected (MEARNG, 2015a). As of the July 2019 site visit, the NMRC foundation was complete and structural walls were being constructed. The southeastern border of the property is forested with small trees.

Topography on the northern portions of the unfinished NMRC gently rises to the northwest towards residential areas. On the southern portions of the property, topography slopes downward more severely to the southeast, towards a forested/shrub wetland (National Wetland Inventory [NWI], 2019).

1.5.1 Geology

The Caribou and Presque Isle quadrangles, where the subject MEARNG properties are located, exhibit gently rolling topography in the eastern part of the quadrangles largely due to the prominence of easily-eroded limestone and calcareous shale in the bedrock. All of the quadrangle's sedimentary formations are unusually fossiliferous for the Appalachian Mountain region, which largely accounts for the long history of geologic investigations in the region (Roy, 1987).

The Caribou and Presque Isle quadrangles lie along the boundary between the Aroostook-Matapedia anticlinorium to the east and Ashland synclinorium to the west. In the Presque Isle quadrangle, the Ashland synclinorium widens considerably and incorporates the Siluro-Devonian rocks of the Chapman syncline. The oldest rocks in the quadrangles are of Ordovician age and are found in the core of the Castle Hill anticline, in the northwestern part of the Presque Isle

quadrangle (Winterville Formation), and in the northwestern corner of the Caribou quadrangle (Madawaska Lake Formation). The youngest rocks of the quadrangles are of Middle Devonian age and form the Mapleton Formation near Presque Isle (Roy, 1987).

The Silurian System largely underlies the city of Presque Isle and the two subject MEARNG facilities. The Silurian system of the region is represented by five formations: the laterally equivalent Frenchville, New Sweden, and Spragueville Formations are of late Llandoveryan-early Wenlockian age and comprise a lithofacies system that becomes less sandstone-rich and more distal eastward across the Caribou and Presque Isle quadrangles. The Spragueville Formation, which underlies the subject MEARNG facilities, is largely made up of a very calcareous laminated silty mudstone that typically is broken along bedding partings spaced 1 to 15 centimeters apart. In outcrop the formation presents a "flaggy" appearance. The lamination is caused by an alternation of layers of light gray highly calcareous siltstone or silty limestone with layers of dark gray calcareous silty mudstone (Roy, 1987). Silurian mudstone and Silurian to Ordovician limestone and siltstone are shown on **Figure 1-2**.

1.5.2 Hydrogeology

Significant sand and gravel aquifers are the primary groundwater source for satisfying the needs of municipalities and industry throughout Maine. These aquifers may also provide recharge to the underlying fractured bedrock-aquifer.

Both the Presque Isle SFRO and unfinished NMRC are underlain by areas with moderate to low or no potential groundwater yield. The Maine Geological Survey Significant Sand and Gravel Aquifers map describes the aquifers beneath the properties as surficial deposits yielding less than 10 gallons per minute. The deposits may be comprised of till, marine deposits, eolian deposits, alluvium, swamps, thin glacial sand, and gravel deposits or bedrock. Significant sand and gravel aquifers yielding up to greater than 50 gallons per minute are mapped between the two properties adjacent to the Presque Isle Stream (Neil, 2002). The significant aquifers, yielding greater than 20 gallons per minute, between the two properties include Maine Geological Survey aquifer IDs 1258, 1407, 1409, and 131 (Maine Geological Survey, 2019a).

Groundwater in the shallow, unconfined, surficial aquifer likely follows surface topography and flows from high topography to low. At the unfinished NMRC the inferred groundwater flow direction is from the northwest to the southeast, ultimately towards Presque Isle Stream. At the Presque Isle SFRO, the inferred groundwater flow direction is north towards Aroostook River.

Groundwater depth information for the Presque Isle SFRO and NMRC are unavailable; however, a depth to water of 6 feet below ground surface (bgs) was observed in an observation well located along the south bank of the Aroostook River, approximately 0.9 miles north/northwest of the Presque Isle SFRO, according to a 1989 study. Single-channel seismic data collected during the same study from six locations in the town of Presque Isle demonstrated water level depths ranging from 5 to 6 feet bgs (Locke et al., 1989).

The Maine Geological Survey Water Well Database identifies numerous wells, both domestic and commercial, in every direction surrounding the Presque Isle SFRO and the unfinished NMRC within one mile (Maine Geological Survey, 2019b). Wells are shown on **Figure 1-2**.

Presque Isle Utility District (PIUD) supplies drinking water to the city of Presque Isle. PIUD uses the Presque Isle Stream as its water source and is listed by the Maine Division of Environmental and Community Health as serving a population of 5,825 people (Maine Division of Environmental and Community Health, 2019).

1.5.3 Hydrology

Presque Isle, Maine is located in the western central portion of the Saint John River drainage, which drains much of northern Maine, adjacent areas of Quebec and a large area of central and western New Brunswick, Canada (MEARNG, 2015b). In general, surface water divides in the area coincide with groundwater divides (Locke et al., 1989). The Aroostook River Basin is the largest sub basin of the St John River, lying almost entirely within the state of Maine. It has a drainage area of 2,353 square miles at the international border with Canada (Newkirk, 2013). Locally, the Arnold Brook-Presque Isle Stream Watershed drains the MEARNG Presque Isle SFRO and unfinished NMRC areas (**Figure 1-3**).

There are no surface water bodies located within the MEARNG property footprints at either the SFRO or the unfinished NMRC (NWI, 2019); however, forested/shrub wetlands exist adjacent to the NMRC property to the east, and drainage flows downslope into a pond/emergent wetland adjacent to the southeast. The nearest regional surface water bodies are the Presque Isle Stream, located approximately 0.5 miles east of the NMRC, and the Aroostook River, located approximately 1.1 miles northeast of the NMRC. The SFRO is approximately 0.2 miles east of the Presque Isle Stream and approximately 0.4 miles south of its confluence with the Aroostook River.

No wastewater is produced at the unfinished NMRC. It is assumed that running water within the SFRO drains to city sanitary sewers. Neither of the MEARNG properties includes a wastewater treatment plant (WWTP).

The PIUD WWTP is located adjacent to the Presque Isle Stream, between the SFRO and the NMRC. Wastewater from the city of Presque Isle is channelized to the WWTP, where it is treated in an anaerobic digester to remove pathogens; the resulting sludge is stored until it can be applied as a fertilizer (Brino, 2019).

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.

1.5.4 Climate

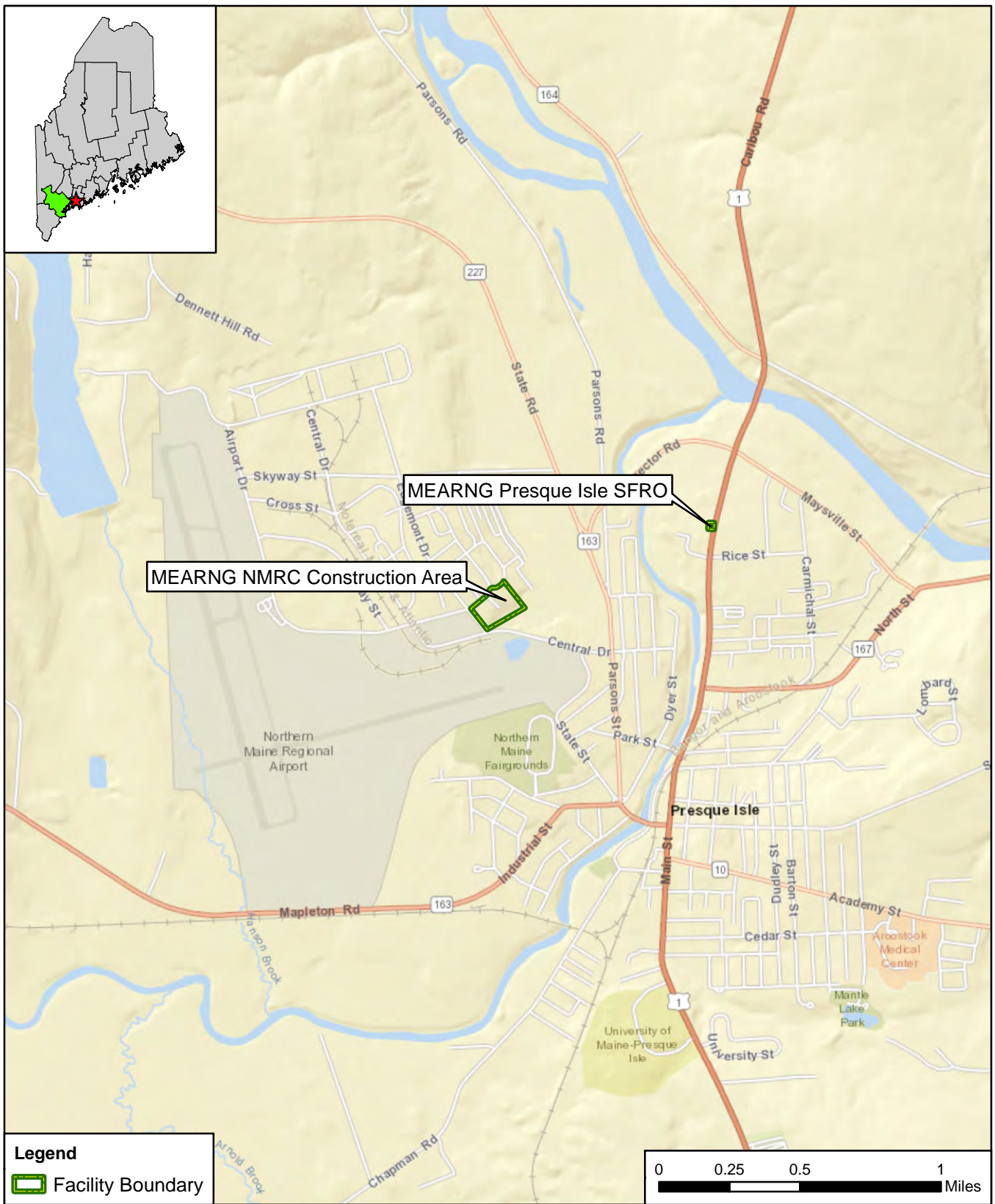
The MEARNG Presque Isle SFRO and unfinished NMRC are located in northeastern Maine, where the climate is characterized by warm summers and cold snowy winters. The average annual temperature in Presque Isle, Maine is 41.3 degrees Fahrenheit (°F), with an average temperature of 15.8 °F during the winter and 64.7 °F in summer. The coldest month is January, with an average temperature of 11.9 °F; the warmest month is July, with an average temperature of 66.7 °F (National Oceanic and Atmospheric Administration [NOAA], 2019).

Average annual precipitation is 35.80 inches, with the greatest rainfalls occurring between May and November. Annual snowfall is approximately 89 inches, with most of this falling between December and March (NOAA, 2019).

1.5.5 Current and Future Land Use

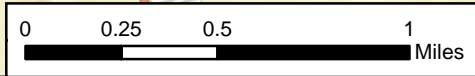
The city of Presque Isle zoning ordinance places the Presque Isle SFRO in a Business Zone, where professional offices, retail uses, public utility facilities, and government uses are permitted without special exemption. Historical aerial photographs indicate that land use has remained the same since at least 1996. The SFRO shares a building with Bread of Life Bulk Foods and Specialty Store. Other surrounding businesses include Walmart Supercenter, Citgo, Tim Hortons, and Key Bank. Future land use is anticipated to remain the same.

The city of Presque Isle zoning ordinance also places the unfinished NMRC property within a Business Zone. The subject property meets all minimum lot size requirements for development in the Business Zone. Adjacent properties include residences to the north, northwest, and northeast; undeveloped forested wetlands to the southeast; Presque Isle International Airport Runway 10/28 to the south; and light commercial and industrial development to the west. Historical aerial photographs indicate that current land uses are similar to land uses in place as of 1940, with the exception of a large coal pile and railroad siding that was formerly located southeast and downslope of the property.

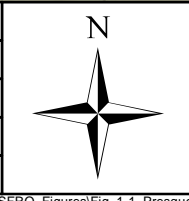


Legend

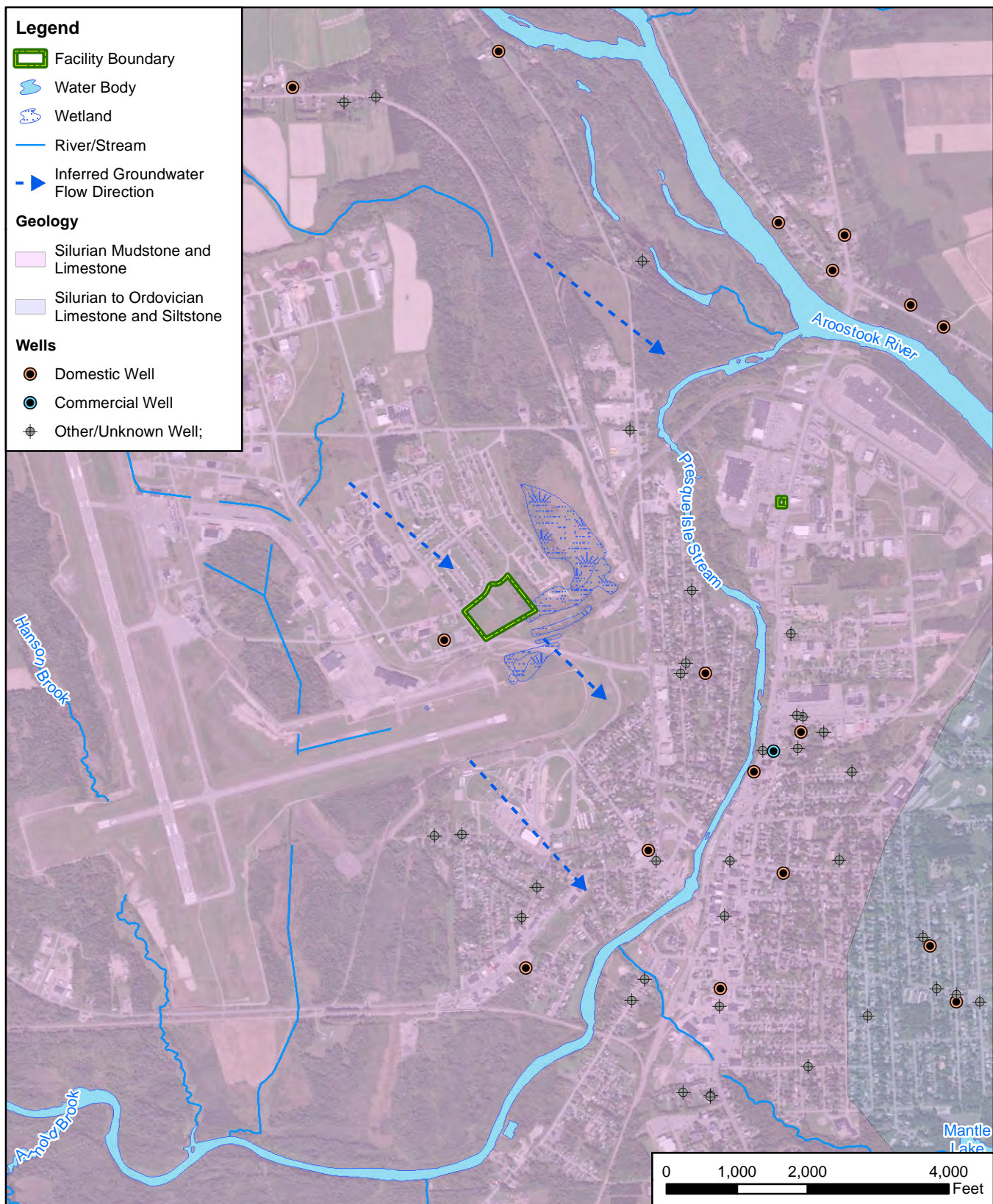
Facility Boundary





CLIENT		ARNG			
NOTES		Preliminary Assessment for PFAS at Presque Isle SFRO, ME			
REVISED	8/29/2019	GIS BY	MS	8/29/2019	
SCALE	1:31,680	CHK BY	JW	8/29/2019	
Base Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI,		PM	RG	8/29/2019	

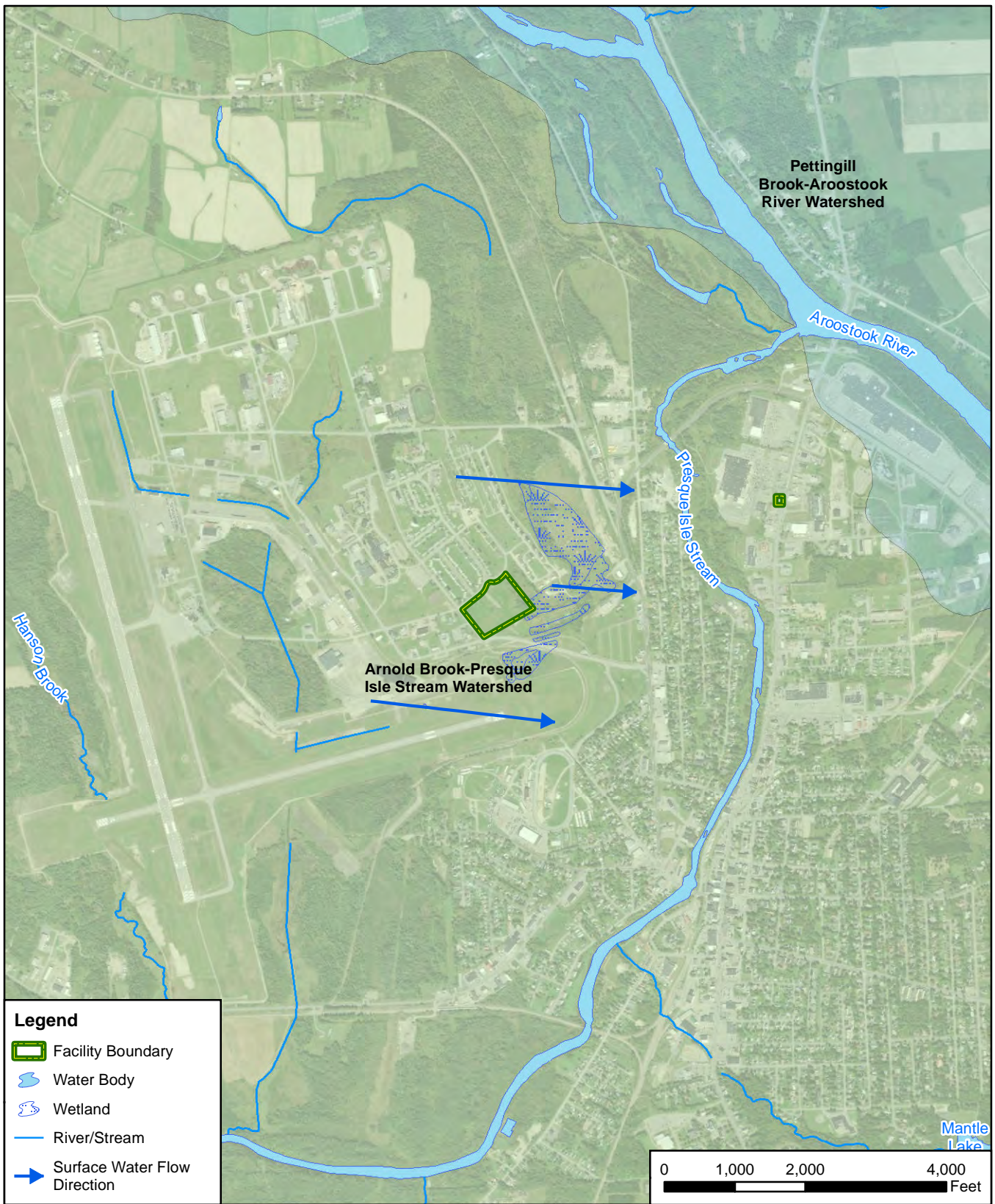




Facility Location	
 12420 Milestone Center Drive Germantown, MD 20876	Figure 1-1



CLIENT						Groundwater Features	
NOTES Preliminary Assessment for PFAS at Presque Isle, ME						 12420 Milestone Center Drive Germantown, MD 20876	
REVISED	8/19/2019	GIS BY	MS	8/19/2019			
SCALE	1:24,000	CHK BY	JW	8/19/2019			
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	8/19/2019		Figure 1-2	

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CLIENT		ARNG					Surface Water Features	
NOTES		Preliminary Assessment for PFAS at Presque Isle, ME					<div> 12420 Milestone Center Drive Germantown, MD 20876</div> <div>Figure 1-3</div>	
REVISED	8/19/2019	GIS BY	MS	8/19/2019				
SCALE	1:24,000	CHK BY	JW	8/19/2019				
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	8/19/2019				

2. Fire Training Areas

No FTAs were identified at the MEARNG Presque Isle SFRO or unfinished NMRC during the PA. MEARNG personnel confirmed that there are no FTAs at either property, nor have there ever been. The MEARNG has never used either facility for historical training of any kind. The SFRO consists of an office space used for recruiting purposes; the finished NMRC will be used for training and other purposes.

FTAs used by non-MEARNG units exist within the vicinity of the MEARNG properties and are discussed in **Section 5**.

3. Non-Fire Training Areas

Two non-FTAs where AFFF could have been potentially stored and/or released were investigated during the PA. A description of each non-FTA is presented below, and the non-FTAs are shown on **Figure 3-1**.

3.1 Presque Isle SFRO

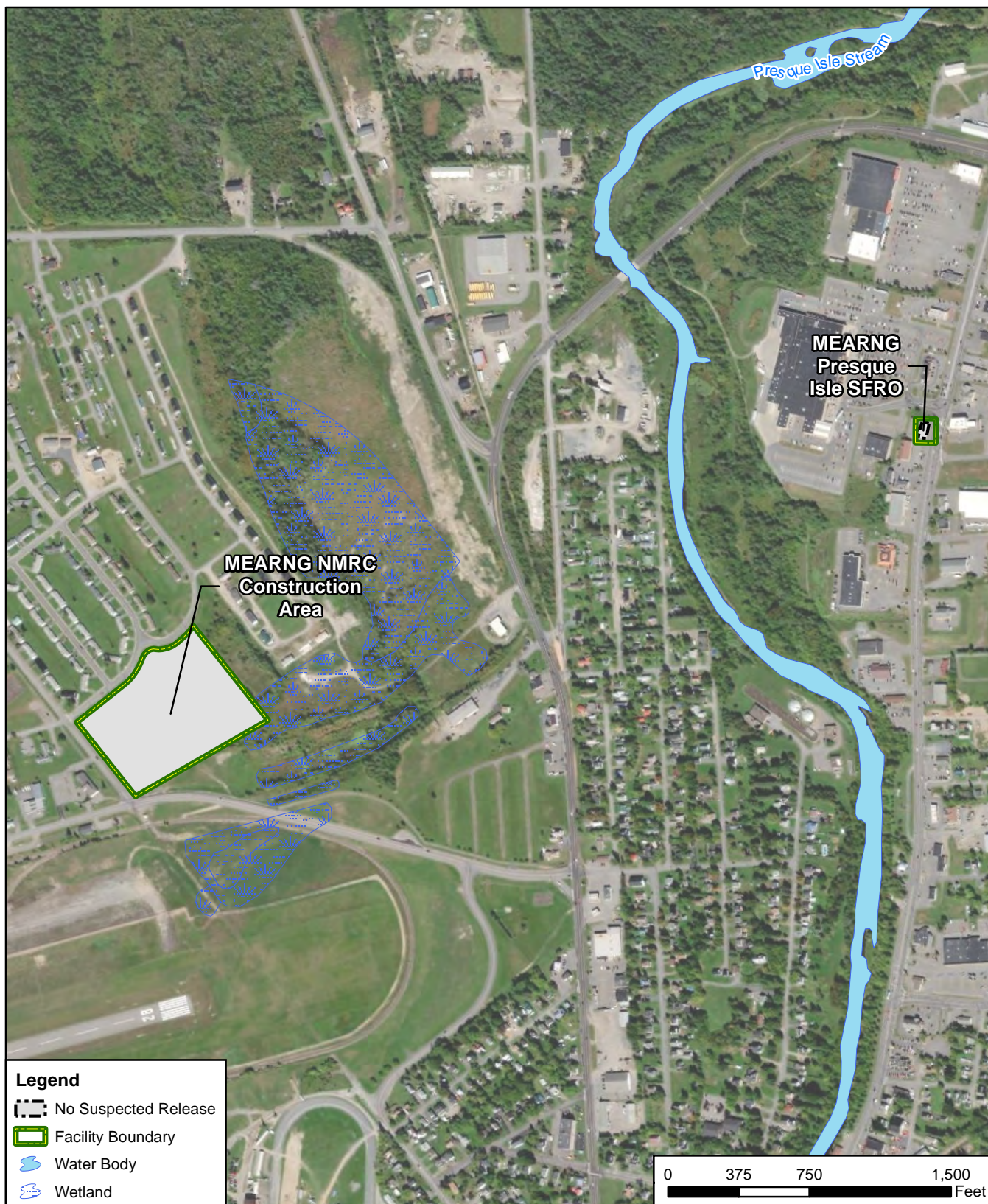
The MEARNG Presque Isle SFRO is located approximately 1.8 miles east of the Presque Isle International Airport Runway 1/19, at 769 Main Street, Presque Isle, Maine; its geographic coordinates are 46°41'47.67"N; 68°0'43.46"W. MEARNG personnel stated that no AFFF is stored on site currently nor has AFFF ever been stored or used at the SFRO.

The SFRO consists of an office space shared with Bread of Life Bulk Foods and Specialty Store and has never been used for MEARNG training of any kind. It is presumed that wastewater produced at the SFRO discharges to city sanitary sewers, which transport wastewater to the PIUD WWTP. It is unknown if the SFRO includes a fire suppression system.

3.2 NMRC Construction Area

The unfinished MEARNG NMRC encompasses approximately 10.6 acres between the intersections of Edgemont Drive with Morningside Road and Central Drive, approximately one mile east of Runway 1/19. The geographic coordinates of the unfinished NMRC are 46°41'33.71"N; 68°1'41.29"W. MEARNG personnel stated that no AFFF is stored on site currently nor has AFFF ever been stored or used at the SFRO.

The property is currently a construction zone that the finished NMRC will eventually occupy. Construction of the NMRC began in 2018. Historically, the property has been used as an agricultural field, residential area, and for barracks associated with the former Presque Isle Air Force Base. The finished property will provide spaces that include training, administrative, vehicle maintenance, and locker room areas, along with special functions areas unique to the ARNG (WBRC, 2019).



CLIENT		ARNG		
NOTES		Preliminary Assessment for PFAS at Presque Isle, ME		
REVISED	11/8/2019	GIS BY	MS	11/8/2019
SCALE	1:9,000	CHK BY	JW	11/8/2019
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	11/8/2019



Non-Fire Training Areas

AECOM

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Figure 3-1

4. Emergency Response Areas

No emergency response areas for incidents involving the use of AFFF were identified within the footprints of either the MEARNG Presque Isle SFRO or NMRC properties during the PA. Emergency response locations have been identified in areas surrounding the NMRC and are described in **Section 5**. Historical MEARNG crash information was provided by the MEARNG for review during the PA site visit. No crashes were listed for Presque Isle since AFFF began commonly being used by the Department of Defense circa 1969. The historical crash information provided is included in **Appendix A**.

5. Adjacent Off-Facility Sources

Several potential off-facility sources of PFAS adjacent to the MEARNG Presque Isle SFRO and unfinished NMRC, not under the control of the MEARNG, were identified during the PA through interviews, review of the Environmental Data Resources, Inc. (EDR) report for a 1-mile radius surrounding NMRC (**Appendix A**), and historical document review. A description of each potential adjacent source is presented below, and the sources are shown on **Figure 5-1**.

5.1 Snark Missile Launch Complex FTA

During its operational years, the former Presque Isle Air Force Base was the only operational launch complex for the Northrop SM-62 Snark Intercontinental Cruise Missile. The complex, which was deactivated in 1961, included six hangars and two launch pads per hangar (Presque Isle Air Museum, 2019). Since its deactivation, the Presque Isle Fire Department and other non-MEARNG units have used one of the launch pads for fire training exercises. The Snark Missile Launch Complex comprises one former launch pad, approximately 1 acre in size, located off Missile Street, near the north end of the Presque Isle International Airport Runway 1/19. The geographic coordinates of the Snark Missile Launch Complex are 46°42'17.28"N; 68°2'44.89"W.

The FTA includes a replica fuselage with adjacent fuel lines that connect to an aboveground storage tank containing propane. Propane from the tank feeds flames at the model fuselage during training events. According to a Fire Prevention Officer from the Presque Isle Fire Department, AFFF has been sprayed by the Presque Isle Fire Department to extinguish flames at the FTA during training. It is unknown which entities may have potentially used the FTA throughout its history. Interviewees stated that usage of the FTA began circa 1990, and training occurred approximately once per year until 2015. The type and concentration of AFFF used for training at the FTA are also unknown; however, Chemguard 3% AFFF concentrate is stored by the Presque Isle Fire Department at the nearby Northern Maine Regional Airport Fire and Maintenance Facility.

The fire suppression systems at the former complex hangars are unknown, but the hangar use predates the widespread use of AFFF by the Department of Defense (circa 1969). Hangars typically have fire suppression systems or other types of mobile fire extinguishers, which often include the use or storage of AFFF, to aid in emergency response activities on or near the flightline.

5.2 Former Air Force and Presque Isle Fire Department FTA

An FTA used by the Air Force and the Presque Isle Fire Department was formerly located approximately 0.1 mile north of the east end of Presque Isle International Airport Runway 10/28 and adjacent to the MEARNG unfinished NMRC. The former FTA was referred to as "The Pit". The former FTA's location was described during interviews by a Fire Prevention Officer with the Presque Isle Fire Department. Approximate geographic coordinates for the former FTA (based on description) are 46°41'23.25"N; 68°1'48.56"W.

According to the Fire Prevention Officer, the Air Force used to fill the FTA with jet fuel, ignite the fuel, and spray the pit with AFFF during training events. The Presque Isle Fire Department would also perform similar training events at the FTA approximately once per year. Interviewees stated that training at the FTA occurred during the 1970s and 1980s, and possibly extended into the 1990s. The type and concentration of AFFF used for training at the FTA are unknown; however, Chemguard 3% AFFF concentrate is stored by the Presque Isle Fire Department at the nearby Northern Maine Regional Airport Fire and Maintenance Facility.

The exact location of the FTA is unclear, but historical aerial photographs show a pit-like feature in the area described during interviews. The Pit is also listed as a freshwater emergent wetland (NWI, 2019). The Pit occurs adjacent to a drainage ditch that runs parallel to the Presque Isle International Airport Runway 10/28.

5.3 Northern Maine Regional Airport Fire and Maintenance Facility

The Northern Maine Regional Airport Fire and Maintenance Facility is located adjacent to Presque Isle International Airport Runway 1/19. Geographic coordinates for the Northern Maine Regional Airport Fire and Maintenance Facility are approximately 46°41'38.51"N; 68°2'48.17"W. The Northern Maine Regional Airport Fire and Maintenance Facility is sometimes referred to as the Presque Isle Fire Department Fire Station Number Two. This facility is only staffed during takeoff and landing at the adjacent Presque Isle International Airport. The Presque Isle Fire Department maintains four AFFF-capable firefighting vehicles, but only one was stationed at the Northern Maine Regional Airport Fire and Maintenance Facility during the PA site visit – a 2012 E-One P701 vehicle. According to a Presque Isle Fire Department Fire Prevention Officer, a backup skid unit capable of spraying AFFF is also brought to the facility occasionally. Fire department vehicle maintenance takes place at the main Presque Isle Fire Department Fire Station, referred to Fire Station Number One, located at 43 North Street, Presque Isle, Maine approximately 1.8 miles east of Fire Station Number Two.

Chemguard 3% AFFF concentrate is stored in 55-gallon drums and in the AFFF tank on the 2012 E-One P701 vehicle at the Northern Maine Regional Airport Fire and Maintenance Facility. Presque Isle Fire Department personnel stated during interviews that no known leaks or intentional releases of AFFF have occurred at the facility, nor have any vehicles stored at the facility experienced any maintenance issues resulting in leaks. Fire department personnel stated that three crashes have occurred at the airport in the last few years, but no crashes required AFFF in response by the Presque Isle Fire Department. The facility is surrounded by paved and grassy surfaces, and runoff at the facility connects to city sanitary sewer pipes.

5.4 Presque Isle Fire Department

The Presque Isle Fire Department, sometimes referred to as Fire Station Number One, is located at 43 North Street, Presque Isle, Maine, approximately 1.8 miles east of Presque Isle International Airport. Geographic coordinates for the Presque Isle Fire Department are approximately 46°41'19.52"N; 68°0'28.49"W. According to Presque Isle Fire Department personnel, the fire department maintains four vehicles capable of storing and spraying AFFF. Fire department vehicle maintenance takes place at Fire Station Number One. Although it is unknown what volume, type, and concentration of AFFF are stored at Fire Station Number One, Chemguard 3% AFFF concentrate is stored at Fire Station Number Two. A Fire Prevention Officer stated during interviews that one vehicle stored at Fire Station Number One has a history of maintenance issues, but the issues have not resulted in leaks of AFFF.

Fire training exercises do not occur at Fire Station Number One. The fire department uses the Snark Missile Launch Complex FTA for training purposes and sometimes hosts joint training exercises with other city and county fire departments at the FTA. According to fire department personnel, no known emergencies have occurred in the city of Presque Isle requiring AFFF use. No known intentional releases or leaks of AFFF have occurred at Fire Station Number One. The facility is surrounded by paved and grassy surfaces, and runoff connects to city sanitary sewer pipes.

5.5 1998 Aerostar 600 Crash Location

On 10 April 1998, a privately-owned Aerostar 600 was destroyed when it struck the ground near the touchdown zone of Presque Isle International Airport Runway 1/19 immediately after departure. The impact site was about 800 feet west of the runway and 300 feet prior to the departure end of runway; the airplane came to rest about 40 feet from the initial ground impact (Banville, 1998). The geographic coordinates of the approximate crash location area are 46°41'59.02"N; 68°3'20.30"W. According to Presque Isle Fire Department personnel, the airplane caught fire upon impact, and the fire department responded to the accident with AFFF and Purple K dry chemical fire extinguishants.

The volume of AFFF sprayed to extinguish the flames is unknown, as is the fate and transport of the AFFF used. The described location of the crash is approximately 0.1 miles east of Hanson Lake, which serves as the Northern Maine Regional Seaplane Base. Hanson Lake connects to Hanson Brook and other wetlands located parallel to Runway 1/19.

5.6 2019 Passenger Plane Crash Location

On 4 March 2019, a United Express passenger plane missed the runway at Presque Isle International Airport and landed roughly between Runway 1/19 and taxiway A in moderate snow. The geographic coordinates of the approximate crash location are 46°41'56.24"N; 68°3'2.53"W. Although the aircraft was damaged, no fires occurred and only minor injuries were sustained by those on board (BDN, 2019). According to Presque Isle Fire Department personnel, no AFFF was released as a result of the crash.

5.7 PIUD WWTP

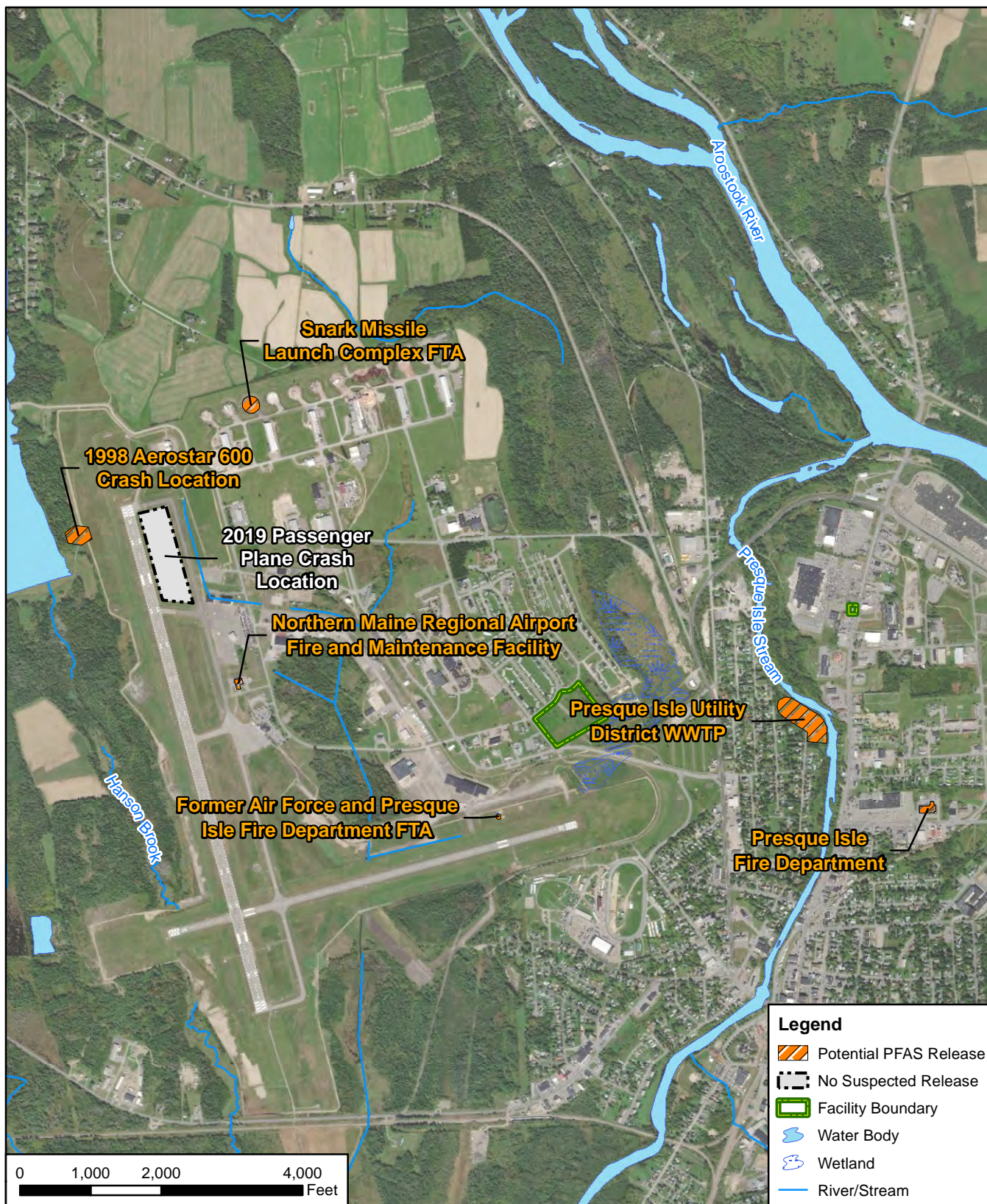
The PIUD WWTP is located adjacent to the Presque Isle Stream, between the SFRO and the NMRC. Approximate geographic coordinates for the PIUD WWTP are 46°41'32.16"N; 68°0'52.84"W. Wastewater from the city of Presque Isle is channelized to the WWTP, where it is treated in an anaerobic digester to remove pathogens; the resulting sludge is stored until it can be applied as a fertilizer. The WWTP generates about 10,000 gallons of sludge a week. Concentrations of 29 µg/L of PFOS have been observed in samples collected from the WWTP sludge (Brino, 2019). Sludge is spread during spring, summer, and fall on about 300 acres of hayfields on the Lathrop and Reach roads. The fields are harvested by an area farmer and used for livestock bedding (Brino, 2019).

WWTPs are not usually a primary potential release area of PFAS, but sludges and liquids from areas of potential release that are treated at WWTPs may create a secondary source of contamination, as demonstrated by detectable concentrations in sludge generated at the PIUD WWTP. Known AFFF releases at FTAs and emergency response locations in the area may contribute to PFAS in sludge and discharged, treated water from the WWTP.

5.8 Presque Isle Landfill

There are no landfills within the footprints of either of the subject MEARNG properties; however, there is a landfill associated with the city of Presque Isle. The Presque Isle Landfill is located approximately 6 miles south of the Presque Isle International Airport, on Lathrop Road. Approximate geographic coordinates for the Presque Isle Landfill are 46°36'2.03"N; 68°2'15.05"W. The landfill is a disposal facility for trash and construction/demolition debris. There are storage areas or containers for metal, tires, wood, and recyclables.

Landfills are not usually a primary potential release area of PFAS, but materials disposed of in landfills may create a secondary source of contamination. Such materials, to name a few, may include sludge from a WWTP that processes PFAS-laden water, used AFFF storage containers, or products associated with waterproofing uniforms or boots. Known PFAS release areas in the city of Presque Isle may have contributed to waste-containing PFAS being disposed of at the landfill.



CLIENT	ARNG			
NOTES	Preliminary Assessment for PFAS at Presque Isle, ME			
REVISED	8/19/2019	GIS BY	MS	8/19/2019
SCALE	1:24,000	CHK BY	JW	8/19/2019
Base Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI,		PM	RG	8/19/2019



Adjacent Sources

AECOM

12420 Milestone Center Drive
Germantown, MD 20876

Figure 5-1

6. Preliminary Conceptual Site Model

Based on the PA findings, no release areas were identified as AOIs at the MEARNG Presque Isle SFRO or the unfinished NMRC construction area; therefore, a preliminary conceptual site model (CSM) is not required for the facility. A CSM identifies three components necessary for potentially complete exposure pathways: (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 at the Presque Isle SFRO or unfinished NMRC, thus, there is no complete exposure pathway to potential receptors from ARNG use of PFAS sources at the facilities.

7. Conclusions

This PA report presents a summary of available information gathered during efforts on the potential use and storage of AFFF at the MEARNG Presque Isle SFRO and NMRC. The PA findings are based on personnel interviews, environmental investigations, publications, historical documents, and the VSI. The PA findings are based on the information presented in **Appendix A**, **Appendix B**, and **Appendix C**.

7.1 Findings

Based on the absence of the use or release of PFAS-containing materials at the MEARNG Presque Isle SFRO and NMRC, evidence does not support current or former ARNG activities at the facilities having contributed to PFAS contamination in soil, groundwater, surface water, or sediment. No AOIs related to PFAS release were identified at the subject properties based on PA data.

Adjacent potential PFAS release areas were identified within the vicinity of the MEARNG Presque Isle SFRO and the unfinished NMRC. Two FTAs where AFFF is known or suspected to have been used were identified: the Snark Missile Launch Complex FTA and the former Presque Isle Fire Department and Air Force FTA (“The Pit”). The Snark Missile Launch Complex FTA has been historically used by the Presque Isle Fire Department (exact dates of use are unknown); training sometimes included AFFF use. The period of use of “The Pit” FTA are unknown, but AFFF use occurred approximately once per year during use. The Northern Maine Regional Airport Fire and Maintenance Facility, is considered a potential adjacent PFAS source area due to its storage of and AFFF -capable vehicles. The Presque Isle Fire Station Number One, located in downtown Presque Isle is also considered a potential adjacent PFAS source due to its storage of AFFF and the maintenance of firefighting vehicles that carry AFFF. Lastly, the location of a 1998 plane crash on the northwest end of Runway 1/19 is considered a potential adjacent PFAS source area due to the usage of AFFF to response to crash flames.

These potential adjacent sources are shown on **Figure 7-1**. While PFAS have not been released to the environment at the MEARNG Presque Isle SFRO or the unfinished NMRC, it is possible for PFAS releases at adjacent locations to affect site media at the MEARNG properties.

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
Presque Isle SFRO	MEARNG	The Presque Isle SFRO is a shared office space that has only ever been used for recruiting with regards to the MEARNG. No training or emergencies have taken place at the SFRO.
NMRC Construction Area	MEARNG / Air Force (historically)	The property has never been used by the MEARNG; construction of the NMRC began in 2018. Historically, the property has been used as an agricultural field, residential area, and Air Force barracks

No Suspected Release Area	Used by	Rationale for No Suspected Release Determination
2019 Passenger Plane Crash Location	Presque Isle International Airport	According to fire department personnel on the scene, no AFFF was necessary during emergency response to the crash.

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 MEARNG Presque Isle SFRO and NMRC. Historically, documentation of PFAS use was not required because PFAS were considered benign. Records were not typically kept by the ARNG on the use of PFAS in emergency response or by non-ARNG units during training events at ARNG facilities.

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 or its surrounding areas. Sometimes the provided information was vague. 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 (1969 to present), and a reliance on personal recollection. Inaccuracies may arise in potential PFAS release locations. There is also a possibility the PA has missed a 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 storage of PFAS at adjacent sources were reviewed, multiple persons were interviewed for the same potential source area, and potential source areas were visually inspected. **Table 7-2** summarizes the uncertainties associated with the PA:

Table 7-2: Uncertainties

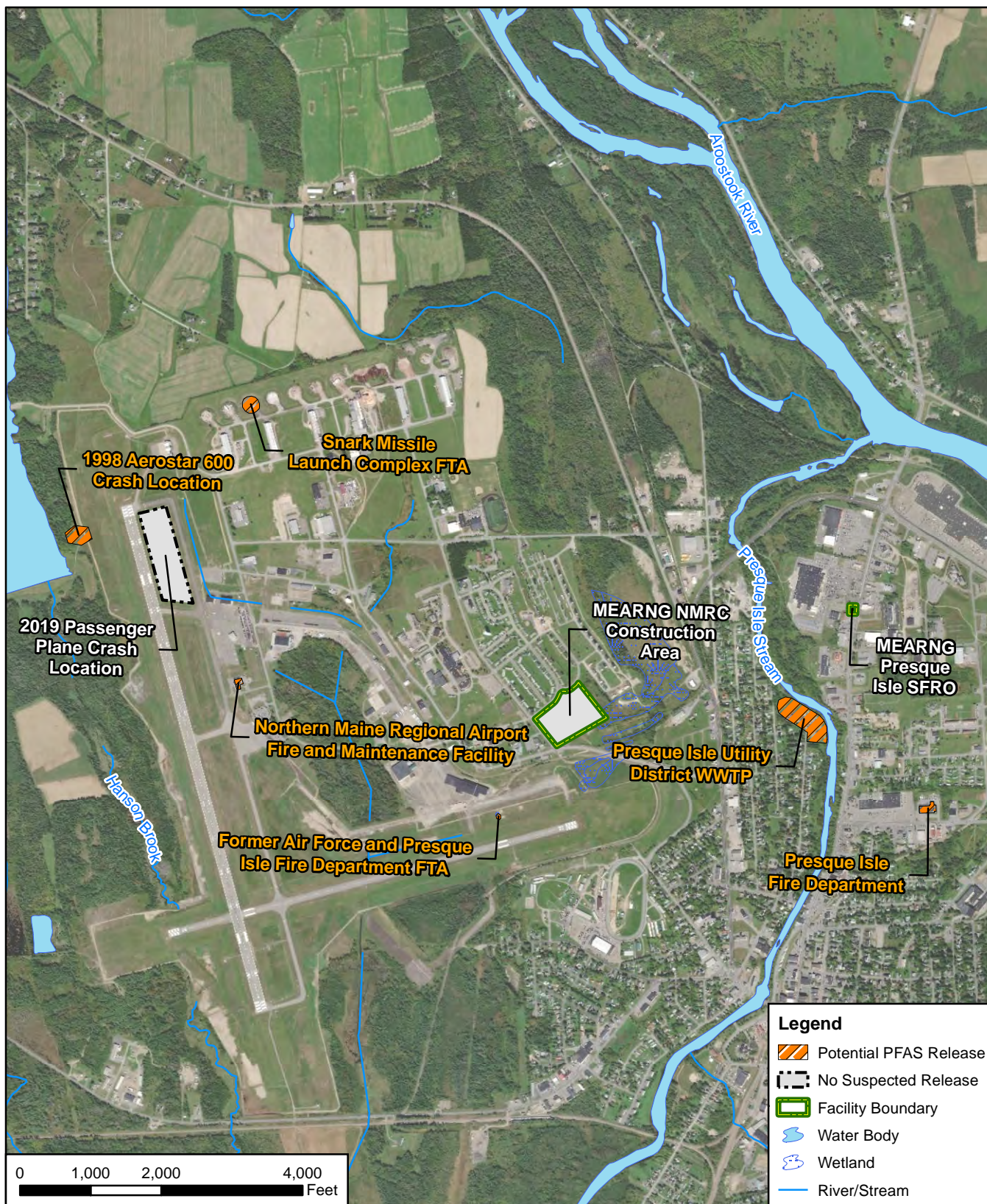
Location	Source of Uncertainty
MEARNG Presque Isle SFRO	The exact timeframe of use of the SFRO by the MEARNG is unknown. It is unknown what tenant previously occupied the office space.
1998 Aerostar 600 Crash Location	The exact location of the crash, and the type, volume, and concentration of AFFF used to extinguish its fire are unknown. The fate of AFFF sprayed in response to the crash is also unknown.
Snark Missile Launch Complex FTA	The type, volume, and concentration of AFFF used during training at the FTA are unknown. It is also unknown whether AFFF used in training is mixed at the FTA or elsewhere prior to use. The routine training practices for the FTA are only known throughout the tenure of the personnel interviewed, which span from 1998 to present.
Former Air Force and Presque Isle Fire Department FTA ("The Pit")	The exact location of this FTA is unclear. Although interviewees stated that the period of use of "The Pit" extended from the 1970s possibly into the 1990s, records are not available to confirm this timeframe. Additionally, the frequency of training events, and type, volume, and concentration of AFFF used during training at the FTA are unknown. It is also unknown whether AFFF used in training is mixed at the FTA or elsewhere prior to use. The routine training practices for the FTA are only known throughout the tenure of the personnel interviewed, which span from 1998 to present.

Location	Source of Uncertainty
Northern Maine Regional Airport Fire and Maintenance Facility	The timeframe when this facility began being used as a fire station is unknown. The routine training and maintenance practices for the facility are only known throughout the tenure of the personnel interviewed, which span from 1998 to present.
Presque Isle Fire Department	The timeframe when this facility began being used as a fire station is unknown. The routine training and maintenance practices for the facility are only known throughout the tenure of the personnel interviewed, which span from 1998 to present.
Presque Isle International Airport	Crash locations not listed by the MEARNG in provided data, nor known by personnel interviewed are unknown.
PIUD WWTP	It is unknown exactly where treated wastewater is discharged.
Presque Isle Landfill	It is unknown whether PFAS-laden materials have been disposed of at this landfill.

7.3 Potential Future Action

Interviews (with personnel whose tenure span 1998 to present) and records indicate that current or former ARNG activities have not resulted in PFAS releases at the MEARNG Presque Isle SFRO or the unfinished NMRC. Based on the absence of the use or release of PFAS-containing materials at the subject properties, no AOIs were identified during the PA.

The Presque Isle SFRO and NMRC will not move forward in the CERCLA process.



CLIENT		ARNG			
NOTES		Preliminary Assessment for PFAS at Presque Isle, ME			
REVISED	11/8/2019	GIS BY	MS	11/8/2019	
SCALE	1:24,000	CHK BY	JW	11/8/2019	
Base Map: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI,		PM	RG	11/8/2019	



Summary of Findings

AECOM

12420 Milestone Center Drive
Germantown, MD 20876

Figure 7-1

8. References

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Appendix A

Data Resources

Data Resources will be provided separately on CD. Data Resources for Fort Pickett includes:

Presque Isle EDR Report

- 2019 Presque Isle EDR Report 5715041.2s

Facility Background Information Sources

- 2015 Phase I Environmental Site Assessment, Maine Army National Guard, Lot #2 Skyway Industrial Park, Presque Isle, Maine
- 2016 Maine Army National Guard Northern Maine Readiness Center Topo Map, Presque Isle
- 2016 Municipal Quitclaim Deed for the Northern Maine Readiness Center
- 2019 Presque Isle Industrial Council Air Museum Pamphlet
- 2019 WBRC Architects/Engineers Northern Maine Readiness Center, Presque Isle, Maine Webpage
- 2019 MEARNNG Pre-Interview Form

Environmental Background Information Sources

- 1987 Maine Geological Survey Geologic Map of the Caribou and Northern Presque Isle 15 Minute Quadrangles, Maine
- 1989 Hydrogeology and Water Quality of Significant Sand and Gravel Aquifers in Parts of Aroostook County, Maine
- 2002 Maine Geological Survey Significant Sand and Gravel Aquifers Map

Historical Crash Information

- 1998 Bangor Daily News Article: New Facts Released in Presque Isle Plane Crash by Beurmond Banville
- 2018 NTSB Database N7527S Accident Description Webpage
- 2018 Historical Maine Army National Guard Plane Crash Data
- 2019 Bangor Daily News Article: Investigators Say Plane Missed the Runway at Presque Isle Airport

Wastewater Treatment Plant Information

- 2019 The County Article: Chemical Testing Ties Up Presque Isle Utility Wastewater by Anthony Brino

Appendix B

Preliminary Assessment Documentation

Appendix B.1

Interview Records

PA Interview Questionnaire - Other

Facility: Presque Isle
 Interviewer: _____
 Date/Time: 7/1/2019 12:45

Interviewee: <u>Grant Spinney</u> Title: <u>Fire Prevention Officer / PI FD</u> Phone Number: <u>20551-3837</u> Email: <u>spinneygrant@gmail.com</u>	Can your name/role be used in the PA Report? <input checked="" type="checkbox"/> Y or N Can you recommend anyone we can interview? <input checked="" type="checkbox"/> Y or N <u>Darren Woods, EMA</u>
Roles or activities with the Facility/Years working at the Facility:	
1998-Present	
Fire Prevention Officer - Presque Isle Fire Department	
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 builds), fueling stations, crash sites, pest management, recreational, dining facilities, metals plating, or waterproofing). How are materials ordered/purchased/disposed/shared with others?	
• The pit = formerly off runway 10-28 (east-west) ↳ Air force used to fill pit w/ jet fuel, ignite it, spray with foam. AF & city FD. Once per year.	Known Uses
	Use
	Procurement
	Disposition
• One FD station, airport FD is "Station 2". ↳ 1 crash truck, 1 backup skid-unit	Storage (Mixed)
	Storage (Solution)
• Over the last 1.5 years, 3 crashes but no fire ↳ truck brought out to respond but no AFFF sprayed, just water	Inventory, Off-Spec
	Containment
- 1 crash in fall 2018, Jan/Feb 2019, 1 in last 6 months	SOP on Filling
• 1998 crash before Spinney started, June ↳ Cessna mail plane crashed on north end of runway ↳ 1 person (pilot), west side of runway 1, used purple K & AFFF to extinguish flames	Leaking Vehicles
	Nozzle and Suppression System Testing
	Dining Facilities
	Vehicle Washing
• 1999/2000 plane drove off runway but no fire	Ramp Washing
• No AFFF use in town	Fuel Spill Washing and Fueling Stations
• PI FD has 4 AFFF capable vehicles	Chrome Plating or Waterproofing

PA Interview Questionnaire - Other

Facility: _____
Interviewer: _____
Date/Time: _____

- No known expiration date for AFFF FD uses
- No known spills or leaks or maintenance issues involving AFFF
- Never had to dispose of any AFFF
- 1 fire truck kept at FD downtown has had maintenance issue
- Every guideline followed by PI FD is administered by FAA
- ~~FD also has an~~ County FD also has an ethanol/alcohol based foam
- PI FD hosts joint training every 3 year with mutual aid town FDs
Ft Fairfield, Easton, ~~Marshall~~ Marshall, Caribou, Washburn

- Joint training location depends on training exercise. Sometimes use the fuselage FTA. Spray w/ just water.
- Aircraft Trusses (?) / trusts (?) next to fuselage FTA want to buy the FTA land. Likely to purchase the land in the next year or so.
- "Maybe a few" incidents between 1970 - 1998

* Since 1994, no more ARFF in FD, so AFFF is unknown

Darren Woods (EMA)

Appendix B.2

Visual Site Inspection Checklists

Visual Site Inspection Checklist

Names(s) of people performing VSI: J. Witte, M. Leeper, T. Peck, E. Barton

Recorded by: J. Witte

ARNG Contact: M. Leeper

Date and Time: July 1, 2019; 12:30pm

Method of visit (walking, driving, adjacent): Walking

Source/Release Information

Site Name / Area Name / Unique ID:

Northern Maine Regional Airport Fire and Maintenance Facility

Site / Area Acreage:

Approximately 1.5 acre

Historic Site Use (Brief Description):

Same as current

Current Site Use (Brief Description):

Airport arm of the Presque Isle Fire Department

Physical barriers or access restrictions:

None

1. Was PFAS used (or spilled) at the site/area?

Y / N

1a. If yes, document how PFAS was used and usage time (e.g., fire fighting training 2001 to 2014):

No, but AFFF is stored at the facility

2. Has usage been documented?

Y / N

2a. If yes, keep a record (place electronic files on a disk):

No

3. What types of businesses are located near the site?

Industrial / Commercial / Plating / Waterproofing / Residential

3a. Indicate what businesses are located near the site

Presque Isle International Airport; Aroostook Trusses, Inc.; UPS Customer Center; Bonville Boys Truck and Auto Repair; Presque Isle Middle School; Skyway Middle School; Northern Maine Community College; Central Aroostook Humane Society

4. Is this site located at an airport/flightline?

Y / N

4a. If yes, provide a description of the airport/flightline tenants:

Yes, the FTA is located on the Presque Isle airport runway

Visual Survey Inspection Log

Other Significant Site Features:

1. Does the facility have a fire suppression system?

Y / N

1a. If yes, indicate which type of AFFF has been used:

No

1b. If yes, describe maintenance schedule/leaks:

NA

1c. If yes, how often is the AFFF replaced:

NA

1d. If yes, does the facility have floor drains and where do they lead? Can we obtain an as built drawing?

Floor drains connect to city sanitary sewers

Transport / Pathway Information

Migration Potential:

1. Does site/area drainage flow off installation?

Y / N

1a. If so, note observation and location:

This is an adjacent source. Drainage does not flow on or off this facility to the ARNG property.

2. Is there channelized flow within the site/area?

Y / N

2a. If so, please note observation and location:

No

3. Are monitoring or drinking water wells located near the site?

Y / N

3a. If so, please note the location:

Several wells are located ~0.65 and 1.3 miles east

4. Are surface water intakes located near the site?

Y / N

4a. If so, please note the location:

Hanson Lake located ~0.5 miles northwest; Aroostook River located ~1.8 miles east; unnamed tributaries located ~0.15 miles east including a forested wetland

5. Can wind dispersion information be obtained?

Y / N

5a. If so, please note and observe the location.

No

6. Does an adjacent non-ARNG PFAS source exist?

Y / N

6a. If so, please note the source and location.

This is an adjacent source

6b. Will off-site reconnaissance be conducted?

Y / N

No further reconnaissance

Visual Survey Inspection Log

Significant Topographical Features:

1. Has the infrastructure changed at the site/area?

Y / N

1a. If so, please describe change (ex. Structures no longer exist):

No

2. Is the site/area vegetated?

Y / N

2a. If not vegetated, briefly describe the site/area composition:

Grassy fields intermittently surround the paved streets and runway around the fire station

3. Does the site or area exhibit evidence of erosion?

Y / N

3a. If yes, describe the location and extent of the erosion:

No evidence of erosion

4. Does the site/area exhibit any areas of ponding or standing water?

Y / N

4a. If yes, describe the location and extent of the ponding:

No standing water but a wetland exists within 0.15 miles east

Receptor Information

1. Is access to the site restricted?

Y / N

1a. If so, please note to what extent:

No

2. Who can access the site?

**Site Workers / Construction Workers / Trespassers / Residential / Recreational
Users / Ecological**

2a. Circle all that apply, note any not covered above:

All of the above

3. Are residential areas located near the site?

Y / N

3a. If so, please note the location/distance:

Yes, approximately 0.6 miles southeast

4. Are any schools/day care centers located near the site?

Y / N

4a. If so, please note the location/distance/type:

Presque Isle Middle School, Skyway Middle School, Northern Maine Community College all within 0.75 miles east

5. Are any wetlands located near the site?

Y / N

5a. If so, please note the location/distance/type:

Hanson Lake located ~0.5 miles northwest; Aroostook River located ~1.8 miles east; unnamed tributaries located ~0.15 miles east

Visual Site Inspection Checklist

Names(s) of people performing VSI: J. Witte, M. Leeper, T. Peck, E. Barton

Recorded by: J. Witte

ARNG Contact: M. Leeper

Date and Time: July 1, 2019; 12:00pm

Method of visit (walking, driving, adjacent): Walking

Source/Release Information

Site Name / Area Name / Unique ID:

Presque Isle Fire Department FTA

Site / Area Acreage:

Approximately 1 acre

Historic Site Use (Brief Description):

Snark Missile Launch Complex

Current Site Use (Brief Description):

Presque Isle Fire Department FTA; Aroostook Trusses, Inc. intends to acquire the land within the next year or so

Physical barriers or access restrictions:

None

1. Was PFAS used (or spilled) at the site/area?

Y / N

1a. If yes, document how PFAS was used and usage time (e.g., fire fighting training 2001 to 2014):

Yes, during FD training. The frequency of use and period of use are unknown

2. Has usage been documented?

Y / N

2a. If yes, keep a record (place electronic files on a disk):

No

3. What types of businesses are located near the site?

Industrial / Commercial / Plating / Waterproofing / Residential

3a. Indicate what businesses are located near the site

Aroostook Trusses, Inc.; Kenney Porter Seed Farms; Columbia Forest Products; UPS Customer Center; Bonville Boys Truck and Auto Repair; Presque Isle Missile School; Skyway Middle School; Northern Maine Community College; Central Aroostook Humane Society

4. Is this site located at an airport/flightline?

Y / N

4a. If yes, provide a description of the airport/flightline tenants:

Yes, the FTA is located adjacent to the Presque Isle airport runway

Visual Survey Inspection Log

Other Significant Site Features:

1. Does the facility have a fire suppression system?

Y / N

1a. If yes, indicate which type of AFFF has been used:

No

1b. If yes, describe maintenance schedule/leaks:

NA

1c. If yes, how often is the AFFF replaced:

NA

1d. If yes, does the facility have floor drains and where do they lead? Can we obtain an as built drawing?

No floor drains

Transport / Pathway Information

Migration Potential:

1. Does site/area drainage flow off installation?

Y / N

1a. If so, note observation and location:

This is an adjacent source. Drainage does not flow on or off this FTA to the ARNG property.

2. Is there channelized flow within the site/area?

Y / N

2a. If so, please note observation and location:

Yes, a drainage culvert circumvents the FTA

3. Are monitoring or drinking water wells located near the site?

Y / N

3a. If so, please note the location:

Several wells are located ~0.65 miles northeast; a well located ~1.1 miles southeast; other wells located at greater distances

4. Are surface water intakes located near the site?

Y / N

4a. If so, please note the location:

Hanson Lake located ~0.6 miles west; Aroostook River located ~1.45 miles east; unnamed tributaries located ~0.3 miles east

5. Can wind dispersion information be obtained?

Y / N

5a. If so, please note and observe the location.

No

6. Does an adjacent non-ARNG PFAS source exist?

Y / N

6a. If so, please note the source and location.

This is an adjacent source

6b. Will off-site reconnaissance be conducted?

Y / N

No further reconnaissance

Visual Survey Inspection Log

Significant Topographical Features:

1. Has the infrastructure changed at the site/area?

Y / N

1a. If so, please describe change (ex. Structures no longer exist):

No

2. Is the site/area vegetated?

Y / N

2a. If not vegetated, briefly describe the site/area composition:

Grassy fields surround the FTA outside of its paved surface

3. Does the site or area exhibit evidence of erosion?

Y / N

3a. If yes, describe the location and extent of the erosion:

No evidence of erosion

4. Does the site/area exhibit any areas of ponding or standing water?

Y / N

4a. If yes, describe the location and extent of the ponding:

No standing water, but a drainage culvert fills with water during rainstorms

Receptor Information

1. Is access to the site restricted?

Y / N

1a. If so, please note to what extent:

No

2. Who can access the site?

**Site Workers / Construction Workers / Trespassers / Residential / Recreational
Users / Ecological**

2a. Circle all that apply, note any not covered above:

All of the above

3. Are residential areas located near the site?

Y / N

3a. If so, please note the location/distance:

Yes, approximately 0.8 miles southeast

4. Are any schools/day care centers located near the site?

Y / N

4a. If so, please note the location/distance/type:

Presque Isle Middle School, Skyway Middle School, Northern Maine Community College all within 0.5 miles southeast

5. Are any wetlands located near the site?

Y / N

5a. If so, please note the location/distance/type:

Hanson Lake located ~0.6 miles west; Aroostook River located ~1.45 miles east; unnamed tributaries located ~0.3 miles east

Visual Site Inspection Checklist

Names(s) of people performing VSI: J. Witte, M. Leeper, T. Peck, E. Barton

Recorded by: J. Witte

ARNG Contact: M. Leeper

Date and Time: July 1, 2019; 1:30pm

Method of visit (walking, driving, adjacent): Driving

Source/Release Information

Site Name / Area Name / Unique ID: Northern Maine Readiness Center Construction Area

Site / Area Acreage: Approximately 11.5 acre

Historic Site Use (Brief Description): Residential / Open Field

Current Site Use (Brief Description): Construction zone for the future Northern Maine Readiness Center

Physical barriers or access restrictions: None / work zone perimeter fence

1. Was PFAS used (or spilled) at the site/area?

Y / N

1a. If yes, document how PFAS was used and usage time (e.g., fire fighting training 2001 to 2014):

No historic use by VAARNG; no historic AFFF use or storage

2. Has usage been documented?

Y / N

2a. If yes, keep a record (place electronic files on a disk):

NA

3. What types of businesses are located near the site? **Industrial / Commercial / Plating / Waterproofing / Residential**

3a. Indicate what businesses are located near the site

Presque Isle International Airport; Mainely Mexica; Aroostook Technologies, Inc.; AMHC; Spudnik Equipment; ACE Rent-a-car; Hair & Beyond; Lockwood Manufacturing; New Ventures Maine

4. Is this site located at an airport/flightline?

Y / N

4a. If yes, provide a description of the airport/flightline tenants:

Yes, the construction zone is located adjacent to the Presque Isle airport runway

Visual Survey Inspection Log

Other Significant Site Features:

1. Does the facility have a fire suppression system?

Y / N

1a. If yes, indicate which type of AFFF has been used:

NA

1b. If yes, describe maintenance schedule/leaks:

NA

1c. If yes, how often is the AFFF replaced:

NA

1d. If yes, does the facility have floor drains and where do they lead? Can we obtain an as built drawing?

No constructed structure - no floor drains

Transport / Pathway Information

Migration Potential:

1. Does site/area drainage flow off installation?

Y / N

1a. If so, note observation and location:

Drainage from the future Readiness Center will flow southeast towards pond/runway

2. Is there channelized flow within the site/area?

Y / N

2a. If so, please note observation and location:

No

3. Are monitoring or drinking water wells located near the site?

Y / N

3a. If so, please note the location:

One well located 0.1 mile east of the future Readiness Center location

4. Are surface water intakes located near the site?

Y / N

4a. If so, please note the location:

Retention pond located less than 0.1 miles southeast; Presque Isle Stream located approximately 0.5 miles east, wetlands less than 0.1 miles to the east

5. Can wind dispersion information be obtained?

Y / N

5a. If so, please note and observe the location.

No

6. Does an adjacent non-ARNG PFAS source exist?

Y / N

6a. If so, please note the source and location.

Yes, a former Air Force and Presque Isle FD FTA existed approximately 0.1 miles southwest

6b. Will off-site reconnaissance be conducted?

Y / N

No further reconnaissance

Visual Survey Inspection Log

Significant Topographical Features:

1. Has the infrastructure changed at the site/area?

Y / N

1a. If so, please describe change (ex. Structures no longer exist):

Yes, the site is an active construction zone

2. Is the site/area vegetated?

Y / N

2a. If not vegetated, briefly describe the site/area composition:

Grassy fields intermittently surround the paved streets around the Readiness Center

3. Does the site or area exhibit evidence of erosion?

Y / N

3a. If yes, describe the location and extent of the erosion:

No evidence of erosion

4. Does the site/area exhibit any areas of ponding or standing water?

Y / N

4a. If yes, describe the location and extent of the ponding:

No standing water but a retention pond is adjacent to the southeast

Receptor Information

1. Is access to the site restricted?

Y / N

1a. If so, please note to what extent:

No

2. Who can access the site?

**Site Workers / Construction Workers / Trespassers / Residential / Recreational
Users / Ecological**

2a. Circle all that apply, note any not covered above:

All of the above

3. Are residential areas located near the site?

Y / N

3a. If so, please note the location/distance:

Yes, adjacent to the north

4. Are any schools/day care centers located near the site?

Y / N

4a. If so, please note the location/distance/type:

Presque Isle Middle School, Skyway Middle School, Northern Maine Community College all within 0.6 miles north

5. Are any wetlands located near the site?

Y / N

5a. If so, please note the location/distance/type:

Retention pond located less than 0.1 miles southeast; Presque Isle Stream located approximately 0.5 miles east, wetlands less than 0.1 miles to the east

Visual Site Inspection Checklist

Names(s) of people performing VSI: J. Witte

Recorded by: J. Witte

ARNG Contact: M. Leeper

Date and Time: July 1, 2019; 4:30pm

Method of visit (walking, driving, adjacent): Driving

Source/Release Information

Site Name / Area Name / Unique ID:

MEARNG Recruiting Office

Site / Area Acreage:

Approximately 0.1 acre

Historic Site Use (Brief Description):

Unknown

Current Site Use (Brief Description):

MEARNG Recruiting Center

Physical barriers or access restrictions:

None

1. Was PFAS used (or spilled) at the site/area?

Y / N

1a. If yes, document how PFAS was used and usage time (e.g., fire fighting training 2001 to 2014):

No historic AFFF storage or use

2. Has usage been documented?

Y / N

2a. If yes, keep a record (place electronic files on a disk):

NA

3. What types of businesses are located near the site?

Industrial / Commercial / Plating / Waterproofing / Residential

3a. Indicate what businesses are located near the site

Tim Hortons; Key Bank; Hampton Inn Presque Isle; Northern Athletic Supply; The County Federal Credit Union; Bread of Life Bulk Foods; H&R Block; Walmart

4. Is this site located at an airport/flightline?

Y / N

4a. If yes, provide a description of the airport/flightline tenants:

No, it is located on Main St in Presque Isle

Visual Survey Inspection Log

Other Significant Site Features:

1. Does the facility have a fire suppression system?

Y / N

1a. If yes, indicate which type of AFFF has been used:

Unknown

1b. If yes, describe maintenance schedule/leaks:

NA

1c. If yes, how often is the AFFF replaced:

NA

1d. If yes, does the facility have floor drains and where do they lead? Can we obtain an as built drawing?

Unknown

Transport / Pathway Information

Migration Potential:

1. Does site/area drainage flow off installation?

Y / N

1a. If so, note observation and location:

Drains to parking lot surrounding recruiting office

2. Is there channelized flow within the site/area?

Y / N

2a. If so, please note observation and location:

Channelized flow may exist along Main St

3. Are monitoring or drinking water wells located near the site?

Y / N

3a. If so, please note the location:

Several wells located 0.6 miles northeast; one well located 0.35 miles southeast

4. Are surface water intakes located near the site?

Y / N

4a. If so, please note the location:

Presque Isle Stream and forested wetland located approximately 0.25 miles west

5. Can wind dispersion information be obtained?

Y / N

5a. If so, please note and observe the location.

No

6. Does an adjacent non-ARNG PFAS source exist?

Y / N

6a. If so, please note the source and location.

No

6b. Will off-site reconnaissance be conducted?

Y / N

No further reconnaissance

Visual Survey Inspection Log

Significant Topographical Features:

1. Has the infrastructure changed at the site/area?

Y / N

1a. If so, please describe change (ex. Structures no longer exist):

No

2. Is the site/area vegetated?

Y / N

2a. If not vegetated, briefly describe the site/area composition:

No, its completely paved

3. Does the site or area exhibit evidence of erosion?

Y / N

3a. If yes, describe the location and extent of the erosion:

No evidence of erosion

4. Does the site/area exhibit any areas of ponding or standing water?

Y / N

4a. If yes, describe the location and extent of the ponding:

No standing water but a retention pond is adjacent to the southeast

Receptor Information

1. Is access to the site restricted?

Y / N

1a. If so, please note to what extent:

No

2. Who can access the site?

**Site Workers / Construction Workers / Trespassers / Residential / Recreational
Users / Ecological**

2a. Circle all that apply, note any not covered above:

All of the above

3. Are residential areas located near the site?

Y / N

3a. If so, please note the location/distance:

No

4. Are any schools/day care centers located near the site?

Y / N

4a. If so, please note the location/distance/type:

Presque Isle Middle School, Skyway Middle School, Northern Maine Community
College all within 1.1 miles northwest

5. Are any wetlands located near the site?

Y / N

5a. If so, please note the location/distance/type:

Presque Isle Stream and forested wetland located approximately 0.25 miles west

Appendix B.3

Conceptual Site Model Information

Preliminary Assessment – Conceptual Site Model Information

Site Name: Presque Isle SRFO

Why has this location been identified as a site?

AFFF was speculated to have been used or stored at the facility. The facility is located adjacent to an airfield.

Are there any other activities nearby that could also impact this location?

Yes, Air Force and city Fire Departments have facilities (including training areas) within the vicinity. The facility is also located adjacent to an airfield.

Training Events

Have any training events with AFFF occurred at this site? No

If so, how often? NA

How much material was used? Is it documented? NA

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: *All information below is based on the final Readiness Center, which is currently under construction.

Surface water flow direction? From future Readiness Center - southeast

Average rainfall? 35.80

Any flooding during rainy season? No

Direct or indirect pathway to ditches? Direct

Direct or indirect pathway to larger bodies of water? Direct

Does surface water pond any place on site? Yes, southeast of the construction zone

Any impoundment areas or retention ponds? See answer above

Any NPDES location points near the site? Unknown

How does surface water drain on and around the flight line? East and west off the flightline at the adjacent Presque Isle Airport

Preliminary Assessment – Conceptual Site Model Information

Groundwater:

Groundwater flow direction? Unknown

Depth to groundwater? Unknown

Uses (agricultural, drinking water, irrigation)? Unknown

Any groundwater treatment systems? No

Any groundwater monitoring well locations near the site? Yes, wells exist within 1 mile in several directions

Is groundwater used for drinking water? No

Are there drinking water supply wells on installation? No

Do they serve off-post populations? NA

Are there off-post drinking water wells downgradient There are wells; uses unknown

Waste Water Treatment Plant:

Has the installation ever had a WWTP, past or present? No

If so, do we understand the process and which water is/was treated at the plant? NA

Do we understand the fate of sludge waste? NA

Is surface water from potential contaminated sites treated? NA

Equipment Rinse Water

1. Is firefighting equipment washed? Where does the rinse water go?

No firefighting equipment kept by MEARNG at Presque Isle

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?

NA

3. Other?

Preliminary Assessment – Conceptual Site Model Information

Identify Potential Receptors:

Site Worker No MEARNG Presque Isle releases

Construction Worker No MEARNG Presque Isle releases

Recreational User No MEARNG Presque Isle releases

Residential No MEARNG Presque Isle releases

Child No MEARNG Presque Isle releases

Ecological No MEARNG Presque Isle releases

Note what is located near by the site (e.g. daycare, schools, hospitals, churches, agricultural, livestock)?

Middle schools, agricultural field, retail, airport

Documentation

Ask for Engineering drawings (if applicable).


Has there been a reconstruction or changes to the drainage system? When did that occur?

Yes, the Readiness Center is currently under construction. Until now, the property has always been an open field or had residential properties abutting it



Appendix C

Photographic Log

Appendix C - Photographic Log

Army National Guard, Preliminary Assessment for PFAS		Presque Isle SFRO	Aroostook County, Maine
Photograph No. 1 Date 7/1/2019 Time 12:50 Description: Chemguard 3% AFFF stored at the Northern Maine Regional Airport Fire Rescue and Maintenance Facility			
Orientation: NA			
Photograph No. 2 Date 7/1/2019 Time 12:30 Description: AFFF stored at the Northern Maine Regional Airport Fire Rescue and Maintenance Facility			
Orientation: NA			

Appendix C - Photographic Log

Army National Guard, Preliminary Assessment for PFAS		Presque Isle SFRO	Aroostook County, Maine
Photograph No. 3			
Date 7/1/2019 Time 12:15			
Description: Fire training area northeast of Presque Isle International Airport runway used by the Presque Isle Fire Department			
Orientation: Northeast			
Photograph No. 4			
Date 7/1/2019 Time 12:40			
Description: Presque Isle Fire Department crash rescue truck CR-1, containing AFFF, stored at the Northern Maine Regional Airport Fire Rescue and Maintenance Facility			
Orientation: NA			

Appendix C - Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Presque Isle SFRO	Aroostook County, Maine
<p>Photograph No. 5</p> <p>Date 7/1/2019 Time 12:45</p> <p>Description: Chemguard 3% AFFF stored by the Presque Isle Fire Department at the Northern Maine Regional Airport Fire Rescue and Maintenance Facility</p> <p>Orientation: NA</p>	