

FINDING OF NO SIGNIFICANT IMPACT FOR FUEL BOWSER CONTAINMENT

AGENCY: Department of the Air Force

PROPOSED ACTION: Under this alternative, Grand Forks AFB would construct a new bowser open storage area along B Street and near the southern part of the C-Ramp, west of B Street and across from Building 650. The storage area pavements will be able to accommodate 15 bowzers. Pavements will be above surrounding surface grade. Space in the pavements for static grounding receptacle and grounding rod for each bowser spot must be allotted. Install a grounding system consisting of a grounding static receptacle and grounding rod for each bowser parking space, a total of 15 spaces. The grounding system will also include counterpoise (grounding subsystem) consisting of one closed loop. The bowser placements will be configured to allow transportation vehicles to maneuver bowzers in and out of the storage area. Secondary containment must be provided. The storage yard must be designed in such a manner as to contain not less than the contents of the largest bowser with 4"- 6" of freeboard to allow for precipitation and wind. This can either be a drive-over berm, or a sunken pit, or combination thereof. The pad must have sufficient drainage and valving to allow for drainage of contained precipitation to the storm sewer system. The pad must be constructed in such a way as to be impermeable for the design life of the pad. The pad must be able to contain all leaks and releases and drips. All necessary excavation, fill, and utility connections will be accomplished as required.

The second part is to install a 6000 gallon, double walled, underground storage tank (UST) near Bldg 501, with security fencing and lighting. Provide a concrete pad adjacent to the new UST. Provide a leak detection system and automatic tank gauging. The new UST systems will be connected to existing monitoring systems. All necessary excavation, fill, and utility connections will be accomplished as required. The UST piping must be situated and capped to prevent precipitation from entering. The pad must be constructed in such a way as to be impermeable for the design life of the pad. The pad must be able to contain all leaks and releases and drips. There must be sufficient space and accommodations to allow for easy access and pumping of the UST to allow periodic contactor service (pumper truck). Siting must take into consideration the 50,000 gallon UST S01-4 abandoned in place on 22 Dec 94 on the east side of Bldg 501.

ALTERNATIVES CONSIDERED: Alternate Location Alternative: Under the alternative action, construct a bowser storage facility near Three-Bay (Bldg 649) and also install an UST at this location. This would require much of the same work included in the proposed action.

No Action Alternative: Under the no action alternative, the fuel bowzers will continue to be difficult to track and fuel bowzers will continue to be at risk of inadvertently dumping fuel-water mixtures into the storm water system instead of the sanitary sewer. Future unauthorized fuel discharges may violate NPDES permit requirements and EPA regulations.

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14. ABSTRACT This Final EA has been prepared in accordance with the National Environmental Policy Act, and assesses the potential environmental impacts to construct a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowzers on Grand Forks AFB, located in Grand Forks County, North Dakota. Resource areas analyzed in the EA include Air Quality; Noise Wastes, Hazardous Materials, and Stored Fuels; Water Resources Biological Resources; Socioeconomic Resources; Cultural Resources Land Use; Transportation Systems; Airspace/Airfield Operations; Safety and Occupational Health; Environmental Management; and Environmental Justice. In addition to the Proposed Action, the Alternative Action, and the No Action Alternative were analyzed in the EA. The EA also addresses the potential cumulative effects of the associated construction activities along with other concurrent actions at Grand Forks AFB and the surrounding area.					
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ENVIRONMENTAL CONSEQUENCES:

Air Quality - Air Quality is considered good and the area is in attainment for all criteria pollutants. Fugitive emissions from construction activities are expected to be below the regulatory threshold and would be managed in accordance with NDAC 33-15-17-03. Best management practices (BMPs) would be implemented to reduce the amount of these emissions.

Noise - Short-term operation of heavy equipment in the construction area would generate additional noise. The increase in noise from construction activities would be negligible.

Wastes, Hazardous Materials, and Stored Fuels - The increase in hazardous and solid wastes from construction related activities would be minimal and temporary. Construction debris would be disposed of in approved location, such as the Grand Forks Municipal Landfill.

Water Resources – Provided BMPs are followed, there would be minimal impacts on ground water, surface water, wetlands, and water quality. The proposed action would have no impact on waste water.

Biological Resources – BMPs and control measures, including silt fences and covering of stockpiles, would be implemented to ensure that impacts to biological resources be kept to a minimum. BMPs would be required to prevent the spread of noxious weeds, minimize soil erosion, and promote the establishment of native plant species.

Socioeconomic Resources - This action would have a minor positive effect on the local economy. Secondary retail purchases would make an additional contribution to the local communities. The implementation of the proposed action, therefore, would provide a short-term, beneficial impact to local contractors and retailers during the construction phase of the project.

Cultural Resources - The proposed action has little potential to impact cultural resources. In the unlikely event any such artifacts were discovered during the construction activities, the contractor would be instructed to halt construction and immediately notify Grand Forks AFB civil engineers who would notify the State Historic Preservation Officer.

Land Use – The proposed action would not impact land use.

Transportation Systems – The proposed action would have minimal adverse impact to transportation systems on base due to vehicles traveling to and from the construction site.

Airspace/Airfield Operations - The proposed action would not impact aircraft safety or airspace compatibility.

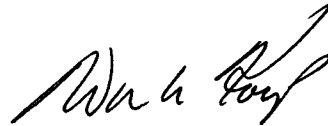
Safety and Occupational Health – The proposed impact would not impact safety and occupational health.

Environmental Management – The proposed action would not impact IRP Sites. BMPs would be implemented to prevent erosion. No pesticides would be used as part of this project.

Environmental Justice - EO 12898 requires federal agencies to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority and low-income populations. There are no minority or low-income populations in the area of the proposed action or alternatives, and, thus, there would be no disproportionately high or adverse impact on such populations.

No adverse environmental impact to any of the areas identified by the AF Form 813 is expected by the proposed action, Construct a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers on Grand Forks AFB.

CONCLUSION: Based on the Environmental Assessment performed for Construct a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers on Grand Forks AFB, no significant environmental impact is anticipated from the proposed action. Based upon this finding, an Environmental Impact Statement is not required for this action. This document and the supporting AF Form 813 fulfill the requirements of the National Environmental Policy Act (NEPA), the Council of Environmental Quality (CEQ) regulations implementing NEPA, and Air Force Instruction 32-7061, which implements the CEQ regulations.



WAYNE A. KOOP, R.E.M., GM-13
Environmental Management Flight Chief

Date: 14 Oct 2004

Final

Environmental Assessment

**CONSTRUCT FUEL BOWSER STORAGE AREA
Install Underground Storage Tank, Security Fencing, Lighting
Construct Bowser Open Storage Pavement**

**At
Grand Forks AFB, North Dakota**

Oct 04

Cover Sheet

Agency: United States Air Force (USAF)

Action: The action proposes to construct a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers at Grand Forks Air Force Base (AFB), North Dakota.

Contacts: 319 CES/CEVA
525 Tuskegee Airmen Boulevard (Blvd)
Grand Forks AFB, ND 58205

Designation: Final Environmental Assessment (EA)

Abstract: This Final EA has been prepared in accordance with the National Environmental Policy Act, and assesses the potential environmental impacts to construct a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers on Grand Forks AFB, located in Grand Forks County, North Dakota. Resource areas analyzed in the EA include Air Quality; Noise; Wastes, Hazardous Materials, and Stored Fuels; Water Resources; Biological Resources; Socioeconomic Resources; Cultural Resources; Land Use; Transportation Systems; Airspace/Airfield Operations; Safety and Occupational Health; Environmental Management; and Environmental Justice.

In addition to the Proposed Action, the Alternative Action, and the No Action Alternative were analyzed in the EA. The EA also addresses the potential cumulative effects of the associated construction activities along with other concurrent actions at Grand Forks AFB and the surrounding area.

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ACRONYMS, ABBREVIATIONS, AND TERMS

AAM	Annual Arithmetic Mean
ACM	Asbestos Containing Material
AFB	Air Force Base
AFI	Air Force Instruction
AICUZ	Air Installation Compatible Use Zone
AMC	Air Mobility Command
APZ	Accident Potential Zone
ARPA	Archeological Resource Protection Act
ARW	Air Refueling Wing
Ave	Avenue
BASH	Bird Aircraft Strike Hazard
Blvd	Boulevard
BMP	Best Management Practice
BMX	Bike Motocross
CAA	Clean Air Act
CWA	Clean Water Act
CEQ	Council on Environmental Quality
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CO	Carbon Monoxide
dBa	Decibel
DNL	Day-Night Average A-Weighted Sound Level
EA	Environmental Assessment
EIAP	Environmental Impact Analysis Process
EIS	Environmental Impact Statement
EO	Executive Order
EPCRA	Emergency Planning and Community Right-to-Know Act
ESA	Endangered Species Act
F	Fahrenheit
FEMA	Federal Emergency Management Agency
FONSI	Finding of No Significant Impact
ft	Feet
ft ³ /s	feet cubed per meter
HAP	Hazardous Air Pollutants
hr	Hour
H ₂ S	Hydrogen Sulfide

IRP	Installation Restoration Program
LT	Long-Term
MBTA	Migratory Bird Treaty Act
MFH	Military Family Housing
mph	Miles Per Hour
MSDS	Material Safety Data Sheet
MSL	Mean Sea Level
$\mu\text{g}/\text{m}^3$	Micrograms Per Meter Cubed
NAAQS	National Ambient Air Quality Standards
NAGPRA	Native American Graves Protection and Repatriation Act
ND	North Dakota
NDAAQS	North Dakota National Ambient Air Quality Standards
NDAC	North Dakota Administrative Code
NDDH	North Dakota Department of Health
NDPDES	North Dakota Pollutant Discharge Elimination System
NEPA	National Environmental Policy Act
NESHAP	National Emission Standards for Hazardous Air Pollutants
NHPA	National Historic Preservation Act
NO_x	Nitrogen Oxides
NO_2	Nitrogen Dioxide
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NRHP	National Register of Historic Places
NWR	National Wildlife Refuge
O_3	Ozone
OSHA	Occupational Safety and Health Act
Pb	Lead
PM_{10}	Particulate Matter 10 Microns In Diameter
$\text{PM}_{2.5}$	Particulate Matter 25 Microns In Diameter
POL	Petroleum Oil Lubricant
ppm	Parts Per Million
PSD	Prevention of Significant Deterioration
RACM	Regulated Asbestos Containing Materials
RCRA	Resource Conservation and Recovery Act
RI/FS	Remedial Investigation/Feasibility Study
RV	Recreational Vehicle
SAGE	Strategic Air Ground Equipment
SARA	Superfund Amendments and Reauthorization Act

SO ₂	Sulfur Dioxide
SO _x	Sulfur Dioxide
St	Street
ST	Short-Term
tpy	Tons Per Year
TSCA	Toxic Substance Control Act
TSI	Thermal System Insulation
US	United States
USACE	United States Army Corps of Engineers
USAF	United States Air Force
U.S.C.	United States Code
UST	Underground Storage Tank
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound

EXECUTIVE SUMMARY

The United States Air Force (USAF) proposes to construct a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowzers on Grand Forks Air Force Base (AFB), North Dakota.

Purpose: The purpose for this project is to provide a secure storage area and storage for contaminated bowser fuel until it can be properly treated. Currently, there is no specified storage area or proper disposal facility, making it difficult for AMXS to accurately account for all their bowzers and preventing improper disposal of fuel.

Need for Action: At the 30 Oct 03, 319 MSG/CC chaired, Process Improvement Team (PIT) meeting, it was reported that 17 bowzers are owned by organizations on GFAFB. The 319 LRS/POL owns 6 bowzers (6 - 400 gallon) and 319 MXG owns 11 bowzers (5 - 400 gallon and 6-600 gallon). The POL-owned bowzers are monitored by their location, use and contents. When POL gets a full bowser to be emptied, they pull it to the 605 OWS sanitary sewer site and discharge water until fuel is noticed. Their bowzers contain mostly water from a clarifying tank where fuel-water mixture is allowed to separate and water is pumped off the tank bottom. Separated usable fuel is returned to other storage tanks. The AGE-owned bowzers are not controlled as to their location, use or contents. When AMXS fills a bowser from sumps, equipment filters, etc., they take the bowser to POL to turn in reusable fuel. If uncontaminated (determined by a visual screening), the fuel-water mixture is added to the POL clarifying tank. If rejected, AMXS returns the bowser to the AGE maintenance area and calls CEV to get contract removal of contaminated fuel. CEV arranges contract pickup of the fuel-water mixture at the AGE maintenance area. A contractor's receipt is received by CEV indicating gallons of waste fuel-water collected. The fuel-water and contaminated fuel disposal process lacks proper accountability, controls, facilities, and personnel training. On 19 Sep 03, during a regularly scheduled cleaning of a storm water oil water separator, 800 gallons of fuel was discovered. The excess amount of fuel was due to unauthorized fuel bowser discharges. There is no existing storage area for the fuel bowzers, creating tracking and accountability difficulties. Providing a consolidated and secure storage area will prevent other fuel mishaps from occurring.

Proposed Action: The proposed action is two part. One part is to construct a new bowser open storage area along B Street and near the southern part of the C-Ramp, west of B Street and across from Building 650. The storage area pavements will be able to accommodate 15 bowzers. Pavements will be above surrounding surface grade. Space in the pavements for static grounding receptacle and grounding rod for each bowser spot must be allotted. Install a grounding system consisting of a grounding static receptacle and grounding rod for each bowser parking space, a total of 15 spaces. The grounding system will also include counterpoise (grounding subsystem) consisting of one closed loop. The bowser placements will be configured to allow transportation vehicles to maneuver bowzers in and out of the storage area. Secondary containment must be provided. The storage yard must be designed in such a manner as to contain not less than the contents of the largest bowser with 4"- 6" of freeboard to allow for precipitation and wind. This can either be a drive-over berm, or a sunken pit, or combination thereof. The pad must have sufficient drainage and valving to allow for drainage of contained precipitation to the storm

sewer system. The pad must be constructed in such a way as to be impermeable for the design life of the pad. The pad must be able to contain all leaks and releases and drips. All necessary excavation, fill, and utility connections will be accomplished as required

The second part is to install a 6000 gallon, double walled, underground storage tank (UST) near Bldg 501, with security fencing and lighting. Provide a concrete pad adjacent to the new UST. Provide a leak detection system and automatic tank gauging. The new UST systems will be connected to existing monitoring systems. All necessary excavation, fill, and utility connections will be accomplished as required. The UST piping must be situated and capped to prevent precipitation from entering. The pad must be constructed in such a way as to be impermeable for the design life of the pad. The pad must be able to contain all leaks and releases and drips. There must be sufficient space and accommodations to allow for easy access and pumping of the UST to allow periodic contractor service (pumper truck). Siting must take into consideration the 50,000 gallon UST S01-4 abandoned in place on 22 Dec 94 on the east side of Bldg 501.

Alternate Location Alternative: Under the alternative action, construct a bowser storage facility near Three-Bay (Bldg 649) and also install an UST at this location. This would require much of the same work included in the proposed action.

No Action Alternative: Under the no action alternative, the fuel bowzers will continue to be difficult to track and fuel bowzers will continue to be at risk of inadvertently dumping fuel-water mixtures into the storm water system instead of the sanitary sewer. Future unauthorized fuel discharges may violate NPDES permit requirements and EPA regulations.

Impacts by Resource Area

Air Quality - Air Quality is considered good and the area is in attainment for all criteria pollutants. No significant impacts to air quality would result because of paving and UST installation activities.

Noise - The people constructing the pavement and UST would create additional noise. The increase in noise would be negligible and only occur when the construction was being done.

Wastes, Hazardous Materials, and Stored Fuels - The increase in hazardous and solid wastes from construction related activities would be minimal and temporary. Construction debris would be disposed of in approved location, such as the Grand Forks Municipal Landfill.

Water Resources - Provided best management practices (BMPs) are followed, there would be minimal impacts on ground water, surface water, water quality, and wetlands. The proposed action would have no impact on wastewater.

Biological Resources - BMPs and control measures, including silt fences and covering of stockpiles, would be implemented to ensure that impacts to biological resources be kept to a minimum. BMPs would be required to prevent the spread of noxious weeds, minimize soil erosion, and promote the establishment of native plant species.

Socioeconomic Resources - This action would have a minor positive effect on the local economy. Secondary retail purchases would make an additional contribution to the local communities. The implementation of the proposed action, therefore, would provide a short-term, beneficial impact to local contractors and retailers during the construction phase of the project.

Cultural Resources - The proposed action has little potential to impact cultural resources. In the unlikely event any such artifacts were discovered during the construction activities, the contractor would be instructed to halt construction and immediately notify Grand Forks AFB civil engineers who would notify the State Historic Preservation Officer.

Land Use - The proposed construction would not have an impact on land use.

Transportation Systems – The proposed construction would have minor adverse impact to transportation systems on base due to vehicles traveling to and from the fuel-water recovery tank and bowser storage areas.

Airspace/Airfield Operations - The proposed action would not impact aircraft safety or airspace compatibility.

Safety and Occupational Health – The Grand Forks AFB Bioenvironmental Office has indicated that they will need to evaluate personnel exposure levels to fuel products for individuals working in the area. Bioenvironmental must be notified once the project is completed.

Environmental Management – The proposed action would not impact IRP Sites. BMPs would be implemented to prevent erosion. No pesticides would be used as part of this project.

Environmental Justice - EO 12898 requires federal agencies to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority and low-income populations. There are no minority or low-income populations in the area of the proposed action or alternatives, and, thus, there would be no disproportionately high or adverse impact on such populations.

1.0 PURPOSE OF AND NEED FOR PROPOSED ACTION

This Environmental Assessment (EA) examines the potential for impacts to the environment resulting from proposal to construct a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowzers on Grand Forks Air Force Base (AFB). As required by the National Environmental Policy Act (NEPA) of 1969, federal agencies must consider environmental consequences in their decision making process. The EA provides analysis of the potential environmental impacts from both the proposed action and its alternatives.

1.1 INTRODUCTION

Located in northeastern North Dakota (ND), Grand Forks AFB is the first core refueling wing in Air Mobility Command (AMC) and home to 48 KC-135R Stratotanker aircraft. The host organization at Grand Forks AFB is the 319th Air Refueling Wing (ARW). Its mission is to guarantee global reach, by extending range in the air, supplying people and cargo where and when they are needed and provides air refueling and airlift capability support to United States Air Force (USAF) operations anywhere in the world, at any time. Organizational structure of the 319th ARW consists primarily of an operations group, maintenance group, mission support group, and medical group.

The location of the proposed action (and the alternative actions) would be at Grand Forks AFB, ND. Grand Forks AFB covers approximately 5,420 acres of government-owned land and is located in northeastern ND, about 14 miles west of Grand Forks, along United States (US) Highway 2. Grand Forks (population 49,321) is the third largest city in ND. Appendix A includes a Location Map. The city, and surrounding area, is a regional center for agriculture, education, and government. It is located approximately 160 miles south of Winnipeg, Manitoba, and 315 miles northwest of Minneapolis, Minnesota. The total base population, as of May 2003, is approximately 6,934. Of that, 2,849 are military, 3,747 are military dependents, and 338 civilians working on base (Grand Forks AFB, 2003).

Building 501, the location for the proposed UST, is located west of Eielson Street and south of 1st Avenue in the southern portion of Grand Forks AFB. The proposed bowser open storage area would be west of B Street, across from Building 650, near the southern part of the C-Ramp. Appendix E and F include Location Maps.

1.2 NEED FOR THE ACTION

To provide a secure storage area and place to store contaminated bowser fuel until it can be properly treated. Currently, there is no specified storage area or proper storage facility, making it difficult for AMXS to have an accountability of all their bowzers and preventing improper disposal of fuel.

Seventeen bowzers are owned by organizations on GFAFB. The 319 LRS/POL owns 6 bowzers (6 - 400 gallon) and 319 MXG owns 11 bowzers (5 - 400 gallon and 6-600 gallon). The POL-

owned bowser are monitored by their location, use and contents. When POL gets a full bowser to be emptied, they pull it to the 605 OWS sanitary sewer site and discharge water until fuel is noticed. Their bowser contains mostly water from a clarifying tank where fuel-water mixture is allowed to separate and water is pumped off the tank bottom. Separated usable fuel is returned to other storage tanks. The AGE-owned bowser are not controlled as to their location, use or contents. When AMXS fills a bowser from sumps, equipment filters, etc., they take the bowser to POL to turn in reusable fuel. If uncontaminated (determined by a visual screening), the fuel/water mixture is added to the POL clarifying tank. If rejected, AMXS returns the bowser to the AGE maintenance area and calls CEV to get contract removal of contaminated fuel. CEV arranges contract pickup of fuel/water mix at the AGE maintenance area. A contractor's receipt is received by CEV indicating gallons of waste fuel/water collected. The fuel/water and contaminated fuel disposal process lacks proper accountability, controls, facilities, and personnel training. On 19 Sep 03, during a regularly scheduled cleaning of a storm water oil water separator, 800 gallons of fuel was discovered. The excess amount of fuel was due to unauthorized fuel bowser discharges. There is no existing storage area for the fuel bowser creating tracking and accountability difficulties.

1.3 OBJECTIVES FOR THE ACTION

The purpose of the proposed action is to provide a consolidated and secure storage area to prevent fuel mishaps from occurring.

1.4 SCOPE OF EA

This EA identifies, describes, and evaluates the potential environmental impacts associated with the proposed action to construct a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowser on Grand Forks AFB. This analysis covers only those items listed above. It does not include any previous construction of facilities, parking lots, associated water drainage structures, or other non-related construction activities.

The following must be considered under the NEPA, Section 102(E).

- Air Quality
- Noise
- Wastes, Hazardous Materials, and Stored Fuels
- Water Resources
- Biological Resources
- Socioeconomic Resources
- Cultural Resources
- Land Use
- Transportation Systems
- Airspace/Airfield Operations
- Safety and Occupation Health
- Environmental Management

- Environmental Justice

1.5 DECISION(S) THAT MUST BE MADE

This EA evaluates the environmental consequences from construction of a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers on Grand Forks AFB. NEPA requires that environmental impacts be considered prior to final decision on a proposed project. The Environmental Management Flight Chief will determine if a Finding of Significant Impact can be signed or if an Environmental Impact Statement (EIS) must be prepared. Preparation of an environmental analysis must be accomplished prior to a final decision regarding the proposed project and must be available to inform decision makers of potential environmental impacts of selecting the proposed action of either of the alternatives.

1.6 APPLICABLE REGULATORY REQUIREMENTS AND REQUIRED COORDINATION

These regulations require federal agencies to analyze potential environmental impacts of proposed actions and alternatives and to use these analyses in making decisions on a proposed action. All cumulative effects and irremediable commitment of resources must also be assessed during this process. The Council on Environmental Quality (CEQ) regulations declares that an EA is required to accomplish the following objectives:

- Briefly provide sufficient evidence and analysis for determining whether to prepare an EIS or a Finding of No Significant Impact (FONSI).
- Aid in an agency's compliance with NEPA when an EIS is not necessary, and facilitate preparation of an EIS when necessary.

Air Force Instruction (AFI) 32-7061 as promulgated in 32 Code of Federal Regulations (CFR) 989, specifies the procedural requirements for the implementation of NEPA and the preparation of an EA. Other environmental regulatory requirements relevant to the proposed action and alternatives are also in this EA. Regulatory requirements including, but not restricted to the following programs will be assessed:

- AF Environmental Impact Analysis Process (EIAP) (32 CFR 989)
- AFI 32-7020, Environmental Restoration Program
- AFI 32-7040, Air Quality Compliance
- AFI 32-7041, Water Quality Compliance
- AFI 32-7042, Solid and Hazardous Waste Compliance
- AFI 32-7063, Air Installation Compatible Use Zone (AICUZ) Program
- AFI 32-7064, Integrated Natural Resource Management
- Archaeological Resources Protection Act (ARPA) [16 U.S.C. Sec 470a-11, *et seq.*, as amended]
- Clean Air Act (CAA) [42 U.S.C. Sec 7401, *et seq.*, as amended]
- Clean Water Act (CWA) [33 U.S.C. Sec 400, *et seq.*]

- CWA [33 U.S.C. Sec 1251, *et seq.*, as amended]
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended by the Superfund Amendments and Reauthorization Act (SARA) [42 U.S.C. Sec. 9601, *et seq.*]
- Defense Environmental Restoration Program [10 U.S.C. Sec. 2701, *et seq.*]
- Emergency Planning and Community Right-to-Know Act (EPCRA) of 1986 [42 U.S.C. Sec. 11001, *et seq.*]
- Endangered Species Act (ESA) [16 U.S.C. Sec 1531-1543, *et seq.*]
- Executive Order (EO) 11514, Protection and Enhancement of Environmental Quality as Amended by EO 11991
- EO 11988, Floodplain Management
- EO 11990, Protection of Wetlands
- EO 12372, Intergovernmental Review of Federal Programs
- EO 12898, Environmental Justice
- EO 12989 Federal Actions to Address Environmental Justice in Minority Populations and Low-income Populations
- EO 13045, Protection of Children from Environmental Health Risks and Safety Risks
- Hazardous Materials Transportation Act of 1975 [49 U.S.C. Sec 1761, *et seq.*]
- NEPA of 1969 [42 U.S.C. Sec 4321, *et seq.*]
- National Historic Preservation Act (NHPA) of 1966 [16 U.S.C. Sec 470, *et seq.*, as amended]
- The Native American Graves Protection and Repatriation Act (NAGPRA) of 1990 [Public Law 101-601, 25 U.S.C. Sec. 3001-3013, *et seq.*]
- Noise Control Act of 1972 [42 U.S.C. Sec. 4901, *et seq.*, Public Law 92-574]
- ND Air Pollution Control Act (Title 23) and Regulations
- ND Air Quality Standards (Title 33)
- ND Hazardous Air Pollutants Emission Standards (Title 33)
- Occupational Safety and Health Act (OSHA) of 1970 [29 U.S.C. Sec. 651, *et seq.*]
- Resource Conservation and Recovery Act (RCRA) of 1976 [42 U.S.C. Sec. 6901, *et seq.*]
- Toxic Substances Control Act (TSCA) of 1976 [15 U.S.C. Sec. 2601, *et seq.*]

Grand Forks AFB has a National Pollutant Discharge Elimination System (NPDES) permit to cover base-wide industrial activities. Construction of the proposed action or the alternative action would disturb less than one acre and not require a contractor to obtain a separate NPDES from the North Dakota Department of Health (NDDH). The permit would allow discharge of storm water runoff until the site is stabilized by the reestablishment of vegetation or other permanent cover.

Scoping for this EA included discussion of relevant issues with members of the environmental management and bioenvironmental flights. Scoping letters requesting comments on possible issues of concern were sent to agencies with pertinent resource responsibilities. In accordance with AFI 32-7061, a copy is submitted to the ND Division of Community Services.

2.0 DESCRIPTION OF THE PROPOSED ACTION AND ALTERNATIVES

2.1 INTRODUCTION

Based on the descriptions of the relevant environmental resources presented in Section 3 and the predictions and analyses presented in Section 4, this section presents a comparative summary matrix of the alternatives (the heart of the analysis) providing the decision maker and the public with a clear basis for choice among the alternatives.

This section has five parts:

- Selection Criteria for Alternatives
- Alternatives Considered but Eliminated from Detailed Study
- Detailed Descriptions of the Three Alternatives Considered
- Comparison of Environmental Effects of the Proposed Action and Alternatives
- Identification of the Preferred Alternative

2.2 SELECTION CRITERIA FOR ALTERNATIVES

Selection criteria used to evaluate the Proposed and Alternative Actions include the following:

- All weather access to a secure fuel-water recovery underground storage tank.
- A storage area to prevent inadvertent fuel discharges from fuel bowsers.

2.3 ALTERNATIVES CONSIDERED BUT ELIMINATED FROM DETAILED STUDY

No alternatives were eliminated from detailed study.

2.4 DESCRIPTION OF PROPOSED ALTERNATIVES

This section describes the activities that would occur under three alternatives: the proposed action and the two action alternatives. These three alternatives provide the decision maker with a reasonable range of alternatives from which to choose.

2.4.1 Alternative 1 (Proposed Action): To construct a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers.

The proposed action is two part. One part is to construct a new bowser open storage area along B Street and near the southern part of the C-Ramp, west of B Street and across from Building 650. The storage area pavements will be able to accommodate 15 bowsers. Pavements will be above surrounding surface grade. Space in the pavements for static grounding receptacle and grounding rod for each bowser spot must be allotted. Install a grounding system consisting of a grounding static receptacle and grounding rod for each bowser parking space, a total of 15 spaces. The grounding system will also include counterpoise (grounding subsystem) consisting of

one closed loop. The bowser placements will be configured to allow transportation vehicles to maneuver bowzers in and out of the storage area. Secondary containment must be provided. The storage yard must be designed in such a manner as to contain not less than the contents of the largest bowser with 4"- 6" of freeboard to allow for precipitation and wind. This can either be a drive-over berm, or a sunken pit, or combination thereof. The pad must have sufficient drainage and valving to allow for drainage of contained precipitation to the storm sewer system. The pad must be constructed in such a way as to be impermeable for the design life of the pad. The pad must be able to contain all leaks and releases and drips. All necessary excavation, fill, and utility connection will be accomplished as required

The second part is to install a 6000 gallon, double walled, underground storage tank (UST) near Bldg 501, with security fencing and lighting. Provide a concrete pad adjacent to the new UST. Provide a leak detection system and automatic tank gauging. The new UST systems will be connected to existing monitoring systems. All necessary excavation, fill, and utility connection will be accomplished as required. The UST piping must be situated and capped to prevent precipitation from entering. The pad must be constructed in such a way as to be impermeable for the design life of the pad. The pad must be able to contain all leaks and releases and drips. There must be sufficient space and accommodations to allow for easy access and pumping of the UST to allow periodic contactor service (pumper truck). Siting must take into consideration the 50,000 gallon UST S01-4 abandoned in place on 22 Dec 94 on the east side of Bldg 501.

2.4.2 Alternative 2: Alternate Location

Under the alternative action, construct a bowser storage facility near Three-Bay (Bldg 649) and also install UST at this location. This would require much of the same work included in the proposed action.

2.4.3 Alternative 3 (No Action Alternative): Status Quo

Under the no action alternative, the fuel bowzers will continue to be difficult to track and fuel bowzers will continue to be at risk of inadvertently dumping fuel contaminated with water. Future unauthorized fuel discharges may violate NPDES permit requirements and EPA regulations.

2.5 DESCRIPTION OF PAST, PRESENT, AND REASONABLY FORESEEABLE FUTURE ACTIONS RELEVANT TO CUMULATIVE IMPACTS

Impacts from the Proposed Action would be concurrent with other actions occurring at Grand Forks AFB. There are several other construction and demolition projects occurring on Grand Forks AFB in the same time frame. These projects are addressed under separate NEPA documents.

2.6 SUMMARY COMPARISON OF THE EFFECTS OF ALL ALTERNATIVES

Potential impacts from implementing the Proposed Action, Alternative 2, and the No Action Alternative are discussed in detail in Chapter 4.

Table 2.6.1: Summary of Environmental Impacts			
	Proposed Action	Alternative 1	No Action Alternative
Legend: ST = short-term, LT = long-term			
Air Quality	None	None	None
Noise	Minor Adverse ST Impact	Minor Adverse ST Impact	None
Wastes, Hazardous Materials, and Stored Fuels	Minor Adverse ST Impact	Minor Adverse ST Impact	None
Water Resources			
Ground Water	Minor Adverse LT Impact	Minor Adverse LT Impact	None
Surface Water	Minor Adverse LT Impact	Minor Adverse LT Impact	None
Wastewater	None	None	None
Water Quality	Minor Adverse ST Impact	Minor Adverse ST Impact	None
Wetlands	Minor Adverse LT Impact	Minor Adverse LT Impact	None
Biological Resources			
Vegetation	Minor Adverse ST Impact	Minor Adverse ST Impact	None
Noxious Weeds	Minor Adverse LT Impact	Minor Adverse LT Impact	None
Wildlife	Minor Adverse ST Impact	Minor Adverse ST Impact	None
Threatened and Endangered Species	None	None	None
Socioeconomic Resources	Minor Beneficial ST Impact	Minor Beneficial ST Impact	None
Cultural Resources	None	None	None
Land Use	None	None	None
Transportation Systems	Minor Adverse ST Impact	Minor Adverse ST Impact	None
Airspace/Airfield Operations			
Aircraft Safety	None	None	None
Airspace Compatibility	None	None	None
Safety and Occupational Health	Minor Adverse LT Impact	Minor Adverse LT Impact	None
Environmental Management			
Installation Restoration Program	None	None	None
Geological Resources	None	None	None
Pesticide Management	None	None	None
Environmental Justice	None	None	None

2.7 IDENTIFICATION OF PREFERRED ALTERNATIVE

The preferred action is Alternative 1 (Proposed Action): Construct a fuel-water recovery 6,000 gallon, double walled, underground storage tank (UST) near Bldg 501, with security fencing and lighting, and construct a paved open storage area for fuel bowsers, along B Street and near the southern part of the C-Ramp, west of B Street and across from Building 650, on Grand Forks Air Force Base (AFB), North Dakota.

3.0 AFFECTED ENVIRONMENT

3.1 INTRODUCTION

This section succinctly describes the operational concerns and the environmental resources relevant to the decision that must be made concerning this proposed action. Environmental concerns and issues relevant to the decision to be made and the attributes of the potentially affected environment are studied in greater detail in this section.

This descriptive section, combined with the definitions of the three alternatives in Section 2, and their predicted effects in Section 4, establish the scientific baseline against which the decision-maker and the public can compare and evaluate the activities and effects of all three alternatives.

3.2 AIR QUALITY

Grand Forks AFB has a humid continental climate that is characterized by frequent and drastic weather changes. The summers are short and humid with frequent thunderstorms. Winters are long and severe with almost continuous snow cover. The spring and fall seasons are generally short transition periods. The average annual temperature is 40 Farenheit (F) and the monthly mean temperature varies from 6 F in January to 70 F in July. Mean annual precipitation is 19.5 inches. Rainfall is generally well distributed throughout the year, with summer being the wettest season and winter the driest. An average of 34 thunderstorm days per year is recorded, with some of these storms being severe and accompanied by hail and tornadoes. Mean annual snowfall recorded is 40 inches with the mean monthly snowfall ranging from 1.6 inches in October to 8.0 inches in March. Relative humidity averages 58 percent annually, with highest humidity being recorded in the early morning. The average humidity at dawn is 76 percent. Mean cloud cover is 48 percent in the summer and 56 percent in the winter (USAF, 2003).

Month	Mean Temperature (°F)			Precipitation (Inches)		
	Maximum	Minimum	Monthly	Mean	Maximum	Minimum
January	15	-1	6	0.7	2.4	0.1
February	21	5	13	0.5	3.2	0.0
March	34	18	26	1.0	2.9	0.0
April	53	32	41	1.5	4.0	0.0
May	69	47	56	2.5	7.8	0.5
June	77	56	66	3.0	8.1	0.8
July	81	61	70	2.7	8.1	0.5
August	80	59	67	2.6	5.5	0.1
September	70	49	57	2.3	6.2	0.3
October	56	37	44	1.4	5.7	0.1
November	34	20	26	0.7	3.3	0.0
December	20	6	12	0.6	1.4	0.0

Source: AFCCC/DOO, October 1998

Wind speed averages 10 miles per hour (mph). A maximum wind speed of 74 mph has been recorded. Wind direction is generally from the northwest during the late fall, winter, and spring, and from the southeast during the summer.

Grand Forks County is included in the ND Air Quality Control Region. This region is in attainment status for all criteria pollutants. In 1997, the ND Department of Health (NDDH) conducted an Air Quality Monitoring Survey that indicated that the quality of ambient air in ND is generally good as it is located in an attainment area (NDDH, 1998). Grand Forks AFB has the following air permits: T5-F78004 (permit to operate) issued by NDDH and a CAA Title V air emissions permit.

The United States Environmental Protection Agency (USEPA) established the National Ambient Air Quality Standards (NAAQS), which define the maximum allowable concentrations of pollutants that may be reached, but not exceeded within a given time period. The NAAQS regulates the following criteria pollutants: Ozone (O₃), carbon monoxide (CO), nitrogen dioxide (NO₂), sulfur dioxide (SO₂), lead (Pb), and particulate matter. The ND Ambient Air Quality Standards (NDAAQS) were set by the State of ND. These standards are more stringent and emissions for operations in ND must comply with the Federal or State standard that is the most restrictive. There is also a standard for hydrogen sulfide (H₂S) in ND.

Prevention of significant deterioration (PSD) regulations establish SO₂, particulate matter 10 microns in diameter (PM₁₀), and NO₂ that can be emitted above a premeasured amount in each of three class areas. Grand Forks AFB is located in a PSD Class II area where moderate, well-controlled industrial growth could be permitted. Class I areas are pristine areas and include national parks and wilderness areas. Significant increases in emissions from stationary sources (100 tons per year (tpy) of CO, 40 tpy of nitrogen oxides (NO_x), volatile organic compounds (VOCs), or sulfur oxides (SO_x), or 15 tpy of PM₁₀) and the addition of major sources requires compliance with PSD regulations. There is also a 25 ton/year level for total particulate.

Air pollutants include O₃, CO, NO₂, SO₂, Pb, and particulate matter. Ground disturbing activities create PM₁₀ and particulate matter 2.5 microns in diameter (PM_{2.5}). Combustion creates CO, SO₂, PM₁₀, and PM_{2.5} particulate matter and the precursors (VOC and NO₂) to O₃. Only small amounts of Hazardous Air Pollutants (HAP) are generated from internal combustion processes or earth-moving activities. The Grand Forks AFB Final Emissions Survey Report (USAF, 1996) reported that Grand Forks AFB only generated small levels HAPs, 10.3 tpy of combined HAPs and 2.2 tpy maximum of a single HAP (methyl ethyl ketone). Methyl Ethyl Ketone is associated with aircraft and vehicle maintenance and repair. Secondary sources include fuel storage and dispensing (USAF, 2001a).

**Table 3.2-2
National Ambient Air Quality Standards (NAAQS) and ND Ambient Air Quality Standards (NDAAQS)**

Pollutant	Averaging Time	NAAQS $\mu\text{g}/\text{m}^3$ (ppm) ^a		NDAAQS $\mu\text{g}/\text{m}^3$ (ppm) ^a
		Primary ^b	Secondary ^c	
O ₃	1 hr	235 (0.12)	Same	Same
	8 hr ^e	157 (0.08)	Same	None
CO	1 hr	40,000 (35)	None	40,000 (35)
	8 hr	10,000 (9)	None	10,000 (9)
NO ₂	AAM ^d	100 (0.053)	Same	Same
SO ₂	1 hr	None	None	715 (0.273)
	3 hr	None	1,300 (0.5)	None
	24 hr	365 (0.14)	None	260 (0.099)
	AAM	80 (0.03)	None	60 (0.023)
PM ₁₀	AAM	50	Same	Same
	24 hr	150	Same	Same
PM _{2.5} ^e	AAM	65	Same	None
	24 hr	15	Same	None
Pb	¼ year	1.5	Same	Same
H ₂ S	1 hr	None	None	280 (0.20)
	24 hr	None	None	140 (0.10)
	3 mth	None	None	28 (0.02)
	AAM	None	None	14 (10)
	Instantaneous	None	None	14 (10)

^a $\mu\text{g}/\text{m}^3$ – micrograms per cubic meter; ppm – parts per million

^bNational Primary Standards establish the level of air quality necessary to protect the public health from any known or anticipated adverse effects of pollutant, allowing a margin of safety to protect sensitive members of the population.

^cNational Secondary Standards establish the level of air quality necessary to protect the public welfare by preventing injury to agricultural crops and livestock, deterioration of materials and property, and adverse impacts on the environment.

^dAAM – Annual Arithmetic Mean.

^eThe Ozone 8-hour standard and the PM 2.5 standards are included for information only. A 1999 federal court ruling blocked implementation of these standards, which USEPA proposed in 1997. USEPA has asked the US Supreme Court to reconsider that decision (USEPA, 2000).

PM₁₀ is particulate matter equal to or less than 10 microns in diameter.

PM_{2.5} is particulate matter equal to or less than 2.5 microns in diameter.

Source: 40 CFR 50, ND Air Pollution Control Regulations – North Dakota Administrative Code (NDAC) 33-15

3.3 NOISE

Noise generated on Grand Forks AFB consists mostly of aircraft, vehicular traffic and construction activity. Most noise is generated from aircraft during takeoff and landing and not from ground traffic. Noise levels are dependent upon type of aircraft, type of operations, and distance from the observer to the aircraft. Duration of the noise is dependent upon proximity of the aircraft, speed, and orientation with respect to the observer.

**Table 3.3-1
Typical Decibel Levels Encountered in the Environment and Industry**

Sound Level (dBA) ^a	Maximum Exposure Limits	Source of Noise	Subjective Impression
10			Threshold of hearing
20		Still recording studio; Rustling leaves	
30		Quiet bedroom	
35		Soft whisper at 5 ft ^b ; Typical library	
40		Quiet urban setting (nighttime); Normal level in home	Threshold of quiet
45		Large transformer at 200 ft	
50		Private business office; Light traffic at 100 ft; Quiet urban setting (daytime)	
55		Window air conditioner; Men's clothing department in store	Desirable limit for outdoor residential area use (EPA)
60		Conversation speech; Data processing center	
65		Busy restaurant; Automobile at 100 ft	Acceptable level for residential land use
70		Vacuum cleaner in home; Freight train at 100 ft	Threshold of moderately loud
75		Freeway at 10 ft	
80		Ringling alarm clock at 2 ft; Kitchen garbage disposal; Loud orchestral music in large room	Most residents annoyed
85		Printing press; Boiler room; Heavy truck at 50 ft	Threshold of hearing damage for prolonged exposure
90	8 hr ^c	Heavy city traffic	
95	4 hr	Freight train at 50 ft; Home lawn mower	
100	2 hr	Pile driver at 50 ft; Heavy diesel equipment at 25 ft	Threshold of very loud
105	1 hr	Banging on steel plate; Air Hammer	
110	0.5 hr	Rock music concert; Turbine condenser	
115	0.25 hr	Jet plane overhead at 500 ft	
120	< 0.25 hr	Jet plane taking off at 200 ft	Threshold of pain
135	< 0.25 hr	Civil defense siren at 100 ft	Threshold of extremely loud

^adBA – decibals

^bft – feet

^chr - hours

Source: US Army, 1978

**Table 3.3-2
Approximate Sound Levels (dBA) of Construction Equipment**

Equipment Type	Sound Levels (dBA) at Various Distances (ft)					
	50	100	200	400	800	1,600
Front-end Loader	84	78	72	66	60	54
Dump Truck	83	77	71	65	59	53
Truck	83	77	71	65	59	53
Tractor	84	78	72	66	58	52

Source: Thurman, 1976; US Army, 1978

Because military installations attract development in proximity to their airfields, the potential exists for urban encroachment and incompatible development. The USAF utilizes a program known as AICUZ to help alleviate noise and accident potential problems due to unsuitable community development. AICUZ recommendations give surrounding communities alternatives to help prevent urban encroachment. Noise contours are developed from the Day-Night Average A-Weighted Sound Level (DNL) data which defines the noise created by flight operations and ground-based activities. The AICUZ also defines Accident Potential Zones (APZs), which are rectangular corridors extending from the ends of the runways. Recommended land use activities and densities in the APZs for residential, commercial, and industrial uses are provided in the base's AICUZ study. Grand Forks AFB takes measures to minimize noise levels by evaluating aircraft operations. Blast deflectors are utilized in designated areas to deflect blast and minimize exposure to noise.

3.4 WASTES, HAZARDOUS MATERIALS, AND STORED FUELS

Hazardous wastes, as listed under the RCRA, are defined as any solid, liquid, contained gaseous, or combination of wastes that pose a substantive or potential hazard to human health or the environment. On-base hazardous waste generation involves three types of on-base sites: an accumulation point (90-day), satellite accumulation points, and spill cleanup equipment and materials storage (USAF, 2001c). Discharge and emergency response equipment is maintained in accessible areas throughout Grand Forks AFB. The Fire Department maintains adequate fire response and discharge control and containment equipment. Equipment stores are maintained in buildings 523 and 530. Petroleum contaminated soils generated from excavations throughout the base can be treated at the land treatment facility located on base. These solid wastes are tilled or turned several times a year to remediate the soils to acceptable levels.

Hard fill, construction debris, and inert waste generated by Grand Forks AFB are disposed of at a permitted off-base landfill. All on-base household garbage and solid waste is collected by a contractor and transported to the Grand Forks County Landfill, which opened in 1982.

Recyclable materials from industrial facilities are collected in the recycling facility, in building 424. Paper, glass, plastics, cardboard, and wood are collected in separate storage bins. Curbside containers are used in housing for recyclable materials. A contractor collects these materials and transports them off base.

The Environmental Management Flight manages the hazardous material through a contract with MACTEC Pacific Environmental Services. Typical hazardous materials include reactive materials such as explosives, ignitable, toxics, and corrosives. Improper storage can impact human health and the safety of the environment.

Since Grand Forks AFB is a military installation with a flying mission, there are several aboveground and underground fuel storage tanks. None of the alternatives would impact fuel storage tanks.

3.5 WATER RESOURCES

3.5.1 Ground Water

Chemical quality of ground water is dependent upon the amount and type of dissolved gases, minerals, and organic material leached by water from surrounding rocks as it flows from recharge to discharge areas. The water table depth varies throughout the base, from a typical 1-3 ft to 10 ft or more below the surface.

Even though the Dakota Aquifer has produced more water than any other aquifer in Grand Forks County, the water is very saline and generally unsatisfactory for domestic and most industrial uses. Its primary use is for livestock watering. It is sodium chloride type water with total dissolved solids concentrations of about 4,400 ppm. The water generally contains excessive chloride, iron, sulfate, total dissolved solids, and fluoride. The water from the Dakota is highly toxic to most domestic plants and small grain crops, and in places, the water is too highly mineralized for use as livestock water (Hansen and Kume, 1970).

Water from wells tapping the Emerado Aquifer near Grand Forks AFB is generally of poor quality due to upward leakage of poor quality water from underlying bedrock aquifers. It is sodium sulfate type water with excessive hardness, chloride, sulfate, and total dissolved solids. Water from the Lake Agassiz beach aquifers is usually of good chemical quality in Grand Forks County. The water is a calcium bicarbonate type that is relatively soft. The total dissolved content ranges from 308 to 1,490 ppm. Most water from beach aquifers is satisfactory for industrial, livestock, and agricultural uses (Hansen and Kume, 1970).

Grand Forks AFB draws 85 to 90 percent of its water for industrial, commercial and housing functions from the City of Grand Forks and 10 to 15 percent from Agassiz Water.

3.5.2 Surface Water

Natural surface water features located on or near Grand Forks AFB are the Turtle River and Kellys Slough National Wildlife Refuge (NWR). Drainage from surface water channels ultimately flows into the Red River.

The Turtle River, crossing the base boundary at the northwest corner, is very sinuous and generally flows in a northeasterly direction. It receives surface water runoff from the western portion of Grand Forks AFB and eventually empties into the Red River of the North that flows north to Lake Winnipeg, Canada. The Red River drainage basin is part of the Hudson Bay drainage system. At Manvel, ND, approximately 10 miles northeast of Grand Forks AFB, the mean discharge of the Turtle River is 50.3 feet cubed per second (ft³/s). Peak flows result from spring runoff in April and minimum flows (or no flow in some years) occur in January and February.

NDDH has designated the Turtle River to be a Class II stream, it may be intermittent, but, when flowing, the quality of the water, after treatment, meets the chemical, physical, and

bacteriological requirements of the NDDH for municipal use. The designation also states that it is of sufficient quality to permit use for irrigation, for propagation of life for resident fish species, and for boating, swimming, and other water recreation.

Kelly's Slough NWR occupies a wide, marshy flood plain with a poorly defined stream channel, approximately two miles east and downstream of Grand Forks AFB. Kellys Slough NWR receives surface water runoff from the east half of the base and effluent from the base sewage lagoons located east of the base. Surface water flow of the slough is northeasterly into the Turtle River Drainage from surface water channels ultimately flowing into the Red River. Floodplains are limited to an area 250 ft on either side of Turtle River (about 46 acres on base). Appendix C contains a map depicting floodplains. Any development in or modifications to floodplains must be coordinated with the Corps of Engineers and the Federal Emergency Management Agency (FEMA).

Surface water runoff leaves Grand Forks AFB at four primary locations related to identifiable drainage areas on base. The four sites are identified as northeast, northwest, west, and southeast related to the base proper. These outfalls were approved by the NDDH as stated in the Grand Forks AFB ND Pollutant Discharge Elimination System (NDPDES) Permit NDR02-0314 Stormwater Discharges from Industrial Activity. Of the four outfall locations, the west and northwest sites flow into the Turtle River, the northeast site flows to the north ditch and the southeast outfall flows into the south ditch. The latter two flow to Kellys Slough and then the Turtle River. All drainage from these surface water channels ultimately flows into the Red River. The Bioenvironmental Engineering Office samples the four outfall locations during months when de-icing activities occur on base.

3.5.3 Waste Water

Grand Forks AFB discharges its domestic and industrial wastewater to four stabilization lagoons located east of the main base. The four separate treatment cells consist of one primary treatment cell, two secondary treatment cells, and one tertiary treatment cell. Wastewater effluent is discharged under ND Permit ND0020621 into Kellys Slough. Wastewater discharge occurs for about one week, sometime between mid-April though October. Industrial wastewater at the base comprises less than ten percent of the total flow to the treatment lagoons.

3.5.4 Water Quality

According to the National Water Quality Inventory Report (USEPA, 1995), ND reports the majority of rivers and streams have good water quality. Natural conditions, such as low flows, can contribute to violations of water quality standards. During low flow periods, the rivers are generally too saline for domestic use. Grand Forks AFB receives water from Grand Forks and Lake Agassiz Water. The city recovers its water from the Red River and the Red Lake River, while the water association provides water from aquifers. The water association recovers water from well systems within glacial drift aquifers (USAF, 1999). The 319th Civil Engineering Squadron tests the water received on base daily for fluorine and chlorine. The 319th

Bioenvironmental Flight collects monthly bacteriological samples to be analyzed at the ND State Laboratory.

3.5.5 Wetlands

About 246,900 acres in the county are drained wetland Type I (wet meadow) to Type V (open freshwater). Approximately 59,500 acres of wetland Type I to V are used for wetland habitat. Wetland Types IV and V include areas of inland saline marshes and open saline water. Kellys Slough NWR occupies a wide, marshy flood plain with a poorly defined stream channel, approximately two miles east and downstream of Grand Forks AFB. Kellys Slough NWR is the most important regional wetland area in the Grand Forks vicinity. EO 11990 requires zero loss of wetlands. Grand Forks AFB has 49 wetlands, covering 23.9 acres of wetlands (see Appendix C), including 33 jurisdictional wetlands covering 12.2 acres. Wetlands on Grand Forks AFB occur frequently in drainage ways, low-lying depressions, and potholes. Wetlands are highly concentrated in drainage ways leading from the wastewater treatment lagoons to Kellys Slough NWR. The majority of wetland areas occur in the northern and central portions of base, near the runway, while the remaining areas are near the eastern boundary and southeastern corner of base. Development in or near these areas must include coordination with the ND State Water Commission and the USACE.

3.6 BIOLOGICAL RESOURCES

3.6.1 Vegetation

Plants include a large variety of naturally occurring native plants. Because of the agrarian nature of Grand Forks County, cropland is the predominant element for wildlife habitat. Pastures, meadows, and other non-cultivated areas are overgrown with grasses, legumes, and wild herbaceous plants. Included in the grasses and legumes vegetation species are tall wheat grass, brome grass, sweet clover, and alfalfa. Herbaceous plants include little bluestem, goldenrod, green needle grass, western wheat grass, and bluegrama. Shrubs such as Juneberry, dogwood, hawthorn, and snowberry also are found in the area. In wetland areas, predominant species include smartweed, wild millet, cord grass, bulrushes, sedges, and reeds. These habitats for upland wildlife and wetland wildlife attract a variety of species to the area and support many aquatic species.

Various researchers, most associated with the University of ND, have studied current native floras in the vicinity of the base. Prior to 1993 field investigations, ten natural communities occurring in Grand Forks County were identified in the ND Natural Heritage Inventory (1994). Of these, only one community, Lowland Woodland, is represented within the base boundaries. Dominant trees in this community are elm, cottonwood, and green ash. Dutch elm disease has killed many of the elms. European buckthorn (a highly invasive exotic species), chokecherry, and wood rose (*Rosa woodsii*) are common in the under story in this area. Wood nettle (*Laportea canadensis*), stinging nettle (*Urtica dioica*), beggars' ticks (*Bidens forndosa*), and waterleaf (*Hydrophyllum virginianum*) are typical forbes.

One hundred and forty two total taxa, representing less than a third of the known Grand Forks County plant taxa, were identified in the ND Natural Heritage Inventory. No rare plants species are known to exist on Grand Forks AFB.

3.6.2 Wildlife

Ground Forks County is primarily cropland although there are wildlife areas located within the county. Kellys Slough NWR is located a couple miles northeast of Grand Forks AFB. In addition to being a wetland, it is a stopover point for migratory birds. The Prairie Chicken Wildlife Management Area is located north of Mekinock and contains 1,160 acres of habitat for deer, sharp-tailed grouse, and game birds. Wildlife can also be found at the Turtle River State Park, The Bremer Nature Trail, and the Myra Arboretum.

There is minimal habitat for wildlife on Grand Forks AFB due to extensive development. White tail deer, eastern cottontail, and ring-neck pheasant can be found on base. The proposed project area only provides low-quality foraging habitat for small animals.

3.6.3 Threatened and Endangered Species

According to the 1994 ND Natural Heritage Inventory, "There are no known federally threatened or endangered species populations on or adjacent to Grand Forks AFB." The base does have infrequent use by migratory threatened and endangered species, such as the bald eagle and peregrine falcon, but there are no critical or significant habitats for those species present. The inventory also indicated that red-breasted nuthatch and moose are two special concern species. They have been observed on base near Turtle River. The inventory also indicated that there is no habitat on or near Grand Forks AFB to sustain a moose population. Red-breasted nuthatches prefer woodland habitats dominated by conifers. These birds are transients and pose no particular concern. The ESA does require that Federal Agencies not jeopardize the existence of a threatened or endangered species nor destroy or adversely modify designated critical habitat for threatened or endangered species.

3.7 SOCIOECONOMIC RESOURCES

Grand Forks County is primarily an agricultural region and, as part of the Red River Valley, is one of the worlds most fertile. Cash crops include sugar beets, beans, corn, barley, and oats. The valley ranks first in the nation in the production of potatoes, spring wheat, sunflowers, and durum wheat. Grand Forks County's population in 2000 was 66,109, a decrease of 6.5 percent from the 1990 population of 70,638 (ND State Data Center, No Date). Grand Forks County's annual mean wage in Oct 2001 was \$26,715 (Job Service of ND, 2001). Grand Forks AFB is one of the largest employers in Grand Forks County. As of May 2003, Grand Forks AFB had 3,165 active duty military members and 338 civilian employees. The total annual economic impact for Grand Forks AFB is \$325,647, 980.

3.8 CULTURAL RESOURCES

According to the Grand Forks AFB Cultural Resources Management Plan, there are no archeological sites that are potentially eligible for the National Register of Historic Places (NRHP). A total of six archeological sites and six archeological find spots have been identified on the base. None meet the criteria of eligibility of the NRHP established in 36 CFR 60.4. There is no evidence for Native American burial grounds, or other culturally sensitive areas. Paleosols (soil that developed on a past landscape) remain a management concern requiring Section 106 compliance. Reconnaissance-level archival and archeological surveys of Grand Forks AFB conducted by the University of ND in 1989 indicated that there are no facilities (50 years or older) that possess historical significance. The base is currently consulting with the ND Historical Society on the future use of eight Cold War Era facilities. These are buildings 313, 606, 703-707, and 714.

3.9 LAND USE

Land use in Grand Forks County consists primarily of cultivated crops with remaining land used for pasture and hay, urban development, recreation, and wildlife habitat. Principal crops are spring wheat, barley, sunflowers, potatoes, and sugar beets. Turtle River State Park, developed as a recreation area in Grand Forks County, is located about five miles west of the base. Several watershed protection dams are being developed for recreation activities including picnicking, swimming, and ball fields. Wildlife habitat is very limited in the county. Kellys Slough NWR (located about two miles east of the base) and the adjacent National Waterfowl Production Area are managed for wetland wildlife and migratory waterfowl, but they also include a significant acreage of open land wildlife habitat.

The main base encompasses 5,420 acres, of which the USAF owns 4,830 acres and another 590 acres are lands containing easements, permits, and licenses. Improved grounds, consisting of all covered area (under buildings and sidewalks), land surrounding base buildings, the 9-hole golf course, recreational ball fields, and the family housing area, encompass 1,120 acres. Semi-improved grounds, including the airfield, fence lines and ditch banks, skeet range, and riding stables account for 1,390 acres. The remaining 2,910 acres of the installation consist of unimproved grounds. These areas are comprised of woodlands, open space, and wetlands, including four lagoons (180.4 acres) used for the treatment of base wastewater. Agricultural out leased land (1,040 acres) is also classified as unimproved. Land use at the base is solely urban in nature, with residential development to the south and cropland, hayfields, and pastures to the north, west, and east.

3.10 TRANSPORTATION SYSTEMS

Seven thousand vehicles per day travel ND County Road B3 from Grand Forks AFB's east gate to the US Highway 2 Interchange (Clayton, 2001). Two thousand vehicles per day use the off-ramp from US Highway 2 onto ND County Road B3 (Dunn, 2001). US Highway 2, east of the base interchange, handles 10,800 vehicles per day. (Kingsley and Kuntz, 2001). A four lane arterial road has a capacity of 6,000 vehicles per hour and a two lane, 3,000, based on the average

capacity of 1,500 per hour per lane. Roadways adjacent to Grand Forks AFB are quite capable of accommodating existing traffic flows (USAF, 2001a).

Grand Forks AFB has good traffic flow even during peak hours (6-8 am and 4-6 pm). There are two gates: the main gate located off of County Road B3, about one mile north of U.S. Highway 2, and the Secondary Gate located off of U.S. Highway 2, about 3/4 mile west of County Road B3. The main gate is connected to Steen Boulevard (Blvd), which is the main east-west road, and the south gate is connected to Eielson Street (St), which is the main north-south road.

3.11 AIRSPACE/AIRFIELD OPERATIONS

3.11.1 AIRCRAFT SAFETY

Bird Aircraft Strike Hazard (BASH) is a major safety concern for military aircraft. Collision with birds may result in aircraft damage and aircrew injury, which may result in high repair costs or loss of the aircraft. A BASH hazard exists at Grand Forks AFB and its vicinity, due to resident and migratory birds. Daily and seasonal bird movements create various hazardous conditions. Although BASH problems are minimal, Kellys Slough NWR is a major stopover for migratory birds. Canadian Geese and other large waterfowl have been seen in the area (USAF, 2001b).

3.11.2 AIRSPACE COMPATIBILITY

The primary objective of airspace management is to ensure the best possible use of available airspace to meet user needs and to segregate requirements that are incompatible with existing airspace or land uses. The Federal Aviation Administration has overall responsibility for managing the nation's airspace and constantly reviews civil and military airspace needs to ensure all interests are compatibly served to the greatest extent possible. Airspace is regulated and managed through use of flight rules, designated aeronautical maps, and air traffic control procedures and separation criteria.

3.12 SAFETY AND OCCUPATIONAL HEALTH

Safety and occupational health issues include one-time and long-term exposure. Examples include asbestos/radiation/chemical exposure, explosives safety quantity-distance, and bird/wildlife aircraft hazard. Safety issues include injuries or deaths resulting from a one-time accident. Aircraft Safety includes information on birds/wildlife aircraft hazards and the BASH program. Health issues include long-term exposure to chemicals such as asbestos and lead-based paint. Safety and occupational health concerns could impact personnel working on the project and in the surrounding area.

The National Emission Standards for Hazardous Air Pollutants (NESHAP) of the CAA designates asbestos as HAP. OSHA provides worker protection for employees who work around or asbestos containing material (ACM). Regulated ACM (RACM) includes thermal system

insulation (TSI), any surfacing material, and any friable asbestos material. Non-regulated Category I non-friable ACM includes floor tile and joint compound.

Lead exposure can result from paint chips or dust or inhalation of lead vapors from torch-cutting operations. This exposure can affect the human nervous system. Due to the size of children, exposure to lead based paint is especially dangerous to small children. OSHA considers all painted surfaces in which lead is detectable to have a potential for occupational health exposure.

3.13 ENVIRONMENTAL MANAGEMENT

3.13.1 INSTALLATION RESTORATION PROGRAM

The Installation Restoration Program (IRP) is the AF's environmental restoration program based on the CERCLA. CERCLA provides for Federal agencies with the authority to inventory, investigate, and clean up uncontrolled or abandoned hazardous waste sites. There are seven IRP sites at Grand Forks AFB. These sites are identified as potentially impacted by past hazardous material or hazardous waste activities. They are the Fire Training Area/Old Sanitary Landfill Area, FT-02; New Sanitary Landfill Area, LF-03; Strategic Air Ground Equipment (SAGE) Building 306, ST-04; Explosive Ordnance Detonation Area, OT-05; Refueling Ramps and Pads, Base Tanks Area, ST-06; POL Off-Loading Area, ST-07; and Refueling Ramps and Pads, ST-08 (USAF, 1997b). Two sites are considered closed, OT-05 and ST-06. ST-08 has had a remedial investigation/feasibility study (RI/FS) completed and the rest are in long-term monitoring. Grand Forks AFB is not on the National Priorities List (NPL)

3.13.2 GEOLOGICAL RESOURCES

3.13.2.1 Physiography and Topography

The topography of Grand Forks County ranges from broad, flat plains to gently rolling hills that were produced mainly by glacial activity. Local relief rarely exceeds 100 ft in one mile, and, in parts of the lake basin, less than five ft in one mile.

Grand Forks AFB is located within the Central Lowlands physiographic province. The topography of Grand Forks County, and the entire Red River Valley, is largely a result of the former existence of Glacial Lake Agassiz, which existed in this area during the melting of the last glacier, about 12,000 years ago (Stoner et al., 1993). The eastern four-fifths of Grand Forks County, including the base, lies in the Agassiz Lake Plain District, which extends westward to the Pembina escarpment in the western portion of the county. The escarpment separates the Agassiz Lake Plain District from the Drift Plain District to the west. Glacial Lake Agassiz occupied the valley in a series of recessive lake stages, most of which were sufficient duration to produce shoreline features inland from the edge of the lake. Prominent physiographic features of the Agassiz Lake Plain District are remnant lake plains, beaches, inter-beach areas, and delta plains. Strandline deposits, associated with fluctuating lake levels, are also present and are indicated by narrow ridges of sand and gravel that typically trend northwest-southwest in Grand Forks County.

Grand Forks AFB lies on a large lake plain in the eastern portion of Grand Forks County. The lake plain is characterized by somewhat poorly drained flats and swells, separated by poorly drained shallow swells and sloughs (Doolittle et al., 1981). The plain is generally level, with local relief being less than one foot. Land at the base is relatively flat, with elevations ranging from 880 to 920 ft mean sea level (MSL) and averaging about 890 ft MSL. The land slopes to the north at less than 12 ft per mile

3.13.2.2 Soil Type Condition

Soils consist of the Gilby loam series that are characterized by deep, somewhat poorly drained, moderately to slowly permeable soils in areas between beach ridges. The loam can be found from 0 to 12 inches. From 12 to 26 inches, the soil is a mixture of loam, silt loam, and very fine sandy loam. From 26 to 60 inches, the soil is loam and clay loam.

3.13.3 PESTICIDE MANAGEMENT

Pesticides are handled at various facilities including Environmental Controls, Golf Course Maintenance, and Grounds Maintenance. Other organizations assist in the management of pesticides and monitoring or personnel working with pesticides. Primary uses are for weed and mosquito control. Herbicides, such as Round-up, are used to maintain areas adjacent to roadways. Military Public Health and Bioenvironmental Engineering provide information on the safe handling, storage, and use of pesticides. Military Public Health maintains records on all pesticide applicators. The Fire Department provides emergency response in the event of a spill, fire, or similar type incident.

3.14 ENVIRONMENTAL JUSTICE

Environmental justice addresses the minority and low-income characteristics of the area, in this case Grand Forks County. The county is more than 93 percent Caucasian, 2.3 percent Native American, 1.4 percent African-American, 1 percent Asian/Pacific Islander, less than 1 percent Other, and 1.6 percent "Two or more races". In comparison, the US is 97.6 percent Caucasian, 12.3 African-American, 0.9 percent Native American or Native Alaskan, 3.6 percent Asian, 0.1 Native Hawaiian or Pacific Islander, 5.5 percent Other, and 2.4 percent "Two or more races". Approximately 12.5 percent of the county's population is below the poverty level in comparison to 13.3 percent the state (US Bureau of the Census, 2002). There are few residences and no concentrations of low-income or minority populations around Grand Forks AFB.

4.0 ENVIRONMENTAL CONSEQUENCES

4.1 INTRODUCTION

The effects of the proposed action and the alternatives on the affected environment are discussed in this section. The project involves construction of a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers on Grand Forks AFB.

4.2 AIR QUALITY

4.2.1 Alternative 1 (Proposed Action)

No long-term effects; however short term effects involve heavy construction equipment emissions (not a concern as they are mobile sources) and fugitive dust (mentioned on our Title V permit). Air Quality is considered good and the area is in attainment for all criteria pollutants. Fugitive emissions from construction activities are expected to be below the regulatory threshold and would be managed in accordance with NDAC 33-15-17-03. Best management practices (BMPs) to reduce fugitive emissions would be implemented to reduce the amount of these emissions.

4.2.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.2.3 Alternative 3 (No Action)

The no action alternative would not impact air quality.

4.3 NOISE

4.3.1 Alternative 1 (Proposed Action)

The short-term operation of heavy equipment in the construction area would generate additional noise. These noise impacts would exist only during construction and would cease after completion. The increase in noise from construction activities would be negligible.

4.3.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.3.3 Alternative 3 (No Action)

The no action alternative would not impact noise generation.

4.4 WASTES, HAZARDOUS MATERIALS, AND STORED FUELS

4.4.1 Alternative 1 (Proposed Action)

The increase in hazardous and solid wastes from construction related activities would be minimal and temporary. Construction debris would be disposed of in approved location, such as the Grand Forks Municipal Landfill, which is located within 12 miles of the construction site. All solid waste materials would be managed and transported in accordance with the state's solid and hazardous waste rules. Appropriate efforts to reduce, reuse and/or recycle waste materials are encouraged by the State of North Dakota. Inert waste should be segregated from non-inert waste, where possible, to reduce the cost of waste management.

4.4.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.4.3 Alternative 3 (No Action)

The no action alternative would not impact hazardous or solid waste generation.

4.5 WATER RESOURCES

4.5.1 Alternative 1 (Proposed Action)

Groundwater: Excavation will intercept the water table during the excavation for tank installation and possibly during parking lot installation. If the excavated area fills with groundwater, water could be directly exposed to contaminants released from construction equipment. If pumping of the excavation needs to take place, sedimentation issues will have to be addressed. Control devices, such as secondary containment, would have to be included in design. Long term, there could be contamination from the UST due to spillage or leaks. Tank monitoring equipment must be installed. Provided best management practices are followed, there will be minimal impacts on ground water.

Surface Water: Surface water quality could be degraded, both in the short-term, during actual construction, and over the long-term due to reduced storm water quality caused by the decrease of infiltration area. The short-term effects come from possible erosion contributing to turbidity of runoff and possible contamination from spills or leaks from construction equipment. Surface water could also be impacted if, due to storm water inflow to the excavation, the contractor would need to pump out the excavation. The contractor must utilize effective methods to control surface water runoff and minimize erosion. Proper stabilization and seeding the site immediately upon completion of the construction would provide beneficial vegetation, controlling erosion. Secondary containment needs must be studied and implemented if needed, to prevent future contamination of surface water and the environment in general. Long-term surface water degradation could occur simply from the fact that additional area is non-porous, reducing the ability of local environment to absorb water and increasing both the volume and velocity of

storm water runoff. Also depending on the slope of the paved area, runoff could become concentrated, increasing the amount of erosion occurring with any given rain event. Since this lot is intended to be utilized storage area for fuel bowsers, leaks and spills must be allowed for in its design, and all required BMPs to prevent contaminated run-off must be applied. The design of the paved area must consider these long-term effects and, as required by Federal Law, include mitigating features and BMPs. Provided best management practices are utilized during design and construction, negative surface water impacts should be minimal.

Water Quality: Provided containment needs are met and best management practices are used, the proposed action would have minimal impact to water quality.

Wastewater: The proposed action would have no impact on wastewater.

Wetlands: The proposed action would have could possibly have direct impact on wetlands since the quality of surface water flowing to them may be degraded. All mitigating BMPs should be utilized during design and construction to prevent this. If they are not utilized, then the project quite probably will have a minimal negative impact on wetlands. This would be due to the increased volume, flow rates, and decreased water quality of the sites storm water discharges.

4.5.2 Alternative 2

This alternative would have the same impacts as the preferred alternative, just in a different location.

4.5.3 Alternative 3 (No Action)

The no action alternative would cause no change in impact on water resources.

4.6 BIOLOGICAL RESOURCES

4.6.1 Alternative 1 (Proposed Action)

Vegetation: BMPs and control measures, including silt fences and covering of stockpiles, would be implemented to ensure that impacts to biological resources be kept to a minimum. The amount of vegetation disturbed would be kept to the minimum required to complete the action. Disturbed areas should be re-established. There would be a short-term minimal loss of vegetation from construction activities.

Noxious Weeds: Public law 93-629 mandates control of noxious weeds. Limit possible weed seed transport from infested areas to non-infested sites. Avoid activities in or adjacent to heavily infested areas or remove seed sources and propagules from site prior to conducting activities, or limit operations to non-seed producing seasons. Wash or otherwise remove all vegetation and soil from equipment before transporting to a new site. Following activities which expose the soil, mitigate by covering the area with weed seed free mulch and/or seed the area with native species. Covering the soil will reduce the germination of weed seeds, maintain soil moisture, and minimize erosion. If any fill material is used, it should be from a weed-free source.

Wildlife: Construction would have insignificant impacts to wildlife. These areas provide foraging habitat for small mammals, such as mice and rabbits. The area is improved and frequently maintained by the grounds maintenance contractor. Due to the abundance and mobility of these species and the profusion of natural habitats in the general vicinity, any wildlife disturbed would be able to find similar habitat in the local area.

Threatened or Endangered Species: According to the 1994 ND Natural Heritage Inventory (1994), "There are no known federally threatened or endangered species populations on or adjacent to Grand Forks AFB." A threatened species, the bald eagle, has been observed using GFAPB sewage lagoons in Oct/Nov of 2003. However, the construction area does not include optimal habitat for the bald eagle or any other transient federal-or state-listed species that may occur in Grand Forks County.

4.6.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.6.3 Alternative 3 (No Action)

The no action alternative would not impact biological resources.

4.7 SOCIOECONOMIC RESOURCES

4.7.1 Alternative 1 (Proposed Action)

Secondary retail purchases would make an additional contribution to the local communities. The implementation of the proposed action, therefore, would provide a short-term, minimal beneficial impact to local retailers during the construction phase of the project.

4.7.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.7.3 Alternative 3 (No Action)

The no action alternative would not impact socioeconomics.

4.8 CULTURAL RESOURCES

4.8.1 Alternative 1 (Proposed Action)

The proposed action has little potential to impact cultural resources. In the unlikely event any such artifacts were discovered during the construction activities, the contractor would be instructed to halt construction and immediately notify Grand Forks AFB civil engineers who

would notify the State Historic Preservation Officer.

4.8.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.8.3 Alternative 3 (No Action)

The no action alternative would not impact cultural resources.

4.9 LAND USE

4.9.1 Alternative 1 (Proposed Action)

The proposed construction would not have an impact on land use.

4.9.2 Alternative 2

Alternative 2 would not have an impact on land use.

4.9.3 Alternative 3 (No Action)

The no action alternative would not have an impact on land use.

4.10 TRANSPORTATION SYSTEMS

4.10.1 Alternative 1 (Proposed Action)

The proposed action would have minimal adverse impact to transportation systems on base due to vehicles traveling to and from the fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers on Grand Forks AFB.

4.10.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.10.3 Alternative 3 (No Action)

The action would not impact transportation.

4.11 AIRSPACE/AIRFIELD OPERATIONS

4.11.1 Alternative 1 (Proposed Action)

The proposed action would not impact aircraft safety or airspace compatibility.

4.11.2 Alternative 2

The action would not impact aircraft safety or airspace compatibility.

4.11.3 Alternative 3 (No Action)

The no action alternative would not impact aircraft safety or airspace compatibility.

4.12 SAFETY AND OCCUPATIONAL HEALTH

4.12.1 Alternative 1 (Proposed Action)

The proposed action would generate the need to evaluate personnel exposure levels to fuel products for individuals working in the area, once the project is completed.

4.12.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.12.3 Alternative 3 (No Action)

The no action alternative would not impact safety and occupational health.

4.13 ENVIRONMENTAL MANAGEMENT

4.13.1 Alternative 1 (Proposed Action)

IRP: The proposed action would not impact IRP Sites.

Geology: The proposed action would not impact geological resources.

Pesticides: No pesticides would be used as part of this project.

Soils present in the proposed area include the Gilby series.

4.13.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.13.3 Alternative 3 (No Action)

The no action alternative would not impact IRP Sites or geological resources. No pesticides would be used as part of this project.

4.14 ENVIRONMENTAL JUSTICE

4.14.1 Alternative 1 (Proposed Action)

EO 12898 requires federal agencies to identify and address, as appropriate, disproportionately high and adverse human health or environmental effects of their programs, policies, and activities on minority and low-income populations. There are no minority or low-income populations in the area of the proposed action or alternatives, and, thus, there would be no disproportionately high or adverse impact on such populations.

4.14.2 Alternative 2

Impacts would be similar to those generated under the proposed action.

4.14.3 Alternative 3 (No Action)

The no action alternative would not impact environmental justice.

4.15 INDIRECT AND CUMULATIVE IMPACTS

The short-term increases in air emissions and noise during construction and the impacts predicted for other resource areas, would not be significant when considered cumulatively with other ongoing and planned activities at Grand Forks AFB and nearby off-base areas. The cumulative impact of the Proposed Action or Alternative with other ongoing construction in the area would produce and increase in solid waste generation; however, the increase would be limited to the timeframe of each construction project. The area landfill used for construction and demolition debris does not have capacity concerns and could readily handle the solid waste generated by the various projects.

4.16 UNAVOIDABLE ADVERSE IMPACTS

The use of construction-related vehicles and their short-term impacts on noise, air quality, and traffic is unavoidable.

4.17 RELATIONSHIP BETWEEN SHORT-TERM USES AND ENHANCEMENT OF LONG-TERM PRODUCTIVITY

The proposed action and alternative would involve the use of previously developed areas. No croplands, pastureland, wooded areas, or wetlands would be modified or affected as a result of implementing the Proposed Action or Alternative and, consequently, productivity of the area would not be degraded.

4.18 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

Under the proposed action, fuels, manpower, economic resources, fill and other construction materials related to the construction of a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers at Grand Forks Air Force Base (AFB), would be irreversibly lost.

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7.0 REFERENCES

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**APPENDIX A
LOCATION MAP
GRAND FORKS AFB ND**

Grand Forks AFB, ND

Location Map













State Boundary

APPENDIX B
CULTURAL RESOURCE PROBABILITY MAP

Figure 3.5
Survey Areas and
Probabilities

Grand Forks Air Force Base
Cultural Resources Management Plan

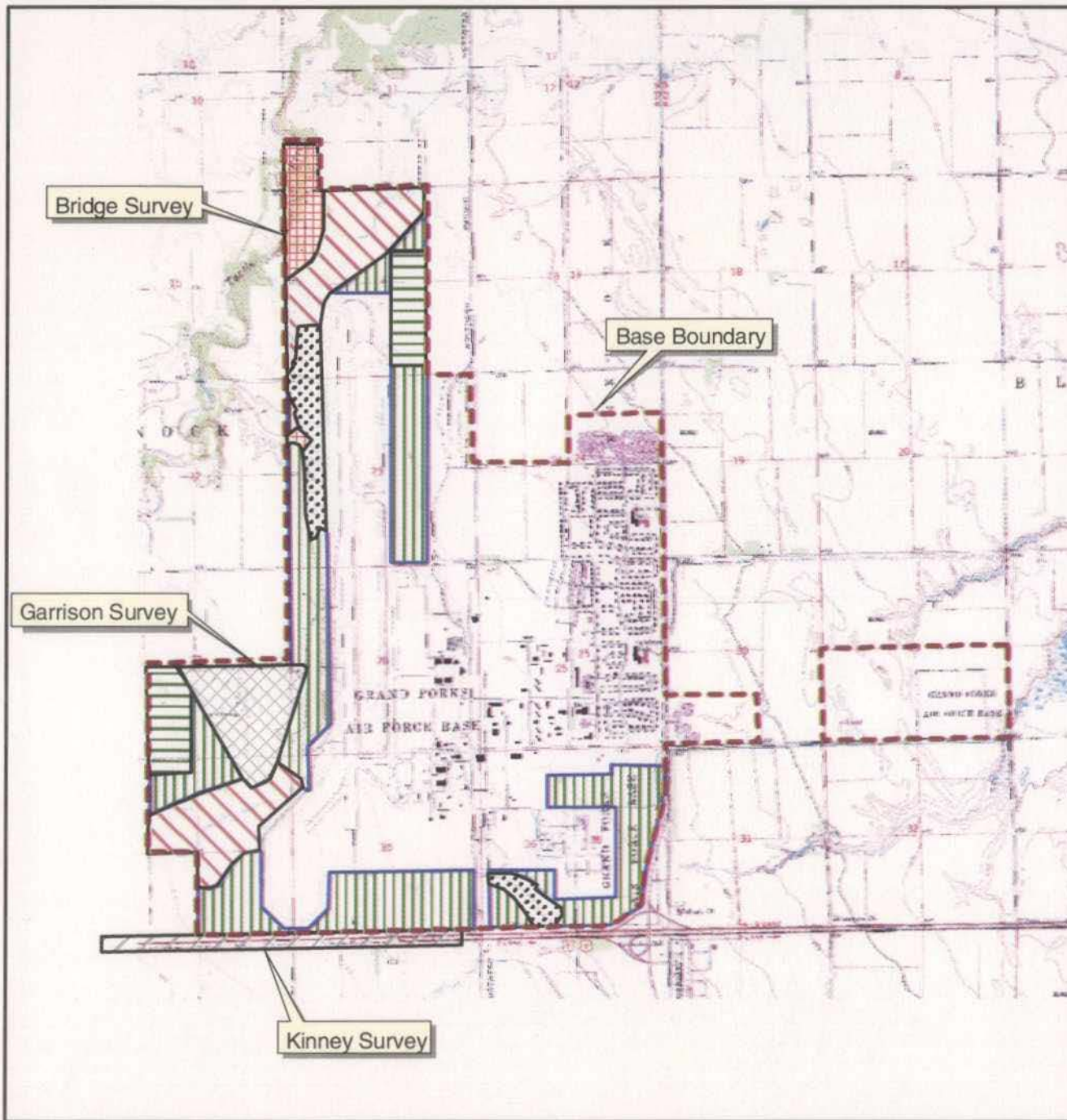
Legend

-  Historic Bridge Inventory Survey
-  Base Boundary
-  High Probability
-  Medium Probability (near water)
-  Kinney Survey
-  Medium Probability (beach ridge)
-  Peace Keeper Rail Garrison Survey
-  Low Probability (distance from water)
-  Low Probability (10% sample)
-  Previously Disturbed

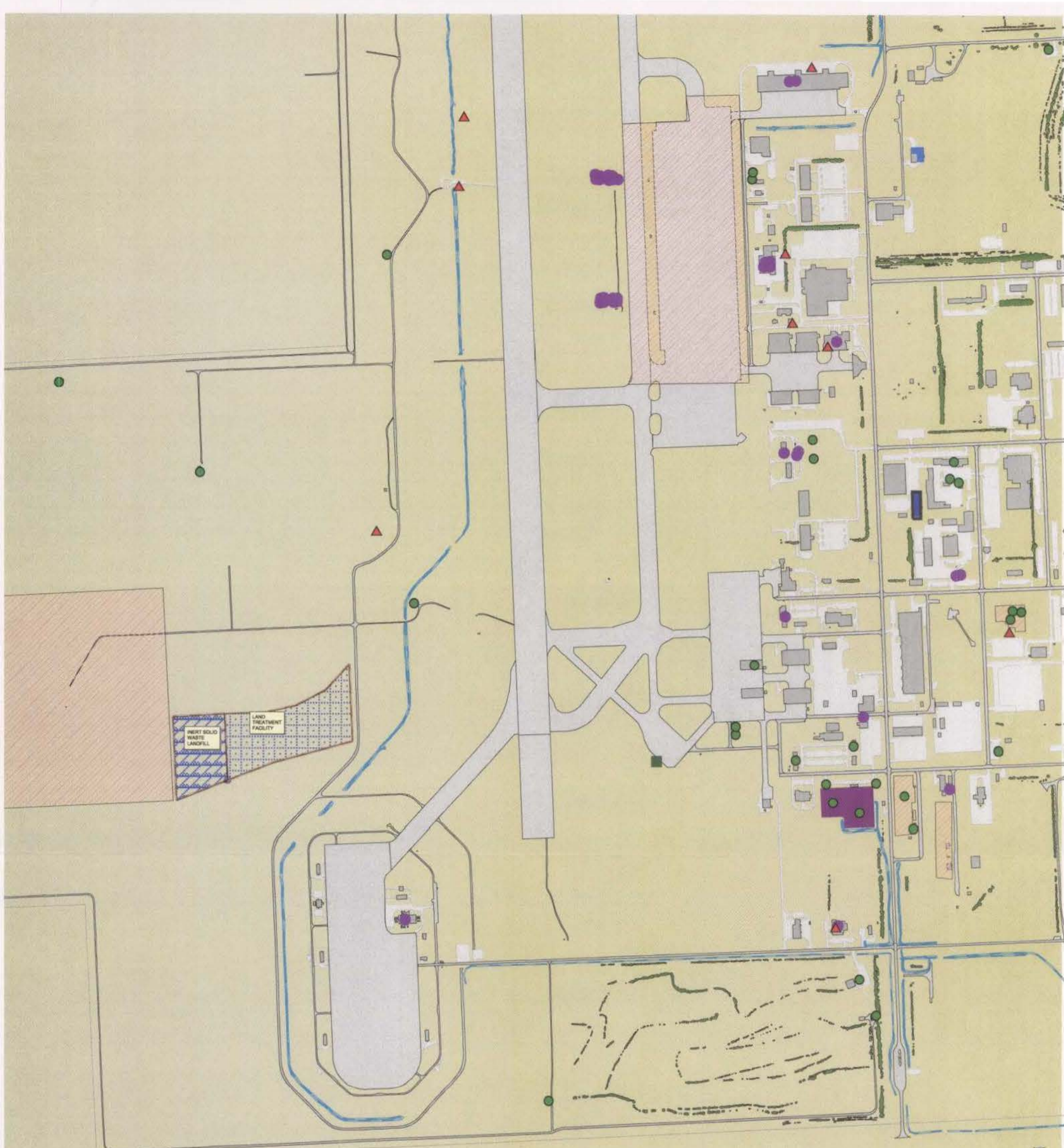
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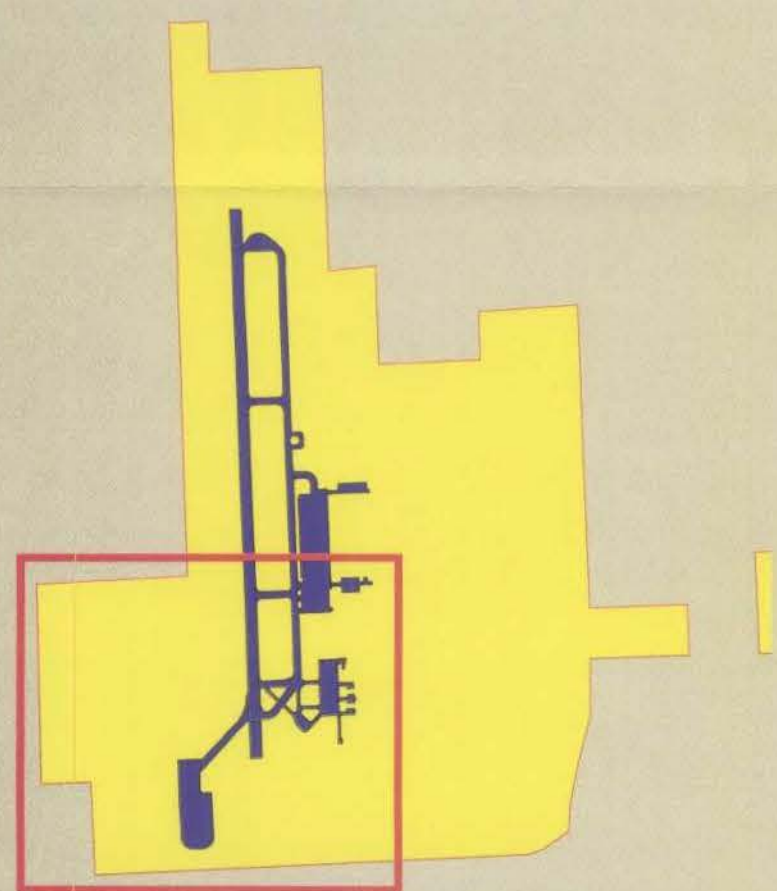


APPENDIX C
ENVIRONMENTAL SITE MAP



Grand Forks AFB Environmental Sites (SW)

- Above Ground Storage Tanks (Fuel)
- ▲ Abandoned Fuel Lines
- ▲ Building 622 - Acid Dip Room
- Helicopter Wash Area
- ▲ Oil/Water Separator
- ▲ Satellite Accumulation Areas (Haz Waste)
- ▲ Scrap Storage Area
- S.H.P.O. (Buildings under consideration)
- ▲ Underground Waste Storage
- Underground Storage Tanks (Fuel)
- Ditches/Streams
- ▨ IRP Sites
- ▤ Landfill Caps
- Trees
- ▤ Wetlands
- ▨ Hydrography-flood zone area
- floodplain zone centroid



APPENDIX D
AF FORM 813

REQUEST FOR ENVIRONMENTAL IMPACT ANALYSIS

Report Control Symbol

RCS: 2004-~~26~~ 099

INSTRUCTIONS: Section I to be completed by Proponent; Sections II and III to be completed by Environmental Planning Function. Continue on separate sheets as necessary. Reference appropriate item number(s).

SECTION I - PROPONENT INFORMATION

1. TO (Environmental Planning Function) 319 CES/CEVA	2. FROM (Proponent organization and functional address symbol) 319 CES/CECP	2a. TELEPHONE NO. 7-4712
---	--	-----------------------------

3. TITLE OF PROPOSED ACTION
CONS FUEL BOWSER STORAGE PAVEMENTS (JFSD200423) and FUEL TANK, LIGHTING& FENCE (JFSD200432B)

4. PURPOSE AND NEED FOR ACTION (Identify decision to be made and need date)
 At the 30 Oct 03 Process Improvement Team (PIT) meeting chaired by the 319 MSG/CC, the construction of a safe and secure hazardous waste containment shelter was recommended to prevent inadvertent fuel discharges from aircraft fuel bowzers. Next pg>

5. DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES (DOPAA) (Provide sufficient details for evaluation of the total action.)
 Construct a new bowser open storage area along B St and near the southern part of the C-Ramp. Install a 6000-gal underground storage tank (UST), security fencing (chain link fence) and lighting necessary to support the new bowser open storage area.

6. PROPONENT APPROVAL (Name and Grade) 1Lt Venus Larson	6a. SIGNATURE 	6b. DATE 20040607
--	---	----------------------

SECTION II - PRELIMINARY ENVIRONMENTAL SURVEY. (Check appropriate box and describe potential environmental effects including cumulative effects.) (+ = positive effect; 0 = no effect; - = adverse effect; U= unknown effect)

	+	0	-	U
7. AIR INSTALLATION COMPATIBLE USE ZONE/LAND USE (Noise, accident potential, encroachment, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. AIR QUALITY (Emissions, attainment status, state implementation plan, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. WATER RESOURCES (Quality, quantity, source, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. SAFETY AND OCCUPATIONAL HEALTH (Asbestos/radiation/chemical exposure, explosives safety quantity-distance, bird/wildlife aircraft hazard, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. HAZARDOUS MATERIALS/WASTE (Use/storage/generation, solid waste, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. BIOLOGICAL RESOURCES (Wetlands/floodplains, threatened or endangered species, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. CULTURAL RESOURCES (Native American burial sites, archaeological, historical, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. GEOLOGY AND SOILS (Topography, minerals, geothermal, Installation Restoration Program, seismicity, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. SOCIOECONOMIC (Employment/population projections, school and local fiscal impacts, etc.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. OTHER (Potential impacts not addressed above.)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SECTION III - ENVIRONMENTAL ANALYSIS DETERMINATION

17. PROPOSED ACTION QUALIFIES FOR CATEGORICAL EXCLUSION (CATEX) # _____ ; OR
 PROPOSED ACTION DOES NOT QUALIFY FOR A CATEX; FURTHER ENVIRONMENTAL ANALYSIS IS REQUIRED.

18. REMARKS
 This action is not "regionally significant" and does not require a conformity determination in accordance with 40 CFR 93.153(1). The total emission of criteria pollutants from the proposed action are below the de minimus thresholds and less than 10 percent of the Air Quality Region's planning inventory.

19. ENVIRONMENTAL PLANNING FUNCTION CERTIFICATION (Name and Grade) WAYNE. A. KOOP, R.E.M., GM-13 Environmental Management Flight Chief	19a. SIGNATURE 	19b. DATE 20 Jul 04
--	--	------------------------

Block 4: Purpose and Need for Action

4.1 Purpose: To provide a secure storage area and place to dump contaminated bowser fuel until it can be properly treated. Currently, there is no specified storage area or proper dumping facility making it difficult for AMXS to have an accountability all their bowser and preventing improper dumping of fuel.

4.2 Need for Action: At the 30 Oct 03, 319 MSG/CC chaired, Process Improvement Team (PIT) meeting; it was reported that 17 bowzers are owned by organizations on GFAFB. The 319 LRS/POL owns 6 bowzers(6 - 400 gallon) and 319 MXG owns 11 bowzers(5 - 400 gallon and 6-600 gallon). The POL-owned bowzers are monitors their location, use and contents. When POL gets a full bowser to be emptied, they pull it to the 605 OWS sanitary sewer site and discharge water until fuel is noticed. Their bowzers contain mostly water from a clarifying tank where fuel water mixture is allowed to separate and water is pumped off the tank bottom. Separated usable fuel is returned to other storage tanks. The AGE owned bowzers are not controlled as to their location, use or contents. When AMXS fills a bowser from sumps, equipment filters etc., they take the bowser to POL to turn in reusable fuel. If uncontaminated (determined by a visual screening), the fuel/water mixture is added to the POL clarifying tank. If rejected, AMXS returns the bowser to the AGE maintenance area and calls CEV to get contract removal of contaminated fuel. CEV arranges contract pickup of fuel/water mix at the AGE maintenance area. A contractor's receipt is received by CEV indicating gallons of waste fuel/water collected. Fuel/water and contaminated fuel disposal process lacks proper accountability, controls, facilities, and personnel training. On 19 Sep 03, during a regularly scheduled cleaning of a storm water oil water separator, 800 gallons of fuel was discovered. The excess amount of fuel was due to unauthorized fuel bowser discharges. There is no existing storage area for the fuel bowzers creating tracking and accountability difficulties. Providing a consolidated and secure storage area will prevent other fuel mishaps from occurring. This is on the year-end list for funding and by order of Col Chine (MSG commander) must be completed as soon as possible.

Block 5: Description of Proposed Action and Alternatives

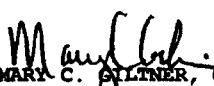
5.1 Proposed Action: Construct a bowser storage near C-Ramp along B-Street. Install the UST near Bldg 501. Construct a new bowser open storage area along B St and near the southern part of the C-Ramp. The storage area pavements will be able to accommodate 15 bowzers. Pavements will be above surrounding surface grade. Space in the pavements for static grounding receptacle and grounding rod for each bowser spot must be allotted. The bowser placements will be configured to allow transportation vehicles to maneuver bowzers in and out of the storage area. Provide secondary containment. For the underground storage tank (UST) near Bldg 501, provide a concrete pad adjacent to the new UST. All necessary excavation, fill and pavement construction will be accomplished as required. Install a 6000-gal underground storage tank (UST), security fencing (chain link fencing) and lighting necessary to support the new bowser open storage area located on B St and near the southern part of the C-Ramp. Install the UST near Bldg 501. Provide a leak detection system and automatic tank gauging. The new UST systems will be connected to existing monitoring systems. Install a grounding system consisting of a grounding static receptacle and grounding rod for each bowser parking space, a total of 15 spaces. The grounding system will also include counterpoise (grounding subsystem) consisting of one closed loop. All necessary excavation, fill, and utility connection will be accomplished as required.

5.2 Alternative 1: Construct a bowser storage facility near Three-Bay (Bldg 649) and also install UST at this location. Same requirements as above.

5.3 No Action Alternative: The fuel bowzers will continue to be difficult to track and fuel bowzers will continue to be at risk of inadvertently dumping hazardous waste. Future unauthorized fuel discharges may violate NPDES permit requirements and EPA regulations.

5.4 Decision: Construct a bowser storage near C-Ramp along B-Street. Install the UST near Bldg 501.

5.5 Permits: None

1. COMPONENT AIR FORCE	FY 2005 PROJECT DATA (computer generated)			2. DATE 4-2-04	
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA			4. PROJECT TITLE CONS FUEL BOWSER STORAGE PAVEMENTS		
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 852-261	7. PROJECT NUMBER JFSD200423	8. PROJECT COST (\$000) EEIC 529 200.0		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES					160.0
CONSTRUCT BOWSER PAD & ACCES ROAD		SM	2,902	55	(160.0)
SUBTOTAL					160.0
PROFIT AND OVERHEAD (25 %)					40.0
TOTAL FUNDED COST					200.0
UNFUNDED COST (0 %)					0.0
TOTAL REQUEST					200.0
10. Description of Proposed Work: Construct a new bowser open storage area along B St and near the southern part of the C-Ramp. The storage area pavements will be able to accommodate 15 bowzers. Pavements will be above surrounding surface grade. Space in the pavements for static grounding receptacle and grounding rod for each bowser spot must be allotted. The bowser placements will be configured to allow transportation vehicles to maneuver bowzers in and out of the storage area. Provide secondary containment. For the underground storage tank (UST) near Bldg 501, provide a concrete pad adjacent to the new UST. All necessary excavation, fill and pavement construction will be accomplished as required.					
11. Requirement: As Required.					
<u>PROJECT:</u> CONS BOWSER PAVEMENTS. This project is a companion project to JFSD200423B, CONS FUEL BOWSER STORAGE TANK, LIGHTING & FENCE.					
<u>REQUIREMENT:</u> At the 30 Oct 03 Process Improvement Team (PIT) meeting chaired by the 319 MSG/CC, the construction of a safe and secure hazardous waste containment shelter was recommended to prevent inadvertent fuel discharges from aircraft fuel bowzers.					
<u>CURRENT SITUATION:</u> On 19 Sep 03, during a regularly scheduled cleaning of a storm water oil water separator, 800 gallons of fuel was discovered. The excess amount of fuel was due to unauthorized fuel bowser discharges. There is no existing storage area for the fuel bowzers creating tracking and accountability difficulties.					
<u>IMPACT IF NOT PROVIDED:</u> The fuel bowzers will continue to be difficult to track and fuel bowzers will continue to be at risk of inadvertently dumping hazardous waste. Future unauthorized fuel discharges may violate NPDES permit requirements and EPA regulations.					
<u>ADDITIONAL:</u> For the bowser storage area, the grounding system must be in place before the concrete is poured. The ground receptacle will be flush-mounted with the pavements. The counterpoise must be below the concrete pavement layer.					
 MARY C. GALTNER, CE-13, DAFC Deputy Base Civil Engineer					

1. COMPONENT AIR FORCE	FY 2005 PROJECT DATA (computer generated)			2. DATE	
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA			4. PROJECT TITLE CONS FUEL BOWSER STORAGE TANK , LIGHTING & FENCE		
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 872-248	7. PROJECT NUMBER JFSD200423B	8. PROJECT COST (\$000) EEIC 529 223		
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT	COST
PRIMARY FACILITIES					147.8
DROP TANK		EA	1	48,400	(48.4)
LIGHTING/GROUNDING		LS			(60.5)
FENCING		LS			(38.9)
SUPPORTING FACILITIES					30.6
SITE PREPARATION		LS			(30.6)
SUBTOTAL					178.4
PROFIT AND OVERHEAD (25 %)					44.6
TOTAL FUNDED COST					223.0
UNFUNDED COST (0 %)					0.0
TOTAL REQUEST					223.0
10. Description of Proposed Work: Install a 6000-gal underground storage tank (UST), security fencing and lighting necessary to support the new bowser open storage area located on B St and near the southern part of the C-Ramp. Install the UST near Bldg 501. Provide a leak detection system and automatic tank gauging. The new UST systems will be connected to existing monitoring systems. Install a grounding system consisting of a grounding static receptacle and grounding rod for each bowser parking space, a total of 15 spaces. The grounding system will also include counterpoise (grounding subsystem) consisting of one closed loop. All necessary excavation, fill, and utility connection will be accomplished as required.					
11. Requirement: As Required.					
<u>PROJECT:</u> CONS FUEL BOWSER STORAGE TANK, LIGHTING & FENCE. This project is a companion project to JFSD200423, CONS FUEL BOWSER STORAGE PAVEMENTS.					
<u>REQUIREMENT:</u> At the 30 Oct 03 Process Improvement Team (PIT) meeting chaired by the 319 MSG/CC, the construction of a safe and secure <u>hazardous waste</u> containment shelter was recommended to prevent inadvertent fuel discharges from aircraft fuel bowzers.					
<u>CURRENT SITUATION:</u> On 19 Sep 03, during a regularly scheduled cleaning of a storm water oil water separator, 800 gallons of fuel was discovered. The excess amount of fuel was due to unauthorized fuel bowser discharges. There is no existing storage area for the fuel bowzers creating tracking and accountability difficulties.					
<u>IMPACT IF NOT PROVIDED:</u> The fuel bowzers will continue to be difficult to track and fuel bowzers will continue to be at risk of inadvertently dumping <u>hazardous waste</u> . Future unauthorized fuel discharges may violate NPDES permit requirements and EPA regulations.					
<u>ADDITIONAL:</u> For the bowser storage area, the grounding system must be in place before the concrete is poured. The ground receptacle will be flushed with the pavements. The counterpoise must be below the concrete pavement layer.					

1. COMPONENT AIR FORCE	FY 2005 PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		4. PROJECT TITLE CONS FUEL BOWSER STORAGE TANK , LIGHTING & FENCE	
5. PROGRAM ELEMENT 41976	6. CATEGORY CODE 872-248	7. PROJECT NUMBER JFSD200423B	8. PROJECT COST (\$000) EEIC 529 223

MARY C. GILTNER, GM-13, DAFC
Deputy Base Civil Engineer

Waste Fuel/Water Discharges

Environmental Management Recommendation

(DRAFT)

Description:

During a regularly scheduled cleaning (19 Sep 03) of storm water oil water separator (OWS) 981, approximately 800 gallons of fuel were discovered. Previous inspection (14 Aug 03) indicated that approximately 180 gallons of fuel could be expected when the cleaning occurred. An investigation was initiated to determine the source of the fuel. Results of the information gathering effort indicate that several bowzers containing a combination of fuel and waste water were inadvertently discharged into the storm water inlet near Bldg 605 instead of the OWS 605 sanitary sewer located adjacent to the storm water inlet.

No fuel was released to the environment. Violation of the installation NPDES permit did not occur. The North Dakota Department of Health considers the incident to have been contained on the installation and requires no regulatory action.

Background:

At the 30 Oct 03, 319 MSG/CC chaired, Process Improvement Team (PIT) meeting; it was reported that 17 bowzers are owned by organizations on GFAFB. The 319 LRS/POL owns 6 bowzers(6 – 400 gallon) and 319 MXG owns 11 bowzers(5 – 400 gallon and 6 – 600 gallon). The POL owned bowzers are monitored as to their location, use and contents. When POL gets a full bowser to be emptied, they pull it to the 605 OWS sanitary sewer site and discharge water until fuel is noticed. Their bowzers contain mostly water from a clarifying tank where fuel water mixture is allowed to separate and water is pumped off the tank bottom. Separated usable fuel is returned to other storage tanks. The AGE owned bowzers are not controlled as to their location, use or contents. When AMXS fills a bowser from sumps, equipment filters etc., they take the bowser to POL to turn in reusable fuel. If uncontaminated (determined by a visual screening), the fuel/water mixture is added to the POL clarifying tank. If rejected, AMXS returns the bowser to the AGE maintenance area and calls CEV to get contract removal of contaminated fuel. CEV arranges contract pickup of fuel/water mix at the AGE maintenance area. A contractor's receipt is received by CEV indicating gallons of waste fuel/water collected.

Cause: Fuel/water and contaminated fuel disposal process lacks proper accountability, controls, facilities, and personnel training.

Contributing Factors:

At the PIT, the following contributing factors were cited:

- 1) Accountability. No process exists to provide positive control for bowzers or fluid contained within the bowzers.

- 2) Signage. The proper discharge location for bowser waste water lacks signage. The 4 potential discharge points at the site are in a linear configuration which can cause inexperienced personnel to inadvertently discharge to the wrong OWS system.
- 3) Infrastructure. The OWS systems are designed as a “fail safe” not an integral part of the fuel reclamation process as they are currently being used. A fuel reclamation facility is lacking.
- 4) Training. Formal training is not conducted/documented for the proper disposal of neither bowser waste water nor fluids rejected by POL.

Recommendations:

Recommendations to improve the process and prevent recurrence are divided into short and long term actions.

Short Term

- 1) Install appropriate signage at the correct discharge point near Bldg 605 for bowser waste water. OPR: CES/CEV ECD: 10 Dec
- 2) Provide easy/convenient access to the proper discharge site. Replace heavy iron manhole cover with light weight aluminum and provide ramp over to easily reach the drop point. OPR: CES/CEV ECD: Jan 04
- 3) Develop/publish/implement ARW OI to include appropriate procedures for notification, accountability and positive control of bowzers and the contained waste fuels. System elements should include fluid source, bowser identification, quantity of fluid, type of fluid, and final destination/disposition. Lock out/tag out” procedures for bowzers containing fluids rejected during the reclamation process. Procedure must include method by which a bowser is identified as having a rejected product and an area for the bowzers to be parked until the waste fuel/oil contractor can remove rejected fluid. OPR: LRS/POL OCR: AMXS, MXS/AGE ECD: 10 Dec 03
- 4) Train all LRS/POL personnel on the proper discharge point for bowser waste water/QA flash notification for AMXS personnel to avoid emptying bowzers. Training must be “hands on” and documented in training records. OPR: LRS/POL OCR: CES/CEV, AMXS ECD: Jan 04

Long Term

- 1) Continue short term recommendations. Regularly review procedures with PIT members to identify and implement improvements. OPR: AMXS, LRS/POL, CES/CEV OCR: CEOIF ECD: Open
- 2) Isolate the fuel reclamation process from the base sewer system. Construct infrastructure projects developed in coordination with bowser custodians/users. Projects will include a contact water/waste underground storage tank at POL and bowser storage/control facility at AMXS with integral secondary containment.
 - a. Contact Water/Waste Product UST. A contact water/waste fuel UST allows operators to isolate waste fuel disposal process from utility infrastructure and ensure positive control of bowser waste water and rejected fluids. AMXS personnel will deliver bowzers containing fuel to be reclaimed or contaminated fuels to be disposed to POL. POL will deposite fluids into fuel reclamation tank or into a second contractor serviced waste/contaminated fuel tank (to be

constructed). Work order for Waste contaminated fuel drop tank to be submitted.
OPR: LRS/POL OCR: CES/CEV ECD: Aug 05

- b. Construct bowser storage facility to aid in bowser control/accountability and provide required secondary spill containment. Work order for bowser storage to be submitted. OPR: AMXS OCR: CES/CEV ECD: Aug 06

ATTATCHMENT 4

Fire Prevention comments

United Facilities Criteria 3-600-1, Chap 6

6-11.7

“Outdoor Storage Limitations and Separation. Flammable and combustible liquid outdoor storage includes any storage that is covered by a roof to provide weather protection for containers. The same area may have one or two (but no more than two) walls. Flammable and combustible liquid outdoor storage area must not be more than 122m long or wide (400ft) and each area must be separated by 30.5m (100ft). No container or portable tank in a pile must be more than 61m (200ft) from a 12.2m (40ft) wide minimum fire lane to permit approach of fire control apparatus under all weather and ground surface conditions. Fire hydrants must be located in accordance with the NFPA, but must not be more than 61m (200ftA) apart.”

The limitation of only two walls is for weather protection, securing the other two sides could be done with chain link fence and gate.

NFPA 30, Flammable and Combustible Liquids Code, Chap 4

4.7.3

The storage area shall be graded in a manner to divert possible spills away from buildings or other exposures or shall be surrounded by a curb at least 6 in. (150 mm) high. Where curbs are used, provisions shall be made for draining of accumulations of groundwater or rainwater or spills of liquids. Drains shall terminate at a safe location and shall be accessible to operation under fire conditions.

4.7.4

The storage area shall be protected against tampering or trespassers where necessary and shall be kept free of weeds, debris, and other combustible materials not necessary to the storage.

4.7.5

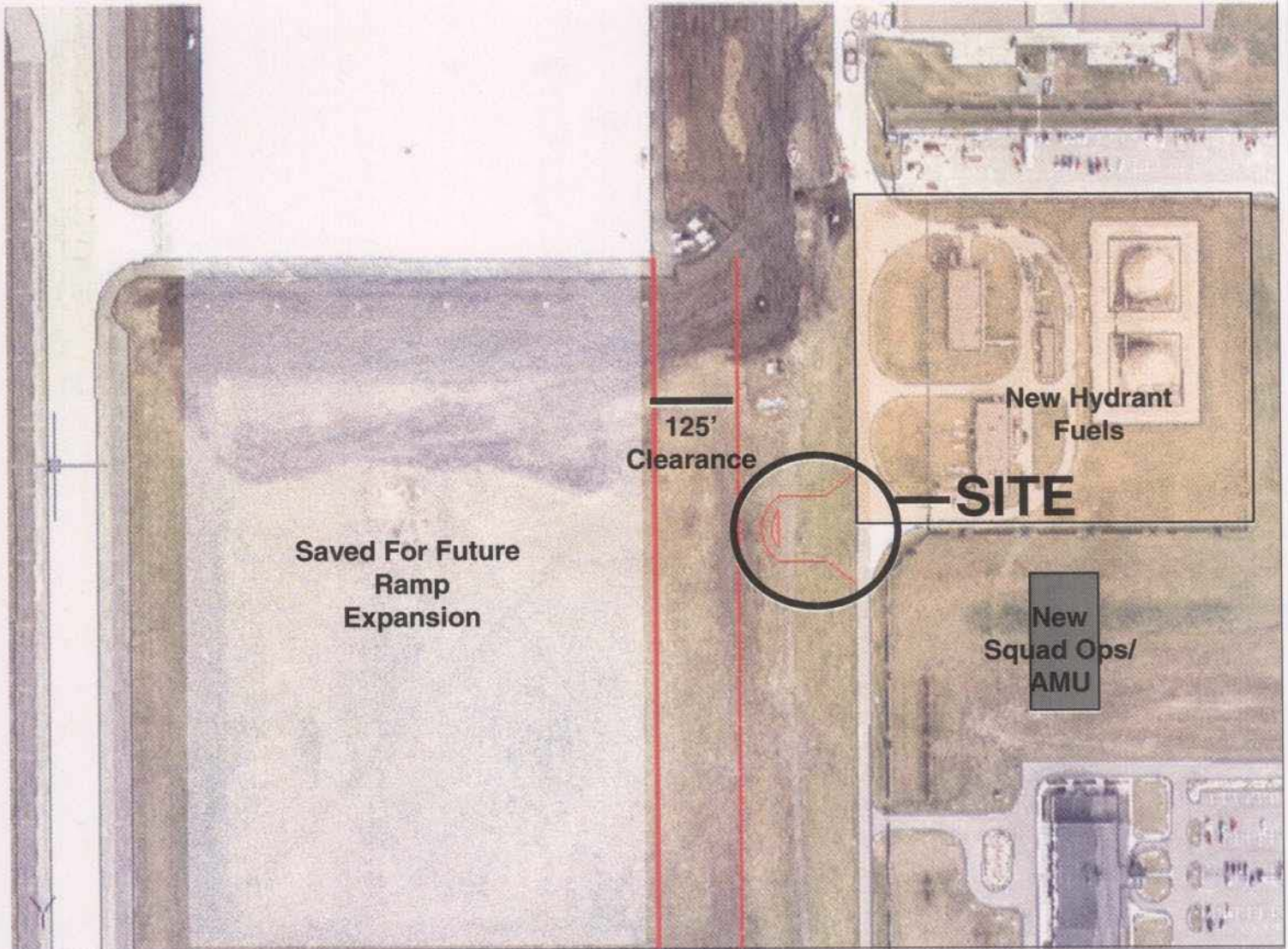
Outdoor storage of containers that are protected from the weather by a canopy or roof that does not limit the dissipation of heat or dispersion of flammable vapors and does not restrict fire-fighting access and control shall be treated as outside storage in accordance with this section and shall not be considered an inside storage area subject to the requirements of Section 4.4.

**APPENDIX E
LOCATION MAP
FUEL BOWSER STORAGE AREA**

1. COMPONENT AF (AMC)	FY 2005 MILITARY CONSTRUCTION DATA	2. DATE 26 Feb 04
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3. INSTALLATION AND LOCATION GRAND FORKS AFB, NORTH DAKOTA

4. PROJECT TITLE CONS BOWSER STORAGE FACILITY	5. PROJECT NUMBER JFSD200423
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SITE PLAN



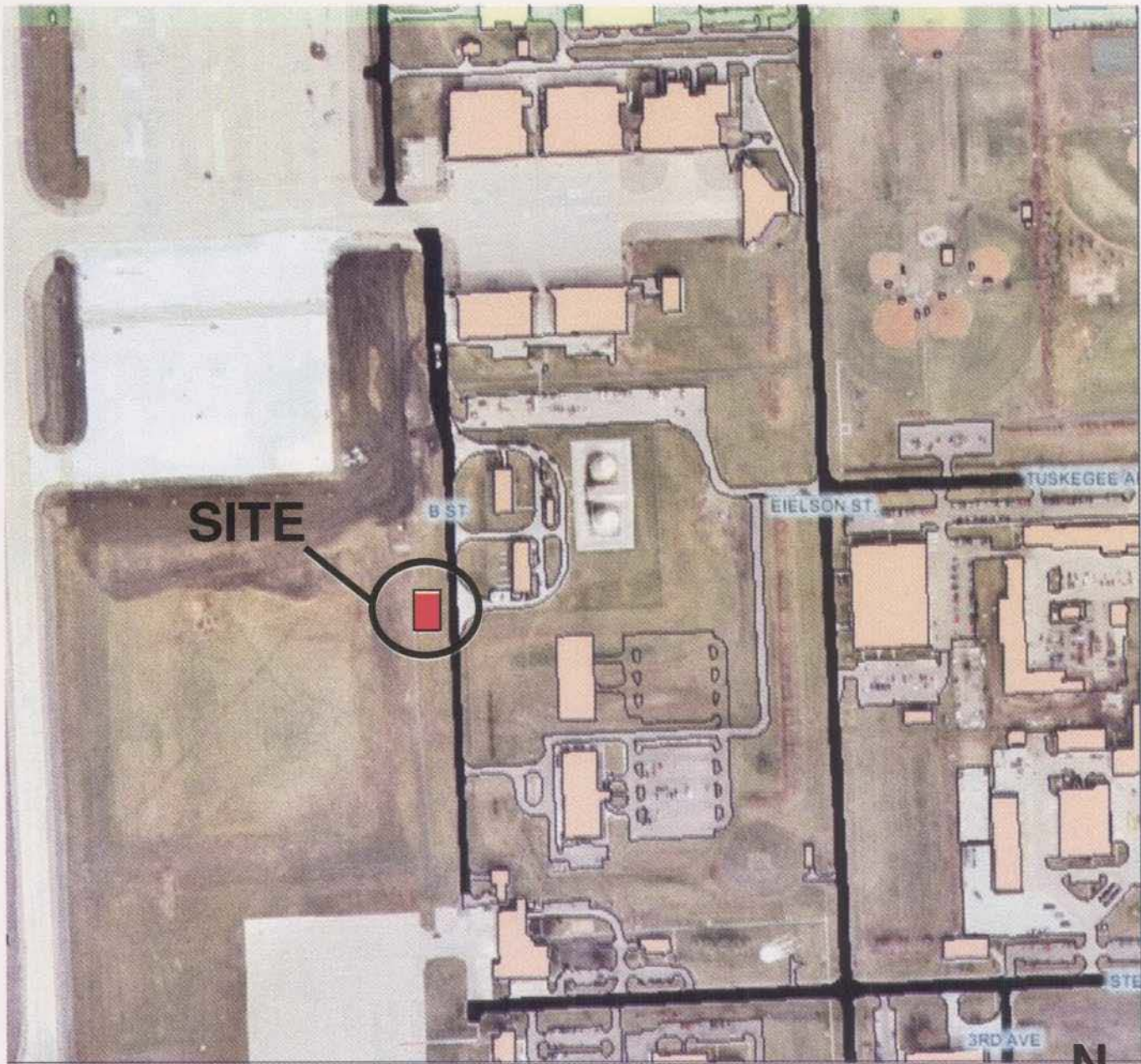
FACILITY BOARD APPROVAL

DATE

1. COMPONENT AF (AMC)	FY 2005 MILITARY CONSTRUCTION DATA	2. DATE 26 Feb 04
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3. INSTALLATION AND LOCATION GRAND FORKS AFB, NORTH DAKOTA

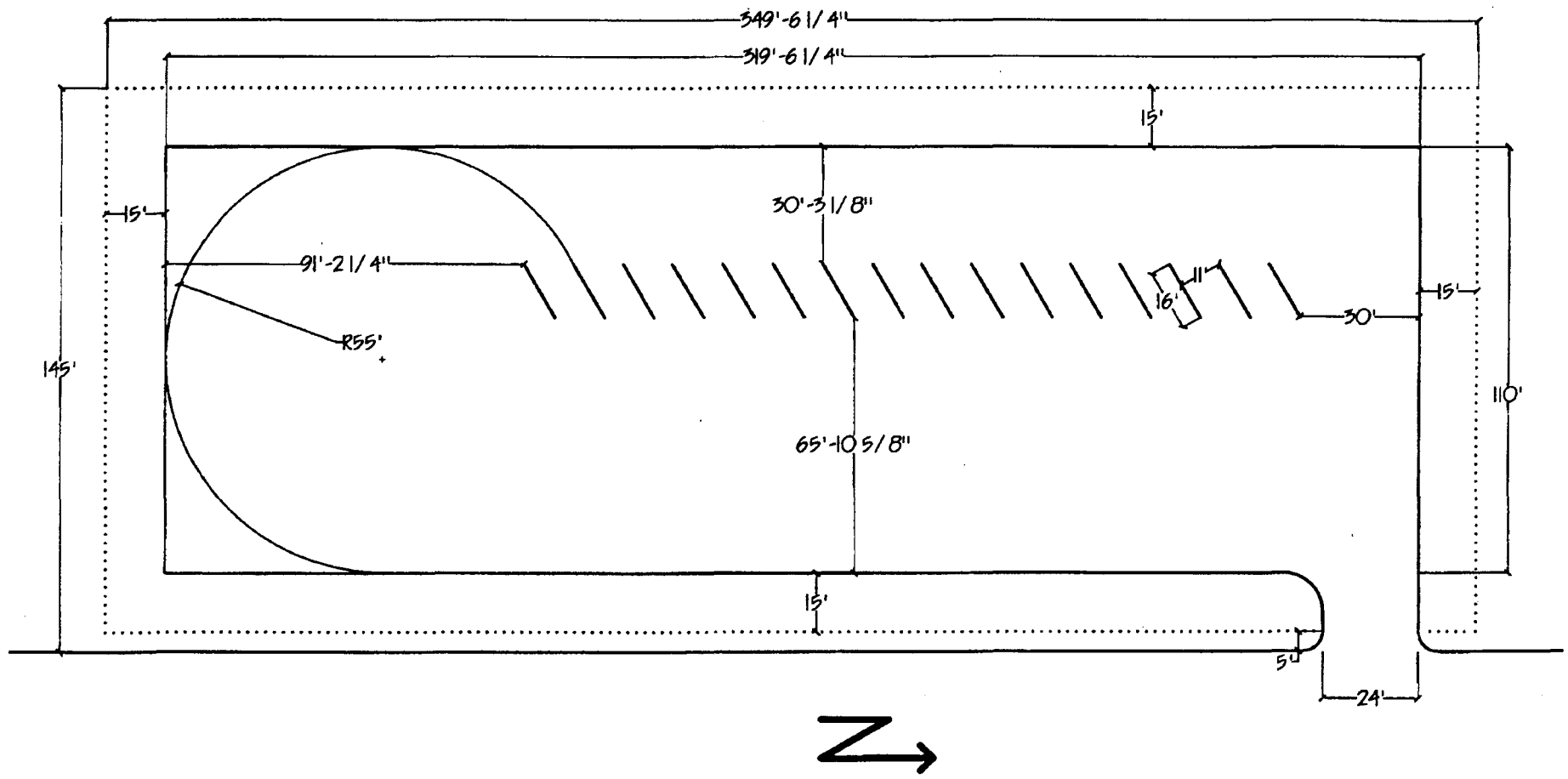
4. PROJECT TITLE CONS BOWSER STORAGE FACILITY	5. PROJECT NUMBER JFSD200423
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LOCATION PLAN



2014 11 11



**APPENDIX F
LOCATION MAP
UNDERGROUND STORAGE TANK**

1. COMPONENT AF (AMC)	FY 2005 MILITARY CONSTRUCTION DATA	2. DATE 18 Mar 04
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3. INSTALLATION AND LOCATION
GRAND FORKS AFB, NORTH DAKOTA

4. PROJECT TITLE CONS BOWSER PAVEMENTS & TANK	5. PROJECT NUMBER JFSD200423
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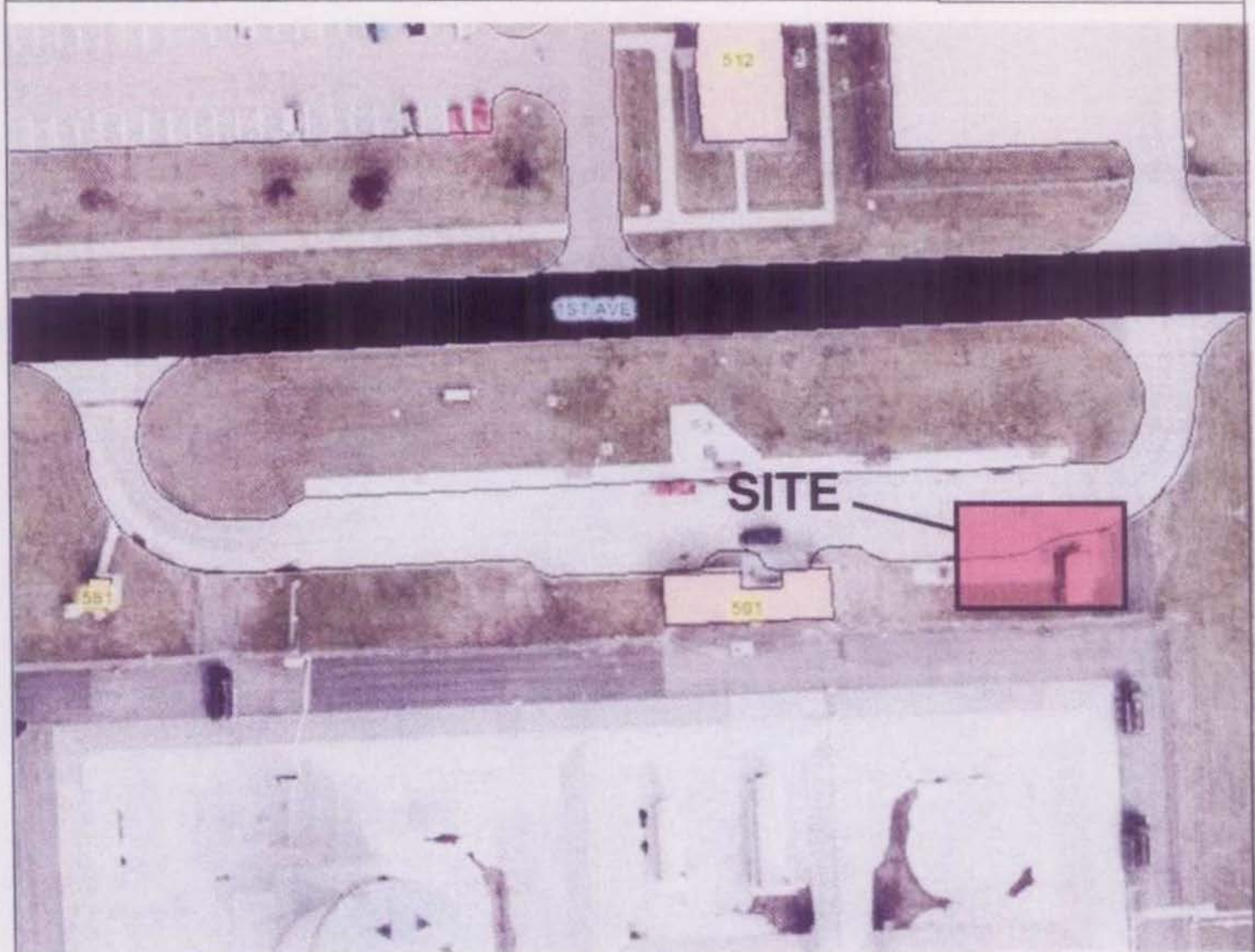


LOCATION PLAN

1. COMPONENT AF (AMC)	FY 2005 MILITARY CONSTRUCTION DATA	2. DATE 18 Mar 04
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3. INSTALLATION AND LOCATION
GRAND FORKS AFB, NORTH DAKOTA

4. PROJECT TITLE CONS BOWSER PAVEMENTS & TANK	5. PROJECT NUMBER JFSD200423
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SITE PLAN

FACILITY BOARD APPROVAL

DATE

DEPARTMENT OF THE AIR FORCE

HEADQUARTERS 319TH AIR REFUELING WING (AMC)
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA



12 October 2004

MEMORANDUM FOR 319 CES/CEV

FROM: 319 ARW/JA

SUBJECT: Full Bowser Containment EA/FONSI

1. I reviewed the Environmental Assessment (EA) and Findings of No Significant Impact (FONSI) for the above-referenced project. The proposed EA and FONSI are both legally sufficient and comply with the requirements of 32 CFR Part 989. I recommend that Mr. Koop approve the FONSI.
2. The EA contains the need for the proposal, alternatives to the proposal, environmental impacts of the proposed action and alternatives, and a listing of agencies and persons consulted for EA preparation. The EA and FONSI were made available for public comment in the *Grand Forks Herald* (3 August 2004) and *The Leader* (3 September 2004). Comments from the North Dakota Department of Health, North Dakota Department of Game and Fish, and the State Historical Society all suggest no adverse impact on the environment. From a legal perspective the projects does not have a significant environmental impact. Therefore, the EA is legally sufficient and a FONSI is appropriate.
3. If you have any questions about these comments, please contact me at 7-3606.

A handwritten signature in black ink, appearing to read "Mark W. Hanson".

MARK W. HANSON, GS-12, DAF
Chief, General Law

be. Tonight: it's your call.

414

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Air Force Base
Public Notification
Grand Forks Air Force Base has proposed the construction of an underground fuel-water recovery storage tank with security fencing and lighting and a paved open storage area for fuel bowzers on Grand Forks AFB.
An environmental assessment has been conducted and a finding of no significant impact has been determined for this action.
Anyone who would like to view the support documents to this action should contact the 319th Air Refueling Wing Public Affairs Office within the next 30 days at 747-5017.

NOTICE

Advertisements are

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AFFIDAVIT OF PUBLICATION

STATE OF NORTH DAKOTA } SS.
COUNTY OF GRAND FORKS }

Julie of said State and County being first duly sworn, on oath says:

That she is { a representative of the GRAND FORKS HERALD, INC.,

publisher of the Grand Forks Herald, Morning Edition, a daily newspaper of general circulation, printed and published in the City of Grand Forks, in said County and State, and has been during the time hereinafter mentioned, and that the advertisement of widgerground fuel water recovery + construction parking lot

a printed copy of which is hereto annexed, was printed and published in every copy of the following issues of said newspaper, for a period of 2 time (s) to wit:

Aug. 3 Yr. 2004 Yr. _____
Aug. 5 Yr. 2004 Yr. _____
Yr. _____ Yr. _____
Yr. _____ Yr. _____

and that the full amount of the fee for the publication of the annexed notice inures solely to the benefit of the publishers of said newspaper; that no agreement or understanding for a division thereof has been made with any other person and that no part thereof has been agreed to be paid to any person whomsoever and the amount of said fee is \$ 250.16;

That said newspaper was, at the time of the aforesaid publication, the duly elected and qualified Official Newspaper within said County, and qualified in accordance with the law of the State of North Dakota to do legal printing in said County and State.

Publication Fee \$ \$250.16
614008 - \$136.88
614014 - \$113.28

ELAINE FAWCETT
NOTARY PUBLIC
STATE OF NORTH DAKOTA
My Commission Expires: Feb. 7, 2007

Subscribed and sworn to before me this 23 day of

Aug A.D. 04
Elaine Fawcett
Notary Public, Grand Forks, ND

DIRECTORY OF SERVICES

Precision Surface Repair & Refinishing. Services for bathtubs, sinks, tile and countertops. 775-0881

Black Dirt
Black Dirt, \$10/yd. Gravel, rock, fill, sand. Delivery Mon.-Sun. 795-5605 or 741-6621.

JETS BLACK DIRT - 3 yds \$40, 6 yds \$60; road gravel. 775-2825.

MAINTENANCE FREE Kroy decks, porch rails & fences installed by experts. A & L Siding, 775-0980.

KC ELECTRIC Residential/commercial wiring, 24 hour, free estimates. 218-773-0070 or 741-7649.

Painting
Paint, tape, texture, wallpaper. 40 yrs experience. Dick Middleton, 775-2150.

Painting, Landscaping & more. Big jobs or small. 701-740-2643.

Mike Grzadzieski. Professional painting. Insured. Call 741-9050

JERRY MIDDLETON - the mud & paint man. 739-2461 or 772-0339.

RESUMES & MORE Re-opening Sept. 1. Call 775-4744.

Window Service

Renewal by Andersen windows sold/installed by experts. A&L Siding, 775-0980.

Sterling Seamless Siding. Vinyl replacement windows. 780-9894.

DON'S ABC - Vinyl replacement or new construction. 746-7246.

HELINE BIGAR HOROSCOPE

Today: comes down. Express your creativity and willingness. Tonight:

455

EXCELLENT

GF APAR Available 9/1. room, no pets, for couple to apt. and to d maintenance. 701-780-9152.

5 BEDROOM, townhome, 12 air, off street parking. \$1000/mo. + tax. Available Aug. 701-740-9687.

LARGE 1 be available Aug. 2 den level, corner access, no pets. So. 17th St., 775

1 BED efficient downtown, water \$175/mo. F 775-2120/787-58

SPACIOUS 2 room, 2nd floor downtown. Avg Sept. 1. Call 746-

NICE 1 bedroom floor in northend 775-4455.

1 BEDROOM lot Residential set Very quiet. 701-740-5151.

414 Notices

Air Force Base

Public Notification Grand Forks Air Force Base has proposed the construction of an underground fuel-water recovery storage tank with security fencing and lighting and a paved open storage area for fuel bowlers on Grand Forks AFB. An environmental assessment has been conducted and a finding of no significant impact has been determined for this action.

Anyone who would like to view the support documents to this action should contact the 319th Air Refueling Wing Public Affairs Office within the next 30 days at 747-5017.

NOTICE

Advertisements are the property of the Grand Forks Herald and/or its advertisers and are subject to contracts between them. The classified listings and individual advertisements are subject to the copyright in this edition of the Grand Forks Herald, owned by the Grand Forks Herald and/or to copyright interests owned by its advertisers and/or the Grand Forks Herald. Reproduction, display, transmission or distribution of the listings or individual advertisements in any format without express permission of the Grand Forks Herald and/or its advertisers is prohibited.

415-Farm Equipment

RESTORED 1938 B Allis Chalmers tractor with trailer & plow, \$2800; 218-773-9646.

CHECK THE CLASSIFIEDS EVERY DAY!

We Have a Suggestion Some people don't worry about inflation ... but if you could use a little extra cash in your life, we have a suggestion for you! A low cost ad in the Classified columns of the Grand Forks Herald will help you find a cash buyer for those still good but no longer used items you've been storing in your home.

H International tractor, loader, snow trip bucket, \$1300. 8N Ford, 5' Brushog mower, \$2300; 218-689-0200.

427-Horses

355 Sporting Goods

2000 Electric Golf Cart, \$1900. Will include \$500 of Valley stock. 701-780-9156 or 740-0570.

360 Tickets

2 - RESERVED We Fest lawn tickets, Section 4, Row 19. Call 218-773-1060

1 VIP We Fest Ticket, \$400/offer; Call 218-779-0465

5 individual camping at Lake Sallie, \$55/each. Call 218-281-1855.

2 - 4 day tickets to Bayfront Blues Festival in Duluth, 8/12-8/15, \$60. 701-775-3624

VIKINGS tickets (8) vs. Cardinals, Cowboys, Bears, Titans, \$30-95; 608-274-5590.

365 Trailer

KAR KADDY A-1 shape, 2 sets of straps, \$950; Call 701-521-0085.

BIG TEX Utility trailers. 949 2nd Ave No., Garden Hut, 775-3191.

Pets & Supplies

403 Dogs/Puppies

RAT TERRIER puppy, male, 10 weeks old, shots, wormed, very cute, \$125. Call 701-746-4035

PUREBRED German Shepherd puppies, 6 weeks old, asking \$300; 218-681-1339.

RAT TERRIERS purebred, 6 weeks, family raised, excellent disposition, shots, wormed, dewts, tails, fantastic markings, \$125; 218-253-2319

AKC Chihuahua, neutered, 18 months old, asking \$200; 218-281-4454.

AKC BICHON Male Puppy, 8 weeks old, \$500. Call (701) 894-6267.

410 Lost & Found

LOST In 53rd St. N. area: Black cat with white chest & white left paw. 775-9799.

LOST: SW of Fisher - Adult cat, long hair, black, missing 1/2 tail.

260 YMCA

Swim instructors. Apply in person.

HOME HELPERS, a provider of non-medical, home care is hiring caregivers to work with individuals needing assistance in daily living. Full time, part time & flexible hours are available. Applications available at 215 N. 3rd St., Suite 202C.

CROOKSTON

Looking for added income? Early morning hours, be done and on your way to work, school or bed by 6:30 AM weekdays, 7 AM weekends. No collecting. Be your own boss, start when you want as long as you're done on time. If you're up at night, just getting off a split shift, early riser ...you're the person we're looking for. Newspaper delivery persons needed for Crookston. Routes available in the following areas: Woodland Ave., Minnesota St., Hubbard, Crookston Mill, and Nelson St. Call Tom today for more information: 800-477-6572 ext. 209. Grand Forks Herald

Fleet Maintenance

Technician/Bus Operator \$12.72 per hour plus benefits

The Grand Forks Public Transportation Division seeks a qualified individual to assist in the maintenance and repair of City vehicles and equipment; monitor parts inventory and shop supplies; and to act as a fill-in bus driver as necessary. Position requires two years experience in the maintenance

260 Evenings/Weekends.

Need political petition signature gatherers. 701-885-1555.

WORK in grain elevator. Full time with benefit package. Call W a y n e @ 701-966-2515.

LABORERS WANTED. Call 701-594-3385.

Red Ray Lanes NOW HIRING for the lounge & lanes. Apply in person. EOE.

Need Extra College Money?

Skip the Fall Semester Seasonal Full Time Employment

Surveyor's Assistants and Construction Inspectors for various civil engineering projects. Some previous construction experience desired, but not necessary. Pay dependent upon experience. Interested applicants should contact Doug or Sandy at CPS, Ltd., 746-7459.

General West Coast

Beauty Systems Part time Over the Counter Sales Assistant needed for our Grand Forks Store. Some beauty background helpful. Must be available on Saturdays. Apply 2650 32nd Ave. S., Grand Forks, ND 58201.

TAFT GRAIN ELEVATOR of Hillsboro is looking for a sanitation specialist duties in

265 SECRETARY needed

for Railcar Company, full time, start immediately. 218-773-1964 ask for Kristi

FULL TIME Bookkeeper, some Saturday, full vacation, benefits, profit sharing. Computer & office equip. experience needed. Send resume to Box 83, C/O GF Herald, 375 2nd Ave No., Grand Forks, ND 58203

267 HVAC and Plumbing

Service Technician. Experience plumbing and heating service technician wanted. Wages dependent on experience. Holidays, vacation, retirement, and medical insurance benefits available. Send resume to or apply at Lee Plumbing & Heating in Thief River Falls, MN or call 218-681-1903

Use the Coupon in today's Classifieds or call 780-1150 or 1-800-477-6572, ext. 150 for assistance with your ad.

Second or Third year Plumbing Apprentice. We are looking for a second or third year plumbing apprentice to join our work force. Need to be experienced in plumbing installations for commercial and residential buildings. Salary dependent on experience. Benefits include holiday, vacation, retirement, and medical insurance. Send resume to Lee Plumbing & Heating at 1430 North Main Ave in Thief River Falls, MN or call 218-681-1903

268 Professional

268 SERVICE ADVISOR

automotive background, excellent customer / communication skills. 11am-7pm shift, base pay plus commission. Apply in person at Demers Interstate Amoco.

Industrial Builders, Inc. is taking applications for a Surveyor/Project coordinator. This position is full time and is located @ the Mt. Carmel Dam in Langdon, ND. Minimum 3 years experience is required, must start immediately. Top wages, per diem and benefits. Contact Roger at: (701) 282-4977 or send resume to: P.O. Box 406 Fargo, ND 58107 or apply on-line @ www.industrialbuilders.com EEO M/F/H

OSLO CLERK TREASURER position open. A full time Clerk / Treasurer position is open in Oslo, MN. Must have experience in accounting, computer, and general office. Application and job description can be picked up at the city office or call (218) 695-3841. City applications and resume are required. Salary is \$7.30/hour with benefits, depending on experience. Deadline: Aug. 3, 2004.

The City of Oslo is an Equal Opportunity Employer

270 Restaurant

GOOD FRIENDS Larimore is looking for experienced Bartenders and Servers for 2 shifts. "Meet me at Good Friends" 701-343-2987.

270 Restaurant

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270 Restaurant

GOOD FRIENDS Larimore is looking for experienced Bartenders and Servers for 2 shifts. "Meet me at Good Friends" 701-343-2987.

Available 1s

Week in Septer 2 bedrooms, second, offstreet parking with plug-ins, controlled access, no 2323 So. 17th St. 775-7684.

1, 2 & 3 Bedroom a Variety of locations. Call 775-2005 www.dakprop.com

All Utilities Paid 1 Bedroom at \$410-\$440, no pet. Available immediately. Call 701-775-2790.

4 PLEX - 2 bedrooms no smoking, no pet. 4802 6th Ave. No. Call 746-6563.

2 BEDROOM in plex, \$425/mo. Water garbage paid. Aug. 775-2198 or 787-038

3 BED, EGF, 2 laundry hook-ups, private entrance, water paid, \$600/701-741-171

You Still Have Time!

1 & 2 Beds available 9/1 & 10/1. Won't last 780-2090. EHO.

NEW OPENING SOON

South Hampton Townhome Apts.

- Private entrance
- 2 bed, 2 bath
- Double garage with opener
- Wood flooring
- Washer/dryer
- Built-in microwave
- Much more!

Call Hampton Mgmt 775-5544 NO PETS ALLOWED

News Briefs

Highway 2 construction

The North Dakota Department of Transportation will remove the railroad tracks on Highway 2, just East of the South Gate, (Commercial Gate) Tuesday and Wednesday. Traffic speeds will be reduced to 25 mph and flag men will be present. Motorists are urged to be cautious.

Public notice

Grand Forks Air Force Base has proposed the construction of an underground fuel-water recovery storage tank with security fencing and lighting and a paved open storage area for fuel bowsers on Grand Forks AFB.

An environmental assessment has been conducted and a finding of no significant impact has been determined for this action.

Anyone who would like to view the support documents to this action should contact the 319th Air Refueling Wing Public Affairs Office within the next 30 days at 747-5017.

JCAHO public notice

The Joint Commission on Accreditation of Healthcare Organizations conducts a survey of the 319th Medical Group from Sept. 13 - 17.

The purpose of the survey is to evaluate the Group's compliance with nationally established Joint Commission standards. The survey results are used to determine whether, and the conditions under which, accreditation should be awarded to the organization.

Joint Commission standards deal with organizational quality of care issues and the safety of the environment in which care is provided. Anyone believing he or she has pertinent and valid information about such matters may request a public information interview with the Joint Commission's field representatives at the time



Photo by Airman 1st Class Patricia Clarke

Sharing the chores

Brett Richmond ensures his dad, Tech. Sgt. Bryan Richmond, 319th Security Forces Squadron, doesn't miss any spots in the yard Saturday.

of the survey. Information presented at the interview will be evaluated for relevance to the accreditation process. Requests for a public information interview must be made in writing and should be sent to the Joint Commission no later than five working days before the survey begins. The request must also indicate the nature of the information to be provided at the interview. Such requests should be addressed to:

**Division of Accreditation Operations
Office of Quality Monitoring
Joint Commission on Accreditation of Healthcare Organizations
One Renaissance Boulevard
Oakbrook Terrace, IL 60181**

Or Faxed to 630-792-5636

Or E-mailed to complaint@jcaho.org

The Joint Commission will acknowledge such requests in writing or by telephone and will inform the organization of the request for any interview. The organization will, in turn, notify the interviewee of the date, time, and place of the meeting.

Sept. 11 ceremony

The base will hold a Sept. 11 remembrance ceremony at 9 a.m. Sept. 11 in front of the 319th Air Refueling Wing headquarters building.

Ceremony events include a retreat ceremony, 21-gun salute, and a KC-135 flyover.

The Leader 3Sep04

2004-09-03

Strom Diane M Civ 319 CES/CEVA

From: Volk Monte SSgt 319 ARW/PA
Sent: Tuesday, October 12, 2004 9:50 AM
To: Strom Diane M Civ 319 CES/CEVA
Subject: RE: Article in The Leader on Bowser Containment

Ma'am – Sorry for the delayed response. I just got back from a TDY. Attached is the Sept. 3, 2004 (Page 10) of *The Leader* which contains the Public Notice. Let me know if you have any questions/concerns.



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Very Respectfully,
Monte J. Volk, SSgt, USAF
319th ARW Public Affairs
DSN 362-5016
CML (701) 747-5016

"You are never given a wish without also being given the power to make it come true. You may have to work for it, however." -- Richard Bach

-----Original Message-----

From: Strom Diane M Civ 319 CES/CEVA
Sent: Thursday, October 07, 2004 11:02 AM
To: Volk Monte SSgt 319 ARW/PA
Subject: Article in The Leader on Bowser Containment

SSgt Volk,
you called me last Thursday, Sep 30, and said you had a copy for me. Can I come over today and pick it up ? Or could you fax it to 7-6155 ?

Diane M. Strom, 319 CES/CEVA
NEPA/EIAP Program
Environmental Impact Analysis Process
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205-6434
Phone (701) 747-6394
Fax (701) 747-6155
E-mail: diane.strom@grandforks.af.mil

-----Original Message-----

From: Strom Diane M Civ 319 CES/CEVA
Sent: Wednesday, September 22, 2004 3:54 PM
To: Volk Monte SSgt 319 ARW/PA
Subject: Article in The Leader on Bowser Containment

Do you have back issues of The Leader on hand in your office? I need a copy of the article on the following subject, but when checking your web site, the latest edition posted is 27 Aug 04. If you have September back issues on hand, I'll come over and cut out the article for my file. Thanks for your assistance.

Diane M. Strom, 319 CES/CEVA

-----Original Message-----

From: 319 ARW/PA (Public Affairs)
Sent: Tuesday, August 31, 2004 1:27 PM
To: Volk Monte SSgt 319 ARW/PA
Cc: Clarke Patrice A1C 319 ARW/PA; Davis Anthony S MSgt 319 ARW/PA; Gee Ashley K 1Lt 319 ARW/PA
Subject: ACTION: 30 Day Public Review of 2004-088 Bowser Containment

Monte – please ensure this notice is published in the LEADER. Thanks.

Very Respectfully,
1 Lt Michael Meridith
Chief, Public Affairs
319th Air Refueling Wing
Grand Forks AFB, ND
Phone: (701) 747-5608 DSN: 362-5608
Fax: (701) 747-5022 DSN: 362-5022
E-mail: meridith.michael@grandforks.af.mil

-----Original Message-----

From: Strom Diane M Civ 319 CES/CEVA
Sent: Tuesday, August 31, 2004 11:15 AM
To: Gee Ashley K 1Lt 319 ARW/PA
Cc: Meridith Michael J 1Lt 319 ARW/PA
Subject: 30 Day Public Review of 2004-088 Bowser Containment

I looked on your web site, at editions 7-23, 7-30 and 8-6, but could find no copy of an article in The Leader. Could you please put the Public Notice in the next paper. Thank you.

<< File: Public Notice.doc >>

Diane M. Strom, 319 CES/CEVA
NEPA/EIAP Program
Environmental Impact Analysis Process
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205-6434
Phone (701) 747-6394
Fax (701) 747-6155
E-mail: diane.strom@grandforks.af.mil

-----Original Message-----

From: Strom Diane M Civ 319 CES/CEVA
Sent: Tuesday, July 20, 2004 12:49 PM
To: Gee Ashley K 1Lt 319 ARW/PA
Cc: Lang Patricia Capt 319 ARW/PA
Subject: 30 Day Public Review of 2004-088 Bowser Containment

Please review the following public notice for construction of a Bowser Containment area. I will need to know when it is approved to place in the GF Herald. It will also need to run in the Base Leader.

Also enclosed is a copy of:
Draft Environmental Assessment
Finding of No Significant Impact
AF 813
Map of Bowser siting
Map of UST siting

Thanks.

<< File: Public Notice.doc >> << File: map browser area.pdf >> << File: map Bldg 501 UST site.pdf >> << File: AF 813-200423 from ces-cecp.xfd >> << File: draft EA.doc >> << File: FONSI for public notice.doc >> << File: maps browser siting.ppt >>

Diane M. Strom, 319 CES/CEVA
NEPA/EIAP Program
(701) 747-6394

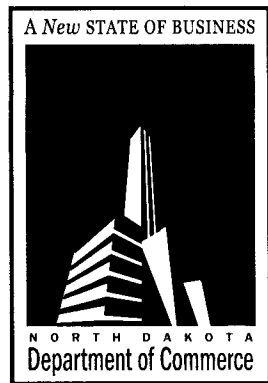
North Dakota
Department of Commerce

Community Services

Economic
Development & Finance

Tourism

Workforce Development



October 27, 2004

Diane M. Strom
Dept. of the Air Force
319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

"Letter of Clearance" In Conformance with the North Dakota Federal Program
Review System - State Application Identifier No.: ND041027-0498

Dear Ms. Strom:

SUBJECT: FONSI - Construct New Fuel Bowser Containment Area

The above referenced FONSI has been reviewed through the North Dakota Federal
Program Review Process. As a result of the review, clearance is given to the project
only with respect to this consultation process.

If the proposed project changes in duration, scope, description, budget, location or
area of impact, from the project description submitted for review, then it is necessary
to submit a copy of the completed application to this office for further review.

We also request the opportunity for complete review of applications for renewal or
continuation grants within one year after the date of this letter.

Please use the above SAI number for reference to the above project with this office.
Your continued cooperation in the review process is much appreciated.

Sincerely,

A handwritten signature in cursive script that reads "James R. Boyd".

James R. Boyd
Manager of Governmental Services

jml

Century Center

1600 E. Century Ave

Suite 2

PO Box 2057

Bismarck, ND 58502-2057

Phone 701-328-5300

Fax 701-328-5320

www.ndcommerce.com





NORTH DAKOTA DEPARTMENT OF HEALTH
Environmental Health Section

Location:
1200 Missouri Avenue
Bismarck, ND 58504-5264

Fax #:
701-328-5200

Mailing Address:
P.O. Box 5520
Bismarck, ND 58506-5520

August 6, 2004

Ms. Diane Strom
319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Re: Draft Environmental Assessment for
Constructing a Fuel Bowser Storage Area
Grand Forks Air Force Base, Grand Forks County

Dear Ms. Strom:

This department has reviewed the information concerning the above-referenced project submitted under date of July 21, 2004, with respect to possible environmental impacts.

This department believes that environmental impacts from the proposed construction will be minor and can be controlled by proper construction methods. With respect to construction, we have the following comments:

1. All necessary measures must be taken to minimize fugitive dust emissions created during construction activities. Any complaints that may arise are to be dealt with in an efficient and effective manner.
2. The construction project overlies the Emerado aquifer. Care should be taken to avoid spills of any materials that may have an adverse effect on groundwater quality. All spills must be immediately reported to this Department and appropriate remedial actions performed.
3. Noise from construction activities may have adverse effects on persons who live near the construction area. Noise levels can be minimized by ensuring that construction equipment is equipped with a recommended muffler in good working order. Noise effects can also be minimized by ensuring that construction activities are not conducted during early morning or late evening hours.
4. All solid waste materials must be managed and transported in accordance with the state's solid and hazardous waste rules. Appropriate efforts to reduce, reuse and/or recycle waste materials are strongly encouraged. As appropriate, segregation of inert waste from non-inert waste can generally reduce the cost of waste management. Further information on waste management and recycling is available from the Department's Division of Waste Management at (701) 328-5166.

Environmental Health
Section Chief's Office
701-328-5150

Air
Quality
701-328-5188

Municipal
Facilities
701-328-5211

Waste
Management
701-328-5166

Water
Quality
701-328-5210

Ms. Diane Strom

2.

August 6, 2004

The department owns no land in or adjacent to the proposed improvements, nor does it have any projects scheduled in the area. In addition, we believe the proposed activities are consistent with the State Implementation Plan for the Control of Air Pollution for the State of North Dakota.

If you have any questions regarding our comments, please feel free to contact this office.

Sincerely,

A handwritten signature in black ink, appearing to read "L. David Glatt". The signature is fluid and cursive, with the first letter "L" being particularly large and stylized.

L. David Glatt, Chief
Environmental Health Section

LDG:cc

418 CEVA 68E
001
CS 04-070



DEPARTMENT OF THE AIR FORCE
319TH CIVIL ENGINEER SQUADRON
GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

21 JUL 2004

Mr. Dean Hildebrand, Commissioner
North Dakota Game and Fish
100 North Bismarck Expressway
Bismarck, ND 58501

RE: Environmental Assessment for Grand Forks Air Force Base, North Dakota.

Dear Mr. Hildebrand:

The U.S. Air Force is preparing an environmental assessment (EA) on constructing a fuel-water recovery underground storage tank with security fencing and lighting and a paved open storage area for fuel bowsers on Grand Forks AFB. Attached is a copy of the EA. Please review the document and identify any additional resources within your agency's responsibility that may be impacted by the action. Comments should be sent within 15 days of receipt of this letter to:

Ms. Diane Strom, 319 CES/CEVA
525 Tuskegee Airmen Blvd.
Grand Forks AFB, ND 58205-6434

Your assistance in providing information is greatly appreciated. If you have any questions, please call Ms. Strom at 701-747-6394.

Sincerely,

WAYNE A. KOOP
Environmental Management Flight Chief

Attachment:
Environmental Assessment



North Dakota Game & Fish Dept.
100 N. Bismarck Expressway
Bismarck, ND 58501-5095

We have reviewed the project and foresee no identifiable conflict with wildlife or wildlife habitat based on the information provided.

(for) Michael G. McKenna
Chief, Conservation & Communication Division
Date: 8/6/04



**STATE
HISTORICAL
SOCIETY
OF NORTH DAKOTA**

John Hoeven
Governor of North Dakota

**North Dakota
State Historical Board**

Diane K. Larson
Bismarck - President

Marvin L. Kaiser
Williston - Vice President

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Chester E. Nelson, Jr.
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Gereld Gerntholz
Valley City

A. Ruric Todd III
Jamestown

Sara Otte Coleman
Director
Tourism Division

Kathi Gilmore
State Treasurer

Alvin A. Jaeger
Secretary of State

Douglass Prchal
Director
Parks and Recreation
Department

David A. Sprynczynatyk
Director
Department of Transportation

John E. Von Rueden
Bismarck

Merlan E. Paaverud, Jr.
Director

July 26, 2004

Diane Strom, 319 CES/CEVA
525 Tuskegee Airmen Blvd
Grand Forks AFB, ND 58205-6434

ND SHPO Ref.: 97-0527a, Draft EA, Fuel-Water Recovery Underground
Storage Tank, Grand Forks AFB, ND.

Dear Ms. Strom:

We have reviewed: *Environmental Assessment: Construct Fuel Bowser Storage Area, Install Underground Storage Tank, Security Fencing, Lighting, Construct Bowser Open Storage Pavement (Draft Version, 19 July 04).*

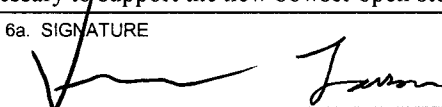
We have no comments on the draft Environmental Assessment.

Thank you for the opportunity to review this project. Please include the ND SHPO Reference number listed above in any further correspondence for this specific project. If you have any questions please contact Duane Klinner at (701) 328-3576.

Sincerely,

Merlan E. Paaverud, Jr.
State Historic Preservation Officer
(North Dakota)

Accredited by the
American Association
of Museums

REQUEST FOR ENVIRONMENTAL IMPACT ANALYSIS		Report Control Symbol RCS: 2004-136		
INSTRUCTIONS: Section I to be completed by Proponent; Sections II and III to be completed by Environmental Planning Function. Continue on separate sheets as necessary. Reference appropriate item number(s).				
SECTION I - PROPONENT INFORMATION				
1. TO (Environmental Planning Function) 319 CES/CEVA	2. FROM (Proponent organization and functional address symbol) 319 CES/CECP	2a. TELEPHONE NO. 7-4712		
3. TITLE OF PROPOSED ACTION CONS FUEL BOWSER STORAGE PAVEMENTS (JFSD200423) and FUEL TANK, LIGHTING& FENCE (JFSD200432B)				
4. PURPOSE AND NEED FOR ACTION (Identify decision to be made and need date) At the 30 Oct 03 Process Improvement Team (PIT) meeting chaired by the 319 MSG/CC, the construction of a safe and secure hazardous waste containment shelter was recommended to prevent inadvertent fuel discharges from aircraft fuel bowzers.				
5. DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES (DOPAA) (Provide sufficient details for evaluation of the total action.) Construct a new bowser open storage area along B St and near the southern part of the C-Ramp. Install a 6000-gal underground storage tank (UST), security fencing and lighting necessary to support the new bowser open storage area.				
6. PROPONENT APPROVAL (Name and Grade) 1Lt Venus Larson	6a. SIGNATURE 	6b. DATE 20040607		
SECTION II - PRELIMINARY ENVIRONMENTAL SURVEY. (Check appropriate box and describe potential environmental effects including cumulative effects.) (+ = positive effect; 0 = no effect; - = adverse effect; U= unknown effect)				
7. AIR INSTALLATION COMPATIBLE USE ZONE/LAND USE (Noise, accident potential, encroachment, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -	<input type="checkbox"/> U
8. AIR QUALITY (Emissions, attainment status, state implementation plan, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -	<input type="checkbox"/> U
9. WATER RESOURCES (Quality, quantity, source, etc.)	<input type="checkbox"/> +	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> -	<input type="checkbox"/> U
10. SAFETY AND OCCUPATIONAL HEALTH (Asbestos/radiation/chemical exposure, explosives safety quantity-distance, bird/wildlife aircraft hazard, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -	<input type="checkbox"/> U
11. HAZARDOUS MATERIALS/WASTE (Use/storage/generation, solid waste, etc.)	<input type="checkbox"/> +	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> -	<input type="checkbox"/> U
12. BIOLOGICAL RESOURCES (Wetlands/floodplains, threatened or endangered species, etc.)	<input type="checkbox"/> +	<input type="checkbox"/> 0	<input checked="" type="checkbox"/> -	<input type="checkbox"/> U
13. CULTURAL RESOURCES (Native American burial sites, archaeological, historical, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -	<input type="checkbox"/> U
14. GEOLOGY AND SOILS (Topography, minerals, geothermal, Installation Restoration Program, seismicity, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -	<input type="checkbox"/> U
15. SOCIOECONOMIC (Employment/population projections, school and local fiscal impacts, etc.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -	<input type="checkbox"/> U
16. OTHER (Potential impacts not addressed above.)	<input type="checkbox"/> +	<input checked="" type="checkbox"/> 0	<input type="checkbox"/> -	<input type="checkbox"/> U
SECTION III - ENVIRONMENTAL ANALYSIS DETERMINATION				
17. <input type="checkbox"/> PROPOSED ACTION QUALIFIES FOR CATEGORICAL EXCLUSION (CATEX) # _____ ; OR <input type="checkbox"/> PROPOSED ACTION DOES NOT QUALIFY FOR A CATEX; FURTHER ENVIRONMENTAL ANALYSIS IS REQUIRED.				
18. REMARKS				
19. ENVIRONMENTAL PLANNING FUNCTION CERTIFICATION (Name and Grade) WAYNE. A. KOOP, R.E.M., GM-13 Environmental Management Flight Chief		19a. SIGNATURE		19b. DATE

Block 4: Purpose and Need for Action

4.1 Purpose:

4.2 Need for Action: On 19 Sep 03, during a regularly scheduled cleaning of a storm water oil water separator, 800 gallons of fuel was discovered. The excess amount of fuel was due to unauthorized fuel bowser discharges. There is no existing storage area for the fuel bowsers creating tracking and accountability difficulties.

Block 5: Description of Proposed Action and Alternatives

5.1 Proposed Action: Construct a bowser storage near C-Ramp along B-Street. Install the UST near Bldg 501.

5.2 Alternative 1: Construct a bowser storage facility near Three-Bay (Bldg 649) and install UST in the same location

5.3 No Action Alternative: The fuel bowsers will continue to be difficult to track and fuel bowsers will continue to be at risk of inadvertently dumping hazardous waste. Future unauthorized fuel discharges may violate NPDES permit requirements and EPA regulations.

5.4 Decision: Construct a bowser storage near C-Ramp along B-Street. Install the UST near Bldg 501.

5.5 Permits: None

BASE CIVIL ENGINEER WORK REQUEST
(See Reverse for Instructions)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average .3 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to the Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project 0704-0188, Washington DC 20503. Please DO NOT RETURN your form to either of these addresses. Send your completed form to HQ AFESC/DEMG.

SECTION I - TO BE COMPLETED BY REQUESTER

1. FROM (Organization) 319 MXG	2. OFFICE SYMBOL MXOP	3. DATE OF REQUEST 20031118	4. WORK REQUEST NO. (For BCE Use)
5. NAME AND PHONE NO. OF REQUESTER MSgt Blumhagen 747-4154		6. REQUIRED COMPLETION DATE	7. BUILDING, FACILITY OR STREET ADDRESS WHERE WORK IS TO BE ACCOMPLISHED TBD

8. DESCRIPTION OF WORK TO BE ACCOMPLISHED (Include Sketch or Plan, when appropriate)
 Request immediate construction or furnishing of a HAZARDOUS WASTE containment shelter for the safe storage/security of 11 fuel bowsers. Due to recent mishap of dumping fuel into water separator, preventive measures have been recommended by Process Improvement Team. Fuel bowsers will be kept in secured containment shelter; access will be arranged through Maintenance Squadron(MXS) Production Supervisor.
See attachment page 3

9. BRIEF JUSTIFICATION FOR WORK TO BE ACCOMPLISHED (Not required for maintenance and repair)
 Safe/Secure containment shelter will prevent unauthorized, inadvertent dumping of Hazardous Waste

10. DONATED RESOURCES

FUNDS	LABOR	MATERIAL	CONTRACT BY REQUESTER	NONE
11. NAME OF REQUESTER Kevin L. Blumhagen		12. GRADE OF REQUESTER MSgt	13. SIGNATURE OF REQUESTER (See Reverse of Form) <i>K Blumhagen</i>	
14. COORDINATION <i>AR 21 NOV 03</i> 319 ARW/SEG		<i>HJ 20 DEC 03</i> 319 MEDG/SGBP	<i>19 NOV 03</i> 319 CES/CEFT JAE	<i>18 NOV 03 KB</i> 319 MOS/MXOP

SECTION II - FOR BASE CIVIL ENGINEER USE

15. WORK ORDER (Place an "X" in the appropriate box.)

IN-SERVICE	SELF-HELP	CONTRACT	SABER
------------	-----------	----------	-------

16. DIRECT SCHEDULED WORK (Place an "X" in the appropriate box.)

EMERGENCY	URGENT	ROUTINE	SELF-HELP	M/C
-----------	--------	---------	-----------	-----

17. SELF-HELP (Place an "X" in the appropriate box.)

BRIEFING REQUIRED	ADEQUATE COORDINATION	INSPECTION REQUIRED
-------------------	-----------------------	---------------------

SECTION III - COMPLETE ONLY IF WORK IS TO BE ACCOMPLISHED BY WORK ORDER

18. WORK CLASS	19. PRIORITY	20. ESTIMATED HOURS	21. ESTIMATED FUNDED COST	22. ESTIMATED TOTAL COST
23. THERE IS NO NEED FOR AN ENVIRONMENTAL ASSESSMENT (AFR 19-2)		24. A WRITTEN ASSESSMENT IS BEING/HAS BEEN PROCESSED	25. APPROVED	26. DISAPPROVED

27. REMARKS *CEPT: See Attachment 4. IAW UFC 3-400-1 Chap 4, ENPRA 30
 Bldg. Formed Eng. Chap 4, Project requires submission of an AF Form 813 to 319 CES/CEVA.
 Need to review Bldg plans prior to construction. HJ
 Environmental Analysis is required prior to the start of work.*

SECTION IV - APPROVING AUTHORITY

28. NAME AND GRADE (Please Type or Print)	29. SIGNATURE	30. DATE
---	---------------	----------

ROUTING AND TRANSMITTAL SLIP

Date
13 Oct 04

TO: (Name, office symbol, room number,
building, Agency/Post)

Initials

Date

1. 319 CES/CEV, Wayne Koop

WPK

14

2.

3.

4.

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
Coordination	Justify	

REMARKS

Enclosed for your signature is the EA/FONSI for the fuel bowser containment.

DO NOT use this form as a RECORD of approvals, concurrences, disposals,
clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)

Diane Strom, 319 CES/CEVA, NEPA / EIAP, Room 128, Bldg 410, Phone
747-6394, Fax 747-6155

OPTIONAL FORM 41 (Rev. 1-94)
Prescribed by GSA

ROUTING AND TRANSMITTAL SLIP

Date
19 Jul 04

TO: (Name, office symbol, room number,
building, Agency/Post)

1. 319 CES/CEV, Wayne

- 2.
- 3.
- 4.
- 5.

Initials Date

See Answer

WR

19 Jul

Action	File	Note and Return
Approval	For Clearance	Per Conversation
As Requested	For Correction	Prepare Reply
Circulate	For Your Information	See Me
Comment	Investigate	Signature
1 Coordination	Justify	

REMARKS

EA for 04-088 is enclosed for your review, prior to sending to PA for 30 day public notice.

Screen all.

WR

DO NOT use this form as a RECORD of approvals, concurrences, disposals,
clearances, and similar actions

FROM: (Name, org. symbol, Agency/Post)
Diane Strom, 319 CES/CEVA, NEPA / EIAP

Room No 128. - Bldg. 410

Phone No. 747-6394 ;
FAX 747-6155

From: Hanson Mark Civ 319 ARW/JA
Sent: Wednesday, June 30, 2004 2:49 PM
To: Strom Diane M Civ 319 CES/CEVA
Subject: RE: Review AF 813 for EA on 2004-088 Bowser Containment, Fuel Tank, Lighting & Fence

Real good documentation. My review suggests proposed action is appropriate.

The paving for a central location for the browsers make sense for accountability.

It also seems this is training/education issue. The USTs are not the sole solution. We can still encounter problems if employees are not adequately training. If Compliance (McCullough) believes this is the best cost-effective solution I concur with the proposed action. If not, I would request his input on proposed action.

Did we consider Above Ground Storage tanks as a possibility? (Mr. Braun may have input on this issue –if he believes USTs are appropriate I concur if he believes ASTs are appropriate we need to reconsider). It seems whenever we add more tanks we always need to consider leak detection, corrective action plans (leaks/spills/overfills), record maintenance, periodic corrosion checks (leaks), state coordination requirements, and possibly secondary containment and permits.

MARK W. HANSON, GS-12 DAF
Chief, General Law
319th Air Refueling Wing
Grand Forks AFB North Dakota
Phone: DSN 362-3618; 701-747-3618
Fax: DSN 362-4766; 701-747-4766

CONFIDENTIALITY NOTICE: This electronic transmission may contain attorney work-product or information protected under the attorney-client privilege, both of which are protected from disclosure under the Freedom of Information Act, 5 USC 552. Do not release outside of DoD channels without prior authorization from the sender.

-----Original Message-----

From: Strom Diane M Civ 319 CES/CEVA
Sent: Tuesday, June 29, 2004 8:29 AM
To: Zhorela Steve M Civ 319 CES/CECP; Braun Stephen M Civ 319 CES/CEVC; Chicovsky Stephen C MSgt 319 AMXS; Coleman Matthew F Capt 319 ARW/SEF; Crouse Everett E Civ 319 OSS/OSAA; Franklin David W TSgt 319 ARW/SEG; Hanson Mark Civ 319 ARW/JA; Johnson Gary L Civ 319 ARW/SEG; Klaus Christopher Civ 319 CES/CEVC; Miniter Jeremy 2dLt 319 AMDS/SGGB; Nelson Heidi R Civ 319 CES/CECP; Olderbak Larry Civ 319 CES/CEVR; Raknerud Gary D Civ 319 CES/CEVP; Rundquist Kristen A Civ 319 CES/CEVC; Schulte Brad J Capt 319 ADS/SSGB; Williamson Gary C Civ 319 CES/CECP
Cc: Koop Wayne A Civ 319 CES/CEV; McCullough David Civ 319 CES/CEVC
Subject: Review AF 813 for EA on 2004-088 Bowser Containment, Fuel Tank, Lighting & Fence

Strom Diane M Civ 319 CES/CEVA

From: Braun Stephen M Civ 319 CES/CEVC
Sent: Wednesday, June 30, 2004 9:33 AM
To: Strom Diane M Civ 319 CES/CEVA
Subject: RE: Review AF 813 for EA on 2004-088 Bowser Containment, Fuel Tank, Lighting & Fence

Diane:

Two comments:

- 1) Include the word "double-walled" when specifying the UST at 501.
- 2) A 50,000 gallon UST was abandoned in-place east of 501. This may or may not affect the location of the new UST.

///signed///

Stephen M. Braun, REM
Environmental Engineer

-----Original Message-----

From: Strom Diane M Civ 319 CES/CEVA
Sent: Tuesday, June 29, 2004 8:29 AM
To: Zhorela Steve M Civ 319 CES/CECP; Braun Stephen M Civ 319 CES/CEVC; Chicosky Stephen C MSgt 319 AMXS; Coleman Matthew F Capt 319 ARW/SEF; Crouse Everett E Civ 319 OSS/OSAA; Franklin David W TSgt 319 ARW/SEG; Hanson Mark Civ 319 ARW/JA; Johnson Gary L Civ 319 ARW/SEG; Klaus Christopher Civ 319 CES/CEVC; Minitzer Jeremy 2dLt 319 AMDS/SGGB; Nelson Heidi R Civ 319 CES/CECP; Olderbak Larry Civ 319 CES/CEVR; Raknerud Gary D Civ 319 CES/CEVP; Rundquist Kristen A Civ 319 CES/CEVC; Schulte Brad J Capt 319 ADS/SSGB; Williamson Gary C Civ 319 CES/CECP
Cc: Koop Wayne A Civ 319 CES/CEV; McCullough David Civ 319 CES/CEVC
Subject: Review AF 813 for EA on 2004-088 Bowser Containment, Fuel Tank, Lighting & Fence

Please provide environmental impacts or a negative response by 9 JULY 04.

Enclosed is:

AF 813 for bowser open storage area, fuel tank, lighting, fence
DD 1391 for bowser open storage area (JFSD200423) on B St
DD 1391 for 6000 gal underground storage tank, fencing, lighting (JFSD200423B)
Map of bowser open storage area
Drawing of bowser open storage area
Map of UST near 501
Draft recommendation of short term and long term recommendations

Thanks,
Diane M. Strom, 319 CES/CEVA
NEPA/EIAP Program
(701) 747-6394

<< File: AF 813-200423 from ces-cecp.xfd >> << File: coord ces-cecp10 1391-200423-signed.pdf >>
<< File: coord ces-cecp11 jfsd200423b_1391_24may2004.pdf >> << File: coord ces-cecp6 maps
bowser siting >> << File: Scanned docs 6-28-04.pdf >>

ENGINEERING REVIEW COMMENTS

(COMPUTER GENERATED FORM)

BASE

Grand Forks AFB

NAME OF REVIEWER

RAKNERUD

813 for Bowser Storage

DD FORM 1391

PROJECT BOOK

CONCEPT

30% DESIGN

DRAWING OR
PARAGRAPH #

CMT
#

General

1

The storage yard must be desined in such a manner as to contain not less than the contents of the largest bowser with 4"- 6" of freeboard to allow for precip and wind. This can either be a drive-over berm or a sunken pit or combination thereof.

The pad must have sufficient drainage and valving to allow for drainage of contained precipitation to the storm sewer system. ~~The UST piping must be situated and capped to prevent precipitation from entering~~

The pad must be constructed in such a way as to be impermeable for the design life of the pad. The pad must be able contain all leaks and releases and drips.

~~There must be sufficient space and accommodations to allow for easy access and pumping of the UST to allow periodic contactor service (pumper truck).~~

Sent: Tuesday, June 29, 2004 2:17 PM
To: Strom Diane M Civ 319 CES/CEVA
Cc: Minitier Jeremy 2dLt 319 AMDS/SGGB
Subject: FW: Review AF 813 for EA on 2004-088 Bowser Containment, Fuel Tank, Lighting & Fence

Bioenvironmental will need to evaluate personnel exposure levels to fuel products for individuals working in the area. Please ensure that we are notified once the project is completed.

bjs

BRADLEY J SCHULTE, Capt, USAF, BSC
Bioenvironmental Engineering Flight Commander
Grand Forks AFB, ND (It's not Alaska, but it'll do for now)
DSN: Ph - 362.5596 Fax - 362.4191
Comm: Ph - 701.747.5596 Fax - 701.747.4191

-----Original Message-----

From: Strom Diane M Civ 319 CES/CEVA
Sent: Tuesday, June 29, 2004 8:29 AM
To: Zhorela Steve M Civ 319 CES/CECP; Braun Stephen M Civ 319 CES/CEVC; Chicosky Stephen C MSgt 319 AMXS; Coleman Matthew F Capt 319 ARW/SEF; Crouse Everett E Civ 319 OSS/OSAA; Franklin David W TSgt 319 ARW/SEG; Hanson Mark Civ 319 ARW/JA; Johnson Gary L Civ 319 ARW/SEG; Klaus Christopher Civ 319 CES/CEVC; Minitier Jeremy 2dLt 319 AMDS/SGGB; Nelson Heidi R Civ 319 CES/CECP; Olderbak Larry Civ 319 CES/CEVR; Raknerud Gary D Civ 319 CES/CEVP; Rundquist Kristen A Civ 319 CES/CEVC; Schulte Brad J Capt 319 ADS/SSGB; Williamson Gary C Civ 319 CES/CECP
Cc: Koop Wayne A Civ 319 CES/CEV; McCullough David Civ 319 CES/CEVC
Subject: Review AF 813 for EA on 2004-088 Bowser Containment, Fuel Tank, Lighting & Fence

Please provide environmental impacts or a negative response by 9 JULY 04.

Enclosed is:

AF 813 for bowser open storage area, fuel tank, lighting, fence
DD 1391 for bowser open storage area (JFSD200423) on B St
DD 1391 for 6000 gal underground storage tank, fencing, lighting (JFSD200423B)
Map of bowser open storage area
Drawing of bowser open storage area
Map of UST near 501
Draft recommendation of short term and long term recommendations

Thanks,
Diane M. Strom, 319 CES/CEVA
NEPA/EIAP Program
(701) 747-6394

Strom Diane M Civ 319 CES/CEVA

From: Larson Venus C 1Lt 319 CES/CECP
Sent: Monday, June 14, 2004 9:16 AM
To: Strom Diane M Civ 319 CES/CEVA
Cc: Williamson Gary C Civ 319 CES/CECP; Zhorela Steve M Civ 319 CES/CECP
Subject: RE: 813 on 2004-088 Bowser Containment

The project is still in its preliminary phase. The information you are requesting is too detailed and cannot be answered until the project is completely design. Since this is a year-end project. . .some of your questions will not be answered. You seem to be going into more detailed than your predecessor. It has been my experience that EA are very general in nature. I have answered the information you requested as much as I can. I project does have a FB approved siting (seeing that I created it and processed the siting myself). I have attached the 1391 -- this is what your predecessor asked for when I previously filled out 813s. I have also attached the form 813. This will be my last day working here. . .I'm off to Korea. Please see Mr. Richard Ostlie (project manager for mechanical portion of the project) and Ms. Janelle Zweifel (project manager for the pavements portion) for more design information if it is required.

-----Original Message-----

From: Strom Diane M Civ 319 CES/CEVA
Sent: Monday, June 07, 2004 11:52 AM
To: Larson Venus C 1Lt 319 CES/CECP
Subject: RE: 813 on 2004-088 Bowser Containment

Lt Larson, the 813 blocks 4 and 5 will need some additional description.

Block 4, Purpose and Need for Action, must describe the mission deficiency that needs to be fulfilled, concentrating on the proponent's mission and project objectives. The statement must describe the who wants to do what, where, when, and how. The proponent (Services) must describe their mission and function, what is required by the organization under the proposed action, how the proposed action will support the mission, what processes/functions will be performed as a result of the proposed action, where the proposed action will occur, and the required implementation date. The "need" statement must describe why the proposed action is necessary. The statement should clearly identify the goal of the proposed action.

Block 5. Description of Proposed Action and Alternatives, must provide a detailed description of the proposed action and all reasonable alternatives to the action, including no action. The Proposed Action must include: Action Location, Timing and Need Date, Site Requirements, Construction Requirements, Construction Methods, Lighting Requirements (what kind of lights, security lights?, overhead?), Fencing Requirements (what kind of fence? Chain link? Locks?) , Tank Requirements (single wall, double wall?), Intended Use of Facilities, Processes to be Performed, Hazardous Waste Generation/Storage, Health/Safety/Environmental Concerns, Manpower Requirements, and Utility Requirements. A map showing the exact location of the bowser storage area, underground storage tank, lighting and fenceline, should be attached; this is usually the facility board approved siting. You can use the CES web map site to create a map. See <http://fsjfsd41008/website/htmltest/viewer.htm>.

This should also be covered for the No Action and an additional alternative (possibly alternative siting).

I'll bring you some background data I have in my folder.

Diane Strom

-----Original Message-----

From: Larson Venus C 1Lt 319 CES/CECP
Sent: Monday, June 07, 2004 10:51 AM
To: Strom Diane M Civ 319 CES/CEVA
Subject: RE: 813 on 2004-088 Bowser Containment

Here you go!!

-----Original Message-----

From: Strom Diane M Civ 319 CES/CEVA
Sent: Monday, June 07, 2004 10:10 AM
To: Williamson Gary C Civ 319 CES/CECP; Larson Venus C 1Lt 319 CES/CECP
Subject: 813 on 2004-088 Bowser Containment

Hi, is there a new POC for coordination on this 813? Kristin tells me that Lt Larson will soon PCS. Thanks,

Diane M. Strom
319 CES/CEVA
701-747-6394, DSN 362-6394

Process Improvement Team Bowser Waste Fuel Disposal

- Install Signage: Complete**
- Replace Manhole Cover for Easy Access: Complete**
- Implement OI: Draft in Coord**
- Train LRS/POL Personnel: Complete**
- Install Contact Water/Waste Fuel UST:
ECD Aug 05**
- Construct Bowser Storage Facility:
ECD Aug 06**

