Final Report

Environmental Assessment: Demolish CASS Switch Stations Buildings 644, 645, 646 at Grand Forks Air Force Base

Prepared by

Grand Forks Air Force Base, North Dakota

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

June 2006



| Report Docume | entation Page | | | Form Approved IB No. 0704-0188 | |
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| Public reporting burden for the collection of information is estimated to maintaining the data needed, and completing and reviewing the collect including suggestions for reducing this burden, to Washington Headqu VA 22202-4302. Respondents should be aware that notwithstanding a does not display a currently valid OMB control number. | tion of information. Send comments r parters Services, Directorate for Information | regarding this burden estimate mation Operations and Reports | or any other aspect of the property of the pro | nis collection of information, Highway, Suite 1204, Arlington | |
| 1. REPORT DATE JUN 2006 2. REPORT TYPE | | | 3. DATES COVE | red 6 to 00-00-2006 | |
| 4. TITLE AND SUBTITLE | | | 5a. CONTRACT | NUMBER | |
| Environmental Assessment: Demolish | | ns Buildings | 5b. GRANT NUMBER | | |
| 644, 645, 646 at Grand Forks Air Forc | e base | | 5c. PROGRAM E | LEMENT NUMBER | |
| 6. AUTHOR(S) | | | 5d. PROJECT NU | JMBER | |
| | | | 5e. TASK NUMBER | | |
| | | | 5f. WORK UNIT | IT NUMBER | |
| 7. PERFORMING ORGANIZATION NAME(S) AND AI 319 Civil Engineering Squadron,319 C Blvd,Grand Forks AFB,ND,58205 | * * | kegee Airmen | 8. PERFORMING REPORT NUMB | G ORGANIZATION ER | |
| 9. SPONSORING/MONITORING AGENCY NAME(S) A | AND ADDRESS(ES) | | 10. SPONSOR/M | ONITOR'S ACRONYM(S) | |
| | | | 11. SPONSOR/MONITOR'S REPORT NUMBER(S) | | |
| 12. DISTRIBUTION/AVAILABILITY STATEMENT Approved for public release; distribut | ion unlimited | | | | |
| 13. SUPPLEMENTARY NOTES | | | | | |
| 14. ABSTRACT This EA has been prepared in accorda potential environmental impacts to der Forks County, North Dakota. Resource Hazardous Materials, and Stored Fuel Cultural Resources; Land Use; Transp Occupational Health; Environmental Action, the Alternative Action and the addresses the potential cumulative efformation of the Grand Forks AFB and the surrounding | molish the CASS swite areas analyzed in the last water Resources; portation Systems; A Management and Ere No Action Alternations of the associated | itch stations 644, the EA include A Biological Reson Airspace/Airfield Invironmental Justive were analyzed | 645, and 646 ir Quality; Nurces; Socioe Operations; tice. In addition the EA. | o, located in Grand oise; Wastes, conomic Resources Safety and ion to the Proposed The EA also | |
| 15. SUBJECT TERMS | | | 40.34 | | |
| 16. SECURITY CLASSIFICATION OF: | | 17. LIMITATION OF ABSTRACT | 18. NUMBER OF PAGES | 19a. NAME OF RESPONSIBLE PERSON | |

c. THIS PAGE

unclassified

a. REPORT

unclassified

b. ABSTRACT

unclassified

Same as

Report (SAR)

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DEPARTMENT OF THE AIR FORCE

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

28 June 2006

MEMORANDUM FOR 319 CES/CEVA

FROM: 319 ARW/JA

SUBJECT: Legal Review – Grand Forks AFB Environmental Assessment and FONSI for Demolition of CASS Switch Stations 644, 645 and 646

- 1. Based upon my review the proposed Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) for the demolition of CASS Switch Stations 644, 645, and 646 complies with 32 CFR part 989 and is legally sufficient.
- 2. 32 CFR §. 989.14 states an EA must discuss the need for the proposed action, reasonable alternatives to the proposed action, the affected environment, the environmental impacts of the proposed action and alternatives (including the ``no action" alternative), and a listing of agencies and persons consulted during preparation. The EA meets these requirements and follows the alternatives analysis guidance outlined in Sec. 989.8.
- 3. Public notification was accomplished on May 1, 19, and 20 2006. No comments were received. Agency comments are included at the end of the EA.
- 4. If you have any questions about these comments, please contact the undersigned at 7-3606.

Mark W. Hanson, GS-12, DAF

Chief, General Law

FINDING OF NO SIGNIFICANT IMPACT FOR

DEMOLITION OF THE CASS SWITCH STATION FACILITIES 644, 645 AND 646

AGENCY: Department of the Air Force

PROPOSED ACTION: The United States Air Force (USAF) proposes to demolish the Centralized Aircraft Support System (CASS) electrical switch station buildings 644, 645 and 646 on Grand Forks Air Force Base (AFB), North Dakota.

Purpose and Need: The purpose of the proposed action is to demolish the CASS switch stations 644, 645 and 646. These buildings were built in 1991 to house the CASS electrical switch system for the B-1B Lancer bomber aircraft. The CASS system no longer exists and power to these stations was abandoned during the Charlie ramp extension. The Grand Forks AFB Facilities Board approved the demolition of these facilities on 23 Nov 04 on project JFSD200373. Each building is 168 SF. The environmental assessment is assigned RCS number 2006-176.

The existing CASS switch stations 644, 645 and 646 have current airfield waivers. They violate the criteria distance from the taxiway and the Charlie ramp.

There is a need to eliminate these three inactive, unused buildings that are currently on the base's inventory. Mission requirements, operational considerations, and location are incompatible with use by other components.

A related EIAP document is the categorical exclusion accomplished in 1985 for the proposed construction project, RCS #1985-011, CASS Equipment Facilities and Installation.

Grand Forks Air Force Base must decide whether to demolish the CASS switch stations 644, 645 and 646 on Grand Forks AFB.

ALTERNATIVES CONSIDERED

No Action Alternative 1: The no action alternative would be to leave the facilities as they are. The existing CASS switch station facilities 644, 645 and 646 will continue to remain a waivered airfield obstruction. Buildings 644, 645 and 646 will continue to be unused, abandoned facilities requiring maintenance and repair.

Proposed Action 2: Grand Forks AFB proposes to demolish the CASS switch stations, Buildings 644, 645 and 646, on project number JFSD200373. Excavate, remove and dispose of all associated structures, piping, electronics, communications, lighting, utilities and debris, including pad mount transformers to the southwest of each facility. Backfill and compact the site excavation area. Remove all utilities to the junction point nearest the taxiway and ramp.

Cap utilities as needed. Deliver the transformers to the base electric shop once power is terminated. Recycle the electronics and metals. Remove all hazardous materials, such as lead, lead-base paint, mercury, asbestos, etc., according to the latest federal, state or local codes. All hazardous material abatement, such as PCB ballast or mercury switch removal, shall be complete before the building demolition commences. The building foundation and footings shall be entirely removed to ten feet below the existing surface. Off-site clean fill shall be used to backfill. Concrete may not be used as site fill. The backfill material shall be free of bentonite, trash, frozen or organic material including lignites, humus, sod, grass, roots or other vegetation. The backfill material shall not be of a size greater than 3 inches, may not contain more than 12 percent shale, and not may contain greater than 20% sand. A minimum of six inches of topsoil shall be placed over the site and graded to match surrounding contours and be sodded. The concrete from the foundations may be salvaged by the contractor or hauled to a licensed landfill. Building 646 is the site of an active Environmental Restoration Program (ERP) site with five ground water monitoring wells to the north, east and south. There are also five monitoring wells to the south west of 645 on the west side of the taxiway. The contractor shall avoid the monitoring wells and is responsible for any damage to the wells.

Alternative Action 3: Renovate the CASS switch stations 644, 645 and 646 facilities for use by another agency.

ENVIRONMENTAL CONSEQUENCES

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 demolition activities.

Noise - The demolition of the CASS switch stations 644, 645 and 646 would create additional noise. The increase in noise would be negligible and only occur during demolition.

Wastes, Hazardous Materials, and Stored Fuels - The increase in hazardous and solid wastes from demolition of the CASS switch stations 644, 645 and 646 would be temporary. Solid waste debris would be disposed of in an approved location, such as the Grand Forks Municipal Landfill. Inert demolition debris would be disposed at an approved location, such as Berger Landfill.

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

Biological Resources – BMPs and control measures, including storm drain covers 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 retailers during the demolition 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 demolition, the operator or contractor would be instructed to halt operations and immediately notify Grand Forks AFB civil engineers who would notify the State Historic Preservation Officer.

Land Use - The proposed operation would not have an impact on land use, since the area is designated for airfield operations.

Transportation Systems – The proposed operation would have minor adverse impact to transportation systems on base due to vehicles traveling to and from 644, 645 and 646.

Airspace/Airfield Operations - The proposed action would have a positive impact to aircraft safety or airspace compatibility with the elimination of three airfield waivers. The increase in contractor actions on the Charlie ramp would be temporary and only occur during demolition.

Safety and Occupational Health – Participants in the demolition must wear appropriate personnel protective equipment (PPE).

Environmental Management – Provided best management practices (BMPs) are followed, the proposed action would not impact ERP Sites. BMPs would be implemented to prevent erosion.

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 is 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.

A copy of the EA was available at the Grand Forks AFB Public Affairs office. All interested agencies and persons were invited to submit written comments within thirty days from the public notice. The public notice appeared in the Grand Forks AFB Leader on May 19 and the Grand Forks Herald on May 18 and 20, 2006. No comments were received from the public. Comments were received from the North Dakota Department of Health, U.S. Fish and Wildlife Service, N.D. Game and Fish, and N.D. State Historical Society. They are included at the end of the EA.

No adverse environmental impact to any of the areas identified by the AF Form 813 is expected by the proposed action, demolition of buildings 644, 645 and 646.

CONCLUSION: Based on the Environmental Assessment performed for demolition of buildings 644, 645 and 646, 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., GS-13 Environmental Management Flight Chief

Date: 29 Jun 06

Attachment
Environmental Assessment

Cover Sheet

Agency: United States Air Force (USAF)

Action: The action proposes to demolish the Centralized Aircraft Support System

(CASS) switch station buildings 644, 645 and 646 at Grand Forks Air

Force Base (AFB), North Dakota.

Contacts: 319 CES/CEVA

525 Tuskegee Airmen Boulevard (Blvd)

Grand Forks AFB, ND 58205

Designation: Environmental Assessment (EA)

Abstract: This EA has been prepared in accordance with the National

Environmental Policy Act, and assesses the potential environmental impacts to demolish the CASS switch stations 644, 645, and 646, 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 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 AC Alternating Current

ACG Architectural Compatibility Guidelines

ACM Asbestos Containing Material

AF Air Force
AFB Air Force Base
AFI Air Force Instruction

AFOSH Air Force Occupational Safety and Health AICUZ Air Installation Compatible Use Zone

AMC Air Mobility Command APZ Accident Potential Zone

ARPA Archeological Resource Protection Act

ARW Air Refueling Wing

AST Above Ground Storage Tank

ATC Air Traffic Control

AT/FP Antiterrorism Force Protection

ATR Air Traffic Radio

Ave Avenue

BASH Bird Aircraft Strike Hazard

Bldg Building Blvd Boulevard

BMP Best Management Practice

BMX Bike Motocross

BOD Biochemical Oxygen Demand BRAC Base Realignment And Closure

BTU British Thermal Unit

CAA Clean Air Act

CDC Child Development Center

CEQ Council on Environmental Quality

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act

CES Civil Engineer Squadron

CEV Environmental Management Flight

CFR Code of Federal Regulations

CO Carbon Monoxide CWA Clean Water Act

dB decibel

dBA Decibels Adjusted

DNL Day-Night Average A-Weighted Sound Level

DoD Department of Defense

EA Environmental Assessment

EIAP Environmental Impact Analysis Process

EIS Environmental Impact Statement

EO Executive Order

EPA Environmental Protection Agency

EPCRA Emergency Planning and Community Right-to-Know Act

ERP Environmental Restoration Program

ESA Endangered Species Act

F Fahrenheit

FAA Federal Aviation Administration

FEMA Federal Emergency Management Agency
FONPA Finding of No Practicable Alternative
FONSI Finding of No Significant Impact

ft Feet

ft³/s feet cubed per meter

FW Fighter Wing

GATR Ground-to-Air Transmitter and Receiver

GFAFB Grand Forks Air Force Base GPP Green Procurement Program

HAP Hazardous Air Pollutants

hr Hour

HM Hazardous Material H₂S Hydrogen Sulfide

HVAC Heating, Ventilation and Air Conditioning

HW Hazardous Waste

IAW in accordance with

IRP Installation Restoration Program

INRMP Integrated Natural Resources Management Plan

KV Kilovolt

KVA Kilovolt-Ampere

LT Long-Term

MBTA Migratory Bird Treaty Act
MFH Military Family Housing

MILSTD Military Standard mph Miles Per Hour

MSDS Material Safety Data Sheet

MSL Mean Sea Level

μg/m³ Micrograms Per Meter Cubed

MUX Multiplex(er)

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

NFPA National Fire Protection Act NHPA National Historic Preservation Act

NO_X Nitrogen Oxides NO₂ Nitrogen Dioxide

NPDES National Pollutant Discharge Elimination System

NPL National Priorities List

NRHP National Register of Historic Places

NWR National Wildlife Refuge

O₃ Ozone

OSHA Occupational Safety and Health Act

OWS Oil Water Separator

P2 Pollution Prevention

Pb Lead

PCS Petroleum-Contaminated Soil PEM Palustrine Emergent Wetland

PM₁₀ Particulate Matter 10 Microns in Diameter PM_{2.5} Particulate Matter 25 Microns in Diameter

POL Petroleum Oil Lubricant

PPE Personal Protective Equipment

ppm Parts Per Million

PSD Prevention of Significant Deterioration

QA/QC Quality Assessment and Quality Control

RACM Regulated Asbestos Containing Materials RCRA Resource Conservation and Recovery Act

RCS Report Control Symbol RH Relative Humidity

RI/FS Remedial Investigation/Feasibility Study

RV Recreational Vehicle

SAGE Strategic Air Ground Equipment

SAIC Science Applications International Corporation SARA Superfund Amendments and Reauthorization Act

SF Square Feet

SNG Synthetic Natural Gas

SO₂ Sulfur Dioxide SO_X Sulfur Dioxide

St Street ST Short-Term

SWMU Solid Waste Management Unit

TO Technical Order tpy Tons Per Year

TSCA Toxic Substance Control Act
TSI Thermal System Insulation

UAV Unmanned Aerial Vehicle UHF Ultra High Frequency

UPS Uninterruptible Power Supply

US United States

USACE United States Army Corps of Engineers

USAF United States Air Force

USFWS United States Fish and Wildlife Service

U.S.C. United States Code

USEPA United States Environmental Protection Agency

UST Underground Storage Tank

VOC Volatile Organic Compound

VHF Very High Frequency

EXECUTIVE SUMMARY

The United States Air Force (USAF) proposes to demolish the Centralized Aircraft Support System (CASS) electrical switch station buildings 644, 645 and 646 on Grand Forks Air Force Base (AFB), North Dakota.

Purpose and Need: The purpose of the proposed action is to demolish the CASS switch stations 644, 645 and 646. These buildings were built in 1991 to house the CASS electrical switch system for the B-1B Lancer bomber aircraft. The CASS system no longer exists and power to these stations was abandoned during the Charlie ramp extension. The Grand Forks AFB Facility Board approved the demolition of these facilities on 23 Nov 04 on project JFSD200373. Each building is 168 SF.

The existing CASS switch stations 644, 645 and 646 have current airfield waivers. They violate the distance they are from the taxiway and the Charlie ramp.

There is a need to eliminate these three inactive, unused buildings that are currently on the base's inventory. Mission requirements, operational considerations, and location are incompatible with use by other components.

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Alternative Action 3: Renovate the CASS switch stations 644, 645 and 646 facilities for use by another agency.

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 demolition activities.

Noise - The demolition of the CASS switch stations 644, 645 and 646 would create additional noise. The increase in noise would be negligible and only occur during demolition.

Wastes, Hazardous Materials, and Stored Fuels - The increase in hazardous and solid wastes from demolition of the CASS switch stations 644, 645 and 646 would be temporary. Solid waste debris would be disposed of in an approved location, such as the Grand Forks Municipal Landfill. Inert demolition debris would be disposed at an approved location, such as Berger Landfill.

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Safety and Occupational Health – Participants in the demolition must wear appropriate personnel protective equipment (PPE).

Environmental Management – Provided best management practices (BMPs) are followed, the proposed action would not impact ERP Sites. BMPs would be implemented to prevent erosion.

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 is 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 demolition of the Centralized Aircraft Support System (CASS) switch stations 644, 645 and 646 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. The environmental assessment is assigned RCS number 2006-176. The project number assigned is JFSD200373. A copy of the AF 813 initiating the assessment and the real property record cards are found in Appendix D.

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 2005, is approximately 7,175. Of that, 2,842 are military, 3,953 are military dependents, and 380 civilians working on base (Grand Forks AFB, 2005).

The Base Realignment and Closure (BRAC) 2005 Report submitted by the President to Congress became final after November 8, 2005. This is an important milestone in the restructuring of DoD's domestic base structure within the process established by Congress. The Department must begin this implementation process within 2 years from the date the President submitted to the Congress (September 15, 2005) and complete it within 6 years. The BRAC Commission's final recommendation included realignment of the 319th Air Refueling Wing's KC-135-R/T aircraft to Scott AFB, Seymour-Johnson AFB, MacDill AFB, Hickam AFB and McConnell AFB. It recommended modification of infrastructure at Grand Forks AFB to accommodate the emerging Unmanned Aerial Vehicle (UAV) mission. Twelve KC-135 aircraft will remain at Grand Forks AFB to facilitate an efficient and cost effective bed down of UAVs. The tankers will remain in place until the UAVs are operational at GFAFB, but not later than 2011, unless otherwise required for national emergencies. Grand Forks will remain an active Air Force installation with a new active duty/Air National Guard association unit created in anticipation of

emerging missions at Grand Forks. The 119th Fighter Wing at Hector International Airport Air National Guard Station at Fargo ND will be redesignated as a UAV wing, and facilities in Fargo will be expanded to accommodate the UAV ground control and intelligence analysis functions and expeditionary combat support elements. The Air Force will construct appropriate facilities on GFAFB to launch, recover, maintain and support the UAVs assigned to the 119th FW.

1.2 NEED FOR THE ACTION

Facilities 644, 645 and 646 were constructed to house the equipment used for the B-1B Lancer bomber aircraft and are no longer needed. The CASS switch stations have not been used since 1994. The facilities continue to degenerate from non-use. Photographs of the facilities are found in Appendix F.

1.3 OBJECTIVES FOR THE ACTION

Grand Forks AFB proposes to demolish buildings 644, 645 and 646 on project number JFSD200373. The metal facilities contain the electronic and electrical cabinets of the CASS, Centralized Aircraft Support System, installed in 1991, located between Charlie Ramp and the taxiway. Demolition of buildings 644, 645 and 646 will provide room for a new mission, or a new use of the land area, and eliminate three airfield waivers. A map of the location of this proposed demolition is located in Appendix E.

1.4 SCOPE OF EA

This EA identifies, describes, and evaluates the potential environmental impacts associated with the demolition of the CASS switch station buildings 644, 645 and 646 on Grand Forks AFB. This analysis covers only those items listed above. It does not include any previous demolition or demolition of facilities, parking lots, associated water drainage structures, or other non-related demolition and 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 demolition of the CASS switch stations 644, 645 and 646 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 No 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 or any 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 irretrievable 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 for both waste water and storm water to cover base-wide industrial activities. Implementation of the proposed action or an alternative action would disturb less than one acre, and thus negate the need for Grand Forks AFB to obtain a separate NPDES Construction permit from the North Dakota Department of Health (NDDH). Our general small site permit will cover this activity and needs to be tracked by the demolition agent IAW the appropriate rules. 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 are sent to agencies with pertinent resource responsibilities. In accordance with 32 CFR 989, a copy of the final EA is submitted to the ND Division of Community Services.

Applicable regulatory requirements and required coordination before and during construction include a Work Clearance Request, Stormwater Protection Plan, Dust Control Plan, Spill Control Plan, and Erosion and Sediment Control Plan to the CEV Water Program Manager; a Spill Control Plan and Waste Disposal Plan to the CEV Pollution Prevention Manager; and copies of all plans to the Contracting Officer.

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:

A means to eliminate three airfield waivers at Grand Forks AFB.

A cost effective method to dispose of excess facilities assigned to Grand Forks AFB. Minimum mission requirements include efficiency, effectiveness, legality, force protection and safety to meet AF requirements.

Minimum environmental standards include OSHA, AFOSH, NFPA, AFI, CFR, EPA and North Dakota standards for noise, air, water, safety, HM/HW, vegetation, cultural, geology, soils, and socioeconomic.

2.3 ALTERNATIVES CONSIDERED BUT ELIMINATED FROM DETAILED STUDY

There were no alternatives considered but eliminated from detailed study.

2.4 DESCRIPTION OF PROPOSED ALTERNATIVES

This section describes the activities that would occur under three alternatives: the no action alternative, the proposed action, and action alternative. These three alternatives provide the decision maker with a reasonable range of alternatives from which to choose.

2.4.1 Alternative 1 (No Action Alternative): Status Quo

The no action alternative would be to leave the facilities as they are. The existing CASS switch station facilities 644, 645 and 646 will continue to remain a waivered airfield obstruction. The buildings will continue to be unused, abandoned facilities requiring maintenance and repair. The obsolete facilities would continue to deteriorate and detract from the appearance of the airfield.

2.4.2 Alternative 2 (Proposed Action):

Grand Forks AFB proposes to demolish the CASS switch stations, Buildings 644, 645 and 646, on project number JFSD200373. Excavate, remove and dispose of all associated structures, piping, electronics, communications, lighting, utilities and debris, including pad mount transformers to the southwest of each facility. Backfill and compact the site excavation area. Remove all utilities to the junction point nearest the taxiway and ramp. Cap utilities as needed. Deliver the transformers to the base electric shop once power is terminated. Recycle the electronics and metals. Remove all hazardous materials, such as lead, lead-base paint, mercury, asbestos, etc., according to the latest federal, state or local codes. All hazardous material abatement, such as PCB ballast or mercury switch removal, shall be complete before the building demolition commences. The building foundation and footings shall be entirely removed to ten feet below the existing surface. Off-site clean fill shall be used to backfill. Concrete may not be used as site fill. The backfill material shall be free of bentonite, trash, frozen or organic material including lignites, humus, sod, grass, roots or other vegetation. The backfill material shall not be of a size greater than 3 inches, may not contain more than 12 percent shale, and not may contain greater than 20% sand. A minimum of six inches of topsoil shall be placed over the site and graded to match surrounding contours and be sodded. The concrete from the foundations may be salvaged by the contractor or hauled to a licensed landfill. Building 646 is an active Environmental Restoration Program (ERP) site with five ground water monitoring wells to the north, east and south. There are also five monitoring wells to the south west of 645 on the west side of the taxiway. The contractor shall avoid the monitoring wells and is responsible for any damage to the wells. A map of the location of this proposed demolition is located in Appendix E. Photographs of the facilities are found in Appendix F.

2.4.3 Alternative 3: Renovate the CASS switch stations 644, 645 and 646 for another mission.

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. A related EIAP document is the categorical exclusion accomplished in 1985 for the proposed construction project, RCS #1985-011, CASS Equipment Facilities and Installation.

2.6 SUMMARY COMPARISON OF THE EFFECTS OF ALL ALTERNATIVES

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

2.7 IDENTIFICATION OF PREFERRED ALTERNATIVE

The preferred alternative is the proposed action to demolish the CASS switch stations 644, 645 and 646.

| Table 2.6.1: Summary of Environmental Impac | ets | | |
|-----------------------------------------------|----------------------------|-------------------------------|----------------------------|
| | No Action Alternative 1 | Proposed Action 2 | Alternative 3 |
| Legend: ST = short-term; LT = long-term | | | |
| Air Quality | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Noise | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Wastes, Hazardous Materials, and Stored Fuels | None | Adverse ST Impact | Minor Adverse ST Impact |
| Water Resources | | | |
| Ground Water | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Surface Water | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Wastewater | None | None | None |
| Water Quality | None | None | None |
| Wetlands | None | None | None |
| Biological Resources | | | |
| Vegetation | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Noxious Weeds | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Wildlife | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Threatened and Endangered Species | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Socioeconomic Resources | None | Minor Beneficial ST Impact | Minor Beneficial ST Impact |
| Cultural Resources | None | None | None |
| Land Use | None | None | None |
| Transportation Systems | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Airspace/Airfield Operations | | | |
| Aircraft Safety | None | Beneficial LT Impact | Adverse LT Impact |
| Airspace Compatibility | None | None | None |
| Safety and Occupational Health | None | Minor Adverse ST Impact | Minor Adverse ST Impact |
| Environmental Management | | | |
| Installation Restoration Program | None | None | None |
| Geological Resources | None | None | None |
| Pesticide Management | None | None | None |
| Environmental Justice | None | None | None |

3.0 AFFECTED ENVIRONMENT

3.1 INTRODUCTION

This section 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 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 the 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).

| Table 3.2-1: Climate Data for Grand Forks AFB, ND | | | | | | | |
|---------------------------------------------------|-----------------------|---------|---------|------------------------|---------|---------|--|
| | Mean Temperature (°F) | | | Precipitation (Inches) | | | |
| | Daily | | | Monthly | . , , | | |
| Month | 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: AFCC | C/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 an air permit 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 establishes 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 Ambie | ent Air Quality Standards | (NAAQS) and ND | Ambient Air Quality | Standards (NDAAQS) |
|--------------------------------|------------------------------------|-----------------------------------------|-------------------------------------|-------------------------------------------------------------|
| Pollutant | Averaging Time | NAAQS μg/m³ (ppm) ^a | NDAAQS μg/m³ (ppm) ^a | |
| | | Primary ^b | Secondary ^c | |
| O_3 | 1 hr 8 hr ^e | 235 (0.12) 157 (0.08) | Same Same | Same None |
| СО | 1 hr 8 hr | 40,000 (35) 10,000 (9) | None None | 40,000 (35) 10,000 (9) |
| NO_2 | AAM^d | 100 (0.053) | Same | Same |
| SO ₂ | 1 hr 3 hr 24 hr AAM | None None 365 (0.14) 80 (0.03) | None 1,300 (0.5) None None | 715 (0.273) None 260 (0.099) 60 (0.023) |
| PM_{10} | AAM 24 hr | 50 150 | Same Same | Same Same |
| PM _{2.5} ^e | AAM 24 hr | 65 15 | Same Same | None None |
| Pb | ½ year | 1.5 | Same | Same |
| H ₂ S | 1 hr 24 hr 3 mth AAM Instantaneous | None None None | None None None | 280 (0.20) 140 (0.10) 28 (0.02) 14 (10) 14 (10) |

^aμg/m³ – micrograms per cubic meter; ppm – parts per million

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 demolition 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.

^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).

| Table 3.3 | | 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 | | Ringing 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 Threshold of very loud 25 ft | | |
| 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

Source: US Army, 1978

| Table 3.3-2 Approximate Sound L | | | | | | |
|--------------------------------------|--------------------------|----------------|------------------------|-------------|----|----|
| F : ./F | Sound I | _evels (dBa) a | t V <u>a</u> rious Dis | tances (ft) | | |
| Equipment Type | 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 | | | | | | |

^chr - hours

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

3.4.1 Hazardous Waste, Hazardous Material, Recyclable Material

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 409 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 a minimum of four times a year to remediate the soils to acceptable levels.

Recyclable materials from industrial facilities are collected in the recycling facility, in building 671. Paper, cardboard, and wood are collected in separate storage bins. Glass, plastics and metal cans are commingled. Curbside containers are used in housing for recyclable materials. A contractor collects these materials and transports them off base for processing.

The Environmental Management Flight manages the hazardous material through a contract with Science Applications International Corporation (SAIC). Typical hazardous materials include reactive materials such as explosives, ignitables, toxics, and corrosives. Improper storage can impact human health and the safety of the environment.

3.4.2 Underground and Above Ground Storage Tanks

Since Grand Forks AFB is a military installation with a flying mission, there are several aboveground and underground fuel storage tanks (ASTs and USTs). Gasoline, diesel fuel, heating fuel, JP-8 aircraft fuel, and oil-water separator (OWS)-recovered oils are stored in thirty-nine (39) USTs. Twenty (20) regulated USTs include three (3) gasoline tanks, eight (8) diesel tanks, three (3) JP-8 tanks, and six (6) OWS product recovery tanks. Deferred USTs include five (5) JP-8 tanks. Five (5) USTs exempt from regulation include one (1) heating oil tank, three (3)

emergency spill containment tanks, and one (1) hydraulic oil recovery tank. Gasoline, diesel fuel, heating oil, JP-8, and used oil are stored in fifty-eight (58) ASTs. The majority of petroleum is JP-8 stored in six (6) tanks with a capacity of 3,990,000 gallons for the hydrant fuel system. Diesel fuel is stored in forty-five (45) tanks primarily for emergency generators. Other tanks include: heating oil stored in three (2) tanks; gasoline stored in two (2) tanks; and, used oil stored in three (3) tanks. All ASTs either have secondary containment or are programmed to have secondary containment installed. The six (6) hydrant fuel system tanks each are contained by a concrete dike system. Runway deicing fluid (potassium acetate) is stored in two (2) 5000 gallon tanks while aircraft deicing fluid (propylene glycol) is stored in a 20,000 gallon tank (Type I) and a 4,000 gallon tank (Type IV). A map of environmental sites is found in Appendix C.

3.4.3 Solid Waste Management

Hard fill, demolition 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. The majority of demolition debris is disposed of at Berger Landfill (permit number IT-198) while municipal waste and asbestos waste is disposed of at the Grand Forks Landfill (SW-069). GFAFB also operates a land treatment facility (IT-183) for the remediation of petroleum-contaminated soils (PCSs). PCSs are generated on-base through spills, are encountered while excavating for various subsurface repairs, or encountered while replacing or removing underground storage tanks and piping.

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). The North Dakota State Water Commission requires that any structure in the floodplain have its lowest floor above the identified 100-year flood level.

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. Earlier surveys indicated Grand Forks AFB had 49 wetlands, covering 23.9 acres of wetlands, including 33 jurisdictional wetlands covering 12.2 acres. A wetland delineation conducted in 2004 indicated that the base had increased to 192 wetlands. There are 192 wetlands containing 301 acres. These include one Riverine wetland totaling 3 acres in Turtle River, one Palustrine Emergent Wetland (PEM)/Lacustrine wetland totaling 47 acres, and 190 Palustrine wetlands totaling 251 acres. Of the Palustrine wetlands, 32 are Scrub-shrub wetlands at 76 acres, 3 are Forested wetlands at approximately <1 acre, and 155 are Emergent wetlands at 174 acres. Fifteen wetlands have been identified as jurisdictional comprising 145 acres on base, and the remainder are non-jurisdictional. Vegetation is robust at GFAFB wetlands, and they are characterized as typical prairie potholes found within the northern plains ecoregion.

Wetlands on Grand Forks AFB occur frequently in drainage ways, low-lying depressions, and prairie 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. To help preserve wetlands, the North Dakota, Grand Forks County regional office of the Natural Resource Conservation Service recommends a 100-ft vegetated (grass) buffer with a perimeter filter strip.

3.6 BIOLOGICAL RESOURCES

3.6.1 Vegetation

Plants include a large variety of naturally occurring native plants. Hay land, wildlife management areas, waterfowl production areas, neighboring wildlife refuges, state parks, and conservation reserve program land have created excellent grassland and wetland habitats for wildlife in Grand Forks County. Pastures, meadows, and other non-cultivated areas create a prairie-land mosaic of grasses, legumes, and wild herbaceous plants. Included in the grasses and legumes vegetation species are tall wheat grass, brome grass, Kentucky bluegrass, sweet clover, and alfalfa. Herbaceous plants include little bluestem, goldenrod, green needle grass, western wheat grass, and bluegrama. Shrubs such as Juneberry, dogwood, hawthorn, buffaloberry, and snowberry also are found in the area. In wetland areas, predominant species include Typha sp., 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. The Natural Heritage Inventory through field investigations has identified ten natural communities occurring in Grand Forks County (1994). Of these, two communities are found within base boundaries, River/Creek and Lowland Woodland. The River/Creek natural community refers to the Turtle River. This area is characterized by submergent and emergent aquatic plants, green algae, diatoms, diverse invertebrate animals such as sponges, flatworms, nematode worms, segmented worms, snails, clams, and immature and adult insects, fish, amphibians, turtles, and aquatic birds and mammals. Dominant trees in the Lowland Community include 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 frondosa), and waterleaf (Hydrophyllum viginianum) are typical forbes.

A prairie restoration project in the "Prairie View Nature Preserve" has been developed to restore a part of the native tallgrass prairie that once was dominant in this region. Plants thriving in this preserve include western wheatgrass, slender wheatgrass, big bluestem, little bluestem, Indian grass, switchgrass, blue gramma, buffalo grass, and many native wildflower species. The Grand Forks AFB Natural Resources Manager and volunteers installed a butterfly garden in the Prairie View Nature Preserve in the fall of 2005, on National Public Lands Day. Volunteers helped plant the 1,300 square foot garden with about 50 different perennial varieties and shrubs.

Two hundred and fifty five taxa were identified in the ND Natural Heritage Inventory and the BS Bioserve biological inventory update for Grand Forks Air Force Base. Two rare orchid species are known to exist on Grand Forks AFB, the Large and Small Yellow Lady's Slipper, identified during the 2004 inventory.

3.6.2 Wildlife

Grand Forks County is agrarian in nature, however it does have many wildlife management areas, waterfowl production areas, conservation reserve program land, and recreational areas providing excellent habitat for local wildlife 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 thousands of migratory birds, especially shorebirds. 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.

The base supports a remarkable diversity of wildlife given its size and location within an agricultural matrix. The Turtle River riparian corridor, Prairie View Nature Preserve, grassland areas on the west side of the base, and the lagoons to the east of the base all provide important habitat for native plant and wildlife species and should be conserved as such within mission constraints. Many mammalian species are found on base such as the white tail deer, eastern cottontail, coyotes, beaver, raccoons, striped skunks, badgers, voles, gophers, shrews, mice, muskrat, squirrels, bats, and occasional moose and bear.

One hundred seventy bird species were identified in the 2004 biological survey, many of which include grassland bird species. Grassland bird populations are declining across North America due to huge losses of prime grassland habitat from conversion to agricultural, urban, and industrial development. No other avian group has experienced such dramatic losses as grassland birds. GFAFB is fortunate to support a large variety of grassland birds, many of which are listed on the Partners-in-Flight species of concern list, such as the grasshopper sparrow. Large blocks of grassland should be conserved to protect these grassland bird species if the mission constraints allow it.

3.6.3 Threatened and Endangered Species

According to the Biological Survey Update 2004 of GFAFB, 21 state-listed birds and 1 federally listed bird species, 2 state-listed plant species, 1 state-listed mammal species, and 1 state-listed amphibian have been identified at GFAFB. The base does have infrequent use by migratory threatened and endangered species, such as the bald eagle, but there are no critical or significant habitats for those species present. Several rare and state-listed species have been observed on base near Turtle River, the lagoons, and the grassland to the west of the airfield. 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. The total base population, as of May 2005, is approximately 7,175. Of that, 2,842 are military, 3,953 are military dependents, and 380 civilians working on base (Grand Forks AFB, 2005). The total annual economic impact for Grand Forks AFB is \$353,592,679.

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. They are abandoned farmsteads and isolated artifacts. 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. A map of the cultural resource probability areas is located in Appendix B. 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, 704, 705, 706, 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 of the base.

3.10 TRANSPORATION 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 vehicles 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 serves the passenger traffic; and the south gate is connected to Eielson Street (St), which is the main north-south road and serves the truck traffic.

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 ENVIRONMENTAL RESTORATION PROGRAM

The Environmental Restoration Program (ERP) 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 ERP 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 that 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 picloram, nonselective glyphosate and 2, 4-D are used to maintain areas on base. 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 on-base 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 75.2 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 of 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 demolition of Centralized Aircraft Support System (CASS) facilities 644, 645 and 646 on Grand Forks AFB.

4.2 AIR QUALITY

4.2.1 Alternative 1 (No Action)

The no action alternative would not impact air quality.

4.2.2 Alternatives 2 (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 demolition 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 3 Alternative 3

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

4.3 NOISE

4.3.1 Alternative 1 (No Action)

The no action alternative would not impact noise generation.

4.3.2 Alternative 2 (Proposed Action)

The short-term operation of heavy equipment in the demolition area would generate additional noise. These noise impacts would exist only during demolition and would cease after completion. The increase in noise from demolition activities would not be significant.

4.3.3 Alternative 3

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

4.4 WASTES, HAZARDOUS MATERIALS, AND STORED FUELS

4.4.1 Alternative 1 (No Action)

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

4.4.2 Alternative 2 (Proposed Action)

The increase in hazardous and solid wastes from demolition of 644, 645 and 646 would be temporary. An estimated 88,000 pounds of solid waste debris would be disposed of in approved location, such as the Grand Forks Municipal Landfill, which is located within 12 miles of the proposed site. Facilities 644, 645 and 646 were built in 1991. The identically-constructed facilities have metal beams, with metal siding, fiberglass insulation, and a cement floor. There is no ceiling tile, floor tile, nor sheetrock in the buildings. In the event there is asbestos-containing material (ACM) within the electrical cabinets, all measures will be taken to minimize the disturbance of any ACM and prevent any asbestos fiber release episodes in all areas. Removal of any friable asbestos-containing material will be accomplished in accordance with section 33-15-13-02 of the North Dakota air pollution control rules. 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. Petroleum contaminated soils generated from demolition of 644, 645 and 646 can be treated at the land treatment facility located on the southwest side of the airfield.

Since Buildings 644, 645 and 646 were constructed in 1991, it is assumed there will not be interior or exterior subsurfaces coated with lead-base paint. However, in the event there is, the removal of lead-based paint must be properly handled to reduce or prevent exposing workers and building occupants to lead. The materials must be handled by properly trained individuals for removal and disposal.

4.4.3 Alternative 3

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

4.5 WATER RESOURCES

4.5.1 Alternative 1 (No Action Alternative)

The no action alternative would have no impact on groundwater, surface water, wastewater, water quality, or wetlands.

4.5.2 Alternative 2 (Proposed Alternative)

<u>Groundwater:</u> Excavation could potentially intercept the high water table. If the excavated area fills with groundwater, water could be directly exposed to contaminants released from demolition equipment. The potential for release is minimal.

<u>Surface Water:</u> Surface water quality could degrade in the short-term, during actual demolition, due to possible erosion contributing to turbidity of runoff. Surface water could also be impacted if, due to ground water inflow to the excavation, the contractor would need to pump out the excavation. The contractor shall deploy silt fences and hay bales to control surface water runoff and to minimize erosion. Proper stabilization and seeding the site immediately upon completion of the demolition would provide beneficial vegetation to control erosion. Minimal impact is expected.

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

Water Quality: The proposed action would have no foreseeable impact to water quality.

<u>Wetlands</u>: There are no wetlands in this area. Activity in any wetlands cannot occur without a Clean Water Act section 404 permit from the Army Corps of Engineers. No dumping, filling, dredging, or changing of the wetland hydrologic structure is permitted without a permit.

4.5.3 Alternative 3

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

4.6 BIOLOGICAL RESOURCES

4.6.1 Alternative 1 (No Action)

The no action alternative would not impact wildlife, vegetation, or other biological resources.

4.6.2 Alternative 2 (Proposed Action)

<u>Vegetation:</u> 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 demolition activities, but an increase in overall vegetative cover. The footprint of the building area and concrete-padded areas shall be reseeded.

<u>Noxious Weeds:</u> 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.

<u>Wildlife:</u> Construction would have minimal impacts to wildlife, as each of the buildings are small and isolated. These areas are improved and provide foraging habitat for mammals, such as mice, rabbits, badgers, fox, coyote, and large ungulates such as white-tailed deer. The area is also host to several grassland bird species. Due to the abundance and mobility of these species and the profusion of similar landscaped areas 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 Biological Surveys of 1994 and 2004, and bird surveys of 2001, 2004, and 2005, Grand Forks AFB has 56 bird species of concern: 1 federally threatened, 8 state-threatened and endangered, 29 state species of concern, 17 USFWS birds of conservation concern, and 22 DOD partners-in-flight species. In addition, referencing the 1994 and 2004 biological surveys, there are 2 state-listed plant species, 1 state-listed mammal species, and 1 state-listed amphibian identified at GFAFB. The federally listed bird species (the Bald Eagle) has no critical habitat at GFAFB. Proposed activities should have minimal impact on these sensitive species, given all proposed demolition actions are associated with buildings 644, 645 and 646 that are located in the well-maintained airfield area. No sensitive species have been identified in the vicinity of the proposed work area.

4.6.3 Alternative 3

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

4.7 SOCIOECONOMIC RESOURCES

4.7.1 Alternative 1 (No Action)

The no action alternative would not impact socioeconomics.

4.7.2 Alternative 2 (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 demolition phase of the project. There would be no long term impact to socioeconomic resources.

4.7.3 Alternative 3

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

4.8 CULTURAL RESOURCES

4.8.1 Alternative 1 (No Action)

The no action alternative would not impact cultural resources.

4.8.2 Alternative 2 (Proposed Action)

Buildings 644, 645 and 646 are not among the buildings that are National Register eligible. The proposed action has little potential to impact cultural resources. In the unlikely event any such artifacts were discovered during the demolition activities, the contractor would be instructed to halt demolition and immediately notify Grand Forks AFB civil engineers who would notify the State Historic Preservation Officer. The SHPO shall be notified of the planned buildings' demolition and no affect determination for building demolition should be sought.

4 8 3 Alternative 3

Alternative impacts would be similar to those generated under the proposed action.

4.9 LAND USE

4.9.1 Alternative 1 (No Action)

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

4.9.2 Alternative 2 (Proposed Action)

The proposed operation would not have an impact on this land use currently designated for airfield use.

4.9.3 Alternative 3

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

4.10 TRANSPORTATION SYSTEMS

4.10.1 Alternative 1 (No Action)

The action would not impact transportation.

4.10.2 Alternative 2 (Proposed Action)

The proposed action would have minimal adverse impact to transportation systems on base due to vehicles traveling to and from building 644, 645 and 646 during demolition.

4.10.3 Alternative 3

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

4.11 AIRSPACE/AIRFIELD OPERATIONS

4.11.1 Alternative 1 (No Action)

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

4.11.2 Alternative 2 (Proposed Action)

The proposed action will have a positive impact on aircraft safety and airspace compatibility with the deletion of three airfield waivers

4.11.3 Alternative 3

Impacts would be similar to those generated under the no action alternative.

4.12 SAFETY AND OCCUPATIONAL HEALTH

4.12.1 Alternative 1 (No Action)

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

4.12.2 Alternative 2 (Proposed Action)

The proposed action would have no significant impact on safety and occupational health. Participants are required to wear appropriate personnel protective equipment (PPE).

4.12.3 Alternative 3

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

4.13 ENVIRONMENTAL MANAGEMENT

4.13.1 Alternative 1 (No Action)

The no action alternative would not impact ERP Sites or geological resources.

4.13.2 Alternative 2 (Proposed Action)

<u>ERP</u>: Provided best management practices (BMP) are followed, the proposed action would not impact ERP Sites. The monitoring wells in the area should not be disturbed. Any excavation in this area needs to be reviewed by Bioenvironmental Engineering for worker protection. Environmental Engineering must notify the NDDH for work on the site.

<u>Geology</u>: The proposed action would not impact geological resources. Soils present in the proposed area include the Gilby series.

<u>Pesticides</u>: No pesticides would be used during the demolition of building 644, 645 and 646.

4.13.3 Alternative 3

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

4.14 ENVIRONMENTAL JUSTICE

4.14.1 Alternative 1 (No Action)

The no action alternative would not impact environmental justice.

4.14.2 Alternative 2 (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.

4.14.3 Alternative 3

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

4.15 INDIRECT AND CUMULATIVE IMPACTS

The short-term increases in air emissions and noise during demolition 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 activities in the area would produce an increase in solid waste generation; however, the increase would be limited to the timeframe of each project. The area landfills used for demolition and construction debris do not have capacity concerns, and could readily handle the solid waste generated by the various projects.

4.16 UNAVIODABLE ADVERSE IMPACTS

The proposed action and alternatives would involve the use of demolition related vehicles, and their short-term impacts on noise, air quality, and traffic are unavoidable.

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

The proposed action and alternatives 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 and, consequently, productivity of the area would not be degraded.

4.18 IRREVERSIVLE AND IRRETRIEVABLE COMMITMENT OF RESOURCES

Under the proposed action, fuels, manpower, economic resources, and other recovery materials related to the demolition of building 644, 645 and 646 would be irreversibly lost.

5.0 LIST OF PREPARERS

Steve Braun
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Jeffrey L McClellan, 2d Lt, USAF, BSC Bioenvironmental Engineer Bioenvironmental Engineering Flight 319 ADS/SGGB 1599 J St Grand Forks AFB ND 58205

6.0 LIST OF AGENCIES AND PERSONS CONSULTED AND/OR PROVIDED COPIES

Dr. Terry Dwelle State Health Officer North Dakota Department of Health 600 East Boulevard Ave Bismarck, ND 58505-0200

Mr. Terry Steinwand Commissioner North Dakota Game and Fish 100 North Bismarck Expressway Bismarck, ND 58501

Mr. Jeffrey Towner U.S. Fish & Wildlife Service 3425 Miriam Avenue Bismarck ND 58501 Mr. Merlan E. Paaverud State Historic Preservation Officer State Historical Society of North Dakota 612 East Boulevard Ave Bismarck ND 58505-0200

Mr. Larry Knudtson, Planning North Dakota State Water Commission 900 E Boulevard Ave, Dept 770 Bismarck ND 58505-0850

7.0 REFERENCES

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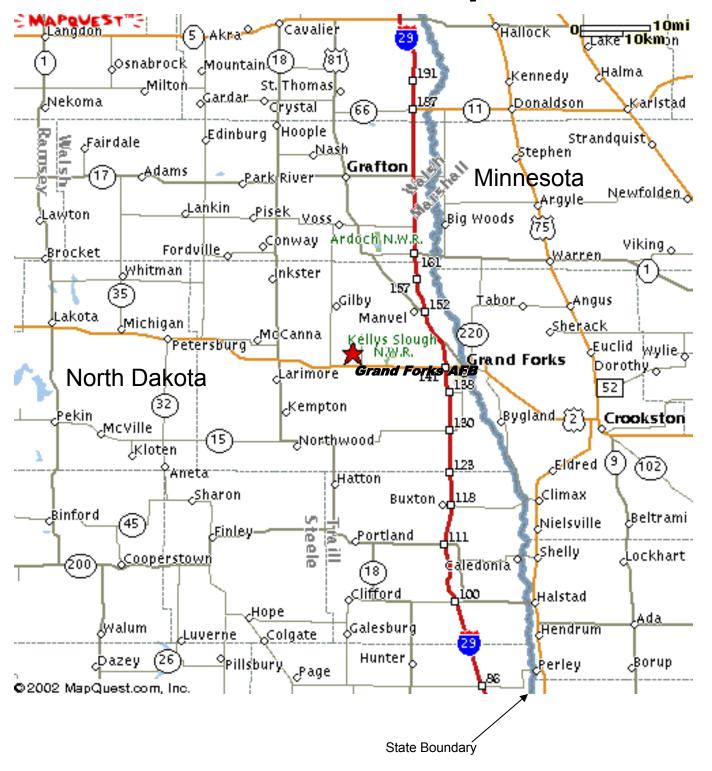
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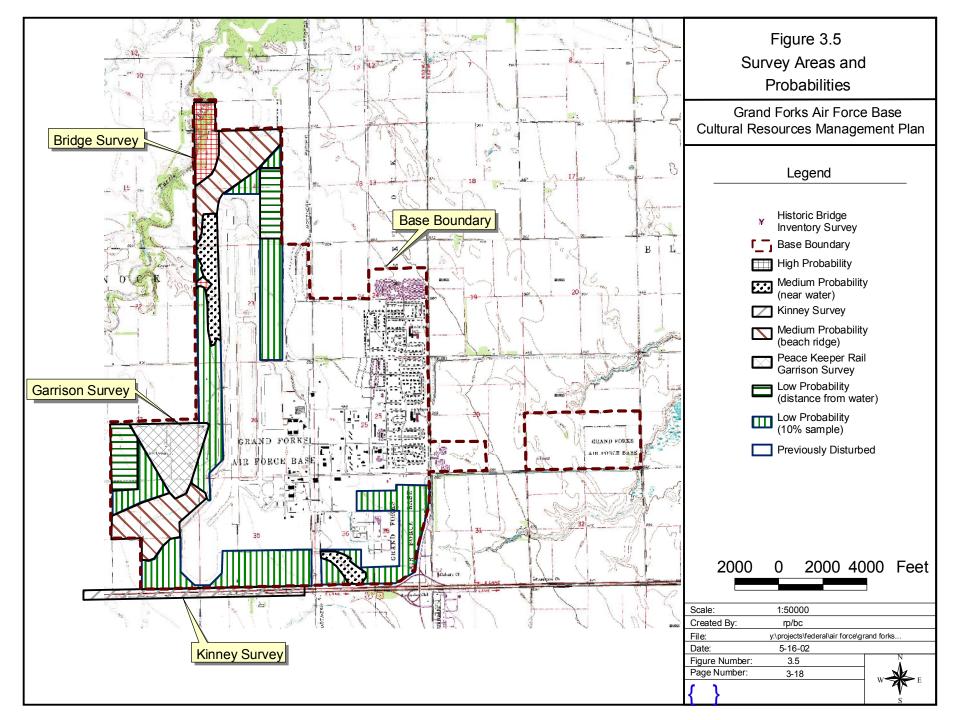
APPENDIX A LOCATION MAP – GRAND FORKS AFB

Grand Forks AFB, ND

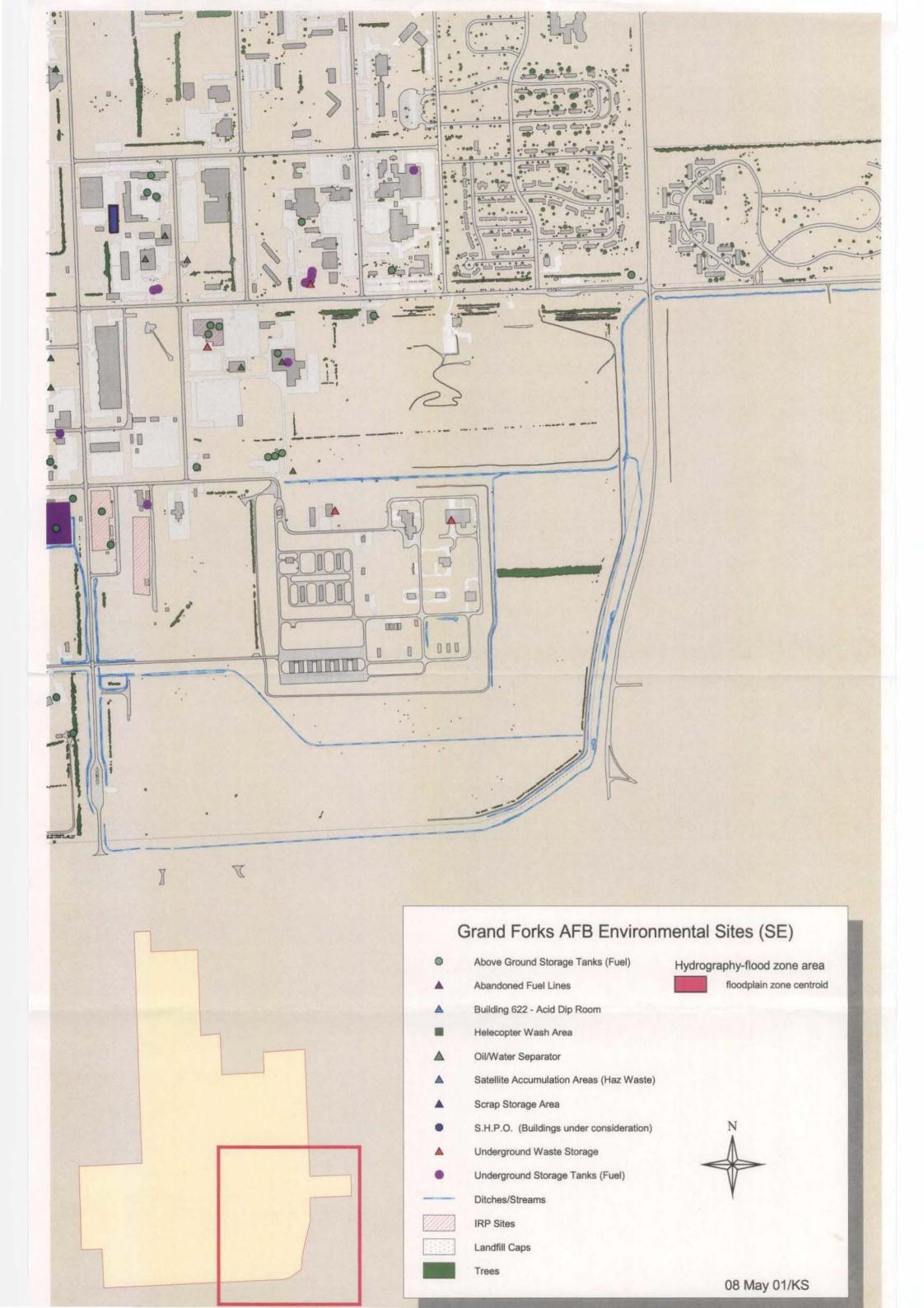
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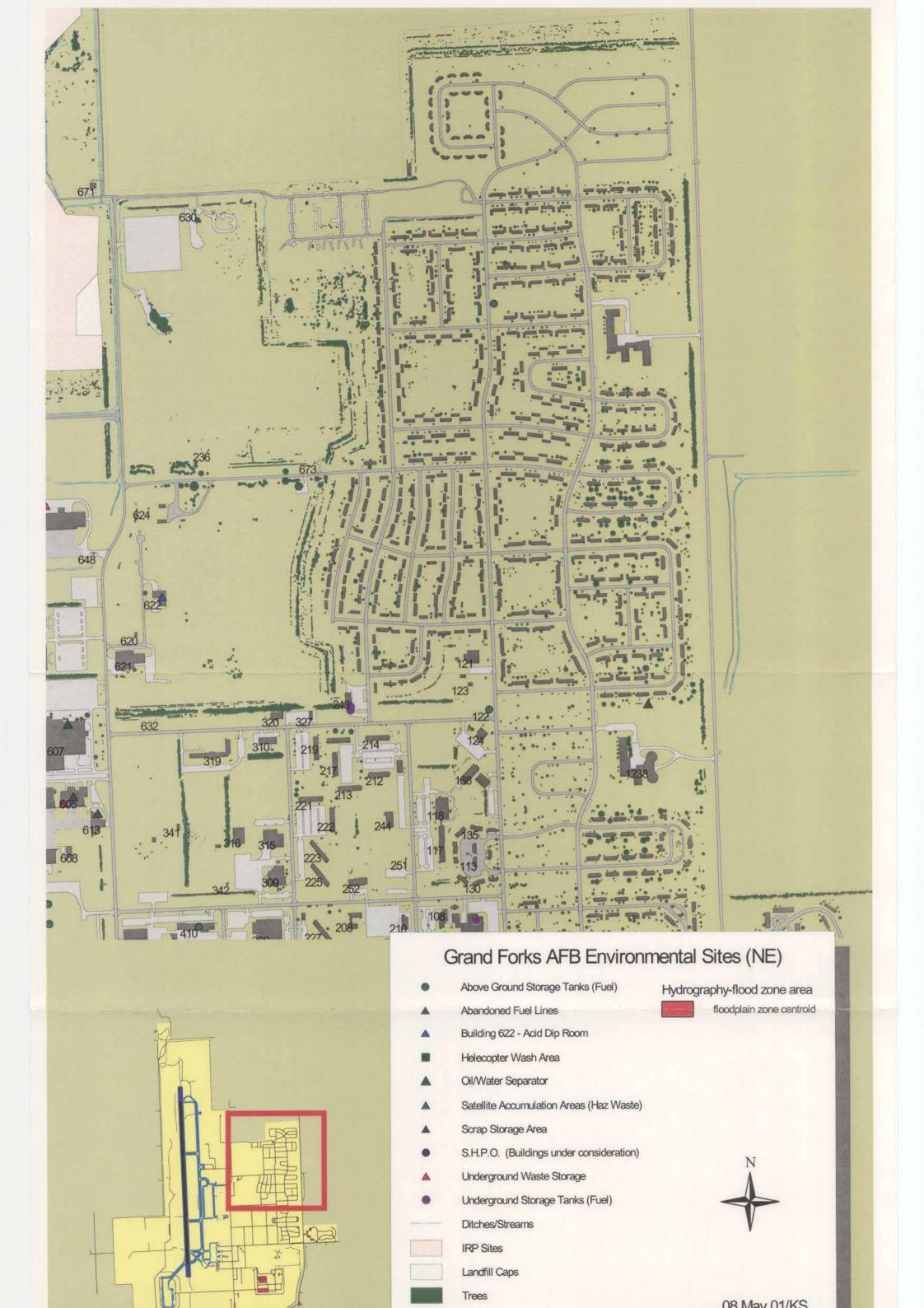


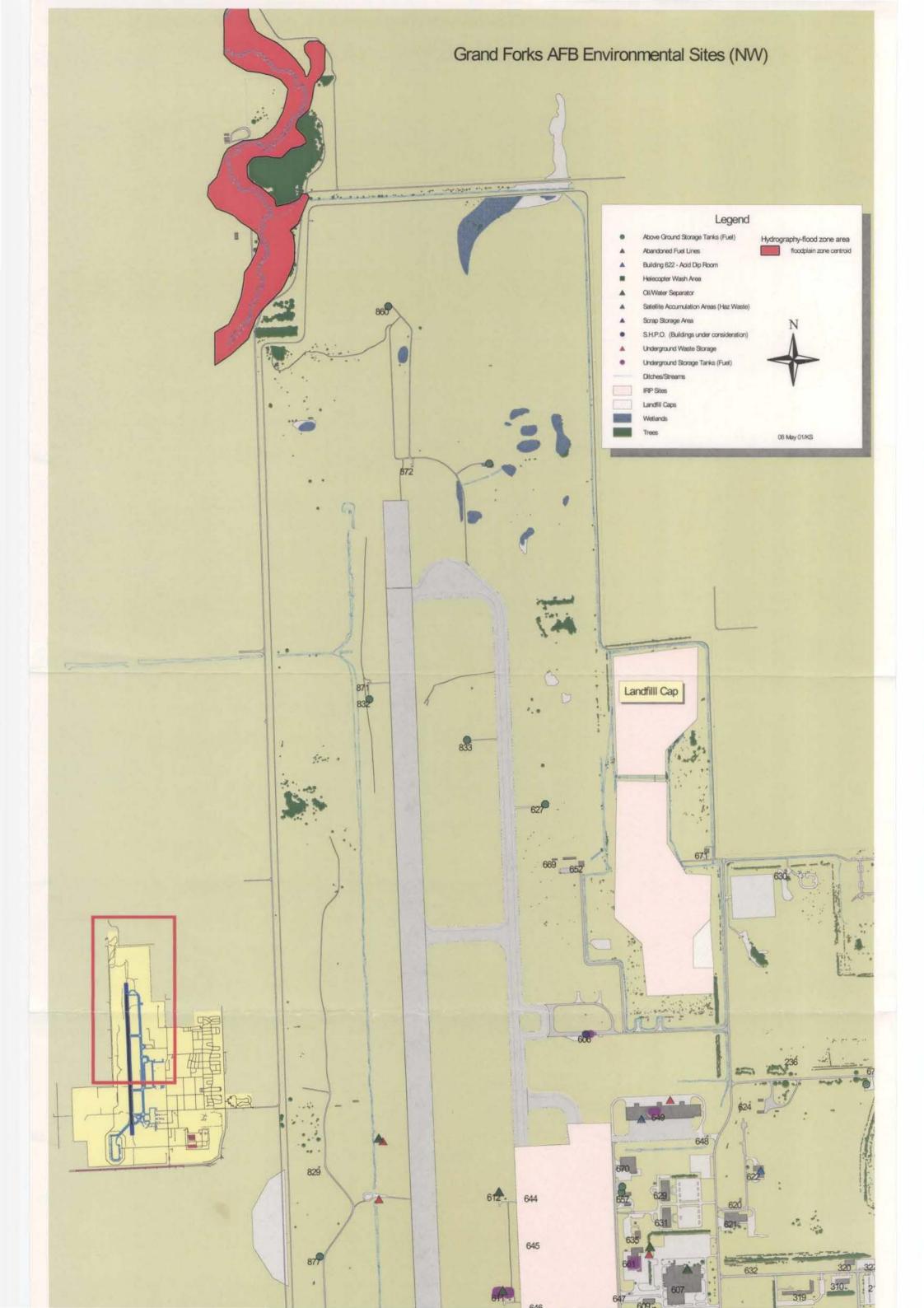
APPENDIX B CULTURAL RESOURCE PROBABILITY MAP

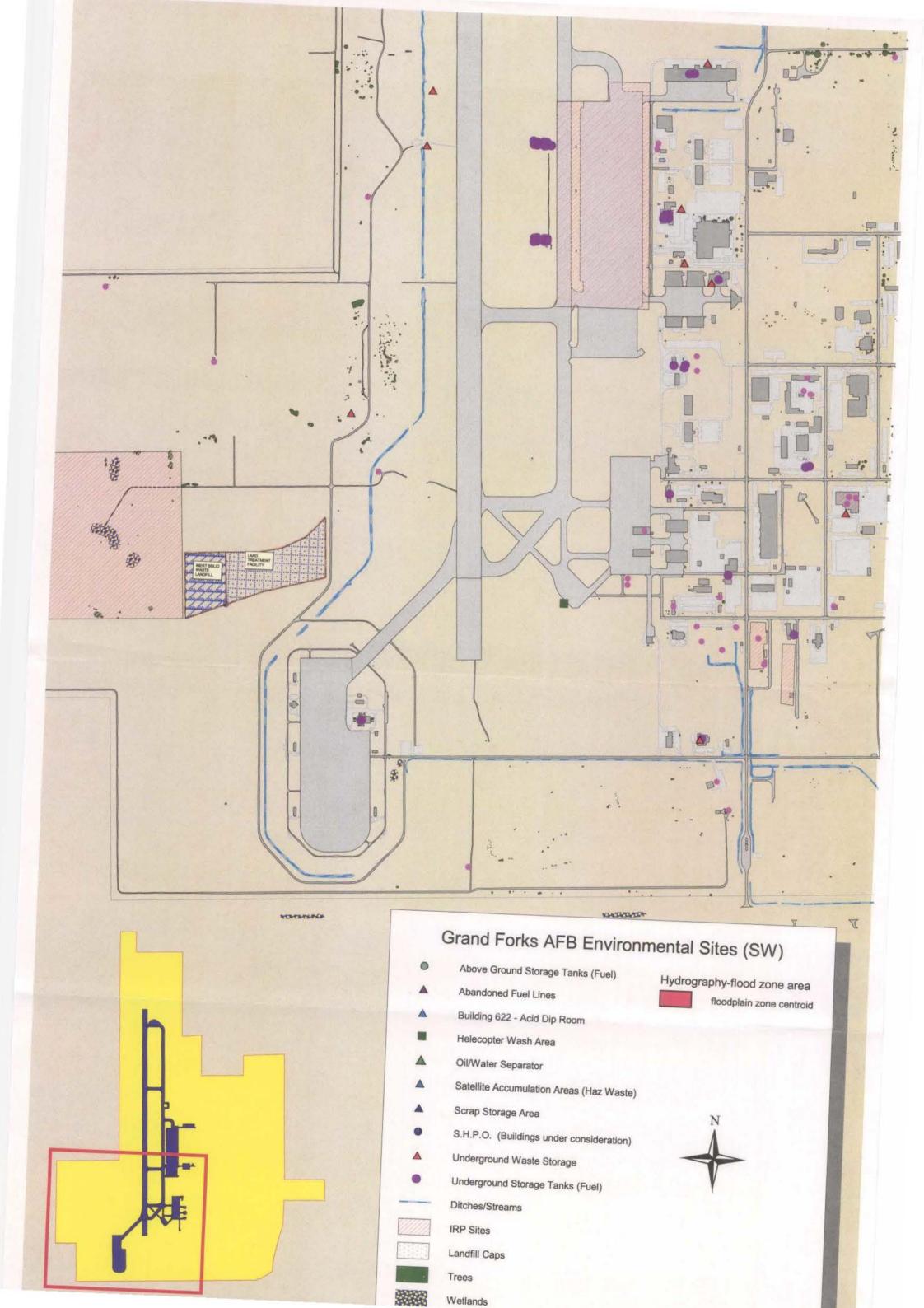


APPENDIX C ENVIRONMENTAL SITE MAP









APPENDIX D AF FORM 813 REAL PROPERTY RECORD CARDS

| REQUEST FOR ENVIRONMENTAL IMPACT ANALYSIS Report Co RCS: 200 | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------|-------------|-------------|--------|--|
| NSTRUCTIONS: Section I to be completed by Proponent; Sections II and III to be completed by Environmental Planning Function. Continuous as necessary. Reference appropriate item number(s). | | | | | | ets | |
| SECTION 1 - PROPONENT INFORMATION | | | | | | | |
| TO (Environmental Planning Function) | 2. FROM (Proponent organization and functional address s | symbol) | 2a. T | ELEPH | IONE N | 10. | |
| 319 CES/CEVA | 319 CES/CD | • | 701-747-4761 | | | | |
| 3. TITLE OF PROPOSED ACTION Demolish Buildings 644, 645 and 646 and all associated asso | ciated equipment and utilities (JFSD200373). | | 1 | | | | |
| 4. PURPOSE AND NEED FOR ACTION (Identify decision to be | | | | | | | |
| Grand Forks AFB proposes to demolish the CASS S for the B-1 Lancer Bomber and are no longer needed | 1. The CASS switch stations have not been used f | or several | | | tructe | d | |
| 5. DESCRIPTION OF PROPOSED ACTION AND ALTERNATIVES Demolish Buildings 644, 645 and 646. Excavate, reelectronics, lighting, utilities and debris. (see rever | emove and dispose of all associated structures, pip | | nunic | ations | 5, | | |
| 6. PROPONENT APPROVAL (Name and Grade) | 6a. SIGNATURE | | 6b. D | ATE | | | |
| MARY C. GILTNER, GM-13 Deputy Base Civil Engineer | Many Class | | 1 | | .06 | , 9 | |
| SECTION II - PRELIMINARY ENVIRONMENTAL SURVEY. Including cumulative effects.) (+ = positive effect; 0 = | (Check appropriate box and describe potential environments no effect; = adverse effect; U= unknown effect) | tal effects | + | 0 | - | U | |
| 7. AIR INSTALLATION COMPATIBLE USE ZONE/LAND USE (No. | oise, accident potential, encroachment, etc.) | | | \boxtimes | | | |
| 8. AIR QUALITY (Emissions, attainment status, state implementa | ation plan, etc.) | | | \boxtimes | | | |
| 9. WATER RESOURCES (Quality, quantity, source, etc.) | | | | \boxtimes | | | |
| SAFETY AND OCCUPATIONAL HEALTH (Asbestos/radiation/chemical exposure, explosives safety quantity-distance, bird/wildlife aircraft hazard, etc.) | | | | | | | |
| 11. HAZARDOUS MATERIALS/WASTE (Use/storage/generation, | solid waste, etc.) | | | | \boxtimes | | |
| 12. BIOLOGICAL RESOURCES (Wetlands/floodplains, threatene | ed or endangered species, etc.) | | | \boxtimes | | | |
| 13. CULTURAL RESOURCES (Native American burial sites, arc | haeological, historical, etc.) | | | \boxtimes | | | |
| 14. GEOLOGY AND SOILS (Topography, minerals, geothermal, i | Installation Restoration Program, seismicity, etc.) | | | \boxtimes | | | |
| 15. SOCIOECONOMIC (Employment/population projections, sch | ool and local fiscal impacts, etc.) | | | \boxtimes | | | |
| 16. OTHER (Potential impacts not addressed above.) | | | | \boxtimes | | | |
| SECTION III - ENVIRONMENTAL ANALYSIS DETERMINA | TION | | | | | | |
| 17. PROPOSED ACTION QUALIFIES FOR CATEGORICA PROPOSED ACTION DOES NOT QUALIFY FOR A CA | L EXCLUSION (CATEX) #; OR TEX; FURTHER ENVIRONMENTAL ANALYSIS IS REQUIRED. | | | | | | |
| 18. REMARKS | | | | | | | |
| This action is not "regionally significant" and does a The total emission of criteria pollutants from the pr the Air Quality Region's planning inventory. | | | | | | | |
| | | • • • • • • • • • • • • • • • • • • • | | | | | |
| 19. ENVIRONMENTAL PLANNING FUNCTION CERTIFICATION (Name and Grade) WAYNE A. COOR D.E.M. GS 12 | 19a. SIGNATURE | | | DATE | | / | |
| WAYNE A. KOOP, R.E.M., GS-13 Environmental Management Flight Chief | I Mh / Tork | | $-J_t$ | 's M | 141 | 1 | |

AF FORM 813, SEP 99, CONTINUATION SHEET

- 4.0 Purpose and Need for Action, RCS # 2006-176, Demolish Buildings 644, 645 and 646 (JFSD200373)
- 4.1 Purpose of the Action (mission objectives-who proposes to do what, where, when): Grand Forks AFB proposes to demolish Buildings 644, 645 and 646 on project number JFSD200373. The metal facilities contain the electronic and electrical cabinets of the CASS, Centralized Aircraft Support System, installed in 1991, located between Charlie Ramp and the taxiway. See attached maps and photos.
- 4.2 Need for the Action (why this action is desired or required-why here, why now): Facilities were constructed to support the B-1B Lancer bomber aircraft era and are no longer needed. The CASS switch stations have not been used since 1994. The facilities continue to degenerate from non-use.
- 4.3 Objectives for the Action (what goal do you wish to accomplish): Demolish Buildings 644, 645 and 646 to provide room for a new mission, or a new use of the land area, and eliminate three airfield waivers.
- 4.4 Related EISs/EAs and other documents (similar projects in the past):1985-011,CASS Equipment Facilities & Installation.
- 4.5 Decision that must be made: Demolish Buildings 644, 645 and 646 and all associated equipment and utilities.
- 4.6 Applicable Regulatory Requirements and Required Coordination-- required permits, licenses, entitlements: Applicable regulatory requirements and required coordination before and during construction include a Work Clearance Request, Stormwater Protection Plan, Dust Control Plan, Spill Control Plan, and Erosion and Sediment Control Plan to the CEV Water Program Manager; a Spill Control Plan and Waste Disposal Plan to the CEV Pollution Prevention Manager; and copies of all plans to the Contracting Officer.
- 5.0 Description of Proposed Action and Alternatives
- 5.1 Description of the proposed action (in brief, introduction): Demolish Buildings 644, 645 and 646 and all associated utilities.
- 5.2 Selection criteria for Alternatives
- 5.2.1 Minimum mission requirements: effectiveness, timeliness, cost effective, legality, safety, efficiency, force protection.
- 5.2.2 Minimum environmental standards: noise, air, water, safety, HW, vegetation, cultural, geology, soils, socioeconomic.
- 5.3 Alternatives Considered but Eliminated from Detailed Study: None
- 5.4 Description of proposed alternatives
- 5.4.1 No-action alternative: The no action alternative would be to leave the facilities as they are. The existing CASS switch station facilities 644, 645 and 646 will continue to remain a waivered airfield obstruction. Buildings 644, 645 and 646 will continue to be unused, abandoned facilities requiring maintenance and repair.
- Proposed Action: Grand Forks AFB proposes to demolish the CASS switch stations, Buildings 644, 645 and 646, on 5.4.2 project number JFSD200373. Excavate, remove and dispose of all associated structures, piping, electronics, communications, lighting, utilities and debris, including pad mount transformers to the southwest of each facility. Backfill and compact the site excavation area. Remove all utilities to the junction point nearest the taxiway and ramp. Cap utilities as needed. Deliver the transformers to the base electric shop once power is terminated. Recycle the electronics and metals. Remove all hazardous materials, such as lead, lead-base paint, mercury, asbestos, etc., according to the latest federal, state or local codes. All hazardous material abatement, such as PCB ballast or mercury switch removal, shall be complete before the building demolition commences. The building foundation and footings shall be entirely removed to ten feet below the existing surface. Off-site clean fill shall be used to backfill. Concrete may not be used as site fill. The backfill material shall be free of bentonite, trash, frozen or organic material including lignites, humus, sod, grass, roots or other vegetation. The backfill material shall not be of a size greater than 3 inches, may not contain more than 12 percent shale, and not may contain greater than 20% sand. A minimum of six inches of topsoil shall be placed over over the site and graded to match surrounding contours and be sodded. The concrete from the foundations may be salvaged by the contractor or hauled to a licensed landfill. Soil remediation and testing will not be necessary at Building 646 as the site is an active Environmental Restoration Program (ERP) site with five ground water monitoring wells to the north, east and south. The contractor shall avoid the monitoring wells and is responsible for any damage to the wells.
- 5.4.3 Another Reasonable Action Alternative: Remodel and reutilize the facilities for another mission.
- 5.5 Description of Past and Reasonably Foreseeable Future Actions Relevant to Cumulative Impacts: 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.
- 5.6 Recommendation of preferred alternative: Demolish Buildings 644, 645 and 646 and all associated equipment and utilities.

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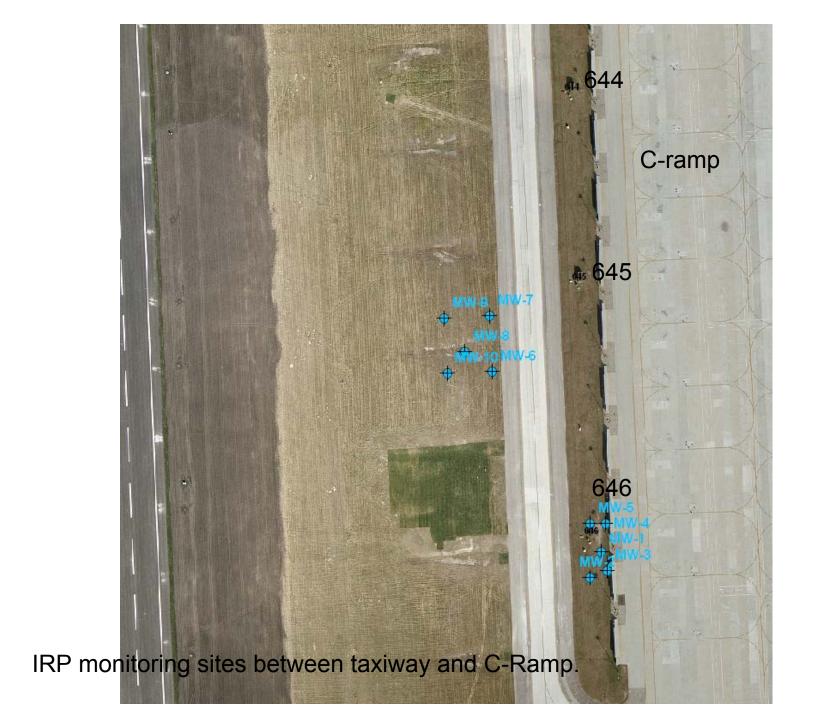
APPENDIX E LOCATION MAP OF BUILDING 644, 645 and 646

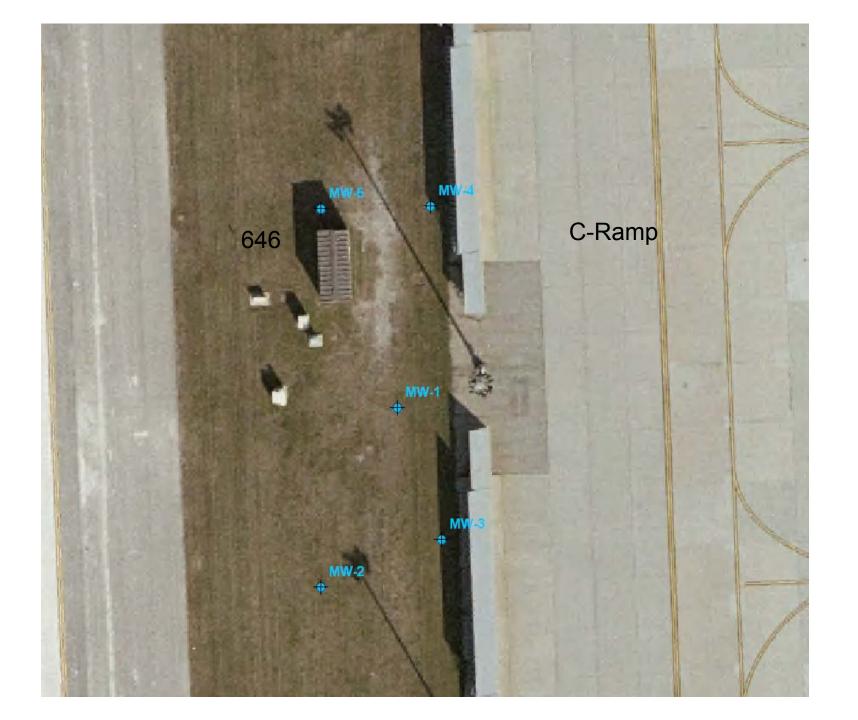


Base Buildings

| Rec | Description | Address | Building Number |
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| 1 | ELEC SWITCH STN | | 644 |
| 2 | ELEC SWITCH STN | 3. | 645 |
| 3 | ELEC SWITCH STN | | 646 |

Zoom to these reports





APPENDIX F PHOTOGRAPHS

DEMO CASS SWITCH STATIONS









































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| | STATE OF NORTH DAKOTA) SS | | | | | | |
| | COUNTY OF GRAND FORKS SS. | | | | | | |
| | of said St | ate and County being | | | | | |
| Public Notices | first duly sworn, on oath says: $\int \int \int$ | | | | | | |
| Air Force Base Public Notice Grand Forks Air Force Base has proposed the demolition of three switch station facilities (644, 645 and 646) on base. | That $\left\{\begin{array}{c} \text{she} \\ \text{he} \end{array}\right\}$ is $\left\{\begin{array}{c} \text{a representative of the GRAND FOR} \end{array}\right.$ | | | | | | |
| An environmental assessment has been conducted and a finding of no significant impact has been determined for this action. Anyone wishing to view the support documents to this action should contact the 319th Air Refueling Wing Public Affairs Office within | publisher of the Grand Forks Herald, Morning Edition, a daily newspan tion, printed and published in the City of Grand Forks, in said Counbeen during the time hereinafter mentioned, and that the advertiser of Country and the country of Country and the published apprinted and published and publis | ty and State, and has nent of | | | | | |
| the next 30 days at 747-5017 or 747-5608. (May 18, 20, 2006) | following issues of said newspaper, for a period of | time (s) to wit | | | | | |
| , , , , , , , , , , , , , , , , , , , , | 5-18 Yr.06 | Yr | | | | | |
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| | Yrand that the full amount of the fee for the publication of the annexed | Yr | | | | | |
| ublication Fee \$ 18-46 | and that the full amount of the fee for the publication of the annexed the benefit of the publishers of said newspaper; that no agreement division thereof has been made with any other person and that no pagreed to be paid to any person whomsoever and the amount of said. That said newspaper was, at the time of the aforesaid publication qualified Official Newspaper within said County, and qualified in account the State of North Dakota to do legal printing in said County and St | or understanding for a part thereof has been aid fee is on, the duly elected and cordance with the law o | | | | | |
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| STATE OF SORTH DAKOTA | Subscribed and sworn to before me this | day of | | | | | |
| My Commission Re: Feb. 7, 2007 | Notary Pul | blic, Grand Forks, ND | | | | | |
| | rectary i us | one, arang rome, MD | | | | | |

Public Notices

IN DISTRICT COURT, GRAND FORKS COUNTY, NORTH DAKOTA
In the Matter of the Estate of ELIZABETH
ESTHER BOULDEN, aka BETTY BOULDEN,

Deceased
Probate No. 18-06-P-49
NOTICE TO CREDITORS

NOTICE IS HEREBY GIVEN that Keith O. Boulden and Cameron P. Boulden have been appointed co-personal representatives of the estate of Elizabeth Esther Boulden, aka Betty Bouldon, on the 19th day of April 2006. All persons having claims against Elizabeth Espersons having claims against Elizabeth es-ther Boulden, aka Betty Boulden, are required to present their claims within three months after the date of the first publication of this no-tice, or said claims will be forever barred. Claims must either be presented to Keith O. Boulden or Cameron P. Boulden, co-personal representatives of the estate, at c/o DON HAGER LAW OFFICES, P.O. Box 500, Larimore, North Dakota 58251, or filed with the above Court.

Dated this 24th day of April 2006. Keith O. Boulden Co-Personal Representative Cameron P. Boulden Co-Personal Representative DON HAGER, Esq. Don Hager Law Offices 226 Towner Avenue P.O. Box 500 Larimore, N.D. 58251 Tel. (701) 343-6487 N.D. License #04382 Attorney for Estate (May 4, 11 & 18, 2006)

SECTION 00020 INVITATION TO BID PROJECT. Tower Addition and Packaging Conveyor Line
North Dakota Mill & Elevator Association

Grand Forks, North Dakota BIDS CLOSE. Thursday, May 25, 2006 at 2:00 PM Local Time. Bids will be opened at that

DATE OF ISSUE. May 2006 OUTLINE OF PROJECT. Addition of a tower and packaging conveyor line. Work includes demolition, excavating, concrete foundations and slabs, structural steel framing, miscellaneous metals, insulation, metal panel roofing and siding and installation of Owner furnished equipment. The Owner will complete mechanical HVAC and electrical work.

TYPE OF BIDS. Single prime bids will be received for all portions of the work.
THE OWNER. North Dakota Mill & Elevator

Association 1823 Mill Road

Grand Forks, ND 58203

BID PLACE. The North Dakota Mill & Elevator conference room.

conference room.
Bids received after 2:00 pm on May 25, 2006
will not be accepted. All interested parties are
invited to attend. Bids will be opened and
publicly read aloud on May 25, 2006 at 2:00 pm. It is the bidders responsibility to see that mailed or delivered bids are in the hands of the Owner prior to the time of the bid opening. The bid will be awarded to the lowest and best bidder.

OBTAINING DOCUMENTS. Drawings and Specifications may be examined at the Own-er's office at the address shown above.

Bidding documents may be obtained by prime bidders and major sub-bidders from the Owner upon request. A deposit of \$50.00 is required for one set. If the bidder returns the set of documents, in good condition, within 10 days following the bid date, the deposit will be refunded. If the bidder does not return the set of documents within the designated time, none of the deposit will be refunded.

Partial or complete sets of prints and specifications may be obtained from the Owner by other than the above. The sets or partial sets will be distributed upon receipt of payment for the information charged at the current reproduction rate. None of this payment will be refunded. Completeness and adequacy of the list of documents requested shall be the responsibility of the person making the request. BID SECURITY. Bid Security in the amount of five (5%) percent of the bid including all add alternates, must accompany each Bid. Cash, Bidders Bond, cashier's checks or certified checks will be accepted. This bid security must be submitted in a separate envelope

with your bid.

NORTH DAKOTA LAW. All bidders must be licensed for the highest amount of their bids, as provided by North Dakota Century Code Section 43-07-05; and no bid will be read or considered which does not fully comply with the

Public Notices

2. Grading and leveling the existing baseball 3. Cost estimate for black dirt based on cubic

Cost of leveling black dirt based on square footage and or cubic yards.

rodage and or color yarro.

5. Cost for sod based on square footage.

6. Cost for the laying of sod in the infield and outfield based on square footage.

7. Cost for baseball field aggregate based on

cubic yards.

8. Cost for leveling baseball field aggregate

based on square footage and cubic yards.

9. Cost for underlying protective barrier in in

nero area.

10. Removal of top layer of material from existing outside track which has eight lanes.

11. Reapplication of top layer on track which is comprised of a rubber composite material

is comprised of a rubber composite material used on outside track surfaces.

12. Painting and striping of track.
For appointments and inquires, please contact Dennis DeCoteau at (701)-477-6471 ext 224.

(May 6, 9, 11, 13, 16, 18, 2006)

STATE OF NORTH DAKOTA COUNTY OF GRAND FORKS IN DISTRICT COURT NORTHEAST CENTRAL JUDICIAL DISTRICT Probate Division
In the Matter of the Estate of Carol J. Dale,

Deceased

PROBATE NO. 06-P-54
NOTICE TO CREDITORS

NOTICE IS HEREBY GIVEN that the undersigned has been appointed Personal Representative of the above estate. All persons having claims against the said deceased are required to present their claims within three required to present their claims within three months after the date of the first publication of this notice or said claims will be forever barred. Claims must either be presented to David Dwight Dale, Personal Representative of the Estate, at 418 N. Main, Crookston, MN 56716.

Dated this 3rd day of May, 2006. DAVID DWIGHT DALE SANDRA B. DITTUS Santona B. Diffus Zimney Foster P.C. 3100 South Columbia Road, Ste. 200 Grand Forks, N. D. 58208-3417 Telephone Number (701) 772-8111 Attorneys for: Estate of Carol J. Dale (May 11, 18, 25, 2006)

ADVERTISEMENT FOR BIDS

OWNER: City of Langdon
ADDRESS: 324 8th Avenue, Langdon, ND ADDRESS: 58249-2598

58249-2598
Notice is hereby given that sealed bids for furnishing all labor, materials, equipment, other facilities, and items necessary or incidental to 2006 City Wide Seal Coat will be received by the City of Langdon at the City Auditor's Office, and will be publicly opened and aloud at the Langdon City Hall at 2:00 p.m., local time, on Thursday, June 1, 2006. Bids can be mailed to: City of Langdon c/o Tina Gustafson. City Auditor

c/o Tina Gustafson, City Auditor

324 8th Avenue Langdon, ND 58249-2598

Langdon, ND 58249-2598
The Work generally consists of furnishing and installing the following:
All labor and materials for the seal coat pavement improvements in the City of Langdon, as shown on the Drawings, including approximately 82,959 gallons of emulsified asphalt (CRS-2) and 2,318 tons of seal aggregate (NDDOT Class 43) encompassing approximately 319,249 square yards of existing pavement. Also included in the work is the cleaning of street surfaces and the protection of all existing structures and appurtenances prior to existing structures and appurtenances prior to seal coat placement as well as traffic control and surface restoration identified in the con-

and surface restoration identified in the con-struction documents.

Note: listed quantities are an approximation only. Actual quantities will vary depending on existing conditions in the field and the Con-tractor's tested aggregate gradation submit-ted to the engineer after project award.

Each Bid must be submitted on a Bid form in a securely sealed bidding envelope. The enve-lope shall be plainly marked to indicate its contents and shall show the name of the person, firm, or corporation submitting the Bid

and the Project title.

Each bid must be completed in accordance Each bid must be completed in accordance with the Bidding Documents and accompanied by a separate envelope containing an acceptable Bidder's bond and Contractor's license or certificate of renewal issued by the Secretary of State. The Bond shall be payable to the City of Langdon in the amount equal to five percent (5%) of the full amount of the Bid, executed by the Bidder as principal and by a executed by the Bidder as principal and by a Surety, authorized to do business in the State of North Dakota meeting the requirements of the Bidding Documents, conditioned that if the principal's Bid is accepted and the con-

Public Notices

discs (CDs) from Advanced Engineering and Environmental Services, Inc. The costs for each set of Bidding Documents obtained are \$25.00 for CDs and \$75.00 for printed documents. Payment for Bidding Documents is NON-REFUNDABLE. All Work shall be done according to the Bidding Documents.

Bidding Documents may also be examined at

Bidding Documents may also the following locations: Advanced Engineering and Environmental Services, Inc. 3101 Frontage Road S Moorhead, MN 56560 Advanced Engineering and Environmental Services, Inc. 1815 S Schafer St. Suite 301 Bismarck, ND 58501 Advanced Engineering and Environmental Services, Inc. 2011 6th Street S Brainerd, MN 56401

Brainerd, MN 56401 Minneapolis Builders Exchange 1123 Glenwood Ave N Minneapolis, MN 55405 Fargo Builders Exchange 1010 Page Drive Fargo, ND 58102 Grand Forks Builders Exchange 2311 Scuth Morbinston St 3311 South Washington St. Grand Forks, ND 58201

Reed Construction Data 9443 Science Center Drive Minneapolis, MN 55428 The construction of the work must begin no sooner than July 31, 2006. The construction of

the work must be completed no later than the following:

rollowing:
a) Substantial Completion: September 1, 2006
b) Final Completion: September 15, 2006
The City reserves the right to reject any or all bids, and further reserves the right to award the Contract in the best interests of the City. the Contract in the best interests of the City. The City reserves the right to hold the three low bids for a period of thirty-five (35) days after the date of the bid opening.

All costs associated with preparation of bids shall be borne by the Bidder.

Done by order of the City Commission of the City of Langdon, North Dakota, May 12, 2006.

/s/ Tina Gustafson
City Auditor
(May 18, 2006)

- NOTICE OF FAA APPROVAL OF -Finding Of No Significant Impact For

FOR Minimize Wildlife Hazards at Grand Forks International Airport Grand Forks, North Dakota NOTICE IS HEREBY GIVEN that the Federal

Aviation Administration (FAA) has announced an approved Finding of No Significant Impact (FONSI) for proposed improvements at the Grand Forks International Airport, Grand Forks, North Dakota.

Forks, North Dakota.

The FONS I indicates the project is consistent with existing environmental policies and objectives as set forth in the National Environmental Policy Act of 1969 and will not significantly affect the quality of the human environmental.

The proposed action is to reduce the attraction of the airport to high-risk wildlife species which includes the elimination of 82.2 acres of wetlands. These wetlands consist of approximately 6.2 acres of U.S. Army Corps of Engi-neers (USACE) jurisdictional wetlands and ap-proximately 76 acres of non-jurisdictional wet-

lands typical of prairie potholes.

The proposed action will enhance safety by reducing the potential for wildlife-aircraft strikes by implementing long-term action that reduces and mitigates the attraction of the Airport to wildlife.

port to wildine.

The Airport shall perform mitigation required by the USACE permit conditions to mitigate for the unavoidable loss of jurisdictional wetlands associated with the wildlife hazard mitigation. Jurisdictional wetland mitigation will consist primarily of wetland restoration at a ratio of at least 1.5 acres of restored wetland to 1 acre of wetland impact.

The Airport shall implement mitigation for approximately 76 acres of wetlands to mitigate for the unavoidable loss of non-jurisdictional wetlands associated with the wildlife hazard mitigation. Non-jurisdictional wetland mitiga-

mitigation. Non-jurisdictional wetland mitiga-tion will consist primarily of wetland restora-tion at a ratio of at least 1 acre of restored wetland to 1 acre of wetland impact. All mitigation shall be conducted off-site to avoid the creation of wildlife attractants, sub-ject to FAA Advisory Circular 150/5200-33A, "Hazardous Wildlife Attractants On or Near Mitigation and restoration of wetlands shall

avoid the creation of wildlife attractants near the Grand Forks Air Force Base. The wetland mitigation shall be coordinated through the U.S. Army Corps of Engineers, the **Public Notices**

City of Gilby, North Dakota
The City of Gilby was awarded Community
Development Block Grant Funding (CDBG) to
pay special assessments of qualified residents
which are related to the City of Gilby Lagoon Rehabilitation Project.

Henabilitation Project.
The households of Michael Bethel and Scott Huist of the City of Gilby are qualified to receive this CDBG program funding. Michael Bethel is the mayor of the City of Gilby and the wife of Scott Hulst served as a volunteer on the Special Assessment Committee during the Lagoon Rehabilitation Project. The CDBG program eligibility of City of Gilby officials creates a conflict of interest for CDBG program purposes if such officials exercised or possessed authority to make decisions re-

garding the Lagoon Rehabilitation Project.
Any comments regarding the use of CDBG funds for the City of Gilby Lagoon Rehabilitation Project and the eligibility of City of Gilby Officials to receive qualifying CDBG benefits should be filed in writing on or before May 29, 2006, and addressed to: Edith Johnson

City Auditor P.O. Box 86 Gilby, ND 58235 (May 18, 2006)

Air Force Base Public Notice

Grand Forks Air Force Base has proposed the demolition of three switch station facilities (644, 645 and 646) on base.

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

Anyone wishing to view the support docu-ments to this action should contact the 319th Air Refueling Wing Public Affairs Office within the next 30 days at 747-5017 or 747-5608. (May 18, 20, 2006)

REQUEST FOR PROPOSALS FUEL FARM ELEVATED WALKWAY GRAND FORKS INTERNATIONAL AIRPORT

The Grand Forks Regional Airport Authority is requesting proposals for design and construction of an exterior elevated steel walkway with associated stairways and railings for accessing existing fuel farm valves and tank ladors. Proposals must include a bid with all costs for materials and labor. Proposals with bids will be received until 4:30 P.M. CST on June 8, 2006, and then reviewed. Submit proposals with bids to the following: Proposal requirements are on file and may be

Rick Audette, Operations & Maintenance Man-

ager
Grand Forks Regional Airport Authority

2787 Airport Drive Grand Forks, ND. 58203 (701)-795-6978 (701)-795-6979 FAX raudette@gfkairport.com

The Airport Authority reserves the right to reject any or all proposals-bids or to waive any informalities and to accept the proposal-bid that is to the advantage and is in the best interest of the Grand Forks International Airport. (May 18, 27, June 1, 2006)

SECTION 00020 INVITATION TO BID PROJECT. East Grand Forks Civic Center Renovation

300 - 15th St. NE

ABBREVIATED NOTICE OF INTENT TO AMEND ADMINISTRATIVE RULES

relating to Industrial Hemp Regulations

North Dakota Department of Agriculture

will hold a public hearing to address proposed additions to the N.D. Administrative Code pertaining to the Industrial Hemp Regulations.

Lecture Room B

East Gran BIDS CLOSE PM CDST PROJECT #. DATE OF ISS BY. EAPC

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Mayor L (218) 77 Wayne Ob (218) 773-7 BID PLACE.

Chambers 600 DeMer East Grand Bids receive not be accer vited to atte licly read alor to see that m hands of the opening.

> report of th proposed r and an es directs it to examine it for constru the improv-

servina the

Location: : Meadow R

FURTHER levied upor to-wit:

Lot 1, Bloc ly 170 ft. € South in Township

exceeding

Public Notices

Air Force Base

All Force Base
Public Notice
Grand Forks Air Force Base has proposed
the demolition of three switch station facilities
(644, 645 and 646) on base.

An environmental assessment has been conducted and a finding of no significant impact has been determined for this action. Anyone wishing 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 or 747-5608. (May 18, 20, 2006)

Notice To Competitors Of Hearing On Application For Property Tax Incentives
Notice is hereby given that the City Council of
the City of Grand Forks, North Dakota, will
meet at 7:00 p.m. on Monday June 12, 2006

at Grand Forks City Hall, 255 North 4th Street, Grand Forks, ND 58203 to consider the application of Production Specialties Corp., dba PS Doors, 4212 Gateway Drive, Grand Forks, ND 58203 for property tax relief on the project which the applicant will use for the manufac-

turing of specialty industrial door and safety products at: 1150 South 48th Street, Grand Forks, ND 58201 Lot 1, Block 1, Maier's 4th ReSubdivision to the City of Grand Forks

Any competitor of that applicant may appear and be heard by the City Council at the time and place designated herein. A competitor may provide written comments to the governing body before the scheduled hearing. This notice is given by the above-named ap-

plicant pursuant to the provisions of North Da-kota Century Code §40-57.1-03 (May 20, 27, 2006)

Public Notices

NOTICE OF PUBLIC HEARING TO AMEND THE STREET AND HIGHWAY PLAN OF THE CITY OF GRAND FORKS TO INCLUDE THE PUBLIC RW SHOWN AS DEDICATED ON PLAT OF KNIPE'S FIRST AD-DITION

Notice to the public is hereby given that the city council proposed to amend the Street and Highway Plan of the city of Grand Forks to include the streets and public rights of way shown as dedicated on the plat of Knipe's First Addition to the city of Grand Forks, ND (located in the 3000 block of South 69th Street).

Pursuant to Section 40-48-16 of the North Dakota Century Code, as amended, notice is hereby given that on the 5th day of June, 2006, in the council chambers in the City Hall

in the city of Grand Forks, North Dakota, at in the city of Grand Forks, North Dakota, at the hour of 7:00 o'clock p.m. a public hearing will be held by the city council to the city of Grand Forks, at which time all citizens and in-terested parties will have an opportunity to be heard upon the aforementioned proposal.

Dated: May 16, 2006 John M. Schmisek

(seal)

Auction Company Clerking North Dakota Lic. # 532.

City Auditor (May 20, 27, 2006)

The Manvel School Board met on Monday, April 10th, 2006 at 7:30 P.M. at the school. Members present: M. Johnson, T. Ferry, S. Dockter, B. Moody, and K. Thibert. Dockter, B. Moody, and K. Thibert. Approved: March minutes. M/S/U Ferry, John-

Approved: Financial Report and Payment of Bills. M/S/U Dockter, Ferry.
Discussed: Long Range Planning Meeting Approved: Open enrollment cancellation for Bayne. M/S/U Dockter, Ferry.
Approved: Appointment of Richard Ray as Migrant School Director. M/S/U Thibert, John-

Public Notices

son. Approved: Application of Migrant School. M/ S/U Thibert, Ferry. Approved: Consolidated Grant Application. M/S/U Thibert, Dockter.

Approved: School Board Election date of June 2006. M/S/U Dockter, Johnson.

b, 2000. M/3/O Dockter, ordinator.
Discussed: Staffing
Discussed: Teacher Negotiations Proposal
Approved: Mr. Ray's resignation as of June
30, 2006. M/S/U Thibert, Dockter.

Adjourned: Dockter, and Thibert seconded Respectfully submitted, Catherine Hatt, Business Manager (May 20, 2006)

GRAND FORKS COUNTY COMMISSION MEETING May 2, 2006 - 4:00 P.M.

The Board met pursuant to adjournment with Commissioners Kvasager, Yahna, Triplett

Malm and Murphy present.
Moved by Malm, seconded by Yahna, to approve the minutes of the April 18, 2006 meeting. Motion carried.
Moved by Murphy, seconded by Triplett, to approve the order of the agenda. Motion car-

red.

Moved by Yahna, seconded by Murphy, to approve the consent agenda. Items in the consent agenda include bills as submitted by the County Auditor, Check #114530 thru Check #114712 in the amount of \$365,206.97, overtime and bonds for check reissue. Motion

carned.
Sherry Stover, NDSU Extension Office, addressed the board.
Moved by Murphy, seconded by Yahna, to approve the in-kind support for the Family Nutrition Program during the granting period of

Public Notices

October 2006 through September 2007. Motion carried. Lane Magnuson, County Planner, addressed the board.

Moved by Yahna, seconded by Malm, to approve the application of Tom Paulson for the

Plat of Paulson Subdivision consisting of 1 lot

Plat of Pauson Subdivision Consisting of 1 for on 7.16 acros in section 36, Elim Grove Township, Motion carried.

Moved by Triplett, seconded by Murphy, to continue the current planning action procedures used in the Grand Forks County Plan-

ning and Zoning Office. Motion carried. The

rang and Zoning Office. Motion carried. The procedures are on file in the Grand Forks County Planning and Zoning Office. At 4:15pm the Chairman opened the public hearing on the dangerous building located in the NW1/4 of section 5, Brenna Township. No

one from the public appeared. The hearing

One from the public appears.

Was closed.

Moved by Malm, seconded by Murphy, to forward the dangerous building complaint to the States Attorney's office and have the demolition of the subject building put out for bids. In

addition, any costs incurred by the County from this action will be assessed on the property tax bill on the subject property per Subdivision 16 of the Grand Forks County Zoning Resolution. Motion carried.

The email received from Mr. Christopher D.

Jordheim will be received and filed.

Jim Campbell, Emergency Management Director, gave the Grand Forks County preliminary damage assessment from the flooding in Grand Forks County during the spring of 2006. The preliminary total is \$1,325,400.

Richard Onstad, Highway Superintendent, addressed the board. Moved by Murphy, seconded by Yahna, to approve a resolution to award Mayo Construction the contract for project SC-1808(057) on County Road 33 and authorize

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NOTICE OF PUBLIC AUCTION SALE OF ABANDONED PROPERTY GRAND FORKS POLICE DEPARTMENT GRAND FORKS NORTH DAKOTA

The following abandoned and unclaimed motor vehicles have been in the possession of the Grand Forks Police Department for more than fifteen (15) days and other ty for more than sixty (60) days and will be sold at public auction to the highest bidder in accordance with section 39-24-08 and 40-05-02 (20) of the North Dakota Century Code. Sale starting at 9:00 AM in the City Impound Lot, 1800 36 St N, Grand Forks North Dakota, Saturday June 3, 2006. Auctioneer North Dakota Lic. # 732 David Leonardi Auctioneer.

MOTOR VEHICLES OFFERED FOR SALE

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Rising fuel prices are sparking the need for all of us to look for creative ways to reduce our energy usage. In fact, the president has directed all government agencies to conserve. This challenging goal cannot be accomplished without the help of the entire base community. Below are a few quick tips that you and your family can use to help reduce our consumption:

- 1. Turn off lights when they are not needed. Make sure exterior lights are turned off during daylight hours.
- 2. Set air conditioning temperatures no lower than 78 degrees and heating temperatures no higher than 68 degrees.
- 3. Turn down building thermostats during unoccupied hours and while sleeping.
- 4. Turn off building air conditioning during unoccupied hours.
- 5. Ensure furniture or other items don't obstruct ventilation.
- 6. Make sure monitors, printers, copiers and other appliances are turned off when not in use.
- 7. If you have suggestions or ideas to help reduce energy use, or if you have any questions, call the 319th Civil Engineer Squadron at 747-5159, 6371 or 4652.

Public notice

Grand Forks Air Force Base has proposed the demolition of three switch station facilities (644, 645 and 646) on base.

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

Anyone wishing 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 or 747-5608.

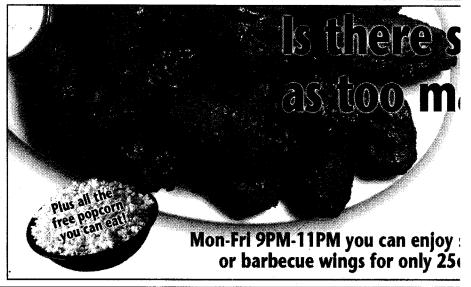
Thrift shop

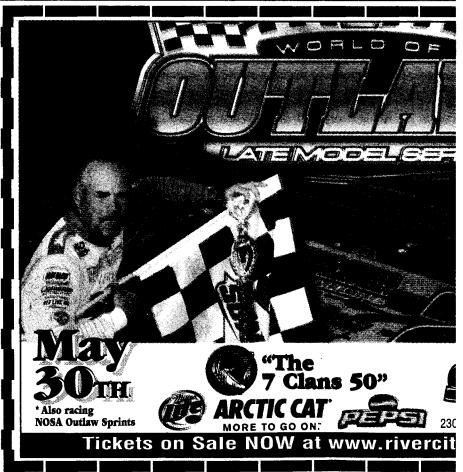
Consignments are taken from 10 a.m. to noon on days open.

Donations are accepted from 10 a.m. to 2 p.m. on Tuesdays, Fridays and the first Saturday of the month.

Please do not leave boxes or bags of donations at the door or building. Due to safety concerns unattended packages will be disposed of. If you have donations to give and you can not drop off during regular hours please call the thrift shop at 747-3136.







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ENVIRONMENTAL HEALTH SECTION Gold Seal Center, 918 E. Divide Ave. Bismarck, ND 58501-1947 701.328.5200 (fax) www.ndhealth.gov

June 20, 2006

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

Re:

Draft Environmental Assessment, Demolition of CASS Switch Stations Buildings 644, 645 & 646 at 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 May 16, 2006, with respect to possible environmental impacts.

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

- 1. All necessary measures must be taken to minimize fugitive dust emissions created during demolition activities. Any complaints that may arise are to be dealt with in an efficient and effective manner.
- 2. Projects disturbing one or more acres are required to have a permit to discharge storm water runoff until the site is stabilized by the reestablishment of vegetation or other permanent cover. Further information on the storm water permit may be obtained from the Department's website or by calling the Division of Water Quality (701-328-5210). Also, cities may impose additional requirements and/or specific best management practices for demolition affecting their storm drainage system. Check with the local officials to be sure any local storm water management considerations are addressed.
- 3. All necessary measures must be taken to minimize the disturbance of any asbestos-containing material and to prevent any asbestos fiber release episodes. Removal of any friable asbestos-containing material must be accomplished in accordance with section 33-15-13-02 of the North Dakota air pollution control rules.
- 4. Noise from demolition activities may have adverse effects on persons who live near the demolition area. Noise levels can be minimized by ensuring that demolition equipment is equipped with a recommended muffler in good working order. Noise effects can also be

minimized by ensuring that demolition activities are not conducted during early morning or late evening hours.

5. 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 noninert 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.

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.

L. David Glatt, P.E., Chief Environmental Health Section

LDG:cc



John Hoeven Governor of North Dakota May 17, 2006

North Dakota State Historical Board

> Marvin L. Kaiser Williston - President

Albert I. Berger Grand Forks - Vice President

> Chester E. Nelson, Jr. Bismarck - Secretary

> > Gereld Gerntholz Valley City

> > A. Ruric Todd III Jamestown

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John E. Von Rueden Bismarck

Sara Otte Coleman Director Tourism Division

> Kelly Schmidt State Treasurer

Alvin A. Jaeger Secretary of State

Douglass Prchal Director Parks and Recreation Department

David A. Sprynczynatyk Director Department of Transportation

Merlan E. Paaverud, Jr.

Ms. Diane M. Strom
Environmental Impact Analysis Program
319 CES/CEVA, Room 128
525 Tuskegee Airmen Blvd
Grand Forks AFB ND 58205-6434

ND SHPO 97-0527Z: EA Demolish CASS Switch Stations Buildings 644, 645, 646 Grand Forks Air Force Base, North Dakota

Dear Ms. Strom,

We reviewed ND SHPO 06-0636: EA: Demolish CASS Switch Stations Buildings 644, 645, 646 Grand Forks Air Force Base, North Dakota and concur with a "No Historic Properties Affected" determination, provided the project is of the nature specified and takes place in the legal description outlined and mapped in the draft report.

If you have any questions please contact Susan Quinnell, at (701) 328-3576 or squinnell@nd.gov

Sincerely,

Merlan E. Paaverud, Jr.

State Historic Preservation Officer (North Dakota)

Accredited by the American Association of Museums From: Schumacher, John D. [jdschumacher@nd.gov]

Sent: Tuesday, May 30, 2006 11:43 AM **To:** Strom Diane Civ 319 CES/CEVA

Subject: RE: Review of EA to Demolish Buildings 644, 645 and 646 at Grand Forks AFB The North Dakota Game and Fish Department has reviewed this project for wildlife concerns. We do not believe it will have any significant adverse effects on wildlife or wildlife habitat, including endangered species, based on the information provided.

Sincerely, John Schumacher Resource Biologist NDGFD jdschumacher@nd.gov

----Original Message-----

From: Strom Diane Civ 319 CES/CEVA [mailto:Diane.Strom@grandforks.af.mil]

Sent: Tuesday, May 16, 2006 1:08 PM

To: Dwelle, Terry L.; Boyd, James R.; Steinwand, Terry R.; Knudtson, Larry J.; Paaverud, Merl E.;

jeffrey_towner@fws.gov

Cc: Glatt, Dave D.; Leier, Joleen M.; Schumacher, John D.; Quinnell, Susan L.; Terry_Ellsworth@fws.gov;

Marie_Nelson@fws.gov

Subject: Review of EA to Demolish Buildings 644, 645 and 646 at Grand Forks AFB

We are soliciting your views and comments on the proposed project in the enclosed Environmental Assessment. Any information or comments relating to environmental or other matters that you might provide will be used in identifying constraints that should be considered during the development of the proposed action.

Please forward any comments of information within thirty days. Thank you for your assistance. Any questions or concerns can be addressed to me at the address below.

Sincerely,

Diane M Strom

Environmental Impact Analysis Program

319 CES/CEVA, Room 128

525 Tuskegee Airmen Blvd

Grand Forks AFB ND 58205-6434

Phone (701) 747-6394

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Diane.Strom@grandforks.af.mil

Strom Diane Civ 319 CES/CEVA

From: Terry_Ellsworth@fws.gov
Sent: Tuesday, May 16, 2006 1:48 PM
To: Strom Diane Civ 319 CES/CEVA

Cc: Jeffrey_Towner@fws.gov; Connie_Young-Dubovsky@fws.gov

Subject: Re: Review of EA to Demolish Buildings 644, 645 and 646 at Grand Forks AFB

Attachments: EA .pdf



Diane,

The Service has reviewed the subject report and finds that the project as described will have no significant impact on fish and wildlife resources.

No endangered or threatened species are known to occupy the project area.

If project design changes are made, please submit plans for review.

Terry Ellsworth North Dakota Ecological Services Field Office 3425 Miriam Avenue Bismarck, ND 58501

Office (701) 355-8505 Fax (701) 355-8513 Terry_Ellsworth@fws.gov

"Strom Diane Civ 319

<jeffrey_towner@fws.gov>

rks.af.mil> cc: <dglatt@state.nd.us>, <joleier@state.nd.us>, "Schumacher, John D." <jdschumacher@state.nd.us>, <Squinnell@state.nd.us>, <Terry Ellsworth@fws.gov>,

05/16/2006 01:07 PM < Marie_Nelson@fws.gov>

Subject: Review of EA to Demolish Buildings 644, 645 and 646 at Grand Forks AFB

We are soliciting your views and comments on the proposed project in the enclosed Environmental Assessment. Any information or comments relating to environmental or other matters that you might provide will be used in identifying constraints that should be considered during the development of the proposed action.

Please forward any comments of information within thirty days. Thank you for your assistance. Any questions or concerns can be addressed to me at the address below.

Sincerely,
Diane M. Strom
Environmental Impact Analysis Program

North Dakota

Department of Commerce

Community Services

Economic

Development & Finance

May 18, 2006

Tourism

Workforce Development



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Diane M. Strom
Dept. of the Air Force
319 CES/CEVA, Room 128
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.: ND060518-0206

Dear Ms. Strom:

SUBJECT: Draft EA/FONSI - Demolition of the CASS Switch Station Facilities

644, 645, and 646

The above referenced draft EA/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,

James R. Boyd

Manager of Governmental Services

Division of Community Services

bb