

Enbridge Pipelines (North Dakota) LLC

**Alexander, Trenton, Beaver Lodge, and Stanley Station Upgrades
Consolidated Letter of Intent and Application for a Waiver or
Reduction of Procedures and Time Schedules for an Amended
Corridor Certificate and/or Route Permit and for a Certificate of Site
Compatibility**

Public Service Commission of North Dakota

July 2006

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF NORTH DAKOTA

IN THE MATTER OF THE
APPLICATION OF ENBRIDGE
PIPELINES (NORTH DAKOTA) LLC
FOR THE UPGRADING OF PUMPING
AND STORAGE CAPACITY AT FOUR
EXISTING PUMPING STATIONS
LOCATED IN WILLIAMS, MOUNTRAIL
AND MCKENZIE COUNTIES, NORTH
DAKOTA.

**CONSOLIDATED LETTER OF INTENT
AND APPLICATION OF ENBRIDGE PIPELINES
(NORTH DAKOTA) LLC FOR WAIVER OR REDUCTION
OF PROCEDURES AND TIME SCHEDULES FOR AN
AMENDED CORRIDOR CERTIFICATE AND/OR ROUTE PERMIT,
AND FOR A CERTIFICATE OF SITE COMPATIBILITY**

Enbridge Pipelines (North Dakota) LLC ("Enbridge") whose address for purposes of this Application is 2625 Railway Avenue, Minot, North Dakota 58703, pursuant to the Energy Conversation and Transmission Facility Siting Act codified at North Dakota Century Code Chapter 49-22 ("Act"), hereby submits this Consolidated Letter of Intent and Application for Waiver or Reduction of Procedures and Time Schedules and for an Amended Corridor Certificate and/or Route Permit and Certificate of Site Compatibility ("Application"). Enbridge requests the North Dakota Public Service Commission ("Commission") waive and/or reduce procedures and time schedules required by the Act or in the Commission's regulations set forth in Title 69-06 of the North Dakota Administrative Code to accomplish the purposes as requested

herein. These include, but are not limited to: (1) waive or reduce the time period required for separate filing of a Letter of Intent and the one year time period provided for in § 69-06-03-01, North Dakota Administrative Code, for the filing of an Application; (2) waive, pursuant to North Dakota Century Code §§ 49-22-07.2, 49-22-13(2) and North Dakota Administrative Code § 69-06-01-02(3) and Chapter 69-06-06, provisions of North Dakota Century Code §§ 49-22-08(5), 49-22-08.1(5), 49-22-13 and North Dakota Administrative Code § 69-06-01-02 which requires separate filings of such applications, separate notices of such application, hearings on such applications and certain time schedules as set forth in said statutes and rules; (3) not hold a public hearing on this application, but pursuant to North Dakota Century Code § 49-22-13(2) and North Dakota Administrative Code § 69-06-01-02(3), publish a notice of opportunity for hearing as provided for therein; (4) find that the proposed facilities are of such design, location and purpose that they will produce minimal adverse effects; (5) that pursuant to North Dakota Century Code § 49-22-13(4), provide in the notice of opportunity for hearing that any request for a hearing be made in not more than ten days; and (6) designate and approve the requested facilities as identified in this Application, and issue the appropriate amended corridor certificate and/or route permit and certificate of site compatibility.

The Commission's application guidelines for waiver of procedures and time schedules requires a description of the facility, the need for the facility, the cost of the facility and separate justification for each provision of the Act for which the Applicant is requesting a waiver, together with evidence that the project will produce minimal adverse effects or that a demonstrable emergency exists. As demonstrated in this Application, and summarized below, Enbridge's requests for waivers or reduction of procedures and time schedules and the issuance

of an amended corridor certificate and/or route permit and certificate of site compatibility are justified as the proposed facilities are of such design, location and purpose that they will produce minimal adverse effects, and that the urgent demand for additional pipeline capacity in the Williston Basin requires immediate construction.

DESCRIPTION

The upgrades to the existing Alexander, Trenton, Beaver Lodge and Stanley stations are described in detail in this Application. All construction will take place on land already owned by Enbridge on which are located pumping and storage facilities.

On October 11, 1983, the Commission issued its Findings of Fact, Conclusions of Law and Order in Case No. 10,472 approving the construction of an eight-inch pipeline and associated facilities in McKenzie and Williams Counties, North Dakota, by Portal Pipeline Company. Enbridge has succeeded to the interest of Portal Pipeline Company in this pipeline and associated facilities. On the same date the Commission issued Certificate of Site Compatibility No. 40 and Route Permit No. 49 for this project. Enbridge hereby seeks amendments to said corridor certificate and/or route permit to allow the construction of the aforementioned facilities.

The Beaver Lodge and Stanley stations were initially constructed prior to passage of the Siting Act. The Beaver Lodge station was initially constructed in conjunction with the original Portal pipeline in approximately 1960 as an injection point to Amoco Oil Company's Mandan Refinery. Stanley Station was also constructed to serve the 1960 pipeline as a receipt point for the Mandan Refinery. Both stations were later upgraded to pumping stations. The 1960 pipeline

terminated at the Beaver Lodge station. Enbridge hereby seeks a certificate of site compatibility to allow the construction of the aforementioned facilities.

Enclosed with this Application are maps of the proposed station upgrades. Enbridge requests that these maps be accepted as a substitute for a mylar map required by the Commission application guidelines.

Enbridge desires to begin construction as soon as possible. The time schedule for completion is set forth in this Application.

NEED

As previously stated, Enbridge has received urgent requests from oil producers in the Williston Basin of North Dakota and Montana for immediate additional pipeline capacity to transport increased production of crude oil. Additional pipeline capacity will be provided by the upgrades at these existing pump stations.

COSTS

The estimated cost of the upgrades of these four existing stations is \$16,450,000.00.

JUSTIFICATION

As previously noted, in Case No. 10,472 the Commission issued a corridor certificate and route permit for this eight-inch pipeline project, including the Alexander Station in McKenzie County and the Trenton Station in Williams County. In that case, extensive cultural resource survey material was compiled. Enbridge has updated said survey material for purposes of the Alexander and Trenton stations.

With respect to the Beaver Lodge and Stanley stations, cultural resource survey material has been compiled by an environmental firm retained by Enbridge, which material is included with this Application.

The cultural resource survey material for all four stations demonstrates there will be minimal adverse effects by such construction.

For the foregoing reasons, Enbridge submits there is substantial justification for waivers and/or reduction of time schedules and procedures as these pipeline facilities will produce minimal adverse effects.

Enbridge respectfully requests the Commission to grant the aforementioned waivers and/or reductions of time schedules and procedures, and to render an expeditious decision approving the amended corridor certificate and/or route permit and certificate of site compatibility.

Dated this 14th day of July, 2006.

ENBRIDGE PIPELINES (NORTH DAKOTA)
LLC

FLECK, MATHER & STRUTZ, Ltd.
Attorneys for Applicant
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Bismarck, North Dakota 58502

By


BRIAN R. BJELLA (#03549)

I. Foreword

There is a crude oversupply situation in the Guernsey crude market area resulting from additional volumes entering that market via the Express Pipeline system, as well as significant new crude production in the North Dakota and Montana areas. A significant crude price differential has developed between the Guernsey and Clearbrook markets, and therefore Enbridge Pipelines (North Dakota) LLC shippers have expressed interest in moving additional volumes through the North Dakota system to Clearbrook and beyond. The proposed Enbridge expansions have the potential to allow customers better access to more profitable crude markets.

The first expansion, in 2005, included station upgrades of Alexander and Trenton and a new East Fork Station. The PSC approved these works in siting application Case No. PU-05-274. This expansion resulted in the ability to move an additional 25,000 bpd (barrels per day) ex-Alexander and into Clearbrook.

Building off the 2005 Expansion, Enbridge proposes:

- Upgrading the Beaver Lodge station and;
- Hydrotesting the Grenora to Beaver Lodge, Beaver Lodge to Berthold, Minot to Pleasant Lake and Bartlett to West Grand Forks to 80% SMYS (specified minimum yield strength)

This will increase ex-Beaver Lodge to Clearbrook by an additional 7,500 bbd.

To further increase Enbridge's throughput, the capacity between Beaver Lodge and Minot to 98,000 bpd (design rate), and between Minot and Clearbrook to 102,000 bpd (design rate), both of which are required to fully accommodate the volumetric increases associated with the previous upgrades, Enbridge also proposes:

- Further upgrading the existing Beaver Lodge station,
- Upgrading the Stanley station and;
- Building a new station, at MP 202.5 (Larimore), on Minot to Clearbrook.

For Beaver Lodge and Minot to increase to 107,000 bpd (design rate), and between Minot and Clearbrook to increase to 107,000 bpd (annual rate), both of which are required to fully accommodate the volumetric increases associated with this current expansion, and allow the pipeline segment between Minot and Clearbrook to operate under an annual capacity philosophy, the following are required:

- A new station a MP 11.7 (Blaisdell, ND) on Beaver Lodge to Minot,
- A new station at MP 59 (Denbigh, ND), on Minot to Clearbrook,
- A new station at MP 130.6 (Penn, ND), on Minot to Clearbrook, and;
- A new station at MP 281.4 (Brooks, MN) on Minot to Clearbrook.

To increase the capacity between Alexander and Trenton to 63,000 bpd (design rate), and between Trenton and Beaver Lodge to 93,000 bpd (design rate), which will allow shippers to deliver additional sweet volumes into Alexander, rather than trucking these volumes into Beaver Lodge, and to maximize the available pipeline capacities downstream, Enbridge will require:

- Upgrading the Alexander Station,
- Upgrading the Trenton Station and;
- An additional NPS 10 pipeline from Trenton to Beaver Lodge.

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Appendix B Project Location Maps

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Figure 2—Trenton Station

Figure 3—Beaver Lodge Station

Figure 4—Stanley Station

Appendix C Wetland Maps

Figure 1—Alexander Station

Figure 2—Trenton Station

Figure 3—Beaver Lodge Station

Figure 4—Stanley Station

1. Description of Proposed Existing Station Upgrades

1.1. Type of Facility

Enbridge Pipelines (North Dakota) LLC (Enbridge) owns and operates existing pipeline facilities within the McKenzie, Williams, and Mountrail Counties, North Dakota.

Enbridge proposes upgrading the existing pump capacity at Alexander, Trenton, Beaver Lodge, and Stanley Stations. At Alexander and Trenton Stations, Enbridge also proposes to increase storage capacity with the additions of 55,000 BBL (barrels) and 20,000 BBL tanks, respectively.

All upgrades will take place within the existing stations; no new lands will be impacted.

1.2. Product

The existing pipelines and the Alexander, Trenton, Beaver Lodge, and Stanley Stations will transport crude petroleum products.

1.3. Size and Design

1.3.1. Alexander Station

Pumping Capacity Upgrade

- Existing pumping equipment will be left in place for backup purposes
- Installation of a single 1,500 HP (horsepower) pump/motor
- Installation of a 1,750 HP VFD (variable frequency drive)
- Parallel booster pump addition (100 hp)
- Piping as required to access Alexander tank lines
- New MCC (movement control center) in existing Control Building
- SCADA (Supervisory Control and Data Acquisition) upgrades
- New Dedicated 4,160 V (volt) Power Service Feed

Storage Capacity Upgrade

- Addition of a new 55,000 BBL API (American Petroleum Institute) 650 Tank, alongside the existing 20,000 BBL API 650 Tank
- Piping as required to access Alexander incoming and outgoing header(s)
- Tank mixer(s), tank gauging system, and associated power and communication cable feeds

1.3.2. Trenton Station

Pumping Capacity Upgrade

- Initiating pump for proposed NPS 10 Pipeline
- Installation of a single 1,250 HP pump/motor
- Installation of a 1,500 HP VFD
- Booster pump addition
- Piping as required to access Trenton tank lines
- Extension to existing Control Building
- Motor starter upgrades and power cable feeds to new 4,160 V pump motor

- SCADA upgrades
- Upgraded 4,160 V Power Service Feed

Storage Capacity Upgrade

- Addition of a new 20,000 BBL API 650 Tank, alongside the existing 20,000 BBL API 650 Tank
- Piping as required to access Alexander incoming and outgoing header(s)
- Tank mixer(s), tank gauging system and associated power and communication cable feeds

1.3.3. Beaver Lodge Station

Pumping Capacity Upgrade

- Installation of two 1,250 HP 4,160 V motors on existing pumps (replacing the existing 800 HP 2300 V motors)
- Pump motor base modifications
- Installation of two 1500 HP VFDs
- Installation of a new 4,160 V service to replace the existing 2,300 V service feed
- Motor starter upgrades and power cable feeds to new 4,160 V pump motors
- Extension to existing Control Building for new equipment
- 150 HP deep can booster pump addition
- Removal of the 2,300 V service feed
- SCADA upgrades

1.3.4. Stanley Station

Pumping Capacity Upgrade

- Installation of a single 2,000 HP pump/motor
- Installation of a 2,500 HP VFD
- New Control Building/MCC
- SCADA upgrades
- New 4,160 V service feed to site for these new facilities (existing facilities to remain on existing 2,300 V service feed)

1.4. Schedule

Pending the request by Enbridge of waiver of Procedures and Time Schedules, construction at the stations will commence immediately. As much civil earthwork, building(s), mechanical piping, and minor electrical construction will begin at all stations prior to ground freeze in 2006. Winter and spring construction will also be required to meet the following tentative in-service dates:

- Alexander Station – August 2007
- Trenton Station – August 2007
- Beaver Lodge Station – February 2007
- Stanley Station – March 2007

2. Location(s)

2.1. Alexander Station

The existing Alexander Station lies on 20 acres of land owned by Enbridge located in the SE ¼ of the SW ¼ of Section 18, Township 152 North, Range 101 West, McKenzie County, North Dakota.

2.2. Trenton Station

The existing Trenton Station lies on 8.64 acres of land owned by Enbridge located in the SE ¼ of the SE ¼ of Section 34, Township 154 North, Range 102 West, Williams County, North Dakota.

2.3. Beaver Lodge Station

The existing Beaver Lodge Station lies 28.26 acres of land owned by Enbridge located in the SE ¼ of the SW ¼ of Section 32, Township 156 North, Range 95 West, Williams County, North Dakota.

2.4. Stanley Station

The existing Stanley Station lies on 40.14 acres of land owned by Enbridge located in the NW ¼ of the SW ¼ of Section 27, Township 156 North, Range 91 West, Mountrail County, North Dakota.

Please refer to Appendix B, Project Location Maps.

3. Policies and Commitments

The proposed additions to the existing stations will be constructed with minimal impacts to the environment, *as per the Environmental Review conducted by Kadmas, Lee & Jackson, Inc. which is contained in Appendix A.*

4. Factors Considered in Section 49-22-09

The following section discusses the factors cited in Section 49-22-09 of the Energy Conversion and Facilities Siting Act, where applicable, in regards to the proposed Alexander to Clearbrook System.

4.1. Available Research/Investigations

For the Alexander and Trenton Stations on October 11, 1983, the Commission issued its Findings of Fact, Conclusions of Law and Order in Case No. 10,472 approving the construction of an eight-inch pipeline and associated facilities in McKenzie and Williams counties, North Dakota, by Portal Pipeline Company Enbridge has succeeded to the interest of Portal Pipeline Company in this pipeline and associated facilities. On the same date, the Commission issued a certificate of Site compatibility No. 40 and Route permit No. 49 for this project. Enbridge hereby seeks amendments to said corridor certificate and/or route permit to allow the construction of the aforementioned facilities.

The Beaver Lodge and Stanley Stations were initially constructed by Portal in approximately 1960, being prior to the passage of the Siting Act.

4.2. Need

Enbridge has received urgent requests from oil producers and shippers in the Williston Basin of North Dakota and Montana for immediate additional pipeline capacity. The request is being made due to a current crude oversupply situation in the Guernsey market due to the recent Express Pipeline expansion and significant new crude production in the North Dakota and Montana areas. The Enbridge system is currently in heavy apportionment and a significant crude price differential has developed between the Guernsey and Clearbrook markets. The additional capacity will be provided by the upgrades at these four stations, as well a new pipeline and four new stations in North Dakota and one new station in Minnesota.

4.3. Alternatives

Due to the location of the existing pipeline and pipeline facilities, no alternatives were considered.

4.4. Environmental Effects

The proposed additions are taking place within the existing Enbridge stations. All surface area within the station perimeters has been previously disturbed. No environmental effects are anticipated with the construction of the projects.

4.5. Economic Impacts/Development Plans

Direct impacts on the local economy will be small because of the size and duration of the project. However, Enbridge will meet the needs of the oil producers and shippers in the Williston Basin by providing additional capacity.

4.6. Sensitive Sites

4.6.1. Cultural Resources

A Class I File search was conducted for each of the four station sites:

- Alexander Station: One cultural resource site has been previously recorded; however, it is not within the project area. Two previous cultural resource investigations were conducted for the project area.
- Trenton Station: No cultural resource sites have been previously recorded and four previous cultural resource investigations were conducted for the project area.
- Beaver Lodge: No cultural resource sites have been previously recorded and three previous cultural resource investigations were conducted for the project area.
- Two cultural resource sites have been previously recorded; however, they are not within the project area. Two previous cultural resource investigations were conducted for the project area
- ***Please refer to Environmental Review in Appendix A.***

4.6.2. Endangered Species

The proposed additions are within the existing Enbridge stations; because of the existing disturbed sites it is anticipated that no endangered species or their habitats will be disturbed by these projects. **Please refer to the Environmental Review in Appendix A.**

4.7. Agency Consultation/Permits

Section 106 of the National Historic Preservation Act of 1966, as amended, requires that federally funded projects be evaluated for the effects on historic and cultural properties included in, or eligible for listing on, the National Register of Historic Places. The Archaeological and Historic Preservation Act of 1974 provides for the survey, recovery, and preservation of significant scientific, prehistoric, archaeological, or paleontological data when such data may be destroyed or irreparably lost due to a federal, federally licensed, or federally funded project.

4.7.1 Alexander Station

Grady Wolf and Jennifer Turnbow, Kadrmas, Lee & Jackson, Inc. completed a Class I File Search (search of the ND State Historical Society's site and manuscript files) on June 30, 2006 for the Alexander Station site.

One cultural resource site has been previously recorded; however, it is not within the project area. Two previous cultural resource investigations were conducted for the project area. The manuscripts, *Williston to Charlie Creek: A Cultural resource Inventory Along the Western Area Power Administration 115KV Transmission Line From the Williston Substation to the Charlie Creek Substation, Williams and McKenzie Counties, North Dakota (2004)* and *Archaeological Investigations Along the Portal Beaver Lodge to Alexander pipeline Williams and McKenzie Counties, North Dakota (1984)* had been previously submitted. The manuscripts identified one cultural resource site for Section 18, T152N, R101W in McKenzie County, North Dakota. The cultural resource site is not located within the project area.

4.7.2 Trenton Station

Grady Wolf, Kadrmas, Lee & Jackson, Inc. completed a Class I File Search (search of the ND State Historical Society's site and manuscript files) on July 6, 2006 for the Trenton, Beaver Lodge, and Stanley Station sites.

No cultural resource sites have been previously recorded and four previous cultural resource investigations were conducted for the project area. The manuscripts, *Addendum to: Plains Pipeline Trenton Loop: A Class III Cultural Resource Inventory in Williams and McKenzie Co., North Dakota (2005)*; *Plains Pipeline Trenton Loop: A Class III Cultural Resource Inventory in Williams and McKenzie Co., North Dakota and Addendums B and C and D (2005)*; *Cultural Resource Investigation Williston to Wolf Point Transmission Line Roosevelt Co., MT & Williams Co., North Dakota (2002)*; and *Archaeological Investigations Along the Portal Beaver Lodge to Alexander pipeline Williams and McKenzie Counties,*

North Dakota (1984) had been previously submitted. The manuscripts identified no cultural resource sites for Section 34, T154N, R102W in Williams County, North Dakota.

4.7.3 Beaver Lodge Station

No cultural resource sites have been previously recorded and three previous cultural resource investigations were conducted for the project area. The manuscripts, *Archaeological Investigations Along the Portal Beaver Lodge to Alexander pipeline Williams and McKenzie Counties, North Dakota (1984)*; *Amerada Hess Corporation, 10 inch Natural Gas Pipeline Project Cultural Resources Inventory McKenzie and Williams counties, North Dakota and Final Report (1992)*; and *Cultural Resources Investigations on the North Dakota Segment of the Exxon Company, USA Bairoil-Dakota CO2 Pipeline Project, Golden Valley, Billings, Stark, Dunn, McKenzie, and Williams Co., Western North Dakota Vols. 1 & 2 (1987)* had been previously submitted. The manuscripts identified no cultural resource sites for Section 32, T156N, R95W in Williams County, North Dakota.

4.7.4 Stanley Station

Two cultural resource sites have been previously recorded; however, they are not within the project area. Two previous cultural resource investigations were conducted for the project area. The manuscripts, *North Dakota Highway Department Projects No. F-7-002 () 089 Negative Declaration Survey Report (1976)* and *Cultural Resources Investigations Along U.S. Highway 2 in Ward, Mountrail, and Williams Counties, North Dakota Vol. 1 (2001)* had been previously submitted. The manuscripts identified two cultural resource sites for Section 27, T156N, R91W in Mountrail County, North Dakota. However, these two cultural resource sites are not within the project area.

5. Route Criteria

5.1. Exclusion/Avoidance

The proposed upgrades to the existing stations at Alexander, Trenton, Beaver Lodge, and Stanley will not affect an avoidance or exclusion area as stated by the Energy Conversion and Transmission Facility Act (Act), Chapter 49-22. N.D.C.C. (North Dakota Century Code).

5.2. Selection Criteria

The proposed upgrades to the existing sites will have no long-term impacts on topography, water supplies, drainage patterns, agricultural production, or upon any other of the Commission's selection criteria.

5.3. Policy Criteria

These projects meet the policy criteria set forth in the Energy Conversion and Transmission Facility Act, by use of existing facilities to expand oil production capabilities in the state of North Dakota.

6. Mitigative Measures

Best management practices will be implemented to control erosion. Impacts are minimal and temporary in nature.

7. Qualifications

Kadmas, Lee & Jackson, Inc. (KL&J) prepared this document for Enbridge. KL&J employs over 280 engineers, planners, and environmental scientists that can expedite projects from preliminary engineering, project development and environmental studies through design construction, utilizing this interdisciplinary team approach. The Environmental Services group at Kadmas, Lee & Jackson, Inc. focuses on providing environmental documentation and related analyses for a variety of federal actions as required by the Council on Environmental Quality.

Jennifer Turnbow has a B.S. in Environmental Science from the University of Idaho. Prior to joining KL&J, she worked for the University of Idaho in the Idaho Cooperative Fish and Wildlife Research Unit assisting in the evaluation of physiological changes of migrating juvenile chinook salmonids (*Oncorhynchus tshawytscha*) and effects on performance and survival throughout the Snake and Columbia Rivers. Also, she assisted with sampling of juvenile chinook salmon from fish-transportation barge holds and collection of tissue and blood samples under permitting guidelines of the Endangered Species Act of 1973. Jennifer's specialty at KL&J is NEPA (National Environmental Policy Act of 1969) documentation and process. She has written many Categorical Exclusions, Environmental Assessments, and Section 4(f) Evaluations.

Grady Wolf graduated with a B.S. in Natural Resources Management from North Dakota State University. While attending college, he was employed by the U.S. Army Corp of Engineers during the summer months to conduct nesting surveys of the least interior tern (*Sterna antillarum*) and piping plover (*Charadrius melodus*) on the Missouri River. After college, for four years he was employed as the Beaver Creek Watershed Coordinator by the Emmons County Soil Conservation and Water Resource District in Emmons County, North Dakota. He was responsible for conservation efforts on agricultural land and water quality concerns. His experience also includes dealing with many USDA (U.S. Department of Agriculture) and EPA (Environmental Protection Agency) conservation programs and completing numerous conservation training programs. Currently, Grady is an Environmental Scientist/Planner with KL&J.

Appendix A
Environmental Review

ENBRIDGE PIPELINES NORTH DAKOTA, LLC

**Alexander, Trenton, Beaver Lodge, and Stanley Station Upgrades
Environmental Review
in McKenzie, Mountrail, and Williams Counties**

Prepared For:

Enbridge Pipelines North Dakota, LLC

Prepared By:

Jennifer Turnbow and Grady Wolf
Kadmas, Lee & Jackson, Inc.
Bismarck, ND

July 2006

Report Title: Environmental and Biological Review in Mountrail, McKenzie and Williams Counties, North Dakota (Stanley, Alexander, Trenton and Beaver Lodge Station Upgrades)

Authors: Grady Wolf and Jennifer Turnbow

Report Date: July 2006

Acreage: 97.04 combined acres

Survey Date: July 17, 2006 (Stanley and Beaver Lodge Stations)

Project Sponsor: Enbridge

Location of Project Area: *Please refer to Appendix B, Project Location Maps.*

Alexander Station

The proposed project area is located in the SE ¼ of SE ¼ of Section 18, T152N, R101W, McKenzie County, North Dakota. The town of Alexander is located approximately nine miles to the south of the project area.

Trenton Station

The proposed project area is located in the SE ¼ of SE ¼ of Section 34, T154N, R102W, Williams County, North Dakota. The town of Trenton is located approximately 4 miles to the south along ND Highway 1804 of the project area.

Beaver Lodge Station

The proposed project area is located in the SE ¼ of SW ¼ and the SW ¼ of SE ¼ of Section 32, T156N, R95W, Williams County, North Dakota. The town of Tioga is located approximately seven miles to the north of the project area.

Stanley Station

The proposed project area is located in the NW ¼ of SW ¼ of Section 27, T156N, R91W, Mountrail County, North Dakota. The town of Stanley is located approximately 0.5 miles to the northwest of the project area.

Description of Proposed Projects:

Enbridge Pipelines (North Dakota) LLC (Enbridge) owns and operates existing pipeline facilities within the McKenzie, Williams and Mountrail Counties, North Dakota.

Enbridge proposes upgrading the existing pump capacity at Alexander, Trenton, Beaver Lodge, and Stanley Stations. At Alexander and Trenton Stations, Enbridge also proposes to increase storage capacity with the additions of 55,000 BBL (barrels) and 20,000 BBL tanks, respectively.

Alexander Station

The proposed project includes installation of a single 1,500 HP (horsepower) pump/motor and an additional 55,000 BBL API (American Petroleum Institute) 650 Tank, along with other upgrades.

Trenton Station

The proposed project includes installation of a single 1,250 HP pump/motor and an additional 20,000 BBL API 650 Tank, along with other upgrades.

Beaver Lodge Station

The proposed project includes installation of two 1,250 HP 4,160 V motors on existing pumps, along with other upgrades.

Stanley Station

The proposed project includes installation of a single 2,000 HP pump/motor, along with other upgrades.

Field Methods and Conditions:

The two existing stations, Beaver Lodge and Stanley, were inventoried on July 17, 2006, a sunny day under dry conditions; using pedestrian transects using the existing fencing for site boundaries. The survey was conducted by Becky Rude, Environmental Planner/Scientist and Grady Wolf, Environmental Planner/Scientist of Kadmas, Lee & Jackson, Inc.

Area Description:

The project areas are consistent with well-established station sites. The proposed projects would be within the perimeter of the existing sites. Land within the site perimeter has all been previously disturbed through building and normal operational activities. The installation of new pumps and the installation of additional barrel tanks within the existing sites will have minimal to no environmental effects.

Policies and Commitments:

The proposed projects of replacing pumps and constructing new barrel tanks at the existing facilities will cause minimal or no impacts to the environment, per environmental review.

Wetlands:

Wetlands are defined both in the 1977 Executive Order 11990, Protection of Wetlands, and in Section 404 of the Clean Water Act of 1986, as those areas are inundated by surface or groundwater with a frequency to support and under normal circumstances do or would support a prevalence of vegetative or aquatic life that requires saturated or seasonally saturated soil conditions for growth and reproduction. Three parameters that define a wetland, as outlined in the Federal Manual for Delineating Jurisdictional Wetlands (US Army Corps of Engineers, 1987), are hydric soils, hydrophytic vegetation, and hydrology. Wetlands generally include swamps, marshes, bogs, and similar areas. Wetlands are an important natural resource serving many functions, such as providing habitat for wildlife, storing floodwaters, recharging groundwater, and improving water quality through purification.

Wetland boundaries anticipated to occur within the project area were identified using National Wetland Inventory Maps, US Geological topographical maps, and aerial photographic interpretation. **Please refer to Appendix C, Wetland Maps.**

No wetlands were identified on the maps within the yards and construction areas at any of the Station sites.

Vegetation and Wildlife Resources:

The proposed projects are in a rural area in northwestern North Dakota. The rural area is dominated by farmland, highly disturbed pasture land, shelter belts, and oil and gas development sites. Land conditions within the sites have been previously disturbed. No natural areas exist within any site boundaries.

It is not anticipated that the proposed projects would have any identifiable conflict with wildlife or wildlife habitat.

Threatened and Endangered Species:

Based on the range/habitat descriptions found in technical literature, the proposed actions would have no impact on threatened and endangered species.

Mountrail, McKenzie, and Williams Counties have had occurrences of the Interior Least Tern, Whooping Crane, Pallid Sturgeon, Gray Wolf, Bald Eagle and the Piping Plover, based on the information in the *County Occurrence of Endangered, Threatened and Candidate Species and Designated Critical Habitat in North Dakota, March 2006*. McKenzie County has also had occurrences of the Black Footed Ferret and the Dakota Skipper. In addition, Piping Plover habitat within all three counties has been designated critical habitat.

Cultural Resources:

Section 106 of the National Historic Preservation Act of 1966, as amended, requires that federally funded projects be evaluated for the effects on historic and cultural properties included in, or eligible for listing on, the National Register of Historic Places. The Archaeological and Historic Preservation Act of 1974 provides for the survey, recovery, and preservation of significant scientific, prehistoric, archaeological, or paleontological data when such data may be destroyed or irreparably lost due to a federal, federally licensed, or federally funded project.

Alexander Station

Grady Wolf and Jennifer Turnbow, Kadmas, Lee & Jackson, Inc. completed a Class I File Search (search of the ND State Historical Society's site and manuscript files) on June 30, 2006 for the Alexander Station site.

One cultural resource site has been previously recorded; however, it is not within the project area. Two previous cultural resource investigations were conducted for the project area. The manuscripts, *Williston to Charlie Creek: A Cultural resource Inventory Along the Western Area Power Administration 115KV Transmission Line From the Williston Substation to the Charlie Creek Substation, Williams and McKenzie Counties, North Dakota (2004)* and *Archaeological Investigations Along the Portal Beaver Lodge to Alexander pipeline Williams and McKenzie Counties, North Dakota (1984)* had been previously submitted. The manuscripts identified one cultural resource site for Section 18, T152N, R101W in McKenzie County, North Dakota. The cultural resource site is not located within the project area.

Trenton Station

Grady Wolf, Kadmas, Lee & Jackson, Inc. completed a Class I File Search (search of the ND State Historical Society's site and manuscript files) on July 6, 2006 for the Trenton, Beaver Lodge, and Stanley Station sites.

No cultural resource sites have been previously recorded and four previous cultural resource investigations were conducted for the project area. The manuscripts, *Addendum to: Plains Pipeline Trenton Loop: A Class III Cultural Resource Inventory in Williams and McKenzie Co., North Dakota (2005)*; *Plains Pipeline Trenton Loop: A Class III Cultural Resource Inventory in Williams and McKenzie Co., North Dakota and Addendums B and C and D (2005)*; *Cultural Resource Investigation Williston to Wolf Point Transmission Line Roosevelt Co., MT & Williams Co., North Dakota (2002)*; and *Archaeological Investigations Along the Portal Beaver Lodge to Alexander pipeline Williams*

and McKenzie Counties, North Dakota (1984) had been previously submitted. The manuscripts identified no cultural resource sites for Section 34, T154N, R102W in Williams County, North Dakota.

Beaver Lodge Station

No cultural resource sites have been previously recorded and three previous cultural resource investigations were conducted for the project area. The manuscripts, *Archaeological Investigations Along the Portal Beaver Lodge to Alexander pipeline Williams and McKenzie Counties, North Dakota (1984)*; *Amerada Hess Corporation, 10 inch Natural Gas Pipeline Project Cultural Resources Inventory McKenzie and Williams counties, North Dakota and Final Report (1992)*; and *Cultural Resources Investigations on the North Dakota Segment of the Exxon Company, USA Bairoil-Dakota CO2 Pipeline Project, Golden Valley, Billings, Stark, Dunn, McKenzie, and Williams Co., Western North Dakota Vols. 1 & 2 (1987)* had been previously submitted. The manuscripts identified no cultural resource sites for Section 32, T156N, R95W in Williams County, North Dakota.

Stanley Station

Two cultural resource sites have been previously recorded; however, they are not within the project area. Two previous cultural resource investigations were conducted for the project area. The manuscripts, *North Dakota Highway Department Projects No. F-7-002 () 089 Negative Declaration Survey Report (1976)* and *Cultural Resources Investigations Along U.S. Highway 2 in Ward, Mountrail, and Williams Counties, North Dakota Vol. 1 (2001)* had been previously submitted. The manuscripts identified two cultural resource sites for Section 27, T156N, R91W in Mountrail County, North Dakota. However, these two cultural resource sites are not within the project area.

Appendix B
Project Location Maps

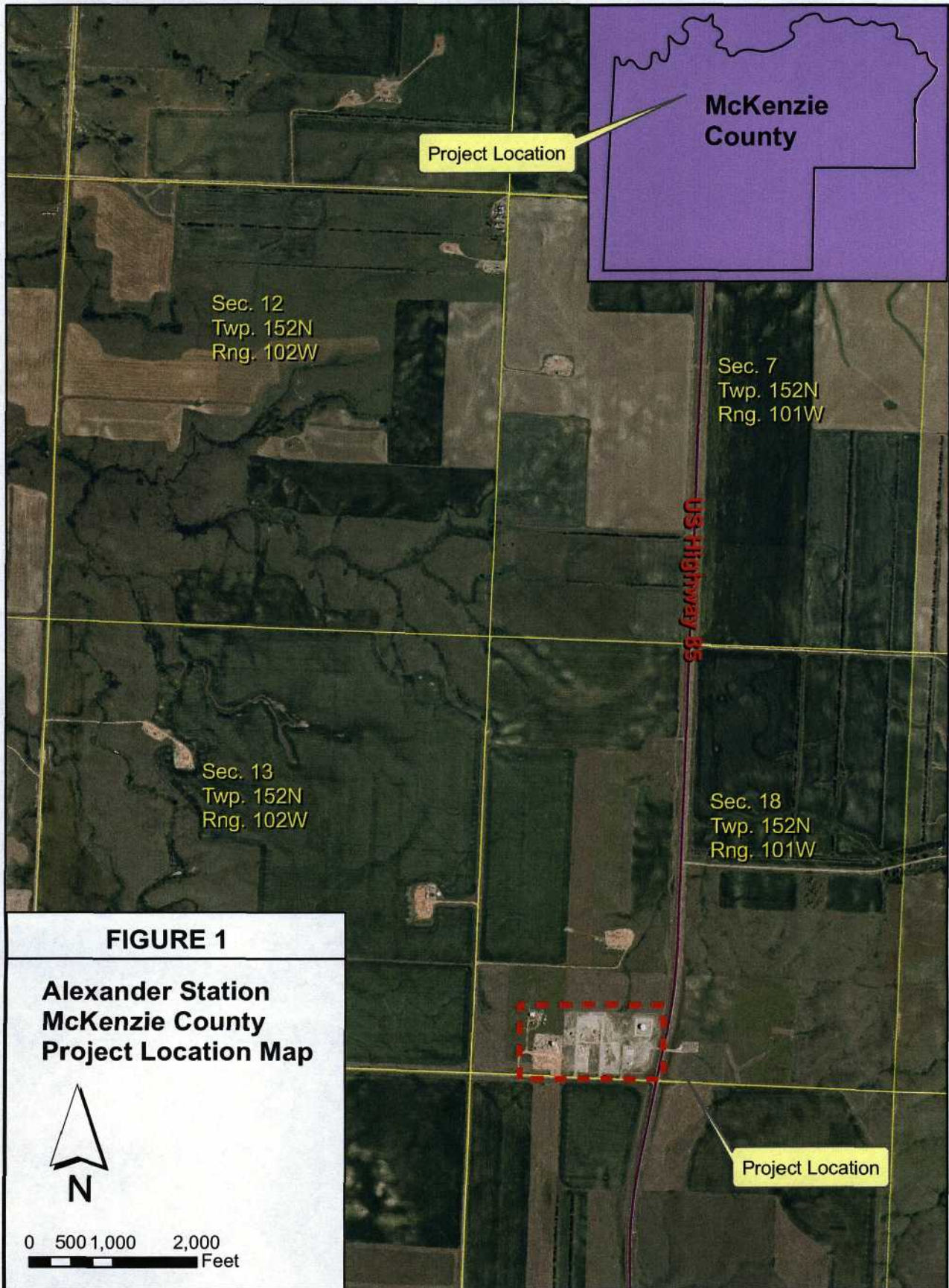


FIGURE 1

**Alexander Station
McKenzie County
Project Location Map**



0 500 1,000 2,000
Feet

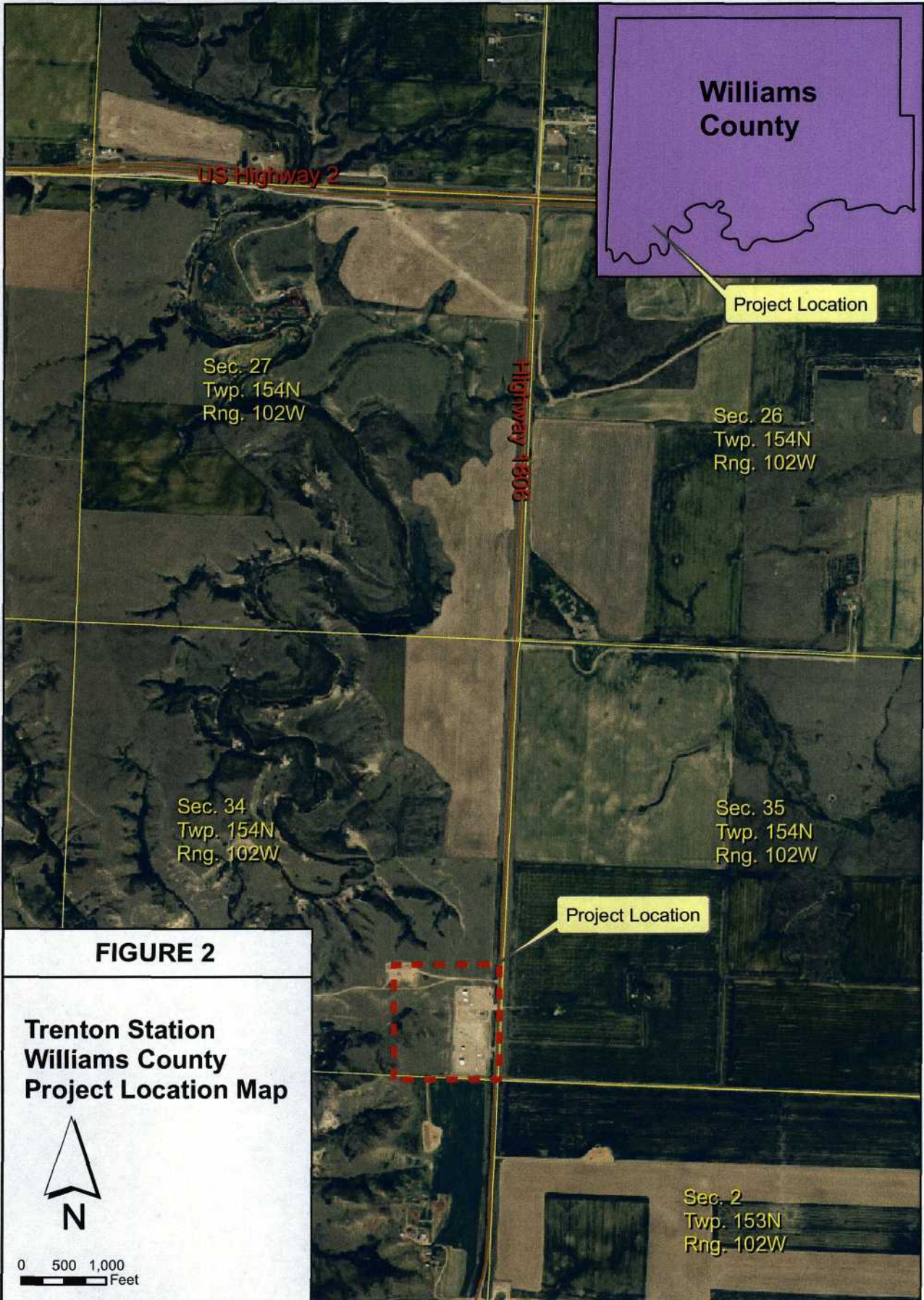


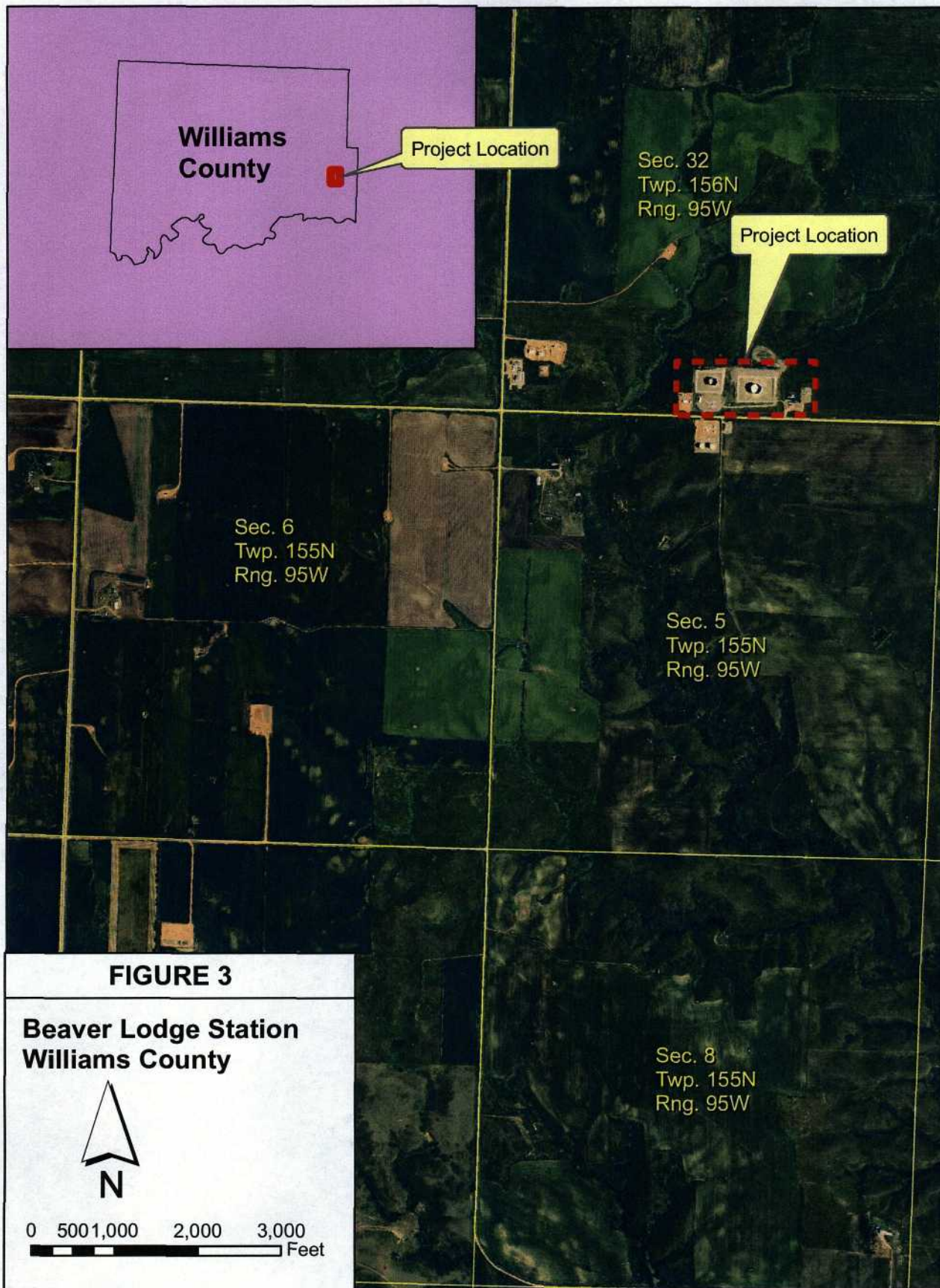
FIGURE 2

**Trenton Station
Williams County
Project Location Map**



0 500 1,000
Feet





**Appendix C
Wetland Maps**

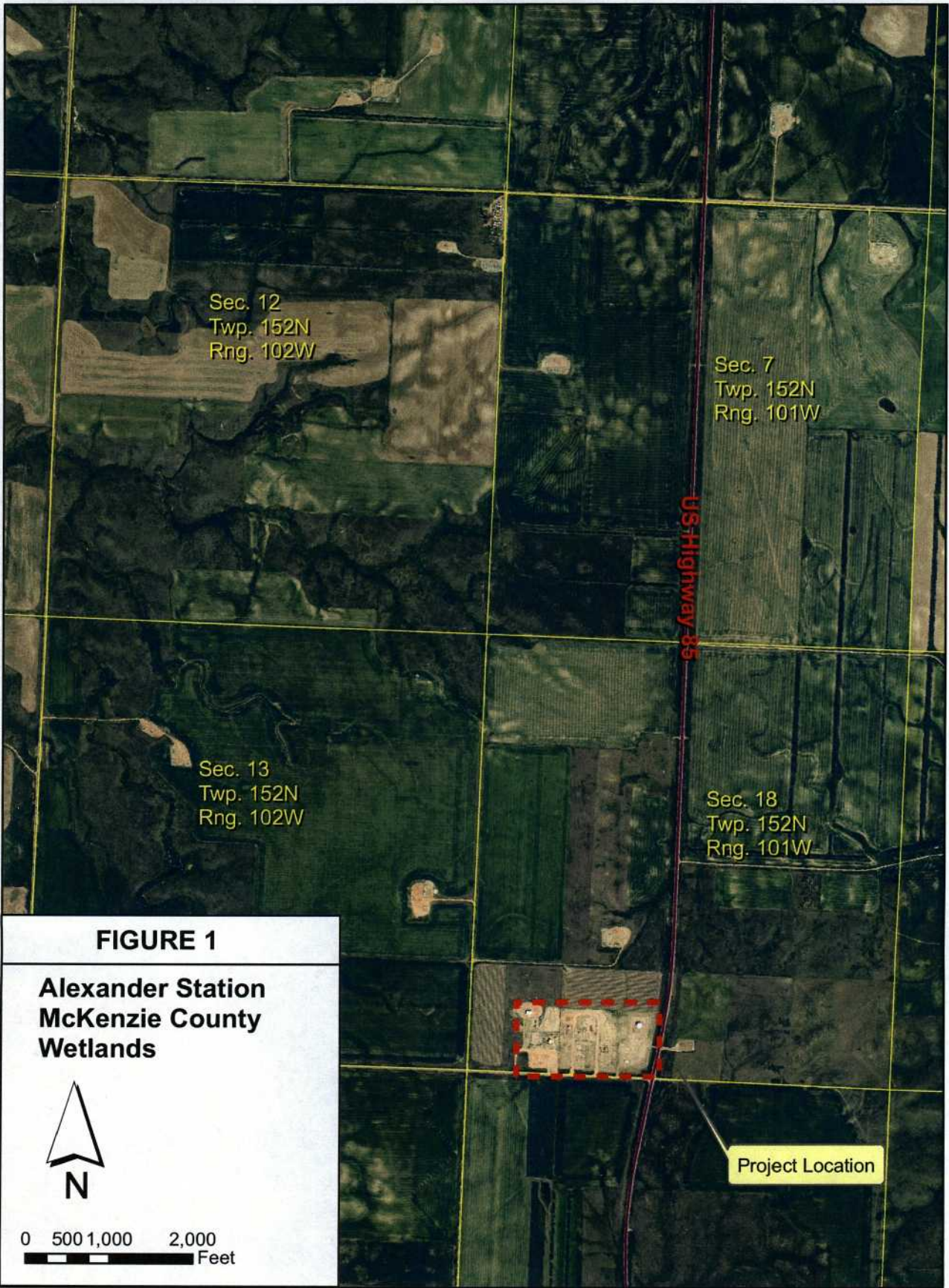


FIGURE 1

**Alexander Station
McKenzie County
Wetlands**



0 500 1,000 2,000
Feet

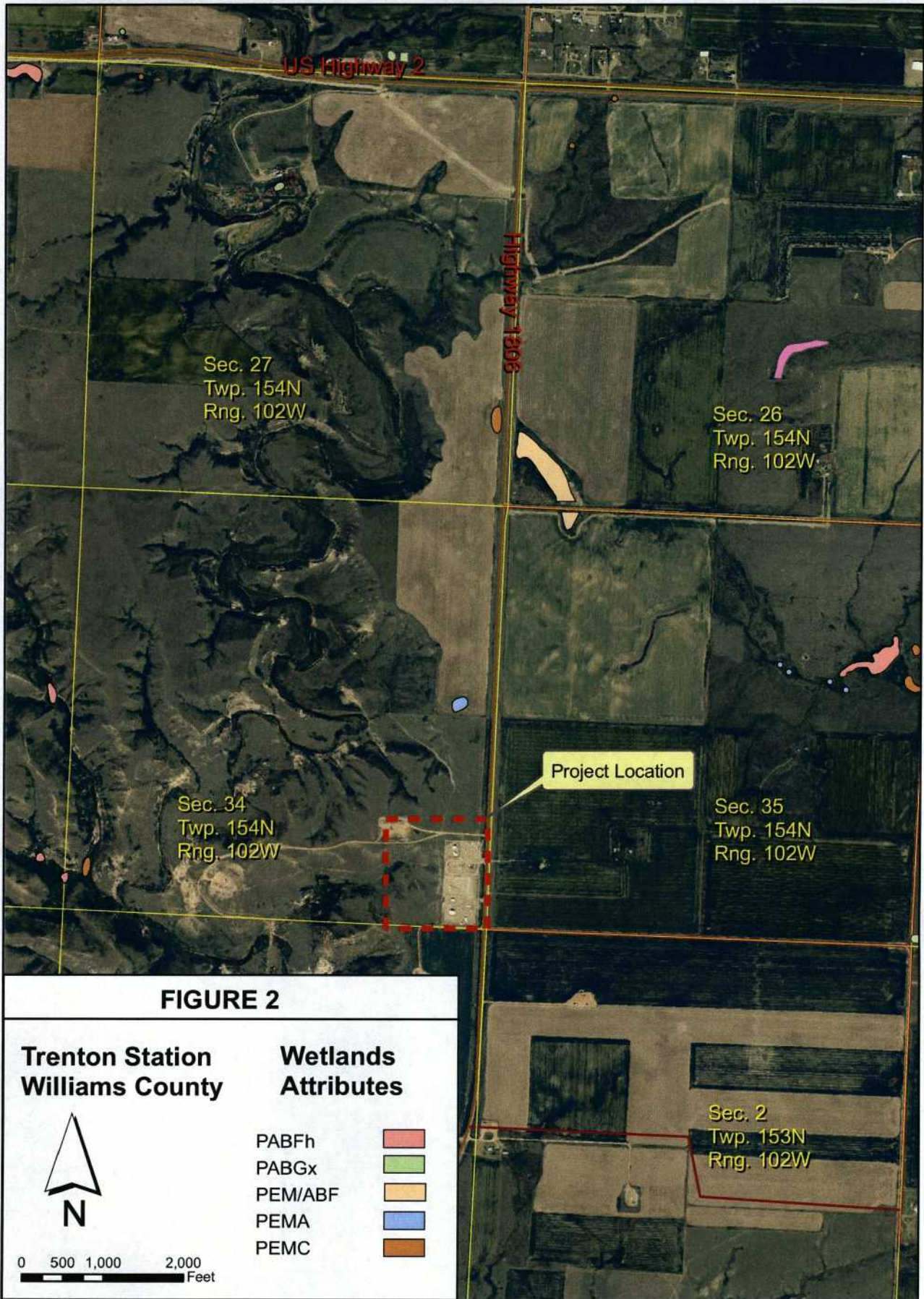







FIGURE 2

**Trenton Station
Williams County**

**Wetlands
Attributes**



0 500 1,000 2,000
Feet

- | | |
|---------|-------------------------------------------------------------------------------------|
| PABFh |  |
| PABGx |  |
| PEM/ABF |  |
| PEMA |  |
| PEMC |  |

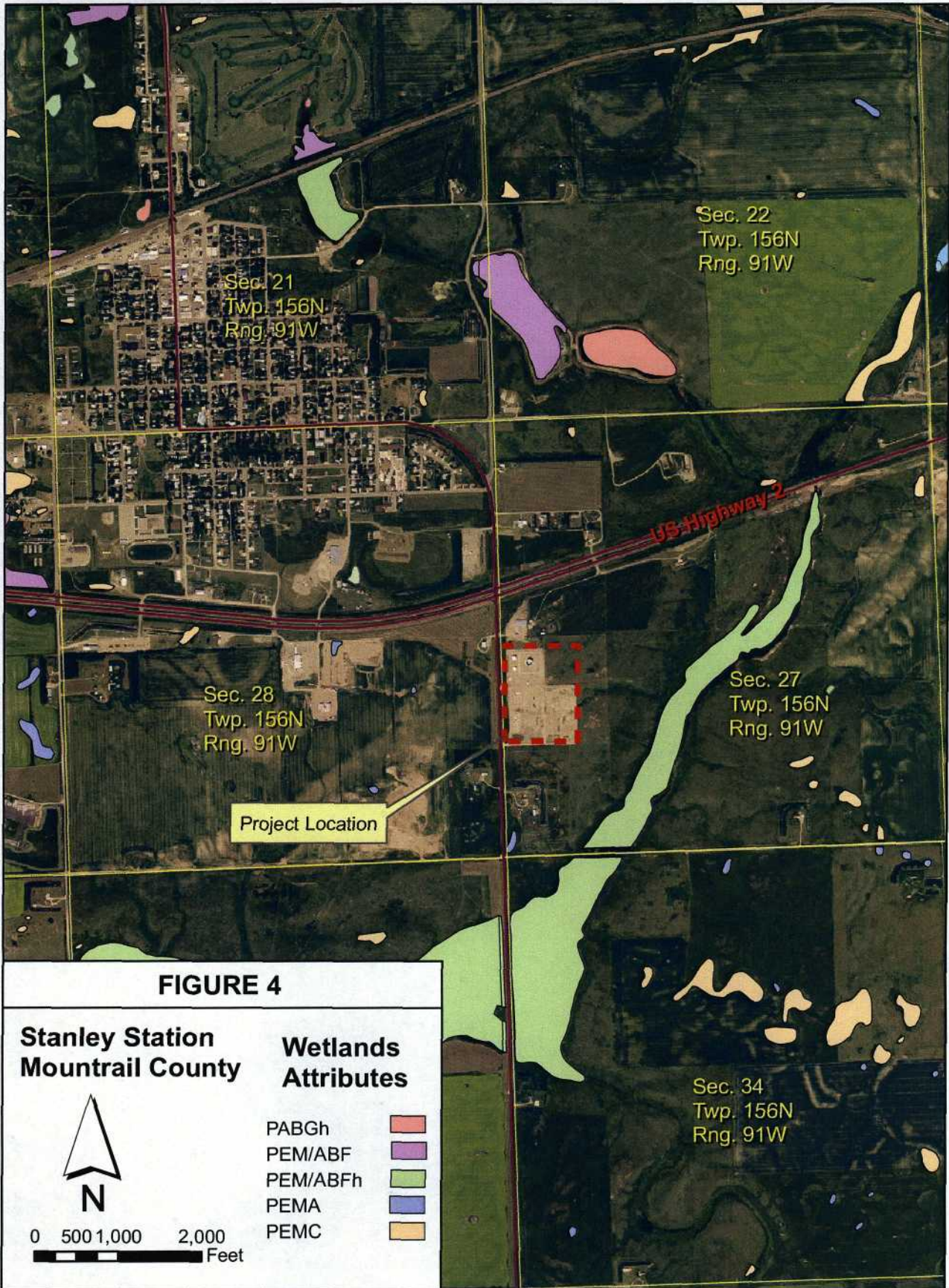







FIGURE 4

**Stanley Station
Mountrail County**

**Wetlands
Attributes**



0 500 1,000 2,000
Feet

- | | |
|----------|-------------------------------------------------------------------------------------|
| PABGh |  |
| PEM/ABF |  |
| PEM/ABFh |  |
| PEMA |  |
| PEMC |  |

