



July 31, 2014

Mr. Darrell Nitschke
Executive Secretary
North Dakota Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480

**RE: Enbridge Pipeline (North Dakota) LLC
Case No. PU-10-612 & PU-10-613
Contract # PU-644-12 and PU-645-12**

Dear Mr. Nitschke:

Attached to this letter is the final construction inspection report for the Enbridge Pipeline, NDPSC Case No. PU-10-612 as well as the final construction inspection report for NDPSC Case No. PU-10-613. As directed by Mr. Pat Fahn, enclosed is one paper copy of the report with attachments. If you have any questions or need any additional information, please let me know.

Sincerely,

A handwritten signature in black ink that reads "James D. Landenberger".

James D. Landenberger, P.E.
Bartlett & West, Inc.
Project Manager

Enclosures

File: 18181.002 & 18181.003 - NDPSC Construction Inspection Services - 1.0 Correspondence

Bakken Pipeline Project Construction Inspection Report

Enbridge Pipelines (North Dakota), LLC.

PU-10-613

Prepared for:

NORTH DAKOTA PUBLIC SERVICE COMMISSION

600 E. Boulevard Avenue

Bismarck, ND 58505-0480

Prepared by:



A handwritten signature in blue ink, reading 'James Landenberger', is written over a horizontal line.

James Landenberger

Date

Bartlett & West, Inc.
3456 E. Century Ave
Bismarck, ND 58504
(701) 258-1110

July 2014

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EXECUTIVE SUMMARY

The North Dakota Public Service Commission (PSC) retained Bartlett & West, Inc. to complete a construction inspection of the Beaver Lodge Loop Project, constructed in Williams, Mountrail, and Ward Counties, ND by Enbridge Pipelines (North Dakota) (“EPND”) LLC. The purpose of the construction inspection was to ensure the Project was constructed in compliance with the siting laws and rules and the applicable PSC Order for the Project. Prior to the construction inspection, Bartlett & West reviewed all project documents to identify those which required site verification.

The site was visually inspected on November 4 to November 7, 2013 by Bartlett & West, Inc, accompanied by Enbridge representatives. All above ground work that could be inspected was completed and is described herein. Further, photos will provide the PSC with tangible proof of the work completed by Enbridge. The Project appeared to be constructed as planned with numerous efforts to minimize impacts to the project area. Bartlett & West, Inc. recommends that the PSC request fulfillment of the tree and shrub replacement plan and survival monitoring as the early winter season delayed the replacement process.

The document review on the PSC website indicates that Enbridge may have failed to submit some of the supporting documents and permits associated with this specific contract. It is possible that Enbridge mistakenly submitted these documents under a different contract, as this is just one of multiple Enbridge contracts. The PSC should determine if that is indeed the case, and if not, are these documents necessary for Enbridge to fulfill their project order obligations.

1.0 BACKGROUND

1.1 Introduction

The Bakken Pipeline Project US – Beaver Lodge Loop Project, constructed in Williams, Mountrail, and Ward Counties was completed by October 2012 while the facilities were completed by November 2013. The pipeline transmission line consists of approximately 56 miles of 16-inch diameter pipeline. The majority of the Project's length was constructed from Beaver Lodge Station and Terminal Facility in Williams County to its Berthold Station and Terminal Facility in Ward County. The Project also includes the installation of new pumping station facilities at EPND's Beaver Lodge and Stanley Station sites, as well as additional tankage at their Berthold Station site. The pipeline is operated by EPND. Under the jurisdiction of the North Dakota PSC, the Findings of Fact, Conclusions of Law and Order was granted on May 18, 2011 for Case No. PU-10-613. The Certificate of Corridor Compatibility No. 119 and First Amended Route Permit No. 129 were also issued to Enbridge on May 18, 2011.

1.2 Purpose and Scope of Inspection

The North Dakota Energy Conversion and Transmission Facility Act (North Dakota Century Code Chapter 49-22) authorizes the PSC to determine that the location, construction, and operation of jurisdictional energy conversion and transmission facilities will produce minimal adverse effects on the environment and the welfare of the citizens of North Dakota. Post-construction inspections will attempt to ensure that the project was constructed in compliance with the siting laws and rules and the applicable Commission Findings of Fact, Conclusions of Law and Order.

The North Dakota PSC retained Bartlett & West, Inc. to complete a post construction inspection of the Bakken Pipeline in Williams, Mountrail, and Ward Counties. The inspection process included a review of the Application for Corridor Compatibility and Route Permit, Order, and other applicable documents to determine Project-specific siting and construction requirements; site visits and inspection of facilities; documentation of compliance including photographs; and a final report summarizing the findings. This report includes, but is not limited to, documentation of the site visit observations, documentation of compliance deficiencies, and a summary of issues that should be addressed for the Project to be considered complete and in full compliance.

2.0 DOCUMENT REVIEW

2.1 Methods

Bartlett & West, Inc. reviewed North Dakota siting laws and rules, the Applications for the Certificate of Corridor Compatibility and Route Permit (Application), and the Order for the Project to identify what Project-specific documentation was required for compliance. Bartlett & West, Inc. then reviewed Project documents in the PSC Online Case Search (PU-10-613) to identify those siting laws and rules and Application and Order assertions that already had written verification, those which still required documentation, and those which required physical site verification.

2.2 Findings

The following table (**Table 1**) includes a list of components of the Project that were asserted in the Application and Order which could be documented post-construction to verify compliance with siting laws and rules and the Order for the Project, via either written documentation or physical site verification. If Bartlett & West, Inc. found written documentation in the online PSC files for a particular Project component, it was marked in column three. If a physical site verification was possible, it was verified during the site inspection and was marked in column four. Further site inspection material will be seen in Section 3.0 of this report.

Several components of the Project were asserted in the Application or proposed construction, but have no written documentation showing that they were indeed implemented or constructed as planned and physical site verification is not applicable. *This includes all items listed in Table 1 which have shaded boxes*, indicating written verification is possible and appropriate, but it is lacking from current available files. Bartlett & West, Inc. suggests the PSC request written verification from Enbridge for these items to show the Project is in full compliance, or verify that they were submitted under a separate contract involving the Bakken Pipeline Upgrades.

Table 1: Enbridge Beaver Lodge Loop Pipeline Project Document Review Summary

Source of Project Component/Assertion	Description of Project Component/Assertion	Written Verification in PSC Files*	Site Verification
PRECONSTRUCTION			
FOF 15	Pipeline passing through avoidance area (Landowner waivers)	X	
CROP 2	Preconstruction Conference - MTL June 30, 2011, Facilities July 15, 2011	Docket 50,55	
CROP 3	Approvals from other agencies - city, township, county zoning regulations	X	
CROP 4	Licenses & Permits	X	
CROP 5	Intent to start construction - Facilities, MTL	Docket 56,61	
CROP 28	Complaints procedure filed	Docket 54	
CROP 30	Inform PSC in writing any modifications	X	
ENGINEERING/CONSTRUCTION/DESIGN & SOILS			
FOF 6	Construction corridor of 250 ft. maximum width		X Docket 51
CROP 5	Weekly Construction reports	X	
CROP 6	Pipeline buried 48 inches or 72 inches in undeveloped section lines		X
CROP 13	Graded road crossings bored		X
CROP 14	Roads restored to previous use		X
CROP 16	Topsoil segregated and replaced		X
CROP 17	Reclamation and clean-up of right-of-way completed/throughout life of facility		Ongoing X
CROP 18	Reclamation, fertilization, and reseeding		Ongoing
CROP 19	Reclamation and maintenance of the transmission facility		
CROP 21	Mitigation of any TV or Radio interference	N/A	
CROP 22	Repair and replacement of fences and gates damaged		X
CROP 23	Repair and replacement of any broken drainage tile		N/A
CROP 25	All waste that was a product of the pipeline project removed from right-of-way		X
CROP 31	Electronic, paper, and GIS files of as-builts submitted within 3 months of completion	Docket 204	
NDDH Stipulations	Erosion control BMP's implemented successfully		X
NDDH Consultation	Minimize fugitive dust, degradation of waterways, storm water, management, noise	Docket 17	X
NATURAL AND CULTURAL RESOURCES			
FOF 8	Class I literature search and Class III cultural resource inventory completed	X	
FOF 8	Environmental data collected on soils, land use, wetland water crossings, and protected species	X	
FOF 10	State Historical Preservation Office concurred with "No historic properties affected" determination	Docket 23, 36, 92	
CROP 11		Docket 17	
FOF 11	North Dakota Department of Health Approval		
FOF 16	Wetland assessment completed and complied with	Exhibit D.1,2,3 of Application	
FOF 16	USACE Nationwide Permit 12 obtained for expansion of Beaver Lodge Station and Berthold Terminal		
FOF 17	Fish & Wildlife - no impacts letter	Exhibit F.1 of Application	
FOF 25	EMP & Spill Prevention, containment and control plans submitted	Exhibit E & I of Application	
CROP 10	Reports of presence of threatened, endangered species or bald or golden eagles, if applicable	Docket 64	
CROP 12	Reports of cultural, archeological, historical resources found during construction, if applicable	N/A	
CROP 20	Compliance with "Tree and Shrub Mitigation Specifications"	Docket 196	Ongoing

*Note: Shaded boxes indicate documentation is lacking

CROP: Certification Relating to Order Provision

FOF: Finding of Facts

NDDH: North Dakota Department of Health

3.0 SITE INSPECTION

3.1 Methods

Tom Kappes of Bartlett & West, Inc. visited the pipeline portion of the Project area on November 4, 2013. Randy Bishop, Enbridge representative, accompanied Bartlett & West, Inc. to the five pump stations involved with the pipeline; Berthold, Stanley, Beaver Lodge, Lignite and Kenaston. On November 5, 2013, Jay Black, Construction Manager with Enbridge, accompanied Bartlett & West, Inc. in the site visit which included the use of a utility vehicle (UTV) for navigation and answering questions. The site inspection began at Beaver Lodge station 00+00 and continued east. Inspectors traveled along the pipeline route in a UTV in the areas that were easily accessible and walked the pipeline route in the other areas which were not accessible with the UTV. Due to the ongoing construction of another paralleling pipeline at the time of the final inspection by Bartlett & West, Inc., a portion of this particular pipeline project area was again disturbed. The area of impact from the newly constructed pipe included stations 88+00 to 390+00 between Mile Post 74.8 and 68.7. Digital photos were taken to document the conditions of the project and to show any problem areas. **(Appendix, Page 11, Photos 1-26)**

3.2 Observations and Findings

3.2.1 Engineering/Construction/Design & Soils

The following aspects pertaining to engineering, construction, or design of Project infrastructure were inspected at the site.

- *Pipeline Buried to 48in (72in Undeveloped Section Lines).* Since Bartlett & West, Inc. had not been retained at the time of construction, the Enbridge representative verified that piping was installed below the minimum bury depths (Jay Black, pers. Comm.. 2013). The pipeline shall be buried to a minimum depth from the ground surface to the top of the pipe of 48 inches in rangeland, 48 inches for cultivated land, 48 inches at the bottom of the ditch for road crossings, and 72 inches across undeveloped section lines.
- *Construction Corridor 250 ft maximum width, narrowed to 50 ft through wooded areas.* Bartlett & West, Inc. observed that the pipeline route was within the 250 foot wide requirements along the entire route. The corridor was narrowed through some wetland areas

as shown in **(Appendix, Photo 9)**.

- *All crossings of graded roads shall be bored unless the responsible governing agency specifically permits Enbridge to open cut the road.* During the inspection Enbridge representative Jay Black stated that all county roads were bored under on the Bakken Pipeline Project (Jay Black, Pers. Comm. 2013). **(Appendix, Photo 3)**.
- *Roads Restored to Previous Use.* Bartlett & West, Inc. is unaware of any roads being constructed for the Bakken Pipeline Project but all existing roads observed during the onsite inspection were in good condition.
- *Topsoil Removed, Segregated, Replaced at 12in Depth or Depth of Cultivation.* Bartlett & West, Inc. was not on site during construction to observe and verify the topsoil being segregated, but the pipeline corridor re-vegetation observed during the inspection indicates that Enbridge did comply with these requirements. **(Appendix, Photos 1, 2, 5, 8, & 10)**. Again, stations 88+00 to 390+00 between Mile Post 74.8 and 68.7 were disturbed due to a newly constructed pipe at the time of final inspection.
- *Reclamation and clean up along the right-of-way must be continuous and coordinated with construction.* At the time of the inspection all reclamation and clean-up activities had been completed.
- *Reclamation and Maintenance throughout Life of Facility.* Enbridge representative Loren Lilly stated that Enbridge inspects their lines 26 times a year in a frequency not to exceed 3 weeks via air patrol (Loren Lilly, email August 19, 2013).
- *Mitigation of any TV or Radio Interference.* Enbridge's application (B.4.b(10)) indicates a review of the project area did not identify communication or control facilities within the corridor, therefore there were no effects on radio or television reception as a result of the pipeline project.
- *As-built Drawings and GIS Files.* Correspondence indicates Enbridge provided as-built drawings and GIS files to the PSC on April 24, 2013 (Docket 204).
- *Erosion Control BMP's implemented successfully.* During the inspection of the pipeline it appeared erosion control had been implemented successfully along the pipeline corridor as well as at the pumping station sites.
- *Repair and replacement of fences and gates damaged.* Field inspection indicated that all fences were repaired to pre-construction conditions.

3.2.2 Natural Resources (Wildlife, Wetlands, Vegetation)

The following aspects pertaining to engineering, construction, or design of Project infrastructure were inspected at the site.

- *Reclamation/Reseeding According to NRCS or Landowner, if applicable.* The pipeline corridor was in excellent condition in respects to the corridor being re-vegetated. Various Warranty Work Areas were in the process of being reworked, by Enbridge, at the time of final inspection. **(Appendix, Photos 4 & 7).**
- *Tree and Shrub Mitigation.* Due to the late completion of this project, the winter season delayed the tree and shrub planting. **(Appendix, Photo 11).** The PSC should request Enbridge to submit all documentation upon completion.
- *Environmental Inspectors.* Enbridge's Application for Route Permit, section B.1.a. Construction, indicates environmental inspectors will monitor compliance with required environmental protection measures, permit conditions, and specifications, and provide ongoing oversight for day to day issues that may arise during construction. Bartlett & West, Inc. did not find any documentation in the PSC Docket PU-10-613 supporting this claim.
- *Wetland Delineation.* A Wetland Delineation Report was conducted by McCain and Associates, Inc., Barr Engineering Company and Merjent, Inc. A copy of these can be found in the application for Certificate of Corridor Compatibility, Exhibit D.1 and Docket 20. McCain and Associates, Inc. filed their Wetland Report at a later date and is not seen in Exhibit D.1. **(Appendix, Photo 9).**
- *U.S. Army Corps of Engineers.* Under Finding of Facts #16 of the PSC "Finding of Fact, Conclusion of Law and Order" it states that Enbridge will seek a USACE Nationwide Permit authorizing the temporary and non-jurisdictional wetland impacts for the Lignite and Kenaston stations and will seek authorization for a USACE Individual permit for the Berthold Station. Bartlett & West, Inc. was unable to locate these files under the PSC docket files. However, Bartlett & West, Inc. has received email correspondences from the COE Berthold Station and has attached these documents to the PU-10-612 Construction Inspection Report. The Corps Permit dated July 12, 2010, stipulates the following: Permittee shall create not less than 0.32 acres of wetlands on-site per the plan submitted by the applicant and conduct monitoring on the mitigation area; a survey of adjacent wetland

grades and soil profiles in the proposed wetland enhancement area will be conducted to determine seasonal high waters of the area, the proper grades for the wetland enhancement area and corresponding core and transitional wetland zones. The survey information helps to determine mitigation excavation depths and final grades in the proposed mitigation area. Topsoil shall be stripped to a minimum depth of eight to ten inches on the impacted wetland and spread on the proposed mitigation area allowing the new wetland area to passively re-vegetate. The outer slopes of the new wetland shall be no more than 4:1 grade. Monitoring reports shall be submitted to the ND Regulatory Office not later than November 30 following each growing season, for a period of 5 years or until the Corps of Engineers determines that the mitigation is acceptable. Following the mitigation construction, the creation area shall be documented with as-built engineered drawings provided as part of the construction completion report (Permit Compliance Certification) to the Corps of Engineers, within one year of construction.

- *No Endangered, Threatened, or Sensitive Plants Identified.* Docket 64 details the list of species and critical habitat that may be present within the Project Area. Both McCain and Associates, Inc. and Merjent, Inc. concluded that no threatened, endangered species or critical habitats would be impacted.

3.2.3 Cultural Resources

- *Cultural Resources Avoided.* Exhibits C.1 & C.2 of Enbridge's PSC Application of Certificate of Corridor Compatibility and Route show the Kadrmas, Lee, and Jackson Archaeological Consultants Class III Survey and the State Historical Society of North Dakota Study, respectively. **(Appendix, Photo 6).**

4.0 ISSUES TO RESOLVE AND RECOMMENDATIONS

4.1 Pipeline Depths

Bartlett & West, Inc. suggests that the PSC request written verification from Enbridge that all as-built depths are indeed 48 inches for cultivated land, 48 inches at the bottom of the ditch for road crossings, and 72 inches across undeveloped section lines.

4.2 Settlement

As stated above, sections 88+00 to 390+00 between Mile Post 74.8 and 68.7 were disturbed due to the construction of another pipeline at the time of final inspection. Bartlett & West, Inc. suggests that the PSC require documentation from Enbridge that the above said location will be reseeded to match existing conditions by either Enbridge or the construction company installing the pipeline.

4.3 Tree & Shrub Replacement

Bartlett & West, Inc. suggests that the PSC continually check with Enbridge to insure the replacement of trees and shrubs is ongoing as part of the mitigation plan.

4.4 Environmental Inspectors

Bartlett & West, Inc. suggests that the PSC request Enbridge to submit the daily reports from the environmental inspectors that were present at the time of construction.

4.5 Permits

Docket 162 shows that a Berthold Station hydrostatic testing (new tankage/station piping) is pending. Bartlett & West, Inc. could not find this permit within the PSC documentation. Bartlett & West, Inc. suggests that the PSC request information from Enbridge to insure all permits have been submitted.

5.0 CONCLUSION

Bartlett & West's document review and site inspection confirms that the Bakken Pipeline Project was completed as stated in Enbridge's Application and in compliance with the PSC guidelines. It appears the project has caused minimal adverse effects on the environment and on the welfare of the citizens of North Dakota. It does appear though that there are several remaining items that Enbridge needs to follow-up with before the Project can be considered in full compliance. It is suggested the PSC requests Enbridge to submit all fully executed permits for their records as well as all other supporting documentation shown to be missing in Table 1. It is also recommended that the PSC require written verification that any settlement areas will be repaired and the remaining trees and shrubs will be replanted per the mitigation plan.

REFERENCES

- Black, Jay. 2013. Enbridge Pipelines (North Dakota), LLC. Personal Communication: discussion during site visit.
- Lilly, Loren. 2013. Enbridge Pipelines (North Dakota), LLC. Email Correspondence.

Appendix (Project Photos)



Figure 1: STA 33+00 Looking West at Pipeline Trench (between M.P. 76.1 – 75.3)



Figure 2: STA 978+00 Looking East at Pipeline Trench (between M.P. 58.4 – 57.5)



Figure 3: STA 1086+80 Looking East at Pipeline Trench (between M.P. 56.6 – 55.7)



Figure 4: STA 1140+15 Looking East at Pipeline Trench Area that was graded in October/November 2013 (between M.P. 55.7 – 54.8)



Figure 5: STA 202+00 Looking West at Pipeline Trench (between M.P. 47.6 – 47.1)



Figure 6: STA 494+00 Looking NE at Pipeline Trench and Cultural Site (between M.P. 43.8 – 42.9)



Figure 7: STA 946+00 Looking East at Warranty Work Area (between M.P. 35.6 - 34.7)



Figure 8: STA Looking East at Pipeline Trench (between M.P. 30.2 - 29.3)



Figure 9: STA 1404+50 Looking East at Pipeline Trench (between M.P. 26.6 - 25.8)



Figure 10: STA 1406+00 Looking South at Pipeline Trench (between M.P. 26.6 - 25.8)



Figure 11: STA 1408+00 Looking West at Pipeline Trench (between M.P. 26.6 - 25.8)



Figure 12: Pumps & Meters at Berthold Pump Station



Figure 13: Pumps & Meters at Berthold Pump Station



Figure 14: New Tank at Berthold Pump Station



Figure 15: New Tank at Berthold Pump Station



Figure 16: Electrical Equipment Building at Stanley Pump Station



Figure 17: Pumps & Meters at Stanley Pump Station



Figure 18: Pumps & Meters at Beaver Lodge Pump Station



Figure 19: The Tank at Beaver Lodge Pump Station

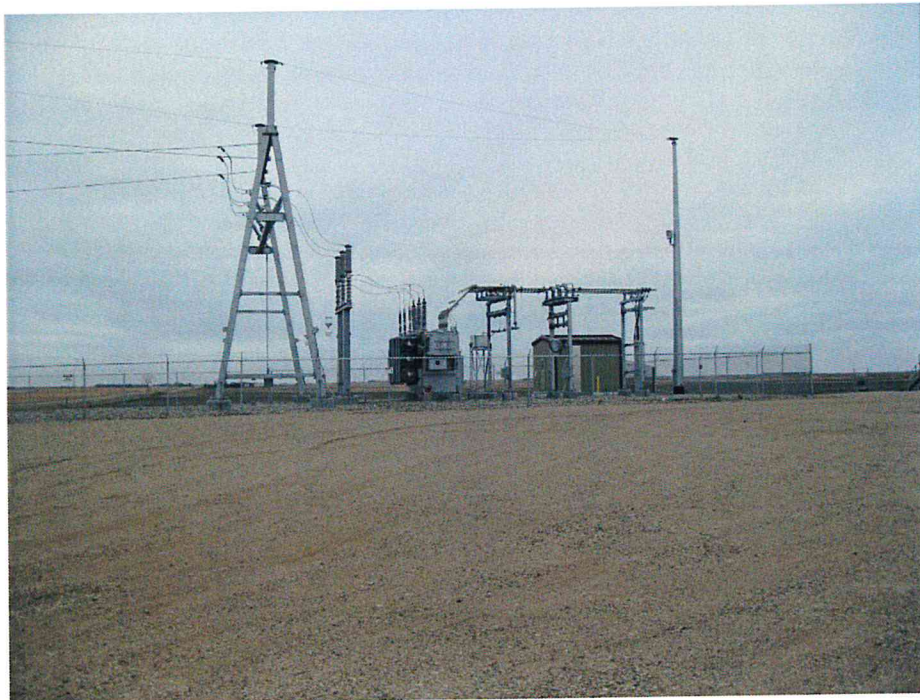


Figure 20: Electric Station at Beaver Lodge Pump Station



Figure 21: Electrical Equipment Building at Beaver Lodge Pump Station



Figure 22: Pumps & Meters at Lignite Pump Station



Figure 23: Pumps & Meters at Lignite Pump Station



Figure 24: Pumps & Meters at Kenaston Pump Station



Figure 25: Pumps & Meters at Kenaston Pump Station



Figure 26: Gates at Kenaston Pump Station



**BEAVER LODGE LOOP PROJECT
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Exhibit A.2	Beaver Lodge Loop Project Overview Map
Exhibit A.3	Bakken Pipeline Expansion Program Map

ENBRIDGE PIPELINES (NORTH DAKOTA) LLC SYSTEM MAP

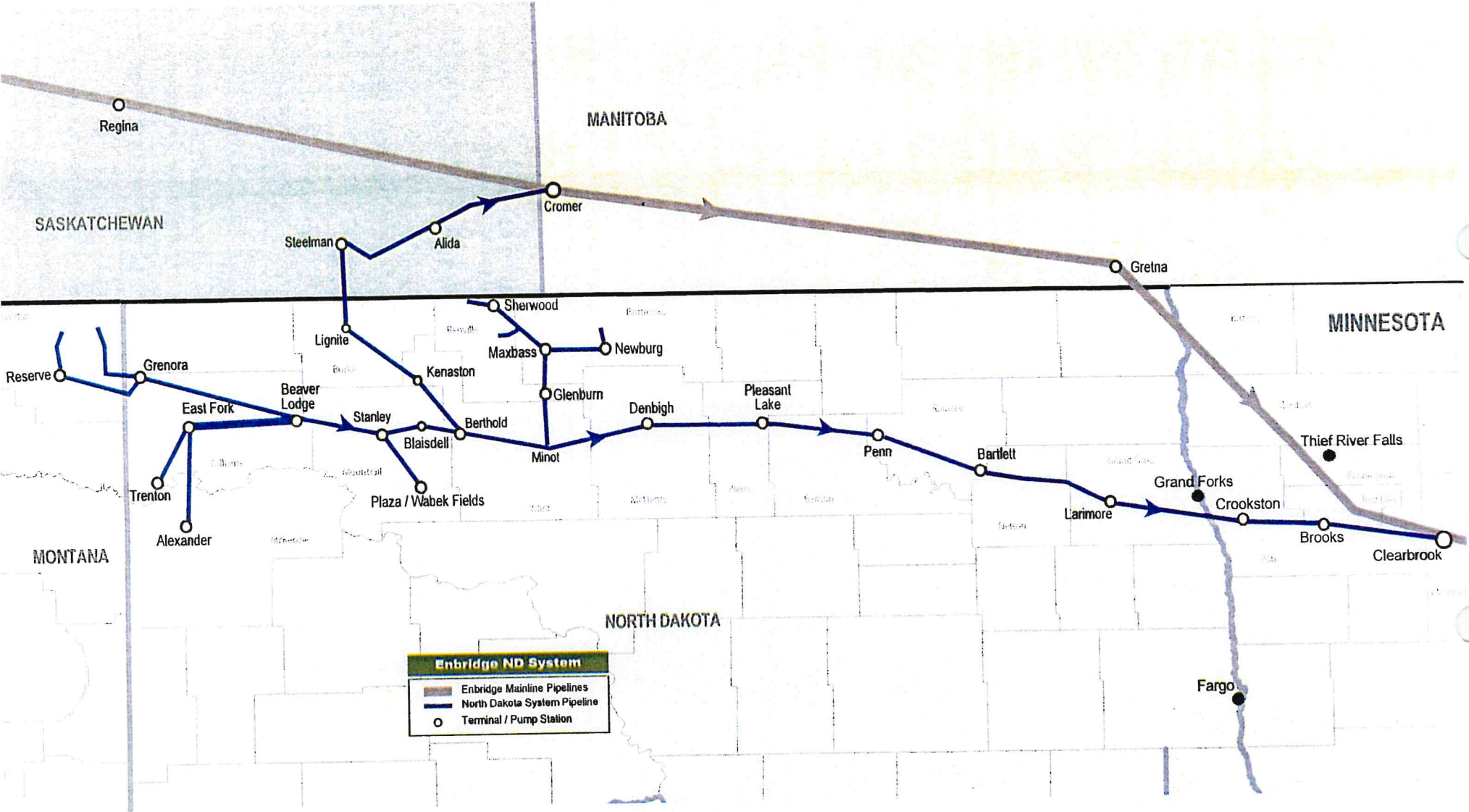
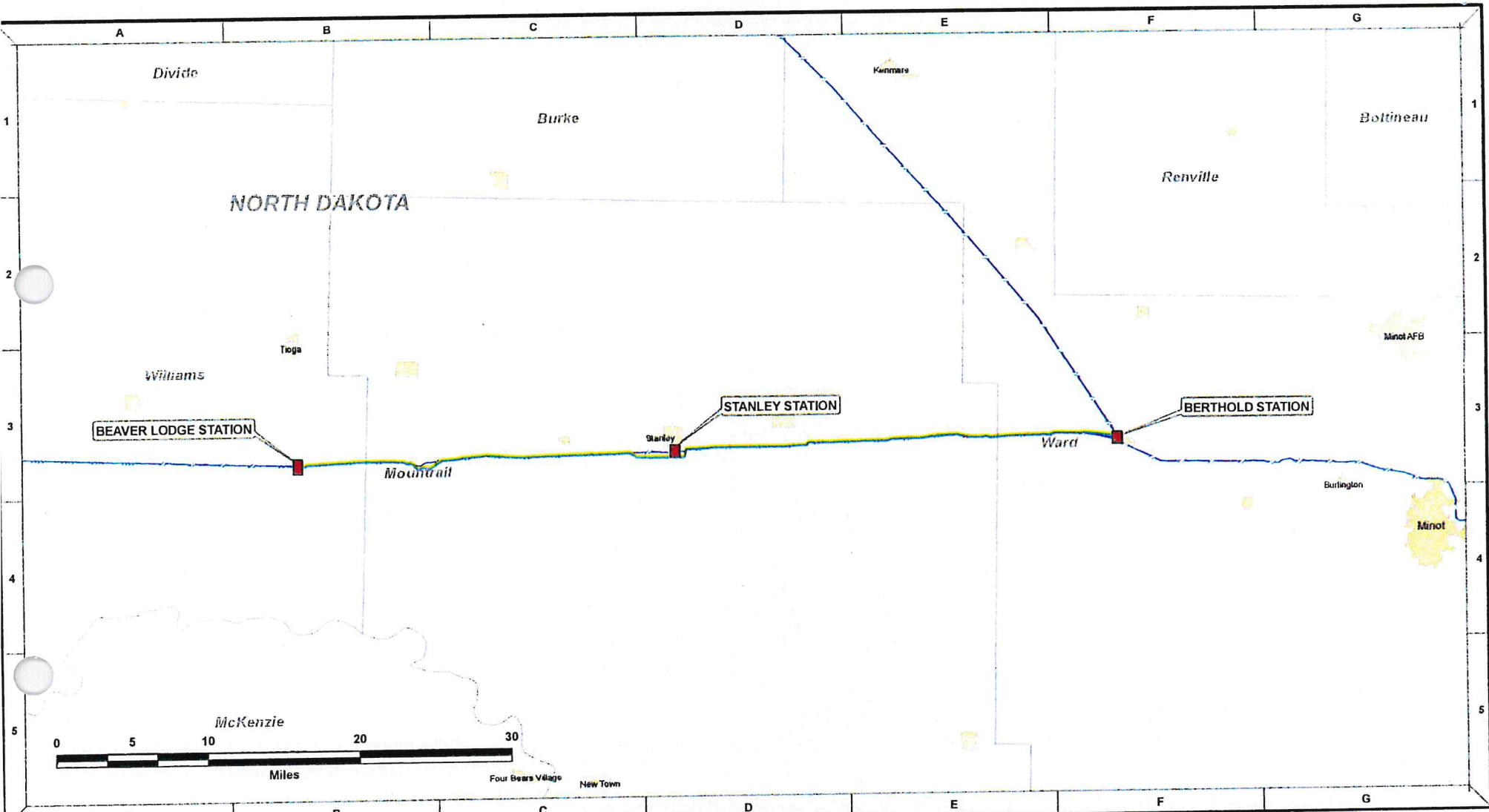


EXHIBIT A.1



- Existing Enbridge Pipelines
- Proposed 16" Pipeline - Beaver Lodge to Berthold
- Existing Enbridge Station Site

EXHIBIT A.2

MINNESOTA
 ROONEY ENGINEERING, INC.
 CENTENNIAL, COLORADO
 50727-8371

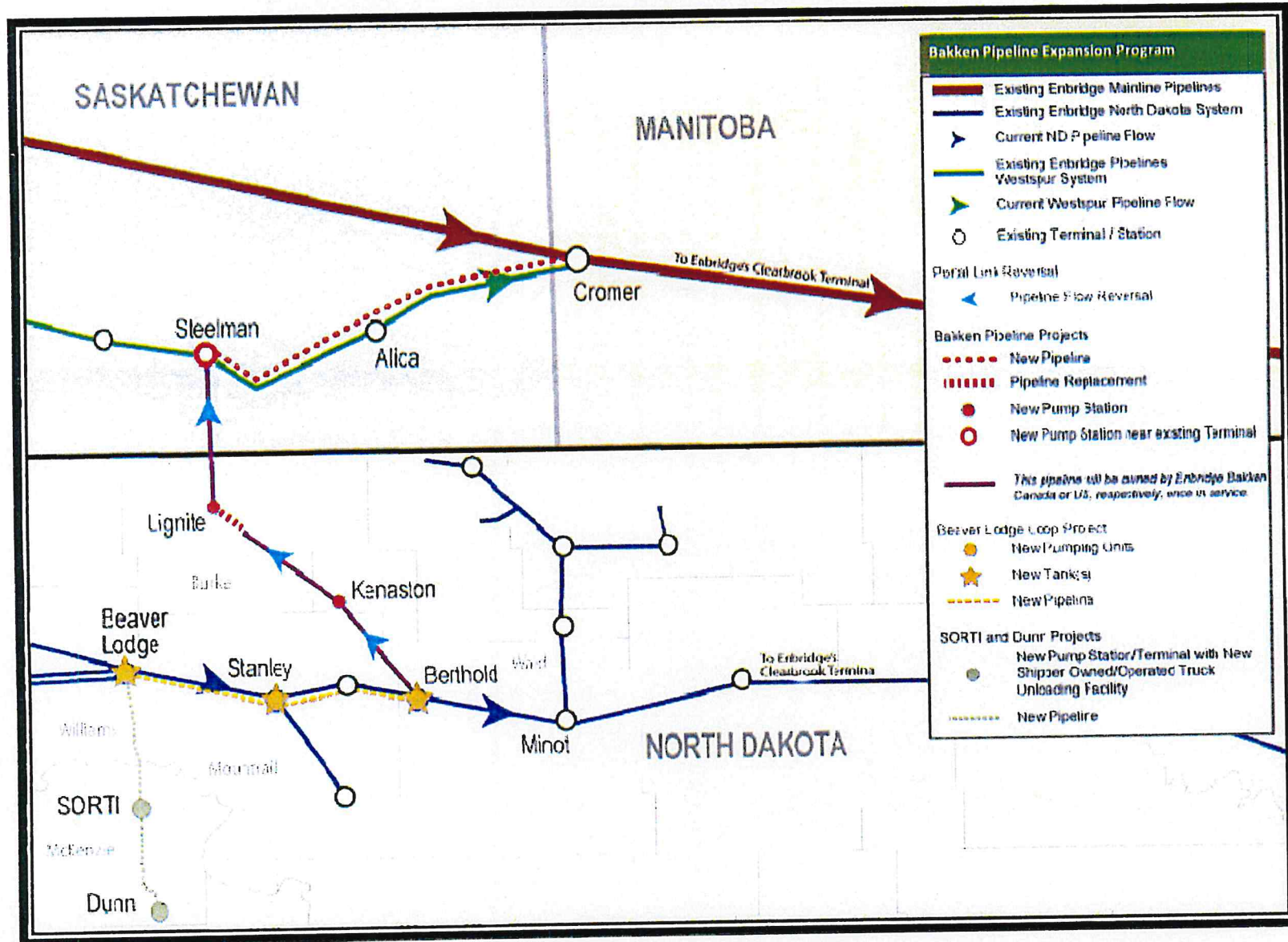


BEAVER LODGE LOOP PROJECT
 Project Overview Map

DRAWN: AMW	CHECKED: DS
DATE: 10/1/08	SCALE: AS SHOWN

2715-M-01000

BAKKEN PIPELINE EXPANSION PROGRAM



PERMITS

CROWLEY FLECK

Wade C. Mann
400 East Broadway, Suite 600
P.O. Box 2798
Bismarck, ND 58502-2798
701.223.6585
wmann@crowleyfleck.com

RECEIVED

August 9, 2012

AUG 10 2012

Mr. Darrell Nitschke
Executive Director
North Dakota Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480

PUBLIC SERVICE COMMISSION

Dear Mr. Nitschke:

RE: Enbridge Pipelines (North Dakota) LLC
Beaver Lodge Loop Project
Williams, Mountrail and Ward Counties
Supplemental Filing
Docket No. PU-10-613
Our File No. 31-411-003

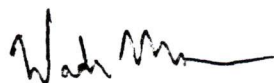
Enbridge Pipelines (North Dakota) LLC (hereinafter "EPND") encloses for filing, the original and ten copies of the following information to supplement its *Certificate of Corridor Compatibility and Route Permit* application in the above-referenced proceeding.

Activity	Water Appropriation Permit (ND State Water Commission)	Water Discharge Permit (ND Department of Health)
Mainline drilling/dust control	ND2012-14352	Authorization letter dated July 17, 2012
Stanley Station hydrostatic testing (new tankage/station piping)	ND2012-14399	NDG070338
Beaver Lodge Station hydrostatic testing (new tankage/station piping)	NA (using previously permitted water source)	NDG070339

Berthold Station hydrostatic testing (new tankage/station piping)	pending	NDG070337
--	---------	-----------

Please feel free to call me with any questions.

Very truly yours,



Wade C. Mann

bw
Enc.

Permit Number - ND2012-14352

State of North Dakota
Temporary Water Permit
SWC Project No. 1400A

In response to an application for a temporary water permit dated Jun 26, 2012 as received in this office Jun 28, 2012, authority is hereby granted to:

Enbridge Pipeline (ND) LLC
1409 Hammond Avenue
Superior, WI 54880
Contact Person: Sara Ploetz

Telephone (715) 398-4730

A Temporary Water Permit as follows:

Source: Un-named slough

Point of Diversion: NE1/4 Sec. 30 Twp. 156 Rng. 094

Nature of Use: Pipeline Construction

Total Quantity of Water: 200,000.0 Gallons

Maximum Withdrawal Rate: 200.0 gpm

Period of authorized useage: Jul 2, 2012 through Jan 1, 2013

Conditions

This temporary water permit is granted subject to use from the source by senior appropriators. Permission for access to the source must be obtained from all affected landowners. Failure to comply with any order of the State Engineer may result in forfeiture of this permit. The granting of a temporary water permit does not create a water right.

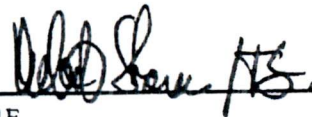
The Total Quantity of Water listed above is equivalent to 0.61 acre-feet.

The use of the water authorized by this Temporary Water Permit shall be limited to activities associated with the boring and installation of a pipeline, including dust control. Any other use is unauthorized and will result in the forfeiture of this temporary water permit.

A weatherproof copy of this Temporary Water Permit must be attached the equipment withdrawing water and must be available for inspection by representatives of the State Engineers Office or the State Water Commission.

Dated: Jul 2, 2012

cc: Mountrail WRD



Todd Sando, P.E.
State Engineer
ND State Water Commission
900 East Boulevard
Bismarck, ND 58505

Permit Number - ND2012-14399

State of North Dakota
Temporary Water Permit
SWC Project No. 1400A

In response to an application for a temporary water permit dated Jul 19, 2012 as received in this office Jul 19, 2012, authority is hereby granted to:

Enbridge Pipeline (ND) LLC
1409 Hammond Avenue
Superior, WI 54880
Contact Person: Sara Ploetz

Telephone (715) 398-4730

A Temporary Water Permit as follows:

Source: Stanley Reservoir

Point of Diversion: NW1/4 Sec. 34 Twp. 156 Rng. 091

Nature of Use: Hydrostatic testing

Total Quantity of Water: 85,000.0 Barrels

Maximum Withdrawal Rate: 1,000.0 gpm

Period of authorized useage: Aug 1, 2012 through Jul 31, 2012

Note: The requested source was listed as "un-named slough associated with Little Knife River", but review of the location indicated that the Stanley Reservoir is the dominant surface water feature in this quarter.

Conditions


This temporary water permit is granted subject to use from the source by senior appropriators. Permission for access to the source must be obtained from all affected landowners. Failure to comply with any order of the State Engineer may result in forfeiture of this permit. The granting of a temporary water permit does not create a water right.

The Total Quantity of Water listed above is equivalent to 10.96 acre-feet.

The storage of water in the Stanley Reservoir is authorized under perfected water permit number 1558, held by the City of Stanley. The permit holder and the contractor must obtain written permission from the City of Stanley prior to withdrawing water from the Stanley Reservoir.

Dated: Jul 27, 2012

cc: Mountrail WRD



Todd Sando, P.E.
State Engineer
ND State Water Commission
900 East Boulevard
Bismarck, ND 58505

Permit Number - ND2012-14399


State of North Dakota
Temporary Water Permit
SWC Project No. 1400A

The use of the water authorized by this Temporary Water Permit shall be limited to the hydrostatic testing of new station tankage and piping. Any other use is unauthorized and will result in the forfeiture of this temporary water permit.

A weatherproof copy of this Temporary Water Permit must be attached the equipment withdrawing water and must be available for inspection by representatives of the State Engineers Office or the State Water Commission.

Dated: Jul 27, 2012

cc: Mountrail WRD



Todd Sando, P.E.
State Engineer
ND State Water Commission
900 East Boulevard
Bismarck, ND 58505



NORTH DAKOTA
DEPARTMENT of HEALTH

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



July 17, 2012

Paul Hartzheim – Senior Analyst
800 Washington Ave N; Suite 315
Minneapolis, MN 55401

Re: Enbridge Pipelines (North Dakota) LLC, Beaver Lodge Loop Project (West)/Berthold Expansion Project

Dear Mr. Hartzheim,

The Department has reviewed the paperwork dated June 28, 2012, for Enbridge Pipelines (North Dakota) LLC Beaver Lodge Loop (West) and Berthold Expansion projects. We concur with your request to reuse the hydrostatic test water for dust control. The water may not leave the properties since a permit was not obtained for these two projects.

In summary, your proposal is to utilize the hydrostatic test water as dust control on Enbridge's property and right-of-ways. Beaver Lodge Loop project is looking at using 60,000 gallons of water while the Berthold Station Expansion project is looking at using 40,000 gallons. The water is to be used on new piping with no additives.

If you have any questions, please contact me at 701.328.5234.

Sincerely,

Marty Haroldson
Environmental Scientist
Division of Water Quality

MH

Environmental Health
Section Chief's Office
701.328.5150

Division of
Air Quality
701.328.5188

Division of
Municipal Facilities
701.328.5211

Division of
Waste Management
701.328.5166

Division of
Water Quality
701.328.5210



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DEPARTMENT of HEALTH

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www.ndhealth.gov



July 30, 2012

Sara Ploetz
Enbridge Pipelines (North Dakota) LLC
1409 Hammond Avenue
Superior, WI 54880

Re: NDPDES Permit No. NDG070337

We have received your "Application for Permit to Discharge - NDPDES Industrial-Short Form C" and have granted authority to discharge under the General Permit for Temporary Dewatering/Hydrostatic Testing Permit NDG070000. Your facility has been assigned permit no. **NDG070337**. This permit has been issued by the North Dakota Department of Health (NDDoH) with the understanding that all other applicable permits and permissions have been obtained for the start of the following project. The application indicates that the discharge(s) will consist of ground, surface, or potable water from the expansion project of the Berthold Station:

<u>Discharge Point</u>	<u>Volume (Gallons)</u>	<u>Location</u>	
001H	≈ Unknown	Berthold Station	TWN 156N, RNG 86W, Sections, 20,21 County Ward

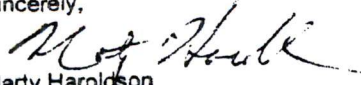
All discharge points shall be inspected daily. On a daily basis record the total volume of discharge and make a visual inspection for Oil and Grease. Analytical parameters for pH and Total Suspended Solids (TSS) shall be tested for this project. The parameter for Chlorine shall be tested only if the water source has been chlorinated. The parameter of Oil and/or Grease is waived unless sheen is observed in the discharge; if observed then collect a sample for Total Petroleum Hydrocarbon (TPH). The department shall be contacted on all findings of Oil and Grease. All discharges made directly to a surface water body or wetland shall be inspected closely so as to minimize any turbidity issues. Best Management Practices (BMPs) must be used to minimize the impact of the discharge.

ADDITIVES: No additives were reviewed for this project.

Enclosed are Discharge Monitoring Report (DMR) forms for your use. If someone else is responsible for the submittal of the DMRs, please forward this letter and the enclosed forms to them. The reports cover three months; the dates and location have been filled out. If no discharge occurs during the reporting period, check "No" in section one. The reports must be post-marked by the last day of the month following the end of each reporting period. All original DMR forms should be sent to NDDoH and a copy should be kept for your files. **EPA no longer requires a copy of the DMR form.**

If any other testing is conducted during this project, copies of the results of any such test should be forwarded to the Department. **Should you wish to no longer be covered under this permit, you must submit a written request to terminate and cite the reasons for termination.** Coverage shall be maintained until a written notification to release has been issued to the permittee by NDDoH. Should you have any questions about your permit or how to complete the DMRs, please contact me at (701) 328-5234.

Sincerely,


Marty Haroldson
Environmental Scientist
Division of Water Quality

Enc.
Cc: EPA

Environmental Health
Section Chief's Office
701.328.5150

Division of
Air Quality
701.328.5188

Division of
Municipal Facilities
701.328.5211

Division of
Waste Management
701.328.5166

Division of
Water Quality
701.328.5210



NORTH DAKOTA
DEPARTMENT of HEALTH

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



July 30, 2012

Sara Ploetz
Enbridge Pipelines (North Dakota) LLC
1409 Hammond Avenue
Superior, WI 54880

Re: NDPDES Permit No. NDG070338

We have received your "Application for Permit to Discharge - NDPDES Industrial-Short Form C" and have granted authority to discharge under the General Permit for Temporary Dewatering/Hydrostatic Testing Permit NDG070000. Your facility has been assigned permit no. **NDG070338**. This permit has been issued by the North Dakota Department of Health (NDDoH) with the understanding that all other applicable permits and permissions have been obtained for the start of the following project. The application indicates that the discharge(s) will consist of ground, surface, or potable water from the expansion project of the Stanley Station:

<u>Discharge Point</u>	<u>Volume (Gallons)</u>	<u>Location</u>	
001H	≈ Unknown	Stanley Station	TWN 156N, RNG 91W, Sections, 27 Mountrail County

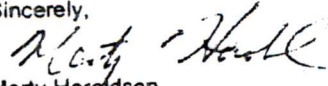
All discharge points shall be inspected daily. On a daily basis record the total volume of discharge and make a visual inspection for Oil and Grease. Analytical parameters for pH and Total Suspended Solids (TSS) shall be tested for this project. The parameter for Chlorine shall be tested only if the water source has been chlorinated. The parameter of Oil and/or Grease is waived unless sheen is observed in the discharge; if observed then collect a sample for Total Petroleum Hydrocarbon (TPH). The department shall be contacted on all findings of Oil and Grease. All discharges made directly to a surface water body or wetland shall be inspected closely so as to minimize any turbidity issues. Best Management Practices (BMPs) must be used to minimize the impact of the discharge.

ADDITIVES: No additives were reviewed for this project.

Enclosed are Discharge Monitoring Report (DMR) forms for your use. If someone else is responsible for the submittal of the DMRs, please forward this letter and the enclosed forms to them. The reports cover three months; the dates and location have been filled out. If no discharge occurs during the reporting period, check "No" in section one. The reports must be post-marked by the last day of the month following the end of each reporting period. All original DMR forms should be sent to NDDoH and a copy should be kept for your files. **EPA no longer requires a copy of the DMR form.**

If any other testing is conducted during this project, copies of the results of any such test should be forwarded to the Department. **Should you wish to no longer be covered under this permit, you must submit a written request to terminate and cite the reasons for termination.** Coverage shall be maintained until a written notification to release has been issued to the permittee by NDDoH. Should you have any questions about your permit or how to complete the DMRs, please contact me at (701) 328-5234.

Sincerely,


Marty Haroldson
Environmental Scientist
Division of Water Quality

Enc.

Cc: EPA

Environmental Health
Section Chief's Office
701.328.5150

Division of
Air Quality
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Bismarck, ND 58501-1947
701.328.5200 (fax)
www.ndhealth.gov



July 30, 2012

Sara Ploetz
Enbridge Pipelines (North Dakota) LLC
1409 Hammond Avenue
Superior, WI 54880

Re: NDPDES Permit No. NDG070339

We have received your "Application for Permit to Discharge - NDPDES Industrial-Short Form C" and have granted authority to discharge under the General Permit for Temporary Dewatering/Hydrostatic Testing Permit NDG070000. Your facility has been assigned permit no. **NDG070339**. This permit has been issued by the North Dakota Department of Health (NDDoH) with the understanding that all other applicable permits and permissions have been obtained for the start of the following project. The application indicates that the discharge(s) will consist of ground, surface, or potable water from the expansion project of the Beaver Lodge Station:

<u>Discharge Point</u>	<u>Volume (Gallons)</u>	<u>Location</u>	
001H	≈ Unknown	Beaver Lodge Station	TWN 156N, RNG 95W, Sections, 32 Williams County

All discharge points shall be inspected daily. On a daily basis record the total volume of discharge and make a visual inspection for Oil and Grease. Analytical parameters for pH and Total Suspended Solids (TSS) shall be waived for this project. The parameter for Chlorine shall be tested only if the water source has been chlorinated. The parameter of Oil and/or Grease is waived unless sheen is observed in the discharge; if observed then collect a sample for Total Petroleum Hydrocarbon (TPH). The department shall be contacted on all findings of Oil and Grease. All discharges made directly to a surface water body or wetland shall be inspected closely so as to minimize any turbidity issues. Best Management Practices (BMPs) must be used to minimize the impact of the discharge.

ADDITIVES: No additives were reviewed for this project.

Enclosed are Discharge Monitoring Report (DMR) forms for your use. If someone else is responsible for the submittal of the DMRs, please forward this letter and the enclosed forms to them. The reports cover three months; the dates and location have been filled out. If no discharge occurs during the reporting period, check "No" in section one. The reports must be post-marked by the last day of the month following the end of each reporting period. All original DMR forms should be sent to NDDoH and a copy should be kept for your files. **EPA no longer requires a copy of the DMR form.**

If any other testing is conducted during this project, copies of the results of any such test should be forwarded to the Department. **Should you wish to no longer be covered under this permit, you must submit a written request to terminate and cite the reasons for termination.** Coverage shall be maintained until a written notification to release has been issued to the permittee by NDDoH. Should you have any questions about your permit or how to complete the DMRs, please contact me at (701) 328-5234.

Sincerely,

Marty Haroldson
Environmental Scientist
Division of Water Quality

Enc.
Cc: EPA

Environmental Health
Section Chief's Office
701.328.5150

Division of
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701.328.5188

Division of
Municipal Facilities
701.328.5211

Division of
Waste Management
701.328.5166

Division of
Water Quality
701.328.5210

CROWLEY FLECK

Brian R. Bjella
400 East Broadway, Suite 600
P.O. Box 2798
Bismarck, ND 58502-2798
701.223.6585
bbjella@crowleyfleck.com

RECEIVED

August 14, 2012

AUG 15 2012

Mr. Darrell Nitschke
Executive Director
North Dakota Public Service Commission
600 E. Boulevard, Dept. 408
Bismarck, ND 58505-0480

PUBLIC SERVICE COMMISSION

Dear Mr. Nitschke:

RE: Enbridge Pipelines (North Dakota) LLC
Beaver Lodge Loop Project
Williams, Mountrail and Ward Counties
Supplemental Filing
Docket No. PU-10-613
Our File No. 31-411-003

Enbridge Pipelines (North Dakota) LLC (hereinafter "EPND") encloses for filing, the original and ten copies of the following information to supplement its *Certificate of Corridor Compatibility and Route Permit* application in the above-referenced proceeding.

Activity	Water Appropriation Permit (ND State Water Commission)	Water Discharge Permit (ND Department of Health)
Drilling Mud/Dust Control	ND2012-14443	NA
Drilling Mud/Dust Control	ND2012-14444	NA

163 PU-10-613 Filed: 8/15/2012 Pages: 5
Permits

BILLINGS BISMARCK BOZEMAN HELENA KALISPELL

CROWLEY FLECK

Enbridge Pipelines (North Dakota) LLC

Please feel free to call me with any questions.

Very truly yours,

A handwritten signature in black ink, appearing to read 'Bjella', with a long horizontal line extending to the right.

Brian R. Bjella

bw
Enc.

Permit Number - ND2012-14443

State of North Dakota
Temporary Water Permit
SWC Project No. 1400A

In response to an application for a temporary water permit dated Jul 16, 2012 as received in this office Jul 16, 2012, authority is hereby granted to:

Enbridge Pipeline (ND) LLC
1409 Hammond Avenue
Superior, WI 54880
Contact Person: Sara Ploetz

Telephone (715) 398-4730

A Temporary Water Permit as follows:

Source: Un-named wetland

Point of Diversion: SE1/4 Sec. 26 Twp. 156 Rng. 092

Nature of Use: Pipeline Construction

Total Quantity of Water: 100,000.0 Gallons

Maximum Withdrawal Rate: 200.0 gpm

Period of authorized useage: Aug 9, 2012 through Jun 30, 2013

Conditions

This temporary water permit is granted subject to use from the source by senior appropriators. Permission for access to the source must be obtained from all affected landowners. Failure to comply with any order of the State Engineer may result in forfeiture of this permit. The granting of a temporary water permit does not create a water right.

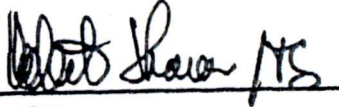
The Total Quantity of Water listed above is equivalent to 0.31 acre-feet.

The use of the water authorized by this Temporary Water Permit shall be limited to the drilling fluid mixture for pipeline bores and associated pipeline construction efforts, such as dust control associated with the Enbridge Pipeline expansion efforts. Any other use is unauthorized and will result in the forfeiture of this temporary water permit.

A weatherproof copy of this Temporary Water Permit must be attached the equipment withdrawing water and must be available for inspection by representatives of the State Engineers Office or the State Water Commission.

Dated: Aug 9, 2012

cc: Mountrail WRD



Todd Sando, P.E.
State Engineer
ND State Water Commission
900 East Boulevard
Bismarck, ND 58505

Permit Number - ND2012-14443

State of North Dakota
Temporary Water Permit
SWC Project No. 1400A

In response to an application for a temporary water permit dated Jul 16, 2012 as received in this office Jul 16, 2012, authority is hereby granted to:

Enbridge Pipeline (ND) LLC
1409 Hammond Avenue
Superior, WI 54880
Contact Person: Sara Ploetz

Telephone (715) 398-4730

A Temporary Water Permit as follows:

Source: Un-named wetland

Point of Diversion: SE1/4 Sec. 26 Twp. 156 Rng. 092

Nature of Use: Pipeline Construction

Total Quantity of Water: 100,000.0 Gallons

Maximum Withdrawal Rate: 200.0 gpm

Period of authorized useage: Aug 9, 2012 through Jun 30, 2013

Conditions

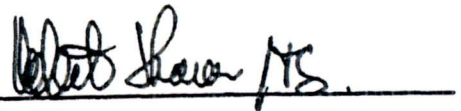
This temporary water permit is granted subject to use from the source by senior appropriators. Permission for access to the source must be obtained from all affected landowners. Failure to comply with any order of the State Engineer may result in forfeiture of this permit. The granting of a temporary water permit does not create a water right.

The Total Quantity of Water listed above is equivalent to 0.31 acre-feet.

The use of the water authorized by this Temporary Water Permit shall be limited to the drilling fluid mixture for pipeline bores and associated pipeline construction efforts, such as dust control associated with the Enbridge Pipeline expansion efforts. Any other use is unauthorized and will result in the forfeiture of this temporary water permit.

A weatherproof copy of this Temporary Water Permit must be attached the equipment withdrawing water and must be available for inspection by representatives of the State Engineers Office or the State Water Commission.

Dated: Aug 9, 2012



Todd Sando, P.E.
State Engineer
ND State Water Commission
900 East Boulevard
Bismarck, ND 58505

cc: Mountrail WRD

Permit Number - ND2012-14444

**State of North Dakota
Temporary Water Permit
SWC Project No. 1400A**

In response to an application for a temporary water permit dated Jul 16, 2012 as received in this office Jul 16, 2012, authority is hereby granted to:

Enbridge Pipeline (ND) LLC
1409 Hammond Avenue
Superior, WI 54880
Contact Person: Sara Ploetz

Telephone (715) 398-4730

A Temporary Water Permit as follows:

Source: Un-named pond

Point of Diversion: SW1/4 Sec. 28 Twp. 156 Rng. 092

Nature of Use: Pipeline Construction

Total Quantity of Water: 100,000.0 Gallons

Maximum Withdrawal Rate: 200.0 gpm

Period of authorized useage: Aug 9, 2012 through Jun 30, 2013

Conditions

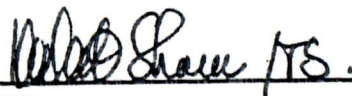
This temporary water permit is granted subject to use from the source by senior appropriators. Permission for access to the source must be obtained from all affected landowners. Failure to comply with any order of the State Engineer may result in forfeiture of this permit. The granting of a temporary water permit does not create a water right.

The Total Quantity of Water listed above is equivalent to 0.31 acre-feet.

The use of the water authorized by this Temporary Water Permit shall be limited to the drilling fluid mixture for pipeline bores and associated pipeline construction efforts, such as dust control associated with the Enbridge Pipeline expansion efforts. Any other use is unauthorized and will result in the forfeiture of this temporary water permit.

A weatherproof copy of this Temporary Water Permit must be attached the equipment withdrawing water and must be available for inspection by representatives of the State Engineers Office or the State Water Commission.

Dated: Aug 9, 2012



Todd Sando, P.E.
State Engineer
ND State Water Commission
900 East Boulevard
Bismarck, ND 58505

cc: Mountrail WRD