

Minnesota Public Utilities Commission

Staff Briefing Papers

Meeting Date: **February 23, 2017**Agenda Item #1**

Company: Xcel Energy

Docket No. G002/GP-16-656

In the Matter of the Application of Xcel Energy for a Route Permit for the Black Dog Natural Gas Pipeline Project in Burnsville, Minnesota

Issue(s): Should the Commission grant a partial exemption from pipeline route selection procedures and issue a route permit to Xcel Energy for the Black Dog Natural Gas Pipeline project?

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Background Documents

Xcel Energy - Route Permit Application (5 Parts)	August 18, 2016
MNDOT – Comments.....	November 15, 2016
Xcel Energy – Comments on Burnsville Corridor	November 16, 2016
MN DNR – Comment	November 16, 2016
City of Burnsville – Public Comment	November 16, 2016
Xcel Energy – Reply Comments: FOF and Reply	November 23, 2016
DOC EERA – Comments.....	November 30, 2016
Xcel Energy – Reply Comments: Update on Water Resources.....	November 30, 2016
Commission – Public Comments	December 1, 2016
Xcel Energy – Waiver of Decision Deadline for the Black Dog NG PL Project .	December 8, 2016
Xcel Energy – Supplement.....	December 21, 2016
Xcel Energy – Updated Table 7	December 28, 2016
MN DNR – Comments.....	January 9, 2017
City of Burnsville – Response to Reply Comments	January 9, 2017
DOC EERA - Comments and Recommendations	January 13, 2017
Xcel Energy – Letter Response to DOC EERA Comments	January 17, 2017
Xcel Energy – Metropolitan Council Encroachment Agreement.....	February 1, 2017

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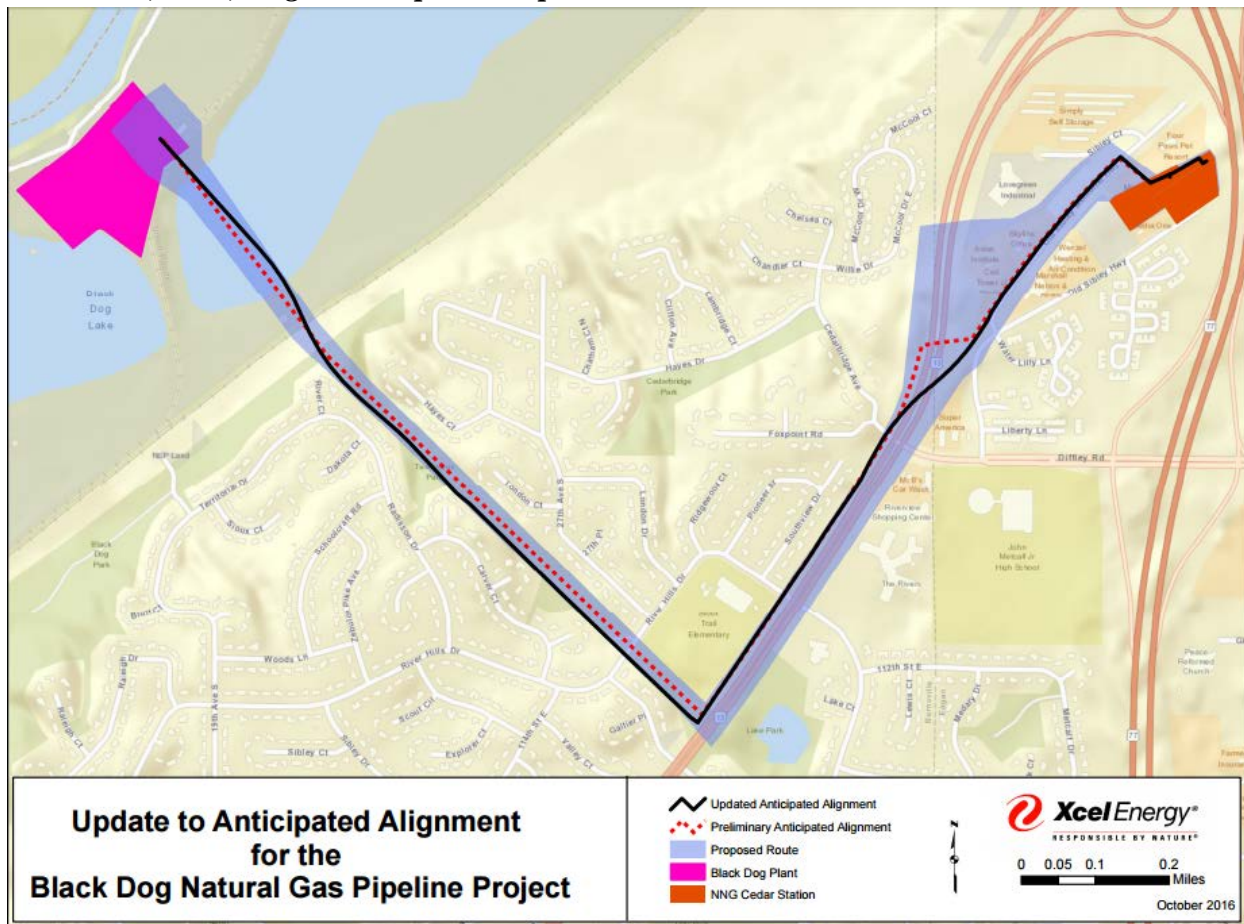
I. Statement of the Issues

Should the Commission grant a partial exemption from the pipeline route selection procedures and issue a route permit to Xcel Energy for the Black Dog Natural Gas Pipeline Project?

II. Project Overview

The project proposed by Xcel Energy (Xcel) is to bring natural gas from the Northern Natural Gas Cedar Station in Eagan to the Black Dog Generating Plant in Burnsville, Minnesota. The proposed project is for the construction of 11,300-foot (roughly 2-miles) of 16-inch, 650-psig natural gas pipeline to fuel the recently approved Black Dog Unit 6.¹

October 26, 2016, Alignment Update Map



¹ Approved as part of Xcel’s Competitive Resource Acquisition Docket, CN-12-1240.

III. Partial Exemption Process

Minnesota Statutes § 216G.02 requires a pipeline routing permit issued by the Commission to construct and install certain intrastate pipelines designed to transport hazardous liquids. The pipeline routing requirements are outlined in Minnesota Rules, Chapter 7852.

The Commission has jurisdiction over the routing of pipelines with a nominal diameter of six inches or more that are designed to transport hazardous liquids and pipelines designed to be operated at a pressure of more than 275 pounds per square inch and carry natural gas.

If the applicant does not expect a proposed pipeline to have significant impacts on humans or the environment, it can submit an application for partial exemption from pipeline permitting procedures. The Commission will decide whether to grant or deny the partial exemption within 90 days after the Commission accepts the partial exemption application as complete. The partial exemption process culminates with a determination of ‘no significant impact’ and an issuance of a route permit.

IV. Procedural History

On August 18, 2016 Xcel Energy filed an application for the Black Dog Natural Gas Pipeline project.

On September 30, 2016, the Commission accepted the application for a partial exemption. The Commission held a public meeting to solicit input on the proposal on November 2, 2016. Following the public meeting, comments were received on the application until November 30, 2016.

Comments were received by the Metropolitan Council, the Minnesota Department of Transportation (MnDOT), the Department of Natural Resources (MN DNR), the Minnesota Pollution Control Agency, the city of Burnsville, the Lower Minnesota River Watershed District (LMRWD), the Department of Commerce Energy Environmental Review and Analysis Unit (EERA) and several members of the public.

Notably on November 30, 2016, due to the comments from the other agencies, EERA staff recommended a denial of the request for a partial exemption.

Xcel Energy filed a response to some of the agency and interested person comments providing additional record information, but since that information was filed at the end of the reply comment period – no commenting entity had an opportunity to inform the record of their updated position, if any.

As a result of the concerns expressed in comments, and largely the EERA’s recommendation that the Commission deny the request for a partial exemption, Xcel submitted a letter on December 8, 2016, requesting to file a record supplement and agreeing to waive the 90-day statutory deadline for a Commission decision on the partial exemption. The record supplement was filed by Xcel on December 21, 2016.

Since a supplement is a contemplated outcome in instances of a denial pursuant to Minn. Rule 7852.0600, Subp.6 staff continued processing the application by issuing a notice on December 22, 2016. The notice solicited comments on the supplemental information and whether the Commission should grant a partial exemption and issue a route permit based on the revised record. Initial comments were due on January 9, 2017, and reply comments were due on January 16, 2017.

Comments on the supplemental information were received from the MN DNR, the city of Burnsville, the EERA and Xcel Energy. All comments noted that the record had been sufficiently supplemented or did not indicate that there were outstanding concerns regarding the project. The EERA recommended the Commission issue a route permit to Xcel Energy for the project.

V. Previously Outstanding Issues

Staff provides a summary of the comments submitted during the comment periods on the project as attachment 1. The attachment identifies the issues faced during the proceeding and how they were supplemented or addressed by Xcel Energy.

VI. Recommendation

Staff agrees with the EERA staff comments, that with the additional special permit conditions, a partial exemption and route permit should be issued for the project. All outstanding issues raised by the public and other governmental agencies have been addressed or resolved by Xcel's filings.

Staff has attached proposed findings of fact and a proposed route permit for the Black Dog Natural Gas Pipeline Project.

VII. Commission Decision Alternatives

A. Partial Exemption

1. Grant the request for a partial exemption to the pipeline route selection procedures.
2. Deny the request for a partial exemption to the pipeline route selection procedures.

B. Route Permit

1. Issue the attached Route Permit to Xcel Energy for the Black Dog Natural Gas Pipeline Project.
2. Deny issuing a Route Permit to Xcel Energy for the Black Dog Natural Gas Pipeline Project.
3. Take some other action.

C. Administrative Consistency

1. Authorize Commission staff to make further findings of fact or permit modifications necessary to ensure consistency with the record and recently issued permits.

Staff Recommendation: A1, B1, C1.

Attachment 1. Summary of Comments on the Black Dog Pipeline Partial Exemption and Route Permit Application (G002/GP-16-656)

Metropolitan Council

The Metropolitan Council submitted comments that indicated an Encroachment Application and agreement with their agency would be required due to the pipeline's crossing of Council Interceptor 7030. The interceptor is a concrete pipe, installed at a depth of 16 feet. This approval was not listed in Xcel's initial application as a necessary approval. The letter from the Met Council did not indicate any reason why the approval could not be obtained, or that it had concerns about the project.

Xcel November 23 Response: Xcel did not provide a response to this comment, however they did list this approval in their overview slides at the November 2, 2016 public meeting.

Xcel February 1 Filing: Xcel filed correspondence from the Metropolitan Council that indicates an encroachment agreement is not necessary.

Staff Conclusion: Staff concludes this issue has been resolved.

Minnesota Department of Transportation

MnDOT indicated it had three areas of significant concern regarding Xcel's proposed route and alignment:

- 1) Xcel proposes to place the gas pipeline longitudinally within the highway right of ways;
- 2) The proposed route and alignment places the new pipeline on the opposite side of the highway from an existing pipeline, which could constrain any future modification or repair work to the highway; and,
- 3) Xcel proposes to cross Trunk Highway 13 at a long skewed angle rather than at a right angle, which is ordinarily required of a gas pipeline under a highway.

MnDOT noted that these issues are not standard practices allowed under its general Utility Accommodation Policy and therefore these practices would only be allowed if MnDOT found either an extreme hardship or unusual conditions. At the time of the comment period Xcel had not filed an application with MnDOT.

Xcel's November 23 Response: Xcel noted in their reply comments that they will continue to work with MnDOT on the development of an accommodation permit and exception request. Xcel noted that an earlier project update indicated the reasons the unusual conditions or hardship existed, that, "the change in the Highway 13 crossing is due to the horizontal and vertical angles needed to drill and install pipe."

Xcel's December 21 Supplement: On December 14, 2016 Ann Driver, Utility Permits Unit Supervisor, sent an email to Xcel Energy stating that while MnDOT will not issue an accommodation permit until the Commission has approved the route, based on the

information provided MnDOT believes that the exception letter and permit application provided will be permissible.

Staff Conclusion: Staff concludes this issue has been resolved.

Minnesota Department of Natural Resources

The MNDNR noted that the project has the potential to impact the state designated Black Dog Calcareous fen and that it had understood Xcel was drafting a memorandum to explain how the project is not expected to adversely affect nearby fens (as was stated in the application at page 9-6). The MNDNR noted that it would review the memorandum and determine at that time whether it would require a calcareous fen management plan.

Additionally, MNDNR noted the potential for the project to impact the Blanding's turtle and recommended that trenches be checked for presence of turtles prior to backfilling. The MNDNR noted it agreed with Xcel that there were no known rare species in the project area and with the implementation of certain construction and restoration practices outlined in Xcel's application. The MN DNR also suggested the use of native seed mix and timeframes for the restoration of the pipeline right-of-way.

Xcel's November 23 Response: Xcel noted that it was drafting a memorandum in response to comments and would provide additional detail regarding the project's impact to ground and surface waters. Xcel noted it would work with the DNR on native seed mixes.

Xcel's November 30 Response: Xcel filed its memorandum on issues raised by the MNDNR, MNPCA and the LMRWD and it included a more detailed analysis of the potential for impacts to nearby water resources. Xcel noted its concurrence to have construction personnel check trenches for Blanding's turtles prior to backfilling.

Xcel's December 21 Supplement: The DNR provided a letter on December 13, 2016 indicating that a fen management plan will not be needed and provided methods to be implemented to protect Blanding's turtles. Further the DNR noted that no construction stormwater may be directed into the fen. Xcel noted their agreement with these provisions.

Staff Conclusion: Staff concludes these issues have been resolved and special conditions regarding the Blanding's turtles, project dewatering and fen discharges have been included in the proposed permit.

City of Burnsville

The city of Burnsville indicated it would be supportive of the project if 10 conditions were agreed to by Xcel. As the EERA noted in their reply comments, there is no concurrence from Xcel on the record on these issues or how the Commission's permit would assure compliance with the concerns raised.

- 1) The City supports the gas line extension down the route shown through the existing overhead transmission power corridor from TH 13 to the UP Railroad with the following conditions:
 - a. The original alternative alignment utilizing US Fish and Wildlife (USFWS) property is not feasible. The City will contact the USFWS to confirm that route is not feasible.
 - b. The new pipeline is constructed as close to the center of the City's property (as far from private property) as possible.
 - c. Tree removal is minimized and buffer trees along the City property lines are not removed. All proposed tree removal should be clearly identified and approved by the City and a Tree Removal Permit shall be obtained prior to removal.
 - d. All applicable safety measures are incorporated into the design and maintenance of the proposed pipeline.
 - e. Xcel obtains an easement for the pipeline from the City of Burnsville.
- 2) The City would like Xcel to construct a recreational 10' wide bituminous trail down this corridor from the trail on TH 13 to the City's parking area in Black Dog Park. This will require some trail construction out of this corridor to construct from the City land where the transmission lines are to the park. The City will provide access to these areas for no compensation beyond Xcel's construction of the described recreational trail.
- 3) The existing trail along TH 13 will need to be replaced as the proposed route will impact the existing trail. The applicable right-of-way use, easements, permits for this work will need to be obtained from MnDOT and the City of Burnsville.
- 4) The City will need to review any wetland delineations and proposed wetland impacts associated with the project.
- 5) Neighborhood meeting(s) should be held by Xcel to share the plans and gather community input.
- 6) The proposed plans will need to be reviewed by the Burnsville Parks and Natural Resources Commission (PNRC) because part of the project impacts City park land.
- 7) The Xcel project design team will need to work with City staff early on to establish a trail alignment that will meet the need of both parties.
- 8) Xcel will need to work with the Natural Resources Department staff to develop a landscaping plan that maximizes the use of native plants to restore the corridor after construction.
- 9) The City of Burnsville and Xcel Energy have a signed "Road Access Improvements/ Assessment and Development Agreement" that states once the plant proceeds "with plans to repower the Plant with an approximately 600 MW or greater power plant" that Xcel also will "improve Plant access by extending 12th Avenue through Black Dog Park to the Plant's southerly access". Please provide how many megawatts the plant will be operating at, in total, with the new gas powered burner addition. If it is 600 MW or more, the 12th Avenue extension is required to be built at the same time.
- 10) Based on the documentation submitted to date, there does not appear to be any work proposed within the floodway of the Minnesota River therefore no Conditional Use Permit will be required for the project. A FEMA Elevation Certificate and No Rise Certificate will need to be provided and "as-constructed" plans will need to be submitted to the City. In the event plans change as the project evolves, a floodplain CUP may be required if the project meets or exceeds ordinance thresholds.

Xcel November 23 Response: Xcel indicated that it spoke with Burnsville City staff to review pipeline safety related to construction and operation and maintenance. Further the two entities discussed the evaluated (and rejected) northern route which would have crossed USFWS land. The USFWS had indicated to Xcel that the northern route would not be permittable by their agency and Xcel provided the City a contact at the USFWS in order to confirm that statement.

Regarding the request for the alignment to be located as close as possible to the center of the corridor, Xcel indicated that based on comments from City staff engineers and members of the public, Xcel had been directed to shift the pipeline closer to the transmission lines to increase the distance from homes, and the current proposed alignment reflects that request.

Xcel's November 30 Response: Xcel noted it would provide the City of Burnsville a copy of the SWPPP for review prior to finalizing.

Xcel's December 21 Supplement: Xcel noted that it had been working with the City and had provided responses to each of the items listed by the City.

City of Burnsville January 9 Response: The City submitted comments indicating it was in support of the project and provided details on how each item it had previously noted with Xcel had been resolved.

Staff Conclusion: Staff concludes this issue has been resolved.

Minnesota Pollution Control Agency

The MPCA expressed several concerns regarding the project including:

- 1) Xcel did not address how it would prevent and respond to a release of drilling fluid during the directional drilling process as any release could enter Black Dog Lake from any variety of potential pathways.
- 2) While Xcel noted it would develop and implement a Spill Prevention Control and Containment (SPCC) Plan to manage equipment spill or leaks, the MPCA believes Xcel should also indicate that it will comply with Minnesota's spill reporting and response requirements as many of those requirements are more stringent than the Federal SPCC requirements.
- 3) The Minnesota River is listed on the MPCA list of Impaired Waters and therefore the impairment will dictate additional increased stormwater treatment during construction and require additional increased treatment post construction. Those requirements will be included in the NPDES/SDS Construction Stormwater permit. The MPCA noted that Xcel shall determine that compliance with these additional conditions should be met.

Xcel November 23 Response: Comments from the MPCA were misdirected to the DOC EERA and therefore did not get filed until November 29, 2016, impeding Xcel's ability to respond.

Xcel November 30 Response: Xcel provided additional detail on how it would require a site specific drill fluid release plan from contractors as part of its request for proposal process.

Xcel December 21 Supplement: Xcel provided correspondence with the Minnesota Pollution Control Agency as an attachment to their supplement, which noted the information was received by the Pollution Control Agency.

Staff Conclusion: Staff concludes this issue has been resolved as no further comments have been received by the Pollution Control Agency.

The Lower Minnesota River Watershed District (LMRWD)

The Lower Minnesota River Watershed District filed comments during the initial comment period via the Commission's SpeakUp! webpage. However, SpeakUp! comments (initial and reply) are not filed until after the close of reply period and therefore, Xcel had no ability to respond to their concerns during the open comment period. Staff has requested that this Commission protocol be modified.

The LMRWD noted that they would like a condition placed on the permit that would require Xcel to file their SWPPP with the LMRWD for review and that the LMRWD is notified of any temporary dewatering that requires a Water Appropriation permit from the MNDNR.

Additionally, the LMRWD noted it had questions about the project and the impacts it may have on local water resources that was not outlined in the application, such as:

- 1) What impact the pipeline installation depth would have on the groundwater resources;
- 2) What impact the pipeline installation under Black Dog Lake would have on the lake bed and lake water resources, as well as the groundwater below the lake;
- 3) An assessment of the direct and indirect impacts the project may have on the Black Dog Calcareous fen; and,
- 4) What direct or indirect impacts the pipeline installation may have under the National Wetland Inventory classified wetland.

Xcel's November 23 Response: Xcel noted that it was drafting a memorandum in response to comments and would provide additional detail regarding the project's impact to ground and surface waters.

Xcel's November 30 Response: Xcel filed its memorandum on issues raised by the MNDNR, MNPCA and the LMRWD and it included a more detailed analysis of the potential for impacts to nearby water resources.

Xcel December 21 Supplement: Xcel provided correspondence with the LMRWD as an attachment to their supplement, which indicated the LMRWD would contact Xcel if it had any further concerns.

Staff Conclusion: Staff concludes this issue has been resolved as no further comments have been received by LMRWD.

Public Comments

There were other public comments made at the public meeting and via SpeakUp! that staff does not address here. Those comments were relating to the proximity of the pipeline in relation to homes in the Burnsville corridor, the potential for the removal of trees in the corridor, questions regarding the price of the pipeline, the safety measures required of the pipeline installation, among others.

Staff Conclusion: Staff concludes that Xcel through its supplemental filings have been sufficiently addressed or answered comments from the public.

**STATE OF MINNESOTA
PUBLIC UTILITIES COMMISSION**

In the Matter of the Application for a Partial
Exemption from Pipeline Route Selection
Procedures for the Black Dog Pipeline Project

**FINDINGS OF FACT AND
CONCLUSIONS**

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STATEMENT OF THE ISSUES

Has Northern States Power Company (the Applicant) satisfied the factors set forth in Minn. Stat. § 216G.02 and Minn. Rules Chapter 7852 for a route permit for an 11,300 foot (2.2 mile) long, 16-inch outside-diameter, high pressure (650psig) natural gas pipeline from Northern Natural Gas Company’s Cedar Station (NNG Cedar Station) to Northern States Power Company’s Black Dog Generating Plant in the city of Burnsville, Dakota County, Minnesota?

SUMMARY OF CONCLUSIONS AND RECOMMENDATIONS

The Commission concludes that the Applicant has satisfied the applicable legal requirements and the criteria set forth in Minnesota law for a Route Permit and therefore the Commission grants the Applicant a Route Permit.

FINDINGS OF FACT

I. Applicant

1. Xcel Energy, doing business as Northern States Power Company (NSPM), is the Applicant requesting the route permit for the Black Dog Natural Gas Pipeline Project. The Pipeline Project will be owned and operated by NSPM under the jurisdiction of the U.S. DOT Pipeline and Hazardous Materials Safety Administration (PHMSA), the MN Public Utilities Commission (MPUC), and MN Office of Pipeline Safety (MNOPS).¹

2. Xcel Energy is a public utility that provides electric service to about 1.4 million customers and natural gas service to 500,000 residential, commercial and industrial customers in Minnesota.²

II. Description of the Proposed Project

¹ Application for a Route Permit, August 18, 2016, at 2-1, 8-4.

² Application for a Route Permit, August 18, 2016, at 2-1.

3. The Project is an approximately 11,300 foot (2.2 mile) long natural gas (methane) pipeline with a maximum outside diameter of 16 inches that will supply natural gas to meet the need of the Black Dog Generating Plant.³

4. The Project is located within the cities of Burnsville and Eagan in T27N, R23W, Section 19 and T27N, R24W, Sections 23, 24, 25 in Dakota County, Minnesota. The proposed pipeline will extend north from the NNG Cedar Station in Eagan then crossing under Old Sibley Memorial Highway. The route parallels Old Sibley Memorial Highway within the road right-of-way towards the south and west for approximately 1500 feet before turning west where it then extends approximately 450 feet crossing under to the west side of Minnesota State Highway 13 (Sibley Memorial Highway). The route then turns southwest and parallels the western edge of the southbound lane of Minnesota State Highway 13, again within the road right-of-way, and traverses approximately 3,350 feet (0.64 miles), crossing under Cedar Bridge Avenue and River Hills Drive, before reaching an existing utility corridor. The route then turns to the northwest for approximately 1.0 mile to its terminus at the Black Dog Generating Plant. The route in this section is located on parcels owned by the City of Burnsville or NSP.⁴

5. The Maximum Allowable Operating Pressure (MAOP) for the proposed pipeline will be 740 pounds per square inch gauge (psig) and an operating pressure of 650 psig will be established by NNG. The wall thickness and pipe grade will be established in part by pipe availability with a minimum nominal wall thickness of 0.375 inch. The pipeline will be buried to a depth of at least four feet to the top of the pipe. The planned minimum design capacity of the Project is 55,584 decatherms (Dth) per day. The maximum design requirement of this system is approximately 168,864 Dth per day.⁵

6. The primary purpose of the project to meet the need of supplying natural gas to the Black Dog Generating Plant in order to convert the facility from coal-fired electrical generators to a gas-fired facility which is being permitted separately under the Black Dog Unit 6 Project, docket # E002/GS-15-834. The existing CenterPoint Energy pipeline, which currently supplies natural gas to the Black Dog Generating Plant, is only capable of providing up to 400 psig to the plant, which was adequate for the existing Unit 5 gas-fired turbine, but does not meet the minimum 550 psig needed to meet the needs of the new Unit 6 gas-fired turbine.⁶

7. Xcel Energy also intends on installing associated facilities as part of the Pipeline Project, including valves and flanges, an in-line inspection tool launcher and receiver, cathodic protection, alternating current mitigation, and gas delivery station. Xcel Energy will install a gas delivery station within the existing fence at the NNG Cedar Station. The gas delivery station will contain all required valves, odorization equipment, an in-line inspection tool launcher/receiver, and necessary equipment required for custody transfer of gas. Pipeline markers will be installed at various locations (e.g., road crossings) in accordance with applicable federal and state regulations.⁷

³ Application for a Route Permit, August 18, 2016, at 3-1, 4-1.

⁴ Application for a Route Permit, August 18, 2016, at 3-1, 4-2.

⁵ Application for a Route Permit, August 18, 2016, at 4-1.

⁶ Application for a Route Permit, August 18, 2016, at 3-1.

⁷ Application for a Route Permit, August 18, 2016, at 4-2.

8. The total estimated cost of the Pipeline Project is approximately \$5.0-5.4 million. This range of costs accounts for considerations related to labor, materials, and varying construction conditions. Construction has been targeted to begin in the spring of 2017 and be completed in the fall of 2017.⁸

9. Under Minn. Rule 7852.2600 routes considered but not proposed by the Applicant need to be identified in the application. Xcel outlined the two routes it considered, with one being the proposed route, and the other which was determined to not be feasible due to the crossing of United States Fish and Wildlife lands.⁹

III. Regulatory Permits and Approvals

10. A Certificate of Need is not required for the Project because it is not classified as a large energy facility under Minnesota Statutes § 216B.2421, subd. 2 or a large pipeline under Minnesota Rules 7851.0010 Subp. 13. Therefore the Pipeline Project is exempted from the Certificate of Need requirements.¹⁰

11. Pursuant to Minnesota Statute 216G.02, “A person may not construct a pipeline without a pipeline routing permit issued by the Public Utilities Commission...”. For the purposes of this project, a pipeline is defined as, “...A pipe designed to be operated at a pressure of more than 275 pounds per square inch and to carry gas.”¹¹

12. Minnesota Statute Chapter 216G provides that route permits issued by the Commission “shall supersede and preempt all zoning, building, or land use rules, regulations, or ordinances promulgated by regional, county, local, and special purpose governments.”¹² The route permit proposed for this project notes this preemption.

13. Permits identified by the Applicant as potentially being required for construction and operation of the Project are shown in the table below¹³:

⁸ Application for a Route Permit, August 18, 2016, at 3-1, 3-2.

⁹ Application for a Route Permit, August 18, 2016, at 5.4 and Figure 3.

¹⁰ Application for a Route Permit, August 18, 2016, at 2-1.

¹¹ Minnesota Statute 216G.02, subdivision 1(2).

¹² See Minn. Stat. 216G.02, subdivision 4.

¹³ Xcel Energy Letter – Updated Table 7, December 28, 2016 – Doc. ID. 201612-127637-01

Table 7 - Required Permits or Approvals

Jurisdiction and Permit	Requirement
State	
Minnesota Public Utilities Commission - Pipeline Routing Permit	Required for any natural gas pipeline.
Minnesota DOT - Utility Accommodation Permit	Required if placing utilities on or across a Minnesota trunk highway right-of-way.
MPCA - NPDES/SDS General Stormwater Permit for Construction Activity	Required under the NPDES/SDS General Stormwater Permit for Construction Activity where construction activities will cause more than one acre of ground disturbance.
Minnesota Department of Natural Resources - Public Water Crossing License	Required if a utility is crossing over or under a water body identified in the Public Waters Inventory.
Regional	
Metropolitan Council - Encroachment Agreement	Required to cross beneath the existing sewer interceptor.
Union Pacific Railroad – Crossing Permit	Required to cross beneath UP RR land.
Local	
City of Burnsville - Easement/Right-of-way approval	Required for placement of the pipeline on City owned land and under City road right-of-way.
City of Eagan - Right-of-way permit	Required for placement of the pipeline within City road right-of-way.
Moving Permit (Hauling)	Required whenever legal dimensions and/or axle weights are exceeded per county regulations.
Oversize/Overweight Vehicle Permit	Required on all county highways. May be required to move over-width loads on county, township, or city roads.

14. Additional project details, regarding the route and safety features of the pipeline and route are provided in the Route Permit Application.¹⁴

IV. Procedural History

15. On August 11, 2016, the Applicant filed a notice of intent to file a Route Permit Application under the Partial Exemption Procedures for the Black Dog Natural Gas Pipeline Project.¹⁵

16. On August 18, 2016, the Applicant filed its route permit application pursuant to the partial exemption process in accordance with Minnesota Statute 216G and Minnesota Rule 7852.0600, subpart 1 and 7852.2000.¹⁶

¹⁴ Application for a Route Permit, August 18, 2016, generally.

¹⁵ Xcel Energy's Notification of Intent to File Route Permit Application, August 11, 2016.

¹⁶ Application for Route Permit, August 18, 2016.

17. On August 22, 2016 the Minnesota Public Utilities Commission issued a Notice of Comment Period on application completeness setting initial and reply comment deadlines at September 6, and 13, 2016, respectively.¹⁷

18. On September 6, 2016, the Minnesota Department of Commerce Energy Environmental Review and Analysis (DOC EERA) staff submitted Comments and Recommendations addressing the completeness of Xcel Energy's Application. DOC EERA recommended that the Commission accept Xcel Energy's application and authorize DOC-EERA and PUC staff to process the application pursuant to Minnesota Rules 7852.0600.

19. On September 30, 2016, the Commission issued its Order accepting Xcel Energy's application for a natural gas pipeline routing permit and partial exemption of pipeline route selection procedures, and took the following actions:

- A. Authorized EERA and PUC staff to initiate the review of the application pursuant to Minn. R. 7852.0600;
- B. Required the notices issued pursuant to Minn. R. 7852.0600 be expanded to include properties adjacent to the proposed route; and
- C. Required the notices issued pursuant to Minn. R. 7852.0600 to include information on how to access generic route permit conditions and solicit comments on whether those conditions are sufficient mitigation for any project impacts.¹⁸

20. On October 13, 2016 Xcel Energy mailed Notice of Partial Exemption Application acceptance and copies of the application to properties as required by the September 30 Order and Minn. R. 7852.0600. The notice included a description of the proposed project, a map, and a clear description of the procedures required for providing comment.¹⁹

21. On October 18, 2016 the Commission issued a notice of the public information meeting that included a description of the Project, a map of the route, where to access the route permit template, the date of the public information meeting, and comment period.²⁰

22. Xcel Energy ran a Notice of Public Information Meeting in the Minneapolis Star Tribune newspaper on October 15, 2016 and in the Burnsville ThisWeek newspaper On October 21, 2016.²¹

23. On October 26, 2016, Xcel Energy filed an Update on Anticipated Pipeline Alignment within Proposed Route for the Black Dog Natural Gas Pipeline Project including

¹⁷ MN PUC Notice for Comment – Application Completeness, August 22, 2016 – Doc. ID 20168-124346-01.

¹⁸ MN PUC Order, September 30, 2017 – Doc. ID 20169-125289-01

¹⁹ Xcel Energy Compliance Filing – Notice, November 14, 2016 – Doc. ID 201611-126497-01.

²⁰ MN PUC Notice of Public Information Meeting, October 18, 2016 – Doc. ID. 201610-125798-01 and 201610-125798-02.

²¹ Xcel Energy Compliance Filing – Notice, November 14, 2016 – Doc. ID 201611-126497-01.

updated figures to those included in the route permit application to show two proposed alignment adjustments.²²

24. Pursuant to Minnesota Rule 7852.0600, Subpart 4, the Commission and DOC EERA staff held a public information meeting on November 2, 2016, in Burnsville, Minnesota, to discuss the Project.²³

25. Twelve members of the public attended the meeting. The comment period to submit written and/or email comments was open until November 16, 2016 with the reply comment period open until November 30, 2016. Comments received during the meeting are included in Section V Public and Agency Participation below.²⁴

26. Initial and reply comments were received from Xcel Energy, four state agencies, the Metropolitan Council, the City of Burnsville, the local watershed district, and several members of the public.

27. On November 16, 2016 Xcel Energy filed additional information on the anticipated pipeline alignment and construction impacts to address questions raised at the November 2 Public Information Meeting regarding the alignment adjustments identified in the October 26, 2016 filing. Public comments are described in Section V Public and Agency Participation below.²⁵

28. On November 23, 2016 Xcel Energy filed Draft Proposed Findings of Fact and Responses to Public Comments. The responses addressed comments raised at the public information meeting and in letters filed to the docket during the comment period.²⁶

29. On November 30, 2016, in response to comments, Xcel Energy filed *Additional Information Regarding Potential to Impact Water Resources* which included a report addressing several comments (see Section V below) regarding potential impacts to nearby fens, streams, wetlands and Black Dog Lake.²⁷

30. On November 30, 2016 EERA filed comments which identified several outstanding issues that should be addressed prior to the Commission's granting of a partial exemption and recommending the Commission deny the partial exemption without prejudice.²⁸

31. On December 8, 2016 Xcel Energy filed a letter waiving the 90 day decision deadline, which would have ended on December 29, 2016, to allow adequate time for the

²² Xcel Energy Update on Anticipated Pipeline Alignment within Proposed Route for the Black Dog Natural Gas Pipeline Project, October 26, 2016 – Doc. ID. 201610-126025-01.

²³ MN PUC Notice of Public Information Meeting, October 18, 2016 – Doc. ID. 201610-125798-01 and 201610-125798-02.

²⁴ Id.

²⁵ Xcel Energy Comments – Info on Burnsville Corridor, November 16, 2016 – Doc. ID. 201611-126588-01.

²⁶ Xcel Energy Comments – Reply Comments FOF and Reply Comments, November 30, 2016 – Doc. ID. 201611-126756-01.

²⁷ Xcel Energy Reply Comments – Update on Water Resources, November 30, 2016 – Doc. ID 201611-126941-01.

²⁸ DOC EERA Comments, November 30, 2016 – Doc. ID. 201611-126879-01.

Company to ensure that the record is complete.²⁹

32. On December 21, 2016 Xcel Energy filed supplemental information (December 21 Supplement) for the Black Dog Natural Gas Pipeline Project which responded to items identified as outstanding in the November 30, 2016 Department of Commerce EERA filing.³⁰

33. On December 22, 2016 Commission staff issued a Notice of Comment Period for the Project regarding the December 21 Supplement, with the initial comment period closing on January 9, 2017 and the reply comment period closing on January 16, 2017.³¹

34. The Project was included in the Commission's January 5, 2017 meeting agenda as a decision item regarding what action, if any, the Commission should take in regard to the partial exemption application, Xcel Energy's waiver of the 90-day statutory deadline, and the December 21 Supplement. The Commission chose to take no action.³²

V. Public and Agency Participation

A. Public Comments at the Public Meeting

35. Twelve (12) members of the public attended the Public Information Meeting on November 2, 2016. Members of the public raised questions regarding:

- a. the alignment of the proposed pipeline in the segment located on land owned by the City of Burnsville which contains the existing electric transmission lines;
- b. potential future, existing and past community trails in the vicinity of the project area;
- c. issues related to why the pipeline would not be placed down the center of the corridor;
- d. the proximity of the pipeline to private properties;
- e. the amount of tree clearing that would be required;
- f. whether Xcel Energy could move the alignment after a route permit had been issued;
- g. pipeline specifications, safety and corrosion protection of the pipe;
- h. timing of construction activities; and,
- i. potential impacts to groundwater and nearby calcareous fens.

36. Xcel Energy representatives, Commission staff and the DOC EERA staff responded to questions during the meeting related to process, pipeline specifics, construction timing, and safety. Xcel indicated that they would provide additional information in the docket regarding specifics of the alignment within parcels owned by the City of Burnsville and impacts to groundwater and the nearby fens.

²⁹ Xcel Energy Letter – Waiver of Decision Deadline for the Black Dog Natural Gas Pipeline Project, December 8, 2016 – Doc. ID. 201612-127133-01.

³⁰ Xcel Energy Other Supplemental Information for the Black Dog Natural Gas Pipeline Project, December 21, 2016 – Doc. ID. 201612-127491-01.

³¹ MN PUC Notice of Comment Period on Supplement, December 22, 2016 – Doc. ID. 201612-127532-01 and 201612-127532-02.

³² Minutes are pending.

37. On November 16, 2016, Xcel Energy filed responses to questions posed at the meeting. Xcel provided additional detail regarding a more refined proposed alignment, existing trails within the Burnsville corridor and resulting vegetation management. Xcel noted it proposed to place the alignment at least 20 feet from private property lines and provided further details on the planned tree clearing along the Burnsville corridor.³³

B. Public Comments during the Comment Period

38. Laura Hedlund submitted comments and questions on the Commission's Speak Up! website. She asked what the cost of the pipeline was and what were the ecological consequences of leaving pipes in the ground, in reference to a CenterPoint pipeline currently serving the Black Dog Generating Plant that is not a part of this permit proceeding³⁴

39. Gilman Dedrick submitted comments on the Commission's Speak Up! website which requested that this permit be required to obtain a permit from the Minnesota Pollution Control Agency and that during construction no additional pollutants be allowed to enter the already impaired Minnesota River (including mercury and PAHs) and no violation of the Clean Water Act should be tolerated.³⁵

40. There were no written public comments submitted during the comment period on the supplement.³⁶

C. Agency Comments

Lower Minnesota River Watershed District (LMRWD)

41. Loomis and Della Young, representing the Lower Minnesota River Watershed District (LMRWD), attended the November 2, 2016 public information meeting and posed questions during the comment period. Those comments requested:

- a. Xcel provide more detail on the constructed depth of the pipeline and any interaction with groundwater relative to the pipeline's profile.
- b. Information on how Black Dog Lake interacts with groundwater and where the pipeline, proposed to be installed under Black Dog Lake, is relative to the lake and groundwater.
- c. An assessment of the direct and indirect impacts of directional drilling of the pipeline under National Wetland Inventory (NWI) wetlands may have on wetlands.
- d. The Commission require the following permit conditions:

³³ Xcel Energy Comments: Info on Burnsville Corridor, November 16, 2016 – Doc. ID. 201611-126588-01.

³⁴ MN PUC Public Comments (Via SpeakUp), December 1, 2016 – Doc. ID. 201612-126997-01.

³⁵ MN PUC Public Comments (Via SpeakUp), December 1, 2016 – Doc. ID. 201612-126997-01.

³⁶ MN PUC Public Comments (Via SpeakUp), January 23, 2017 – Doc. ID. 20171-128360-01.

- i. Require Xcel provide the LMRWD an opportunity to review and comment on the project's Storm Water Pollution Prevention Plan and any required dewatering permits.
- ii. Require Xcel to submit its Storm Water Pollution Prevention Plan to the LMRWD following submittal to the MPCA.
- iii. Require Xcel to notify the LMRWD of any temporary construction dewatering that requires a MN DNR Water Appropriation permit.³⁷

42. The LMRWD noted that it did not see any reason why the partial exemption should not be granted, assuming the proposed conditions are adopted by the Commission.³⁸

43. Xcel Energy provided responses to the water resource questions in its Additional Information Regarding Potential to Impact Water Resources memo. The document outlined the depth to groundwater at six soil boring locations along the project corridor, provided more detail on the bedrock and ground conditions beneath Black Dog Lake, outlined why the project would not impact calcareous fens, and additional information and statements that the project would not impact NWI wetlands.³⁹

44. Xcel Energy indicated its support for the Storm Water Pollution Prevention Plan condition, which will include dewatering provisions, and plans to provide a draft document to the LMRWD as soon as internal review is complete.^{40,41}

45. Xcel provided correspondence between itself and the LMRWD in which the LMRWD indicated it would review Xcel's December 23, 2016 Supplemental Filing and contact Xcel if the LMRWD had any further questions or concerns about the project.

Minnesota Department of Natural Resources

46. The DNR's November 16, 2016 letter indicated the following:
- a. It concurred with Xcel Energy's assessment of the projects impact to rare features and the finding that there are no known occurrences of rare species within the project footprint and there will be no direct impacts to any identified DNR Native Plant Community;
 - b. The rare Blanding's turtle is not known to occur within one-mile radius of the project footprint, but the turtle could be encountered on site during construction and therefore, the DNR has provided Xcel Energy with information that includes recommendations to minimize disturbance to this species, including:
 - i. construction crews checking for turtles prior to backfilling and, if applicable,
 - ii. using wildlife friendly erosion control measures.

³⁷ MN PUC Public Comments (Via SpeakUp), December 1, 2016 – Doc. ID. 201612-126997-01.

³⁸ MN PUC Public Comments (Via SpeakUp), December 1, 2016 – Doc. ID. 201612-126997-01.

³⁹ Xcel Energy – Reply Comments, November 30, 2016 – Doc. ID. 201611-126941-01.

⁴⁰ Xcel Energy –Reply Comments, November 23, 2016 – Doc. ID. 201611-126756-01.

⁴¹ Xcel Energy – Reply Comments, November 30, 2016 – Doc. ID. 201611-126941-01.

- c. If dewatering is necessary, impacts to the Blanding's turtles and calcareous fens will need to be further addressed.
- d. The DNR recommends using native seed mixes for restoration.
- e. The DNR restated the applicant's route permit which noted any vegetation maintenance of the right-of-way will comply with wildlife timing windows if specified by the natural resource agencies and the DNR recommends vegetation maintenance of the right-of-way occur outside of the avian nesting season (generally mid-May through July).
- f. Any work that has the potential to adversely impact a calcareous fen must have a DNR approved fen management plan prior to conducting the work.
- g. The Black Dog Gas Pipeline project has the potential to impact the designated Black Dog Calcareous fen.
- h. The DNR understands that Xcel Energy is submitting a memorandum explaining how the project is not expected to adversely impact the fen, and once received, the DNR would determine whether a fen management plan is necessary.

47. Xcel Energy responded to these concerns in its report Additional Information Regarding Potential to Impact Water Resources filed to the docket on November 30. Based on planned Project construction methods and analysis of nearby surface and ground waters, fen hydrology, and the distance from the Project footprint to the nearest fen, Xcel stated that no impacts to the fens are anticipated as a result of this Project.⁴²

48. Following review of the report and soil boring data the DNR submitted a letter to the docket on December 13 indicating that a fen management plan will not be needed and noting the methods that will be implemented to protect Blanding's turtles.⁴³

49. On January 9, 2017 the DNR submitted a letter to the project docket noting that the fen and Blanding's turtle concerns had been addressed and also noted that DNR and Xcel Energy staff had discussed scheduling vegetation maintenance activities outside of songbird nesting season, and that contingent on adherence to the dates specified, the DNR concerns were resolved.⁴⁴

City of Burnsville

50. The City of Burnsville filed a letter on November 15, 2016 which expressed support of the proposed project as long as a number of conditions were met. Those requirements included:
- a. The City supported the gas line extension down the route shown through the existing overhead transmission power corridor from TH 13 to the UP Railroad with the following conditions:

⁴² Xcel Energy – Reply Comments, November 30, 2016 – Doc. ID. 201611-126941-01.

⁴³ MN DNR – Response to Water Resources Update from Xcel, December 13, 2016 – Doc. ID. 201612-127258-01.

⁴⁴ MN DNR – Comments, January 9, 2017 – Doc. ID 20171-127927-01.

- i. The original alternative alignment utilizing US Fish and Wildlife (USFWS) property is not feasible. The City will contact the USFWS to confirm that route is not feasible.
 - ii. The new pipeline is constructed as close to the center of the City's property (as far from private property) as possible.
 - iii. Tree removal is minimized and buffer trees along the City property lines are not removed. All proposed tree removal should be clearly identified and approved by the City and a Tree Removal Permit shall be obtained prior to removal.
 - iv. All applicable safety measures are incorporated into the design and maintenance of the proposed pipeline.
 - v. Xcel obtains an easement for the pipeline from the City of Burnsville.
- b. The City would like Xcel to construct a recreational 10' wide bituminous trail down this corridor from the trail on TH 13 to the City's parking area in Black Dog Park. This will require some trail construction out of this corridor to construct from the City land where the transmission lines are to the park. The City will provide access to these areas for no compensation beyond Xcel's construction of the described recreational trail.
- c. The existing trail along TH 13 will need to be replaced as the proposed route will impact the existing trail. The applicable right-of-way use, easements, permits for this work will need to be obtained from MnDOT and the City of Burnsville.
- d. The City will need to review any wetland delineations and proposed wetland impacts associated with the project.
- e. Neighborhood meeting(s) should be held by Xcel to share the plans and gather community input.
- f. The proposed plans will need to be reviewed by the Burnsville Parks and Natural Resources Commission (PNRC) because part of the project impacts City park land.
- g. The Xcel project design team will need to work with City staff early on to establish a trail alignment that will meet the needs of both parties.
- h. Xcel will need to work with the Natural Resources Department staff to develop a landscaping plan that maximizes the use of native plants to restore the corridor after construction.
- i. The City of Burnsville and Xcel Energy have a signed "Road Access Improvements/ Assessment and Development Agreement" that states once the plant proceeds "with plans to repower the Plant with an approximately 600 MW or greater power plant" that Xcel also will "improve Plant access by extending 12th Avenue through Black Dog Park to the Plant's southerly access". Please provide how many megawatts the plant will be operating at, in total, with the new gas powered burner addition. If it is 600 MW or more, the 12th Avenue extension is required to be built at the same time.
- j. Based on the documentation submitted to date, there does not appear to be any work proposed within the floodway of the Minnesota River therefore no Conditional Use Permit will be required for the project. A FEMA Elevation Certificate and No Rise Certificate will need to be provided and "as-constructed" plans will need to be submitted to the City. In the event plans change as the

project evolves, a floodplain CUP may be required if the project meets or exceeds ordinance thresholds.⁴⁵

51. Xcel included a summary of how each item was addressed or how it would be addressed as the project moved forward in Xcel Energy's December 21, 2016 Supplemental Information filing.⁴⁶ Most requests made by the city would be managed through the city-utility construction easement agreement.

52. On January 9, 2017 the City of Burnsville filed a letter to the project docket providing support for the project and including a summary of how each of the previously listed conditions have been met by Xcel Energy.⁴⁷

Minnesota Department of Transportation

53. On November 15, 2016 the DOT submitted a comment letter noting three concerns with the proposed pipeline alignment as identified in the October 26, 2016 Xcel Energy filing. The specific concerns identified were:

- Placement of the pipeline longitudinally within road right-of-way;
- Placement of the pipeline on the opposite side of the highway from an existing NNG pipeline; and
- Crossing Highway 13 at a skewed angle rather than at a right angle, which is typically required.⁴⁸

54. In an effort to ensure that MnDOT will be able to permit the proposed alignment Xcel Energy has submitted an Application for Utility Accommodation in Road Right-of-way and an exception request to the DOT for review.⁴⁹

55. On December 14, 2016 Ann Driver, Utility Permits Unit Supervisor, sent an email to Xcel Energy stating that while MnDOT will not issue an accommodation permit until the Commission has approved the route, based on the information provided MnDOT believes that the exception letter and permit application provided will be permissible. A copy of the email was included in Xcel Energy's December 21, 2016 Supplemental Information filing.⁵⁰

Minnesota Pollution Control Agency

56. The MPCA submitted comments in a letter which posted to the docket on November 29, 2016 concerning several items:

⁴⁵ City of Burnsville – Public Comments, November 16, 2016 – Doc. ID. 201611-126582-01.

⁴⁶ Xcel Energy – Supplemental Information for the Black Dog Pipeline Project, January 17, 2017 – Doc. ID. 201612-127491-01.

⁴⁷ City of Burnsville – Public Comments, January 9, 2017 – Doc. ID. 20171-127932-01.

⁴⁸ Minnesota Dept. of Transportation – Comments, November 15, 2016 – Doc. ID. 201611-126555-01.

⁴⁹ Xcel Energy – Supplemental Information for the Black Dog Pipeline Project, January 17, 2017 – Doc. ID. 201612-127491-01

⁵⁰ Xcel Energy – Supplemental Information for the Black Dog Pipeline Project, January 17, 2017 – Doc. ID. 201612-127491-01

- a. The MPCA noted that the application did not specifically address how Xcel Energy would respond to a release of drilling fluid into Black Dog Lake;
- b. The application noted Xcel Energy would develop and implement a Storm Water Pollution Prevention Plan, but did not indicate it would comply with Minnesota-state level spill reporting and response requirements;
- c. The MPCA noted that the Minnesota River is an impaired water, and as such has additional increased stormwater treatment requirements.⁵¹

57. Xcel included additional information regarding construction methods to prevent a drilling mud release and development of a contingency spill response plan in its November 30 water resources report.⁵²

58. Xcel Energy will comply with all state reporting requirements and Xcel Energy's Environmental Services Department has protocols for addressing any spills which are at least as stringent as the State's requirements.⁵³

59. Xcel Energy will comply with all required stormwater treatment requirements.⁵⁴

Metropolitan Council

60. The Metropolitan Council filed comments on September 26, 2016. The comments indicated that the site plan showed the pipeline crossing Council Interceptor 7030 and that an encroachment agreement would be required from the agency.⁵⁵

61. On February 1, 2017 Xcel filed a letter to the docket which indicated that Xcel had provided the Metropolitan Council with preliminary site plans to which the Metropolitan Council noted an encroachment agreement was not needed. Xcel attached a letter from the agency confirming this finding.⁵⁶

Department of Commerce Energy Environmental Review and Analysis (DOC EERA)

62. The DOC EERA filed comments on November 30, 2016 which summarized the record to date, state agency and public comments, and provided an evaluation whether the Minnesota Rule criteria had been met. Due to the outstanding issues raised by others, the DOC EERA recommended the Commission not grant a partial exemption for the project.⁵⁷

⁵¹ Minnesota Pollution Control Agency – Comments, November 29, 2016 – Doc. ID. 2016111-126835-01.

⁵² Xcel Energy – Reply Comments, November 30, 2016 – Doc. ID. 201611-126941-01.

⁵³ Xcel Energy – Supplemental Information for the Black Dog Pipeline Project, January 17, 2017 – Doc. ID. 201612-127491-01.

⁵⁴ Xcel Energy – Supplemental Information for the Black Dog Pipeline Project, January 17, 2017 – Doc. ID. 201612-127491-01.

⁵⁵ Metropolitan Council – Letter, September 26, 2017 – Doc. ID. 20169-125158-01.

⁵⁶ Xcel Energy – Letter Metropolitan Council Encroachment Agreement, February 1, 2017 – Doc. ID. 20172-128743-01

⁵⁷ DOC EERA Comments, November 30, 2016 – Doc. ID. 201611-126879-01.

63. On January 13, 2017, after review of Xcel Energy's Supplemental Information and additional public comments, the DOC EERA filed updated Comments and Recommendations. The EERA Staff noted that they believe the *Supplemental Information for the Black Dog Natural Gas Pipeline Project*, including the *Additional Information Regarding Potential to Impact Water Resources*, addressed the outstanding issues identified in its previous letter, dated November 30, 2016.⁵⁸

64. EERA staff therefore recommended that the Commission grant the Partial Exemption from Pipeline Route Selection Procedures and issue a Pipeline Routing Permit to Xcel Energy for the Black Dog Natural Gas Pipeline Project, after considering whether the following conditions (and special conditions) should be incorporated into the Pipeline Route Permit:

a. The permitted route and alignment depicted in the Pipeline Route Permit should reflect the revisions made in Xcel Energy's November 16, 2016 filing.

b. As a special condition, the Pipeline Route Permit should specify that the Stormwater Pollution Prevention Plan (SWPPP) clearly state that the construction stormwater may not be discharged to any fen and that if dewatering is determined to be necessary the permittee shall consult with the DNR to determine if a Fen Management Plan is required.

c. As a special condition, the Pipeline Route Permit should specify the use of wildlife sensitive erosion control materials and that all construction contractors be instructed on the potential for turtles to become trapped in trenches and precautions taken to ensure against entrapment before backfilling any trenches.

d. As a special condition, the Pipeline Route Permit should specify that all vegetation management within the right-of-way occur outside of the songbird nesting season (mid-May through July).

e. As a special condition, the Pipeline Route Permit should specify that the permittee obtain, from the City of Burnsville a Tree Removal Permit prior to the clearing of any trees.

f. As a special condition, the Pipeline Route Permit should specify that the permittee obtain an easement for the pipeline from the City of Burnsville.

65. On January 16, 2017, Xcel Energy filed a comment confirming its agreement to the conditions (and special conditions) listed in the DOC EERA's January 13, 2017 filing.⁵⁹

VI. Considerations in Designating Pipeline Route Permit

66. The routing of the proposed pipeline project is governed by Minn. Stat. Chapter

⁵⁸ DOC EERA Comments and Recommendation, January 13, 2017 – Doc. ID. 20171-128069-01.

⁵⁹ Xcel Energy Response to DOC EERA Comments, January 16, 2017 – Doc. ID. 20171-128139-01.

216G (pipeline statute) and Minn. Rule Chapter 7852.

A. Land Requirements

67. Private and city owned lands permanent rights-of-way will be acquired in the form of permanent easements. Xcel Energy will seek to acquire easements approximately 40 feet in width for ongoing operation and maintenance of the pipeline.⁶⁰

68. In the electric transmission line corridor on the City of Burnsville property there are currently transmission line easements which will overlap with the new pipeline easement. Existing easements do not currently allow for adding a natural gas pipeline, therefore Xcel Energy will work with the city to acquire a new easement for the pipeline or modify the existing easements to add the pipeline.⁶¹

69. Permanent associated aboveground facilities will be installed at the beginning and end of the proposed pipeline within existing facilities at the Black Dog Generating Plant and the NNG Cedar Station. Assuming a 40 foot wide right-of-way for the entire length of the pipeline results in a maximum of 10.37 acres of new permanent right-of-way for the proposed Project.⁶²

70. The Project will also require a wider temporary right-of-way, or construction corridor, during construction of the pipeline in some locations to allow for equipment access and laying out pipe. This temporary right-of-way may extend up to 100 feet wide along the existing electric transmission line corridor on the land owned by the City Burnsville to facilitate safe construction. Where space allows an approximately 40 foot-wide temporary right-of-way will be sought along roadways, however, along Old Sibley Memorial Highway the distance between the road and the edge of road right-of-way is not adequate to accommodate the full 40 feet and a narrower temporary right-of-way will be necessary. All temporary space for construction within road right of way will be approved under the accommodation permits rather than through temporary easements. Over the length of the project, the temporary construction right-of-way will impact approximately 14.92 acres.⁶³

71. The depth of the trench will generally be five to six feet deep. Allowing for a nominal 16-inch-outside diameter pipe, the top of the pipe will typically be approximately four feet below the ground surface. The bottom of the pipe trench will be approximately three feet wide and the top of the trench approximately five feet wide. In some locations the pipe will be installed by using directional drilling, thereby reducing the estimated total trench length by approximately 3,450 feet. There will be approximately 7,850 feet of trench excavation, amounting to approximately 3,000 cubic yards of soil excavated from the proposed pipe trench.⁶⁴

⁶⁰ Application for a Route Permit, August 18, 2016, at 6-1.

⁶¹ Application for a Route Permit, August 18, 2016, at 6-1.

⁶² Application for a Route Permit, August 18, 2016, at 6-1.

⁶³ Application for a Route Permit, August 18, 2016, at 6-1, 6-2.

⁶⁴ Application for a Route Permit, August 18, 2016, at 6-2.

B. Depth of Cover

72. Xcel Energy proposes to bury the pipe to four feet below the surface in accordance with U.S. DOT pipeline standards (49 CFR, Part 192.327).⁶⁵

73. Of the approximately 11,300 feet of the pipeline right-of-way, 3,960 feet are collocated with existing high voltage electric power line rights-of-way amounting to approximately 36 percent of the lands crossed. Approximately 5,200 feet are co-located with existing road right-of-way. The purpose of co-locating the pipeline with existing rights-of-way is to reduce the impact to current and future land uses and to minimize human and environmental impacts.⁶⁶

C. Agricultural Mitigation Plan

74. The project will not impact cultivated agricultural land, therefore an agricultural mitigation plan is not required (Minnesota Statute 216E.10, subdivision 3(b)).⁶⁷

D. Pipeline Safety

75. Xcel Energy will own and operate the pipeline under the jurisdiction of the U.S. DOT Pipeline and Hazardous Materials Safety Administration (PHMSA), the MN Public Utilities Commission (MPUC), and MN Office of Pipeline Safety (MNOPS). The minimum Federal Safety Standards for Gas Lines are contained in Title 49 of the Code of Federal Regulations (49 CFR Part 192). Subpart L (Operations) specifies minimum requirements for the utility's operations and maintenance plan. Under these rules, Xcel Energy is required to have the following:

- operation and maintenance plan;
- procedures for continuing surveillance of its facilities to determine and take appropriate action concerning changes in class location, failures, leakage history, corrosion, substantial changes in cathodic protection requirements, and other unusual operation and maintenance conditions;
- damage prevention programs;
- emergency plans; and
- procedures for investigation of failures.⁶⁸

76. All personnel involved with operation and maintenance responsibilities for the pipeline facilities will be certified under an Operator Qualification Plan and will participate in a Drug and Alcohol Program in compliance with the U.S. DOT regulations. Xcel Energy has a Gas Operations and Maintenance plan which details all aspects of operating distribution systems and gas pipelines filed with the MNOPS upon completion. A brief description of the operations activities required for the Project is described further in the Application.⁶⁹

⁶⁵ Application for a Route Permit, August 18, 2016, at 6-2.

⁶⁶ Application for a Route Permit, August 18, 2016, at 6-3.

⁶⁷ Application for a Route Permit, August 18, 2016 at 9-9.

⁶⁸ Application for a Route Permit, August 18, 2016, at 8-4.

⁶⁹ Application for a Route Permit, August 18, 2016, at 8-4.

VII. Construction Activities, Testing, and Restoration

77. Xcel Energy will conduct a centerline survey to accurately depict the location and layout of the pipeline, followed by staking of the pipeline centerline. This survey will also identify the extent of temporary right-of way or construction corridor. Prior to the commencement of any survey activities, all affected landowners will be contacted to obtain any necessary survey permission. In addition, Xcel Energy will comply with Minnesota Rules 7852.0600 regarding public notice and distribution of application materials.⁷⁰

78. Prior to any ground-disturbing activities, notification will be provided to the Minnesota Gopher State One-Call as required to ensure all utilities are properly identified. All other safety procedures will be adhered to as required by the Minnesota Office of Pipeline Safety, Xcel Energy safety procedures, and worker safety regulations.⁷¹

79. Clearing and grading will commence along the right-of-way after the centerline survey and staking has been completed. Clearing of the right-of-way will take place in accordance with all permit conditions, as well as agreed upon landowner considerations.⁷²

80. The trench will be excavated by track-mounted backhoes, or other similar equipment to a depth that provides sufficient cover over the pipeline after backfilling as required by U.S. DOT specifications. Due to the size of the pipe (16.00-inch-outside-diameter), the trench will be approximately five to six feet deep (to allow for about four feet of cover) and about five feet wide at the top of the trench.⁷³

81. The pipeline will cross Minnesota Highway 13 and the Union Pacific Railroad. These features will be crossed by directionally drilling beneath them which requires the excavation of a pit on each side of the feature, the placement of drilling equipment adjacent to the pit, then directionally drilling a hole under the feature at least as large as the diameter of the pipe. The size of the pits will vary depending on the topography at the location of each. Pit sizes can range from an area of 10 x 20 feet up to an area 25 x 50 feet in some locations. All pits will be located in-line with the pipeline within the right-of-way. Once the hole is drilled, a prefabricated pipe section will be pulled through the borehole. For long crossings, sections may be welded onto the pipe string just before being pulled through the borehole. There will be little or no disruption to traffic at road or railroad crossings that are directionally drilled.⁷⁴

82. Directional drilling methods involve using a steerable drill pilot head and guiding the boring to pre-determined depths to achieve required clearances and minimize contact with water-bearing soil layers. A pressurized bentonite slurry will be used which will help seal the

⁷⁰ Application for a Route Permit, August 18, 2016, at 7-1.

⁷¹ Application for a Route Permit, August 18, 2016, at 7-1.

⁷² Application for a Route Permit, August 18, 2016, at 7-1.

⁷³ Application for a Route Permit, August 18, 2016, at 7-1.

⁷⁴ Application for a Route Permit, August 18, 2016, at 7-1, 7-2.

boring walls and prevent caving in or water infiltration from any wet layers that the boring travels.⁷⁵

83. During periods of excessive precipitation the excavated trench may collect rain water and may need to be dewatered. Heavily silt-laden water will not be discharged from the trench into wetlands or waterbodies. To the extent practicable, discharges will be directed to well-vegetated upland areas. If discharge activities need to be located off the right-of-way, landowner consent will be obtained and locations will be chosen that will minimize off-right-of-way impacts and impacts to sensitive resources. In accordance with agency permits and approvals obtained for the Project, water will be discharged into an energy dissipating device if necessary (e.g., straw bale structure, filter bag, etc.).⁷⁶

84. After pipe welding activity is completed, each weld will be inspected by qualified welding inspectors to determine the weld integrity. U.S. DOT regulations require nondestructive testing of all welds in areas such as inside railroad or public road rights-of-way and in certain other areas.⁷⁷

85. The U.S. DOT requires buried pipelines to have an acceptable protective coating. The pipe is typically coated with a mill-applied fusion-bonded epoxy prior to delivery in order to protect against corrosion. Directionally drilled pipe will be dual-coated and construction field welds will be coated in the field with an approved material that is compatible with the mill-applied coating. The entire coating will be inspected and any defects in the coating will be field-repaired. After this coating is inspected, the pipe will be ready to be lowered into the trench.⁷⁸

86. The pipeline will be lowered into the trench after the trench is excavated and free of rocks and other debris that could damage the pipe or protective coating. Stormwater dewatering may be necessary to inspect the bottom of the trench in areas where water has accumulated. Trench dewatering activities will be performed in accordance with erosion control plans developed pursuant to the Minnesota Pollution Control Agency (MPCA) National Pollutant Discharge Elimination System (NPDES) Construction Storm Water Discharge Permit.⁷⁹

87. After backfilling, the pipeline will be hydrostatically tested to ensure the system is capable of withstanding the operating pressure for which it was designed. Test water will be pumped into each test section and pressurized to design test pressure. Test pressure and duration will be consistent with the requirements of Title 49 CFR Part 192. If leaks are found, they will be repaired and the section of pipe retested until the required specifications are met. Activities associated with hydrostatic testing will be performed in accordance with applicable federal, state, and local regulations.⁸⁰

⁷⁵ Xcel Energy – Other, Supplemental Information for the Black Dog Natural Gas Pipeline Project, December 21, 2016, Doc. ID. 201612-127491-01.

⁷⁶ Application for a Route Permit, August 18, 2016, at 7-1.

⁷⁷ Application for a Route Permit, August 18, 2016, at 7-2.

⁷⁸ Application for a Route Permit, August 18, 2016, at 7-2, 7-3.

⁷⁹ Application for a Route Permit, August 18, 2016, at 7-3.

⁸⁰ Application for a Route Permit, August 18, 2016, at 7-3.

88. Clean-up and restoration of the right-of-way is the final phase of pipeline construction and typically begins immediately after backfilling, or as soon as weather and soil conditions allow. The right-of-way will be cleaned up by the removal and disposal of construction debris and surplus materials. Construction debris will be taken to a licensed disposal facility. Restoration efforts may involve soil decompaction, smoothing with disc harrows or other equipment, stabilization using erosion control devices, and revegetation activities. Preconstruction contours will be reestablished to the extent possible. Xcel Energy will work with the DOT and the City of Burnsville Natural Resources Department and Parks Department to develop a restoration plan.⁸¹

89. Xcel Energy may use both herbicides and/or mechanical methods to control the spread of noxious weeds. All herbicides used by Xcel Energy are approved by the U.S. Environmental Protection Agency and the Minnesota Department of Agriculture. These herbicides are applied by commercial pesticide applicators that are licensed by the Minnesota Department of Agriculture. If, during post-construction monitoring of the restored right-of-way, a higher density and cover of noxious weeds on the right-of-way is noted when compared to adjacent off right-of-way areas, Xcel Energy will obtain landowner permission and work to mitigate noxious weed concerns.⁸²

VIII. Pipeline Routing

90. Minnesota Rules, Chapter 7852.0100, Subpart 31, defines “route” as the proposed location of a pipeline between two end points. A route may have a variable width from the minimum required for the pipeline right-of-way up to 1.25 miles. In developing the proposed pipeline route, Xcel Energy evaluated the statutory and rule criteria (Minnesota Statutes Chapter 216G and Minnesota Rules Chapter 7852).⁸³

IX. Standard and Criteria for Partial Exemption

91. In deciding whether to grant or deny a partial exemption from pipeline route selection procedures, the Commission must determine that the pipeline project will not have a significant impact on humans or the environment. The Commission must consider the impact of the pipeline project on the criteria set forth in Minnesota Rules 7852.0700, subpart 3.⁸⁴

A. Effects on Human Settlement (Displacement, Air Quality, Noise, Population and Employment, Public Safety, Existing and Future Land Uses)

92. Minn. R. 7852.1900, subp. 3(A), requires that when reviewing a pipeline route application, the Commission shall consider the impact of the pipeline on “human settlement, existence and density of populated areas, existing and planned future land use, and management plans.”⁸⁵

⁸¹ Application for a Route Permit, August 18, 2016, at 7-3.

⁸² Application for a Route Permit, August 18, 2016, at 7-3.

⁸³ Application for a Route Permit, August 18, 2016, at 5-4.

⁸⁴ Application for a Route Permit, August 18, 2016, at 1-1.

⁸⁵ Minn. Rule 7852.1900, subp. 3(A).

Displacement, Existing and Future Land Use

93. Xcel will co-locate the pipeline with existing road right-of-way to reduce the impact to current and future land uses and to minimize human and environmental impacts.⁸⁶

94. No displacement of residences or buildings is anticipated to occur as a result of the pipeline construction.⁸⁷

Air Quality

95. Potential air quality effects related to pipeline construction facilities include fugitive dust emissions during construction, and exhaust emissions from construction equipment. Dust will be controlled through implementation of a stormwater pollution prevention plan (SWPPP) which will include control measures for exposed soils. These potential effects are considered to be relatively minor and of short duration. The pipeline by itself will not have any long-term impacts on air quality.⁸⁸

Noise

96. When in service, the proposed pipeline will not generate noise during normal operations. The Project will include new compression facilities so there will not be exhaust or other noise sources that would be associated with compressor stations.⁸⁹

97. Noise will be generated by the construction of the Project. Construction noise will be predominantly sources originating from diesel engine driven construction equipment and boring rigs. Potential noise impacts will be mitigated by proper muffling equipment fitted to construction equipment and restricting activities if necessary.⁹⁰

Population and Employment

98. Economic benefits to the local economy will be realized during construction resulting from the influx of Project labor workforce. These benefits include material expenditures, workforce lodging, fuel sales, grocery sales and restaurant expenditures. Additional local benefits include easement payments, permit fees and property tax revenues.⁹¹

99. The Project may result in short-term impacts to human settlement during pipeline construction activities. Impacts to existing roads would be minimized by installing the pipeline underneath these features through the use of the directionally drilling. These crossing methods will minimize traffic interruptions and prevent disturbance to the road and rail surfaces. If

⁸⁶ Application for a Route Permit, August 18, 2016, at 6-3.

⁸⁷ Application for a Route Permit, August 18, 2016, at Figure 6.

⁸⁸ Application for a Route Permit, August 18, 2016, at 9-7.

⁸⁹ Application for a Route Permit, August 18, 2016, at 9-6.

⁹⁰ Application for a Route Permit, August 18, 2016, at 9-6, 9-7.

⁹¹ Application for a Route Permit, August 18, 2017, at 9-8.

directional drilling is not successful, roads may be crossed by open-cut construction methods. In the event that a road is open-cut, traffic disruptions will be minimized if possible by maintaining one open lane of traffic except when the pipeline is being trenched and backfilled. Transportation of equipment and materials to the right-of-way could also result in minimal short-term impacts to traffic in the area. Xcel Energy will obtain all necessary permits for road right-of-way crossings.⁹²

Public Safety

100. Safety is a prime consideration for employees and contractors who will be operating and maintaining the pipeline system, and also for the general public. Safety code compliance is achieved through adherence to 49 CFR Part 192 as defined by the U.S. DOT. General safety procedures include:

- strict adherence to an operations and maintenance plan;
- the pipeline MAOP is assured through the use of over pressure protection equipment;
- company signs, with emergency numbers, are posted along the pipeline;
- ignition sources are minimized;
- smoking will be prohibited in and around any structure or area containing gas facilities;
- “no smoking” signs are posted where appropriate; and
- above ground facilities will be painted or coated to prevent atmospheric corrosion.⁹³

101. Xcel Energy will implement proper safeguards, as described in sections 7 and 8 of its permit application, during construction and operation to avoid potential impacts public health and safety. The Project will be designed in compliance with local, state, federal and Xcel Energy standards for, crossing utilities and buildings, strength of materials, and right-of-way widths. Xcel Energy will ensure that construction and contract crews comply with local, state, and company standards for installation of facilities and standard construction practices. Xcel Energy established and industry safety procedures will also be followed after the gas transmission line is installed. This will include clear signage during all construction activities.⁹⁴

102. With implementation of safeguards and protective measures, the Project is not anticipated to result in adverse or significant impacts on public health and safety.⁹⁵

B. Natural Environment

103. Minn. R. 7852.1900, subp. 3(B), requires that when reviewing a pipeline route permit application, the Commission shall consider the impact of the pipeline on “the natural environment, public lands, and designated lands, including but not limited to natural areas, wildlife habitat, water, and recreational lands.”⁹⁶

104. Similarly, Minn. R. 7852.1900, subp. 3(G), requires that when reviewing a

⁹² Application for a Route Permit, August 18, 2016, at 9-8.

⁹³ Application for a Route Permit, August 18, 2016, at 9-8.

⁹⁴ Application for a Route Permit, August 18, 2016, at 9-8.

⁹⁵ Application for a Route Permit, August 18, 2016, at 9-8, 9-9.

⁹⁶ Minn. Rule 7852.1900, subp. 3(B).

pipeline route permit application, the Commission shall consider the impact of the pipeline on “natural resources and features.”⁹⁷

Geology

105. The proposed pipeline overlies an area where the surficial geology is dominated by till and mixed outwash deposited by glaciation during the Pleistocene epoch (Hobbs, Aronow and Patterson 1990). The terrain has minimum relief owing to the degree of urban development that typifies the area. Elevation along the proposed pipeline ranges from 700 - 880 feet above mean sea level. No special construction techniques are expected to be necessary since the trenching for pipeline installation will be within the unconsolidated glacial drift. The limited shallow excavation of the trench will not have a significant effect on geology.⁹⁸

Soils

106. Potential temporary impacts to soils resulting from construction of the Project could include soil erosion, soil compaction, loss of soil productivity associated with mixing of topsoil, introduction of rock into the topsoil, and poor revegetation following construction. In order to protect topsoil resources topsoil segregation procedures will be used as required in areas specified by applicable regulations, permit conditions or landowner requests. An erosion control plan will be developed pursuant to the MPCA NPDES Construction Storm Water Discharge Permit. Temporary erosion controls will include slope breakers, mulching, and the use of silt fence. Following construction, application of seed, fertilizer and mulch will commence in accordance with any existing permit requirements or landowner agreements. Inspector(s) will be used to ensure contractor compliance with these procedures.⁹⁹

Water Resources

107. The Project is located within the Lower Minnesota River watershed within the Minnesota River Basin. A watershed is defined as the entire physical area or basin drained by a distinct stream or riverine system, physically separated from other watersheds by ridgetop boundaries. No surface waters will be impacted by the Project, including those listed on the MN DNR’s Public Waters Inventory (PWI). The Project will directionally drill under Black Dog Lake, which is a PWI basin. Xcel Energy will coordinate with MN DNR to obtain a Public Water Crossing License for crossing this water feature.¹⁰⁰

108. Wetland areas were initially identified using National Wetlands Inventory (NWI) data to assess wetlands that may be present within the proposed pipeline route. Merjent, Inc., on behalf of Xcel Energy, also conducted a wetland delineation within the anticipated alignment. Two additional palustrine emergent (PEM) wetlands were identified, both in the electric transmission line right-of-way. The U.S. Army Corps of Engineers (COE) and the City of Burnsville regulate construction activities in wetlands. Xcel Energy will submit the wetland

⁹⁷ Minn. Rule 7852.1900, subp. 3(G).

⁹⁸ Application for a Route Permit, August 18, 2016, at 9-1.

⁹⁹ Application for a Route Permit, August 18, 2016, at 9-2.

¹⁰⁰ Application for a Route Permit, August 18, 2016, at 9-2.

delineation report to COE and Burnsville and coordinate impacts and potential mitigation as appropriate.¹⁰¹

109. Construction of the proposed pipeline is not expected to affect overall groundwater recharge or discharge in the area. Shallow groundwater is not a major source of drinking water in the area. The pipeline trench will be approximately five to six feet deep and will not intersect any drinking water aquifers. The proposed Project will not require the installation or abandonment of any water wells or connection to or changes in any public water supply. A single abandoned and sealed well was found within 200 feet of the proposed pipeline alignment using the County Well Index database that is maintained by the Minnesota Departments of Health and Natural Resources. (MDH, 2016). The abandoned well is located near the western edge of the property at 11008 27th Ave South and was sealed in December 2013.¹⁰²

110. A designated trout stream is located near the project. Construction of the proposed pipeline will not have any direct impacts on the stream. The Project will not impact the nearby trout stream due primarily to the distance from the project site and because Xcel will not be appropriating water for the project.¹⁰³

111. Accidental equipment spills or leaks of fuel or oils could contaminate soil and groundwater. Contaminated soils could continue to leach pollutants to the groundwater for an extended period after the spill or leak. A Spill Prevention Containment and Countermeasure Plan (SPCC Plan) will be developed and implemented during construction to manage equipment spills or leaks should they occur.¹⁰⁴

112. The 100-year floodplain is defined as the land that is predicted to flood during a 100-year storm, which has a 1% chance of occurring in any given year. The proposed pipeline route crosses a 100-year floodplain associated with the Minnesota River and Black Dog Lake. However, construction of the pipeline will not impact the floodplain as this portion of the proposed alignment will be installed via directional drilling. The City of Burnsville has confirmed that if above ground work is not proposed within the floodplain, a Conditional Use Permit will not be required. The City will require a FEMA Elevation Certificate and No Rise Certificate and “as-constructed” plans be submitted post-construction.¹⁰⁵

Biological Resources

113. Vegetation clearing and tree cutting will occur along the pipeline construction right-of-way. Permanent impacts to vegetation associated with construction of the proposed pipeline will primarily include the clearing and maintenance of trees along the permanent right-of-way. Impacts to vegetation adjacent to the right-of-way will be minimized by restricting

¹⁰¹ Application for a Route Permit, August 18, 2016, at 9-2.

¹⁰² Application for a Route Permit, August 18, 2016, at 9-3.

¹⁰³ Xcel Energy Supplemental Information for the Black Dog Natural Gas Pipeline Project, December 21, 2016, page 16.

¹⁰⁴ Application for a Route Permit, August 18, 2016, at 9-3.

¹⁰⁵ Application for a Route Permit, August 18, 2016, at 9-3.

construction activities to only the approved work areas. After construction is complete vegetation will be reestablished by applying seed, mulch, and fertilizer mixtures specified by permit conditions, land managing agencies, and/or landowners. During operation of the pipeline, the permanent right-of-way will be maintained by mechanically clearing trees and shrubs about once every three to five years to maintain accessibility of the pipeline and to accommodate inspection and potential maintenance of the pipeline.¹⁰⁶

114. The proposed route is characterized by urban and suburban development containing both wooded and open areas which provide habitat for a variety of wildlife. Wildlife typically found in the area are those species which have adapted to urban and suburban development and include white-tailed deer, coyotes, fox, raccoons, beaver, opossum, woodchucks, squirrels, muskrats, and a variety of owl and other raptor species, including osprey, red-shouldered hawks, and bald eagles.¹⁰⁷

115. Construction of the proposed facilities will likely result in temporary impacts to wildlife habitat in the immediate vicinity of the construction areas. Vegetation clearing will result in reduced cover, nesting and foraging habitat for some wildlife. Wildlife-friendly erosion control matting will be used in any areas where erosion control matting is needed to stabilize soils. The proposed construction will temporarily displace mobile avian, mammal, amphibian and reptile species that inhabit the Project area. The displaced species will likely colonize in nearby areas or reestablish their original habitats after construction activities are complete and the construction site is restored.¹⁰⁸

116. Long-term effects to wildlife are expected to be limited to occasional displacement or impact to individual animals due to future periodic clearing of the permanent right-of-way to maintain the vegetative cover in an herbaceous state. Vegetation maintenance of the right-of-way will comply with wildlife timing windows as specified in the MNDNR November 16, 2016 comment letter and post-permit input on the development of a vegetative restoration plan. Construction and maintenance of the proposed pipeline will not significantly alter the character of the landscape in the Project area. Consequently, effects to wildlife will likely be short-term and the habitat disturbed by project-related activities is expected to generally revert back to preconstruction conditions. If soil conditions and topographic features allow, restoration efforts may include the introduction of pollinator plants. Xcel Energy will work with the City of Burnsville Natural Resources Department and Parks Department to the applicability of such a plan.¹⁰⁹

117. Xcel Energy reviewed the most recent MN DNR Natural Heritage Information System (NHIS) database to obtain the locations of rare and unique natural resources within the Project area. Queries to the NHIS database often display species that either do not have a legal status or are of special concern. Species or communities that do not have a status, or are

¹⁰⁶ Application for a Route Permit, August 18, 2016, at 9-3.

¹⁰⁷ Application for a Route Permit, August 18, 2016, at 9-3.

¹⁰⁸ Application for a Route Permit, August 18, 2016, at 9-4.

¹⁰⁹ Application for a Route Permit, August 18, 2016, at 9-3, 9-4

classified as special concern, have no legal protection in Minnesota. Only potential impacts on species with legal protection (threatened and endangered) are discussed below.¹¹⁰

118. Given the developed nature of the Project area, there will not be impacts to rare or significant tree communities (e.g., old growth forest, federal/state-managed timber, etc.).¹¹¹

119. Two federally-endangered mussel species - the Higgins eye pearlymussel (*Lampsilis higginsii*) and the snuffbox mussel (*Epioblasma triquetra*) - may be found in waters in the vicinity of the Project. The federally-threatened northern long-eared bat (*Myotis septentrionalis*) and the federally-threatened prairie bush-clover (*Lespedeza leptostachya*) are also known to occur in Dakota County and may be present in the Project area.¹¹²

120. The Higgins eye pearlymussel is a freshwater mussel of larger rivers where it is typically found in deep water with moderate currents. The animals bury themselves in sand and gravel river bottoms with just the edge of their partially opened shells exposed; the species feeds by siphoning the water for microorganisms. In Minnesota, the Higgins eye is found in the Mississippi and St. Croix Rivers, and is believed to be extirpated from the Minnesota River. Project activities will not take place within the Minnesota River, and Black Dog Lake will be crossed via directional drilling. As such, it is reasonable to conclude that the Project will have no effect on the Higgins eye pearlymussel.¹¹³

121. The snuffbox mussel is a small freshwater mussel primarily found in small- to medium-sized creeks in areas with a swift current, although it has also been found in larger rivers and Lake Erie. Adults often burrow deep in sand, gravel or cobble substrates, except when they are spawning or the females are attempting to attract host fish. They are suspension feeders, typically feeding on algae, bacteria, detritus, microscopic animals, and dissolved organic material. Project activities will not take place within the Minnesota River, and Black Dog Lake will be crossed via directional drilling. As such, it is reasonable to conclude that the Project will have no effect on the snuffbox mussel.¹¹⁴

122. The range of the northern long-eared bat (NLEB) stretches across much of the eastern and Midwestern United States. During summer, northern long-eared bats roost singly or in colonies under bark, in cavities, or in crevices of both live and dead trees. Males and non-reproductive females may also roost in cooler places such as caves and mines. This species is thought to be opportunistic in selecting roosts, utilizing tree species based on the tree's ability to retain bark or provide cavities or crevices. It has also been found, rarely, roosting in structures such as barns and sheds. In winter, northern long-eared bats utilize caves and mines as hibernacula. The NLEB was listed as a federally threatened species in May, 2015, with an interim 4(d) rule; effective February 16, 2016, the USFWS finalized the 4(d) rule which restricts tree clearing within 0.25 miles of a hibernacula and within 150 feet of a known maternal roost tree during the months of June and July. A 4(d) rule may only be applied to species listed as

¹¹⁰ Application for a Route Permit, August 18, 2016, at 9-3.

¹¹¹ Application for a Route Permit, August 18, 2016, at 9-4.

¹¹² Application for a Route Permit, August 18, 2016, at 9-4.

¹¹³ Application for a Route Permit, August 18, 2016, at 9-4.

¹¹⁴ Application for a Route Permit, August 18, 2016, at 9-4.

threatened, and is a tool periodically utilized by the USFWS to allow for flexibility in Endangered Species Act (ESA) implementation. The rule allows the USFWS to tailor take restrictions to those that make the most sense for protecting and managing at-risk species, and directs the USFWS to issue regulations considered “necessary and advisable to provide for the conservation of threatened species.”¹¹⁵

123. The NHIS review confirmed the absence of known hibernacula within 0.25 miles and the absence of known roost trees within 150 feet from the Project. Scheduling tree clearing activities to take place between November 1 and March 31 (e.g., when bats are hibernating and not present on the landscape) greatly reduces impacts to NLEB. However, if tree clearing activities will take place after March 31, 2016, Xcel would rely on the programmatic Biological Opinion developed by USFWS on January 5, 2016 to fulfill the Section 7 consultation for this species. Therefore, we believe the Project may affect, but incidental take is not prohibited for the northern long-eared bat.¹¹⁶

124. Prairie bush clover is found only in the tallgrass prairie region of four Midwestern states. It is a member of the bean family and a Midwestern "endemic" – known only from the tallgrass prairie region of the upper Mississippi River Valley. The Project area is located in a suburban housing development. Therefore, we believe the Project will have no effect on the prairie bush clover.¹¹⁷

125. A query of the Natural Heritage Inventory System database was conducted to determine if any state-listed species or other significant natural features are known to occur within an approximate one-mile radius of the proposed Project. No Element Occurrences (EOs) intersect the Project workspace. Xcel Energy has submitted a request for concurrence of a finding of No Impacts to Protected Species to the MN DNR; On November 16, 2016 the Endangered Species Review Coordinator responded with concurrence of the requested finding.¹¹⁸

126. Four element occurrences (EOs) for calcareous fens are found within one mile of the Route. Calcareous fens are distinctive wetlands characterized by a non-acidic peat substrate. They are dependent upon a steady supply of cold, oxygen-poor water rich in magnesium and calcium bicarbonates. They are legally protected in Minnesota due to their rarity and their ability to support a number of rare plant species. Calcareous fens are designated as “outstanding resource value waters” in water quality regulations administered by the Minnesota Pollution Control Agency (MPCA) (see Minnesota Rules part 7050.0180) and they are given special protection through Minnesota Rules part 8420.1010 - ~~8244~~20.1060. The Wetlands Conservation Act, authorized by Minnesota Statutes 103G.223, states that calcareous fens may not be filled, drained, or otherwise degraded, wholly or partially, by any activity, except as provided for in a management plan approved by the Commissioner of the MN DNR. Many of the unique characteristics of calcareous fens result from the upwelling of groundwater through calcareous substrates. Because of their dependence on delicate groundwater hydrology, calcareous fens can

¹¹⁵ Application for a Route Permit, August 18, 2016, at 9-5.

¹¹⁶ Application for a Route Permit, August 18, 2016, at 9-5.

¹¹⁷ Application for a Route Permit, August 18, 2016, at 9-5.

¹¹⁸ Application for a Route Permit, August 18, 2016, at 9-5. and MN DNR Letter, November 16, 2016.

be indirectly affected by activities away from the fen. The Project does not intersect the fens, therefore will have no direct impact on the fens. An analysis of groundwater resources and planned construction practices indicates that construction of the project will not result in indirect impacts to the fens.¹¹⁹

127. Three additional EOs for natural communities are within one mile of the Project: a southern wet ash swamp, a seepage meadow/carr, and black ash seepage swamp. The Project does not intersect these EOs, and as such, will have no impact on these ecological resources.¹²⁰

128. Three fish species have one EO each within one mile of the Project. The paddlefish (*Polyodon spathula*), the black buffalo (*Ictiobus niger*), and the pugnose shiner (*Notropis anogenus*) are state-listed threatened species. Paddlefish are found in the open waters of large rivers and river lakes (such as Lake Pepin and Lake St. Croix), oxbow lakes, and backwaters. They have been associated with areas of deep water and low current velocities (Zigler et al. 2003). Paddlefish feed primarily on zooplankton (Becker 1983), and require free-flowing rivers with gravel bars that are inundated in spring floods for spawning. The black buffalo is found both fast- and slow-flowing portions of rivers, as well as in sloughs and impoundments, and (Hatch et al. in preparation). Little is known regarding the life history of the species in Minnesota, but the black buffalo is thought to have similar habits to smallmouth and bigmouth buffaloes. The black buffalo however, tends to occupy deeper water and areas of faster moving currents than the latter two species. The black buffalo's diet includes mollusks, insects, crayfish, duckweed, and algae, and typically spawns from April to mid-June (Becker 1983). The pugnose shiner is found primarily in clear, glacial lakes and streams with an abundance of submerged vegetation. They live in habitats with slow velocity currents over sand, mud, or gravel substrates, and are commonly found in pondweed (*Potamogeton* spp.), water milfoil (*Myriophyllum* spp.), elodea (*Elodea* spp.), eelgrass (*Verbasum blattaria*), coontail (*Ceratophyllum* spp.), bulrush (*Scirpus* spp.), muskgrass (*Chara* spp.), and filamentous algae. The presence of rooted aquatic plants seems more important to this species than substrate type (Hatch et al. in preparation). No in-water work will be performed for the Project, and Black Dog Lake will be crossed via directional drilling. Therefore, we believe the Project will have no impact on these fish species.¹²¹

129. Records for five state-threatened plant species were identified within one mile of the Project: one record for sterile sedge (*Carex sterilis*), one record for hair-like beak rush (*Rhynchospora capillacea*), one record for whorled nutrush (*Scleria verticillata*), three records for edible valerian (*Valeriana edulis* var. *ciliate*), and one record for tuberous Indian-plantain (*Arnoglossum plantagineum*). Sterile sedge, hair-like beak rush, whorled nutrush, and edible valerian are associated with and found primarily in calcareous fens. The Project will not impact calcareous fens; therefore, impacts to these species are not expected. Tuberous Indian-plantain is largely restricted to native, moist prairies in the southern portion of Minnesota, although a few populations are found on dry soils in bluff prairies. These habitats are often found on old railroad

¹¹⁹ Xcel Energy Supplemental Information for the Black Dog Natural Gas Pipeline Project, December 21, 2016.

¹²⁰ Application for a Route Permit, August 18, 2016, at 9-6.

¹²¹ Application for a Route Permit, August 18, 2016, at 9-6.

rights-of-way. The Project will not impact prairie habitat, and railroad rights-of-way will be crossed via the directional drill associated with Black Dog Lake.¹²²

130. Since data collected on mussel species from 2008-2015 has not been added to the Rare Features Database, Xcel Energy also reviewed records from the Minnesota Statewide Mussel Survey. Multiple EOs for a variety of state-listed threatened and endangered mussels are found within one mile of the Project. No in-water work will be performed for the Project, and Black Dog Lake will be crossed via directional drilling. As such the Project will have no impact on these mussel species.¹²³

C. Lands of Historical, Archaeological and Cultural Significance

131. Minn. R. 7852.1900, subp. 3(C), states that when reviewing an application for a Route Permit, the Commission shall consider the impact of the pipeline to “lands of historical, archaeological, and cultural significance.”¹²⁴

132. On behalf of Xcel Energy, Merjent, Inc. conducted a Phase Ia Background Cultural Resource Literature Review of the Project area as well as a one mile surrounding buffer in June of 2016 at the Minnesota State Historic Preservation Office (“SHPO”). This area is defined as the Area of Potential Effect (APE) for the Project. The goal of the review was to identify recorded cultural resource sites and assess the potential for unrecorded sites within the APE. The standard for considering a cultural property as significant is whether it meets the criteria for listing on the National Register of Historic Places (NRHP). The initial criterion for such listing is an age of 50 or more years. Beyond age, a property must retain integrity and be associated with significant historic trends, historic persons, building styles and craftsmanship, or the property must have the potential to provide significant information about the past.¹²⁵

133. Two (2) previously recorded archaeological sites and one (1) previously inventoried historic structure within or proximal to the proposed Project route. Both archaeological sites are documented as human burial sites and are protected under Minnesota Statute 307.08. However, these sites are located external to the proposed Project route and will not be impacted by proposed construction activities. The inventoried structure is located south of the Project and will not be impacted by proposed construction activities. Based on the findings it was concluded that the Project will not affect properties listed on, or eligible for listing on, the National Register of Historic Places, and no known or suspected archaeological properties in the area will be affected by the Project. The assessment further recommended that no cultural resources field inventory be required. A letter report summarizing the findings has been submitted to the Minnesota State Historic Preservation Office (SHPO) requesting comments regarding the nature of future cultural resource investigations.¹²⁶

¹²² Application for a Route Permit, August 18, 2016, at 9-6.

¹²³ Application for a Route Permit, August 18, 2016, 9-4, 9-5, 9-6.

¹²⁴ Minn. Rule 7852.1900, subp. 3(C).

¹²⁵ Application for a Route Permit, August 18, 2016, at 9-8.

¹²⁶ Application for a Route Permit, August 18, 2016, at 9-8.

134. In the event that buried cultural deposits or human remains are encountered, work in the immediate vicinity of the find will be stopped until a professional archaeologist can evaluate the find and recommend treatment in consultation with the Minnesota State Historic Preservation Office.¹²⁷

D. Land Use Economies

135. Minn. Rule 7852.1900, subp. 3(D), states that when reviewing an application for a Route Permit, the Commission shall consider the impact of the pipeline upon “economies within the route, including agricultural, commercial or industrial, forestry, recreational, and mining operations.”¹²⁸

136. The Project is not located in agricultural, forestry, or mining operations.¹²⁹

137. The Project traverses land that has undergone significant development, including commercial facilities as well as rights-of-way for road, pipeline, and electrical transmission lines. The portion of the proposed alignment within the City of Eagan is situated on land zoned as Business Park and Light Industrial. The portion of the proposed pipeline route within the City of Burnsville is situated on lands zoned as Neighborhood, General Business and Park. Land within the permanent and temporary rights-of way, and workspace within the proposed aboveground facilities will be impacted during construction of the Project. The impact will be short-term, as the construction period, including restoration, is not expected to exceed 6-7 months. The primary permanent impact of construction will be the removal of trees and shrubs from the construction work area and permanent right-of-way. Xcel Energy will develop a Vegetation Management Plan with input from the DNR, the DOT, and the cities of Burnsville and Eagan to address impacts to vegetation and potential restoration plantings. As referenced in Section 7.12, the permanent right-of-way will be maintained in an open condition consisting of primarily herbaceous or shrub communities to facilitate maintenance and inspection activities.¹³⁰

138. There is currently a bike trail paralleling Minnesota State Highway 13 which will be impacted during construction. Xcel Energy has an agreement with the City of Burnsville to replace the trail after construction is complete. The Project will also impact the City of Burnsville’s Tennisioux Park, which overlaps the existing Xcel Energy single-circuit 115 kV and a double-circuit 345/345 kV electric transmission line corridor. The park does not currently have any amenities; however the City of Burnsville has requested that Xcel Energy construct a new 10 foot wide paved bike trail which would eventually connect the existing trail along Highway 13 to Black Dog Park. Xcel Energy will work with the City to facilitate construction of the trail. The proposed pipeline will also cross land managed as part of the Minnesota Valley National Wildlife Refuge; however, no impacts are expected because Xcel Energy will directionally drill underneath Refuge managed lands.¹³¹

¹²⁷ Application for a Route Permit, August 18, 2016, at 9-7, 9-8.

¹²⁸ Minn. Rule 7852.1900, subp. 3(D)

¹²⁹ Application for a Route Permit, August 18, 2016, at 9-9.

¹³⁰ Application for a Route Permit, August 18, 2016, at 9-7.

¹³¹ Application for a Route Permit, August 18, 2016, at 9-7.

E. Pipeline Cost and Accessibility

139. Minn. Rule 7852.1900, subp. 3(E), states that when reviewing an application for a Route Permit, the Commission shall consider “pipeline cost and accessibility.”¹³²

140. The total estimated cost of the Pipeline Project is approximately \$5.0-5.4 million. This range of costs accounts for considerations related to labor, materials, and varying construction conditions.¹³³

F. Use of Existing Rights-of-Way and Right-of-Way Sharing or Paralleling

141. Minn. R. 7852.1900, subp. 3(F), states that when reviewing an application for a Route Permit, the Commission shall consider the “use of existing rights-of-way and right-of-way sharing or paralleling.”¹³⁴

142. Potential routes are evaluated in an attempt to reduce the creation of new impacts by locating pipeline adjacent to existing rights-of-way. Paralleling or sharing existing utility transportation rights-of-way is a method for minimizing impacts to humans and the environment, which is a standard for route selection (Minnesota Rules 7852.1900 Subp. 2).¹³⁵

143. Xcel Energy initially considered two possible routes between the NNG Cedar Station and the Black Dog Generating Plant: a northern route which went generally northwest from the NNG Cedar station until crossing under the railroad tracks then paralleling the tracks and the Met Council sanitary sewer pipeline to the southwest, and a southern route which generally followed Old Sibley Memorial Highway and Highway 13 before turning northwest at the transmission line corridor toward the Black Dog Generating Plant.¹³⁶

144. The northern route would have crossed lands owned by the Minnesota Department of Natural Resources (DNR) and the US Fish and Wildlife Service (USFWS) before reaching the railroad at which point it would be located on land owned by NSP Minnesota and managed as part of the Minnesota Valley National Wildlife Refuge. However, after meeting with USFWS staff it was determined that it would not be possible to acquire the necessary rights to cross National Wildlife Refuge land to reach NSPM land. The USFWS does not consider a new pipeline to be an appropriate use within the National Wildlife Refuge system and therefore would not be able to approve a new right-of-way crossing. Therefore, this route was eliminated from consideration. In addition to the issue with crossing USFWS land, the northern route had the disadvantages of crossing a significant amount of wetland area, involving above ground work within the 100 year floodplain and having a significant segment of the total length which did not parallel existing utility or transportation rights-of-way.¹³⁷

¹³² Minn. Rule 7852.1900.

¹³³ Application for a Route Permit, August 18, 2016, at 3-1, 3-2.

¹³⁴ Minn. Rule 7852.1900, subp. 3(F).

¹³⁵ Application for a Route Permit, August 18, 2016, at 5-4.

¹³⁶ Application for a Route Permit, August 18, 2016, at 5-4.

¹³⁷ Application for a Route Permit, August 18, 2016, at 5-4.

145. Based on evaluation of existing infrastructure, discussions with the Cities of Eagan and Burnsville, the MN DNR, the USFWS and the Minnesota Department of Transportation as well as feedback from landowners Xcel Energy developed the proposed route and anticipated alignment. The anticipated alignment minimizes impacts to private properties by placing the pipeline primarily within road right-of-way or on land owned by the City of Burnsville and NSP. Approximately 88% of this proposed alignment parallels existing rights-of-way. Xcel Energy requested a variable route width, which accommodates this alignment while allowing for minor changes based on detailed engineering, geotechnical analysis and survey results for existing infrastructure.¹³⁸

G. Impact on natural resources and features.

146. Minn. R. 7852.1900, subp. 3(H), states that when reviewing an application for a Route Permit, the Commission shall consider the “extent to which human or environmental effects are subject to mitigation by regulatory control and by application of the permit conditions contained in part 7852.3400 for pipeline right-of-way preparation, construction, cleanup, and restoration practices.”¹³⁹

147. Unavoidable impacts are those impacts that cannot be avoided if the Project is constructed. Construction of the proposed pipeline will have minimal unavoidable impacts. The Project will parallel existing road ROW for a majority of the proposed route. As discussed above, paralleling existing road ROW will avoid the direct impacts associated with constructing new transmission ROW.

148. Xcel Energy has analyzed the potential environmental effects from the proposed Project. It has been determined that no significant unavoidable impacts to protected species, water resources or other natural resources will result from construction of the proposed pipeline line.

149. The proposed Project route allows for the construction of the pipeline without impacts to homeowners. All wetlands and water bodies will be protected during construction. Upon the issuance of the Route Permit, Xcel Energy will continue to coordinate with state or federal agencies to ensure the Project complies with all applicable laws and regulations and minimizes impacts to the natural environment to the best extent practicable.¹⁴⁰

150. Irreversible and irretrievable resource commitments are related to the use of nonrenewable resources and the effects that the use of these resources have on future generations. Irreversible commitments of resources are those that result from the use or destruction of a specific resource that cannot be replaced within a reasonable time frame. Irretrievable resource commitments are those that result from the loss in value of a resource that cannot be restored after the action. The Project will require minimal commitments of resources that are irreversible and irretrievable.¹⁴¹

¹³⁸ Application for a Route Permit, August 18, 2016, at 5-4.

¹³⁹ Minn. Rule 7852.1900, subp. 3(H).

¹⁴⁰ Application for a Route Permit, August 18, 2016, at 9-10.

¹⁴¹ Application for a Route Permit, August 18, 2016, at 9-10.

151. Anticipated commitments expected are those related to construction activities and may include aggregate resources, steel, and hydrocarbon fuel. Vehicles employed during construction would be deployed on site and would travel to and from the Project. Other resources would be used in pipeline construction and other construction activities.¹⁴²

H. Extent Human or Environmental Effects are Subject to Mitigation by Regulatory Control or Permit Conditions

152. Minn. R. 7852.1900, subp. 3(I), states that when reviewing an application for a Route Permit, the Commission shall consider the “cumulative potential effects of related or anticipated future pipeline construction.”¹⁴³

153. Potential negative human and environmental impacts, which could result from the Project, are mitigated by many factors. Several levels of federal, state, county and local governmental authorities have jurisdiction over the Project. Environmental jurisdictions include an overall Project permit and partial exemption determination from the MPUC; and permits and approvals by independent agencies charged with responsibility for management of environmental resources, discharge limitations, and restrictions on land use modification. A listing of each environmental permit required for the Project is found in Section 10.0 of the route permit application. Engineering regulatory requirements include U.S. DOT Pipeline and Hazardous Materials Safety Administration (PHMSA) material specifications, pipeline construction and operational standards, and building permit standards. U.S. DOT PHMSA construction and operation requirements are discussed in Sections 4, 6, and 7 of this application. Additional protection is provided by on-site third party inspectors and agency oversight.¹⁴⁴

I. Cumulative Potential Effects of Related or Anticipated Future Pipeline Construction

154. Minn. R. 7852.1900, subp. 3(J), states that when reviewing an application for a Route Permit, the Commission shall consider the “relevant applicable policies, rules, and regulations of other state and federal agencies, and local government land use laws, including ordinances adopted under Minnesota Statutes section 299J.05, relating to the location, design, construction, or operation of the proposed pipeline and associated facilities.”¹⁴⁵

155. Construction of the pipeline is not expected to have any direct effect on the cultural, historic or aesthetic values of the area. No significant changes in the vegetation, wildlife, wetlands, water quality, geology or soils are expected to result from the Project. The area presently has an existing natural gas pipeline, high voltage transmission lines, and municipal

¹⁴² Application for a Route Permit, August 18, 2016, at 9-10.

¹⁴³ Minn. Rule 7852.1900, subp. 3(I).

¹⁴⁴ Application for a Route Permit, August 18, 2016, at 9-10.

¹⁴⁵ Minn. Rule 7852.1900, subp. 3(J).

facilities. Installation of the pipeline will not significantly change land use patterns. Consequentially, the cumulative potential effect of the Project is expected to be minimal.¹⁴⁶

J. Other Local, State, or Federal Rules and Regulations

156. Minn. R. 7852.1900, subp. 3(J), states that when reviewing an application for a Route Permit, the Commission shall consider the “relevant applicable policies, rules, and regulations of other state and federal agencies, and local government land use laws, including ordinances adopted under Minnesota Statutes section 299J.05, relating to the location, design, construction, or operation of the proposed pipeline and associated facilities.”¹⁴⁷

X. Conclusions

1. Any of the foregoing Findings of Fact more properly designated as Conclusions of Law are hereby adopted as such.
2. The Commission has jurisdiction over the Application pursuant to Minn. Stat. § 216G.02.
3. The Project qualifies for review under the partial exemption process of Minnesota Statute 216G.02 and Minnesota Rule 7852.0600.
4. The Applicant, the DOC EERA, and the Commission have complied with the procedural requirements for a partial exemption from pipeline route selection procedures as set forth in Minnesota Rule 7852.0600, including publication of application notice in a newspaper in the county where the pipeline will be located, and mailing the notice and application to required parties, including affected landowners, and holding a public informational meeting and comment period.
5. The Commission has considered all the pertinent standards and criteria in accordance with Minnesota Rule 7852.0700 relative to its determination for a partial exemption from pipeline route selection procedures and issuance of a pipeline routing permit.
6. The Commission concludes that a route permit for the new pipeline should be conditioned in a number of respects, including imposition of those conditions specified in Minnesota Rules 7852.3600 and conditions agreed to by the Applicant.

¹⁴⁶ Application for a Route Permit, August 18, 2016, at 9-9.

¹⁴⁷ Minn. R. 7852.1900, Subp. 3(J)

Based on the Findings of Fact and Conclusions contained herein and the entire record of this proceeding, the Minnesota Public Utilities Commission hereby makes the following:

ORDER

1. The Minnesota Public Utilities Commission hereby grants Xcel Energy a partial exemption from the pipeline route selection procedures of Minnesota Rule, Chapter 7852.
2. The Minnesota Public Utilities Commission hereby issues a pipeline routing permit to Xcel Energy for construction of approximately 11,300 feet of natural gas pipeline and associated facilities along the route described in Section II. The pipeline routing permit is attached hereto with a map showing the approved route, including the description of the route with a variable width as shown in the map, and the inclusion of conditions and any special conditions.

STATE OF MINNESOTA PUBLIC UTILITIES COMMISSION

ROUTE PERMIT

FOR CONSTRUCTION OF A LARGE NATURAL GAS PIPELINE

AND ASSOCIATED FACILITIES

IN

DAKOTA COUNTY

ISSUED TO

XCEL ENERGY

PUC DOCKET NO. G002/GP-16-656

In accordance with the requirements of Minnesota Statutes Chapter 216G and Minnesota Rules Chapter 7852 this route permit is hereby issued to:

XCEL ENERGY

Xcel Energy is authorized by this route permit to construct approximately 11,300 foot (2.2 mile) long natural gas (methane) pipeline with a maximum outside diameter of 16 inches that will supply natural gas to meet the need of the Black Dog Generating Plant.

The pipeline and associated facilities shall be built within the route identified in this permit and as portrayed on the official route maps, and in compliance with the conditions specified in this permit.

Approved and adopted this ____ day of March 2017.

BY ORDER OF THE COMMISSION

Daniel P. Wolf,
Executive Secretary

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Official Site Maps

ATTACHMENTS

Complaint Procedures for Permitted Energy Facilities

Compliance Filing Procedures for Permitted Energy Facilities

1.0 ROUTE PERMIT

The Minnesota Public Utilities Commission (Commission) hereby issues this route permit to Xcel Energy (Permittee) pursuant to Minnesota Statutes Chapter 216G and Minnesota Rules Chapter 7852. This permit authorizes Xcel Energy to construct the approximately 2.2 mile natural gas pipeline, and as identified in the attached route permit maps, hereby incorporated into this document.

1.1 Pre-emption

Pursuant to Minn. Stat. § 216G.02, subd. 4, this permit shall be the sole route approval required to be obtained by the Permittee for construction of the pipeline facilities and associated facilities and this permit shall supersede and preempt all zoning, building, or land use rules, regulations, or ordinances promulgated by regional, county, local and special purpose government.

2.0 PROJECT DESCRIPTION

The Project is located within the cities of Burnsville and Eagan in Dakota County, Minnesota. The Project is an approximately 11,300 foot (2.2 mile) long natural gas (methane) pipeline with a maximum outside diameter of 16 inches that will supply natural gas to meet the need of the Black Dog Generating Plant. The alignment in the Burnsville City corridor is depicted on maps filed by Xcel Energy on November 16, 2016.

2.1 Associated Facilities

Associated facilities include valves and flanges, an in-line inspection tool launcher and receiver, cathodic protection, alternating current mitigation, and gas delivery station. Xcel Energy will install a gas delivery station within the existing fence at the NNG Cedar Station. The gas delivery station will contain all required valves, odorization equipment, an in-line inspection tool launcher/receiver, and necessary equipment required for custody transfer of gas. Pipeline markers will be installed at various locations (e.g., road crossings) in accordance with applicable federal and state regulations.

2.2 Project Location

County	Township Name	Township	Range	Section
Dakota County		T27N	R24W	23, 24, 25

3.0 DESIGNATED ROUTE

The route designated by the Commission in this permit is the route described below and shown on the route maps attached to this permit. The route is generally described as follows:

The proposed pipeline will extend north from NNG Cedar Station in Eagan then crossing under Old Sibley Memorial Highway. The route parallels Old Sibley Memorial Highway within road right-of-way towards the south and west for approximately 1500 feet before turning west where it then extends approximately 450 feet crossing under to the west side of Minnesota State Highway 13 (Sibley Memorial Highway). The route then turns southwest and parallels the western edge of the southbound lane of Minnesota State Highway 13, again within road right-of-way, and traverses approximately 3,350 feet (0.64 miles), crossing under Cedar Bridge Avenue and River Hills Drive, before reaching an existing utility corridor. The route then turns to the northwest for approximately 1.0 mile to its terminus at the Black Dog Generating Plant. The route in this section is located on parcels owned by the City of Burnsville or NSP.

Xcel will acquire easements approximately 40 feet in width for ongoing operations and maintenance of the pipeline. Xcel will acquire a modified easement with the City of Burnsville to allow for placement of the natural gas pipeline in Xcel's existing transmission line easement.

The identified route widths will provide the Permittee with flexibility for minor adjustments of the specific alignment or right-of-way to accommodate landowner requests and unforeseen conditions. The final alignment (i.e., permanent and maintained rights-of-way) will be located within this designated route unless otherwise authorized by the Commission.

3.1 Permanent Right-of-Way

The approved right-of-way width for the project is up to 40 feet.

3.2 Temporary Right-of-Way or Work Space

The Project will also require a wider temporary right-of-way, or construction corridor, and work space during construction of the pipeline in some locations to allow for equipment access and laying out the pipe. This temporary right-of-way may extend up to 100 feet wide along the existing electric transmission line corridor on the land owned by the City Burnsville to facilitate safe construction. Where space allows an approximately 40 foot-wide temporary right-of-way will be utilized along roadways, however, along Old Sibley Memorial Highway the distance between the road and the edge of road right-of-way is not adequate to accommodate the full 40 feet and a narrower temporary right-of-way will be necessary. All temporary space for

construction within road right of way will be approved under the accommodation permits rather than through temporary easements.

The Permittee shall limit temporary right-of-way to special construction access needs required outside of the authorized permanent right-of-way. Temporary right-of-way shall be selected to limit the removal and impacts to vegetation.

3.3 Right-of-Way Conformance

This permit anticipates that the right-of-way will generally conform to the alignment identified on the attached route permit maps unless changes are requested by individual landowners and agreed to by the Permittee or for unforeseen conditions that are encountered or are otherwise provided for by this permit.

Any right-of-way modifications within the designated route shall be located so as to have comparable overall impacts relative to the factors in Minn. R. 7852.1900, as does the right-of-way identified in this permit, and shall be specifically identified and documented in and approved as part of the plan and profile required by this permit.

4.0 STATE AND FEDERAL MINIMUM DEPTH OF COVER REQUIREMENTS

Minn. Stat. § 216G.07, subd. 1, requires the pipeline trench to be excavated to a depth that sufficiently allows for at least 54 inches (4.5 feet) of backfill from ground surface to the top of pipeline in all areas where the pipeline crosses the right-of-way of any public drainage facility or any county, town, or municipal street or highway and where the pipeline crosses agricultural land. Where the pipeline crosses the right-of-way of any drainage ditch the pipeline shall be installed with a minimum level cover of not less than 54 inches (4.5 feet) below the authorized depth of the ditch, unless waived in the manner provided in Minn. Stat. § 216G.07, subd. 2 and 3. In agricultural land, the Permittee may seek a depth requirement waiver from the affected landowners to install the pipeline at the same depth as the existing pipelines.

In all cases, the pipeline trench shall be excavated to a depth that sufficiently allows for at least 36 inches (3 feet) of backfill from ground surface to the top of pipeline in accordance with U.S. Department of Transportation regulations (49 CFR 192.327).

5.0 GENERAL CONDITIONS

The Permittee shall comply with the following conditions during pipeline right-of-way preparation, construction, cleanup, and restoration over the life of this permit.

5.1 Agricultural Protection Plan

The project will not impact cultivated agricultural land, therefore an agricultural mitigation plan is not required (Minnesota Statute 216E.10, subdivision 3(b)).

5.2 Permit Distribution

Within 10 days of permit issuance, the Permittee shall send a copy of the permit to the office of each regional development commission of a development region, soil and water conservation district, watershed district, watershed management district, office of the auditor of each county, and the clerk of each city and township crossed by the designated route.

Within 30 days of permit issuance, the Permittee shall provide all affected landowners with a copy of this permit and the complaint procedures. In no case shall the landowner receive this route permit and complaint procedures less than five days prior to the start of construction on their property. An affected landowner is any landowner or designee that is within or adjacent to the permitted route.

The Permittee shall provide all affected landowners with complete information about the project keeping them informed throughout the initial survey, right-of-way acquisition, right-of-way preparation, construction, restoration, and future operation and maintenance. As provided by applicable laws and regulations the Permittee shall provide educational materials about the project and any restrictions or dangers associated with the project to landowners within the route whose land is crossed by the pipeline and, upon request, to any interested persons.

5.3 Notification

The Permittee shall notify landowners or their designee at least 14 days in advance but not greater than 60 days in advance of entering the property.

5.4 Construction Practices

The Permittee shall follow those specific construction practices and material specifications described in Xcel Energy's Application to the Commission for a route permit for the Black Dog Natural Gas Pipeline Project, dated August 18, 2016 and the record of the proceedings unless this permit establishes a different requirement in which case this permit shall prevail. The Permittee shall comply with the conditions for right-of-way preparation, construction, cleanup, and restoration contained in Minn. R. 7852.3600.

5.4.1 Field Representative

The Permittee shall designate a field representative responsible for overseeing compliance with the conditions of this permit during construction of the project. This person shall be accessible by telephone or other means during normal business hours throughout site preparation, construction, cleanup, and restoration.

The Permittee shall file with the Commission the name, address, email, phone number, and emergency phone number of the field representative 14 days prior to commencing construction. The Permittee shall provide the field representative's contact information to affected landowners, residents, local government units and other interested persons 14 days prior to commencing construction. The Permittee may change the field representative at any time by eFiling notice to the Commission, updating the project website, and providing affected landowners, residents, local government units and other interested persons with the current contact information.

5.4.2 Agricultural Monitor and County Inspector Notification Requirements

The Permittee shall at least 14 days prior to the start of construction provide notice to all landowners affected by construction with the name, telephone number and email address of the Agricultural Monitor and County inspector designated by the County, if appointed.

5.4.3 Employee Training and Education of Permit Terms and Conditions

The Permittee shall inform all employees, contractors, and other persons involved in construction of the terms and conditions of this permit.

5.4.4 Public Services, Public Utilities, and Existing Easements

During construction, the Permittee shall minimize any disruption to public services or public utilities. To the extent disruptions to public services or public utilities occur these would be temporary and the Permittee will restore service promptly. Where any impacts to utilities have the potential to occur the Permittee will work with both landowners and local agencies to determine the most appropriate mitigation measures if not already considered as part of this permit.

The Permittee shall cooperate with all entities that have existing easements or infrastructure within the pipeline route to ensure minimal disturbance to existing or planned developments.

5.4.5 Access to Property for Construction

The Permittee shall obtain all necessary permits authorizing access to public rights-of-way prior to any construction. The Permittee shall obtain approval of the landowners for access to private

property prior to any construction. The Permittee shall consult with property owners to identify and address any special problems the landowners may have that are associated with the pipeline prior to any construction.

The Permittee shall work with landowners to provide access to their property, to locate the pipeline on their property to minimize the loss of agricultural land, forest, and wetlands, with due regard for proximity to homes and water supplies, even if the deviations will increase the cost of the pipeline, so long as the landowner's requested relocation does not adversely affect environmentally sensitive areas.

The Permittee shall negotiate agreements with landowners that will give the landowners access to their property; minimize the impact on planned future development of the property; and to assume any additional costs for such development that may be the result of installing roads, driveways and utilities that must cross the right-of-way. The Permittee shall not unreasonably deny a landowner's request to cross the easement to access the landowner's property.

5.4.6 Noise

The Permittee shall comply with noise standards established under Minn. R. 7030.0010 to 7030.0080. Construction and maintenance activities shall be limited to daytime working hours to the extent practicable to ensure nighttime noise level standards will not be exceeded.

5.4.7 Site Sediment and Erosion Control

The Permittee shall implement those erosion prevention and sediment control practices recommended by the Minnesota Pollution Control Agency Construction Stormwater Program.

The Permittee shall minimize erosion and sedimentation during construction and shall employ perimeter sediment controls, protect exposed soil by promptly planting, seeding, using erosion control blankets and turf reinforcement mats, stabilizing slopes, protecting storm drain inlets, protecting soil stockpiles, and controlling vehicle tracking. Contours shall be graded as required so that all surfaces provide for proper drainage, blend with the natural terrain, and are left in a condition that will facilitate re-vegetation and prevent erosion. All areas disturbed during construction of the facilities shall be returned to pre-construction conditions.

In accordance with Minnesota Pollution Control Agency requirements, the Permittee shall obtain a National Pollutant Discharge Elimination System (NPDES)/State Disposal System (SDS) Construction Stormwater permit from the Minnesota Pollution Control Agency.

5.4.8 Topsoil Protection

The Permittee shall take precautions to minimize mixing of topsoil and subsoil during excavation of the trench for the pipe unless otherwise negotiated with the affected landowner.

5.4.9 Soil Compaction

Compaction of soils by the Permittee must be kept to a minimum.

5.4.10 Landscape Preservation

Care shall be used to preserve the natural landscape, minimize tree removal and prevent any unnecessary destruction of the natural surroundings in the vicinity of all pipeline construction and restoration activities.

5.4.11 Sensitive Areas

The Permittee shall stabilize stream banks and other sensitive areas disturbed by pipeline construction in accordance with the requirements of applicable state or federal permits.

5.4.12 Wetlands and Water Resources

Wetlands and riparian areas shall be accessed using the shortest route possible in order to minimize travel through wetland areas and prevent unnecessary impacts. No temporary workspace areas shall be placed within or adjacent to wetlands or water resources, as practicable. To minimize impacts, construction in wetland areas shall occur during frozen ground conditions where practicable and shall be according to permit requirements by the applicable permitting authority. When construction during winter is not possible, wooden or composite mats shall be used to protect wetland vegetation. Soil excavated from the wetlands and riparian areas shall be contained and not placed back into the wetland or riparian area.

Dewatering during periods of excessive precipitation or in areas where the natural groundwater table intersects the pipeline trench will not be directed into wetlands or water bodies. Dewatering discharges will be directed toward well vegetated upland areas. Should discharge activities need to be directed off the right-of-way landowner consent will be obtained and locations will be chosen to minimize impacts. All discharge activities will comply with applicable agency permits or approvals.

Areas disturbed by construction activities shall be restored to pre-construction conditions. Restoration of the wetlands will be performed by Permittee in accordance with the requirements of applicable state and federal permits or laws and landowner agreements.

All requirements of the U.S. Army Corps of Engineers (wetlands under federal jurisdiction), Minnesota Department of Natural Resources (Public Waters/Wetlands), and County (wetlands under the jurisdiction of the Minnesota Wetland Conservation Act) shall be met.

5.4.13 Vegetation Removal and Protection

The Permittee shall clear the permanent right-of-way and temporary right-of-way preserving to the maximum extent practicable windbreaks, shelterbelts, living snow fences, and vegetation in areas such as trail and stream crossings where vegetative screening may minimize aesthetic impacts, to the extent that such actions do not impact the safe operation, maintenance, and inspection of the pipeline and are in compliance with all applicable laws and regulations.

Tree stumps will be removed at the landowner's request or when necessitated due to trench location. The Permittee will dispose of all debris created by clearing at a licensed disposal facility or as authorized by the responsible governmental unit or as agreed to with the landowners, provided disposal complies with local regulations.

5.4.14 Application of Pesticides

The Permittee shall restrict pesticide use to those pesticides and methods of application approved by the Minnesota Department of Agriculture, Minnesota Department of Natural Resources, and the U.S. Environmental Protection Agency. Selective foliage or basal application shall be used when practicable. The Permittee shall contact the landowner or his designee to obtain approval for the use of pesticide prior to any application on their property. The landowner may request that there be no application of pesticides on any part of the right-of-way within the landowner's property. All pesticides shall be applied in a safe and cautious manner so as not to damage crops, orchards, tree farms, or gardens. The Permittee shall provide notice of pesticide application to affected landowners and known beekeepers operating apiaries within three miles of the project site at least 14 days prior to such application.

5.4.15 Invasive Species

The Permittee shall employ best management practices to avoid the potential spread of invasive species on lands disturbed by project construction activities.

5.4.16 Noxious Weeds

The Permittee shall take all reasonable precautions against the spread of noxious weeds during all phases of pipeline construction and restoration of all areas affected by construction. When utilizing seed to establish temporary and permanent vegetative cover on exposed soil the Permittee shall select site appropriate seed certified to be free of noxious weeds. To the extent possible, the Permittee shall use native seed mixes. The Permittee shall consult with landowners on the selection and use of seed for replanting.

5.4.17 Roads (Public and Private)

Equipment involved in pipeline construction shall be moved into the right-of-way using existing public or private roads unless a temporary road is negotiated with the landowner.

Prior to commencement of construction, the Permittee shall identify all state, county, city, and township roads that will be used for the project and shall notify the state, county or township governing body having jurisdiction over the roads to determine if the governmental body needs to inspect the roads prior to use of these roads. The Permittee is responsible for maintenance and repair of roads that will be subject to extra wear and tear due to transportation of equipment and project related materials. The Permittee shall cooperate with state, county, city, and township road authorities to develop appropriate signage and traffic management during construction.

The Permittee shall promptly repair private roads or lanes damaged when moving equipment or when accessing construction workspace, unless otherwise negotiated with the affected landowner.

5.4.18 Archaeological and Historic Resources

The Permittee shall make every effort to avoid impacts to identified archaeological and historic resources when constructing the transmission facility. In the event that a resource is encountered, the Permittee shall contact and consult with the State Historic Preservation Office and the State Archaeologist. Where feasible, avoidance of the resource is required. Where not feasible, mitigation must include an effort to minimize project impacts on the resource consistent with State Historic Preservation Office and State Archaeologist requirements.

Prior to construction, workers shall be trained about the need to avoid cultural properties, how to identify cultural properties, and procedures to follow if undocumented cultural properties, including gravesites, are found during construction. If human remains are encountered during construction, the Permittee shall immediately halt construction and promptly notify local law

enforcement and the State Archaeologist. Construction at such location shall not proceed until authorized by local law enforcement or the State Archaeologist.

5.4.19 Livestock

Precautions to protect livestock must be taken by the Permittee unless otherwise negotiated with the affected landowner.

5.4.20 Security

The Permittee will install temporary gates or similar barriers, as needed, to prohibit public access to the right-of-way during construction.

5.4.21 Restoration

The Permittee shall restore the right-of-way, temporary work spaces, access roads, abandoned right-of-way, and other public or private lands affected by construction of the pipeline to the natural conditions that existed immediately before construction of the pipeline and as required by other federal and state agency permits. Restoration must be compatible with the safe operation, maintenance, and inspection of the pipeline. Within 60 days after completion of all restoration activities the Permittee shall advise the Commission in writing of the completion of such activities.

5.4.22 Cleanup

All waste and scrap that is the product of construction shall be removed from the right-of-way and all premises on which construction activities were conducted and properly disposed of upon completion of each task. Personal litter, including bottles, cans, and paper from construction activities shall be removed on a daily basis.

5.4.23 Pollution and Hazardous Wastes

All appropriate precautions to protect against pollution of the environment must be taken by the Permittee. The Permittee shall be responsible for compliance with all laws applicable to the generation, storage, transportation, clean up and disposal of all wastes generated during pipeline construction and restoration of the right-of-way.

5.4.24 Damages

The Permittee shall fairly restore or compensate landowners for damage to crops, fences, private roads and lanes, landscaping, drain tile, or other damages sustained during construction.

5.5 Other Requirements

5.5.1 Other Permits and Regulations

The Permittee shall comply with all applicable state rules and statutes. The Permittee shall obtain all required permits for the project and comply with the conditions of those permits unless those permits conflict with or are preempted by federal or state permits and regulations. A list of the permits known to be required is included in the permit application. The Permittee shall submit a copy of such permits to the Commission upon request.

6.0 SPECIAL CONDITIONS

Special conditions shall take precedence over other conditions of this permit should there be a conflict.

- a. The Stormwater Pollution Prevention Plan shall clearly state that the construction stormwater may not be discharged to any fen and that if dewatering is determined to be necessary the permittee shall consult with the DNR to determine if a Fen Management Plan is required.
- b. Wildlife sensitive erosion control materials shall be used.
- c. All construction contractors shall be instructed on the potential for turtles to become trapped in trenches and precautions taken to ensure against entrapment before backfilling any trenches. The Permittee shall follow measures and recommendations for avoiding and minimizing impacts to Blanding's turtle populations as outlined in the Minnesota Department of Natural Resources Environmental Review Fact Sheet Series for the Blanding's Turtle.
- d. All vegetation management shall occur within the right-of-way and occur outside of the songbird nesting season (mid-May through July).
- e. The permittee shall obtain a Tree Removal Permit prior to the clearing of any trees from the City of Burnsville.
- f. The permittee shall obtain an easement for the pipeline from the City of Burnsville.

7.0 DELAY IN CONSTRUCTION

If the Permittee has not commenced construction or improvement of the route within four years after the date of issuance of this permit the Commission shall suspend the permit in accordance with Minn. R. 7852.3300. If at the time of suspension, or at a later time, the Permittee decides to construct the pipeline, it shall certify to the Commission that there have been no significant changes in any material aspects of the conditions or circumstances existing when the permit was issued. If the Commission determines that there are no significant changes, it shall reinstate the permit. If the Commission determines that there is a significant change, it may order public information meetings or a new hearing and consider the matter further, or it may require the Permittee to submit a new application.

8.0 COMPLAINT PROCEDURES

Prior to the start of construction, the Permittee shall submit to the Commission the procedures that will be used to receive and respond to complaints. The procedures shall be in accordance with the requirements of Minn. R. 7852.3700, and as set forth in the complaint procedures attached to this permit [*Attachment Complaint Report Procedures*]. The Permittee shall advise the Commission when such procedure has been established.

The Permittee shall notify the Commission of any complaints received during the course of construction pertaining to Minn. R. 7852.3600 that are not resolved within 30 days of the complaint.

Upon request, the Permittee shall assist the Commission with the disposition of unresolved or longstanding complaints. This assistance shall include, but is not limited to, the submittal of complaint correspondence and complaint resolution efforts.

9.0 PIPELINE SAFETY

In an emergency situation, responders will take appropriate actions necessary to address the emergency. Pursuant to Minn. Stat. § 216G.02, subd. 3(a) the pipeline routing permit may not set safety standards for the construction of pipeline. This would also apply to operation and maintenance. Therefore, this Pipeline Routing Permit does not address pipeline safety related issues.

10.0 COMPLIANCE REQUIREMENTS

Failure to timely and properly make compliance filings required by this permit is a failure to comply with the conditions of this permit. Compliance filings must be electronically filed with the Commission.

10.1 Plan and Profile

At least 30 days before right-of-way preparation for construction begins on any segment or portion of the project, the Permittee shall provide the Commission with a plan and profile of the right-of-way and the specifications and drawings for right-of-way preparation, construction, cleanup, and restoration for the segment of pipeline for which construction is scheduled. The documentation shall include maps depicting the plan and profile including the designated route, right-of-way, and pipeline alignment approved per this permit.

The Permittee may not commence construction until the 30 days has expired or until the Commission has advised the Permittee in writing that it has completed its review of the plan and profile documents and determined that the planned construction is consistent with this permit. If the Permittee intends to make any significant changes in its plan and profile or the specifications and drawings after submission to the Commission the Permittee shall notify the Commission at least five days before implementing the changes. No changes shall be made that would be in violation of any of the terms of this permit.

The Permittee shall also provide the Minnesota Office of Pipeline Safety with the same information provided to the Commission. The Permittee's plan and profile and specifications and drawings, shall become a condition of this permit and shall be complied with by the Permittee in accordance with Minn. R. 7852.3500.

10.2 Status Reports

The Permittee shall report to the Commission on progress during finalization of the route and construction of the pipeline. The Permittee shall report weekly. Reports shall begin with the submittal of the plan and profile for the project and continue until completion of restoration.

10.3 Notification to Commission

At least three days before the pipeline is to be placed into service, the Permittee shall notify the Commission of the date on which the pipeline will be placed into service and the date on which construction was complete.

10.4 As-Builts

Within 90 days after completion of construction, the Permittee shall submit copies of all final as-built plans and specifications developed during the project.

10.5 GPS Data

Within 90 days after completion of construction, the Permittee shall submit to the Commission, in the format requested by the Commission, geo-spatial information (e.g., ArcGIS compatible map files, GPS coordinates, associated database of characteristics) for the pipeline and associated facilities.

11.0 RIGHT OF ENTRY

The Permittee shall allow Commission designated representatives to perform the following, upon reasonable notice, upon presentation of credentials and at all times in compliance with the Permittee's site safety standards:

- a. To enter upon the facilities easement of the property for the purpose of obtaining information, examining records, and conducting surveys or investigations.
- b. To bring such equipment upon the facilities easement of the property as is necessary to conduct such surveys and investigations.
- c. To sample and monitor upon the facilities easement of the property.
- d. To examine and copy any documents pertaining to compliance with the conditions of this permit.

12.0 PERMIT AMENDMENT

The Permittee may apply to the Commission for an amendment of the route designation or to conditions specified in the permit in accordance with the requirements and procedures of Minn. R. 7852.3400.

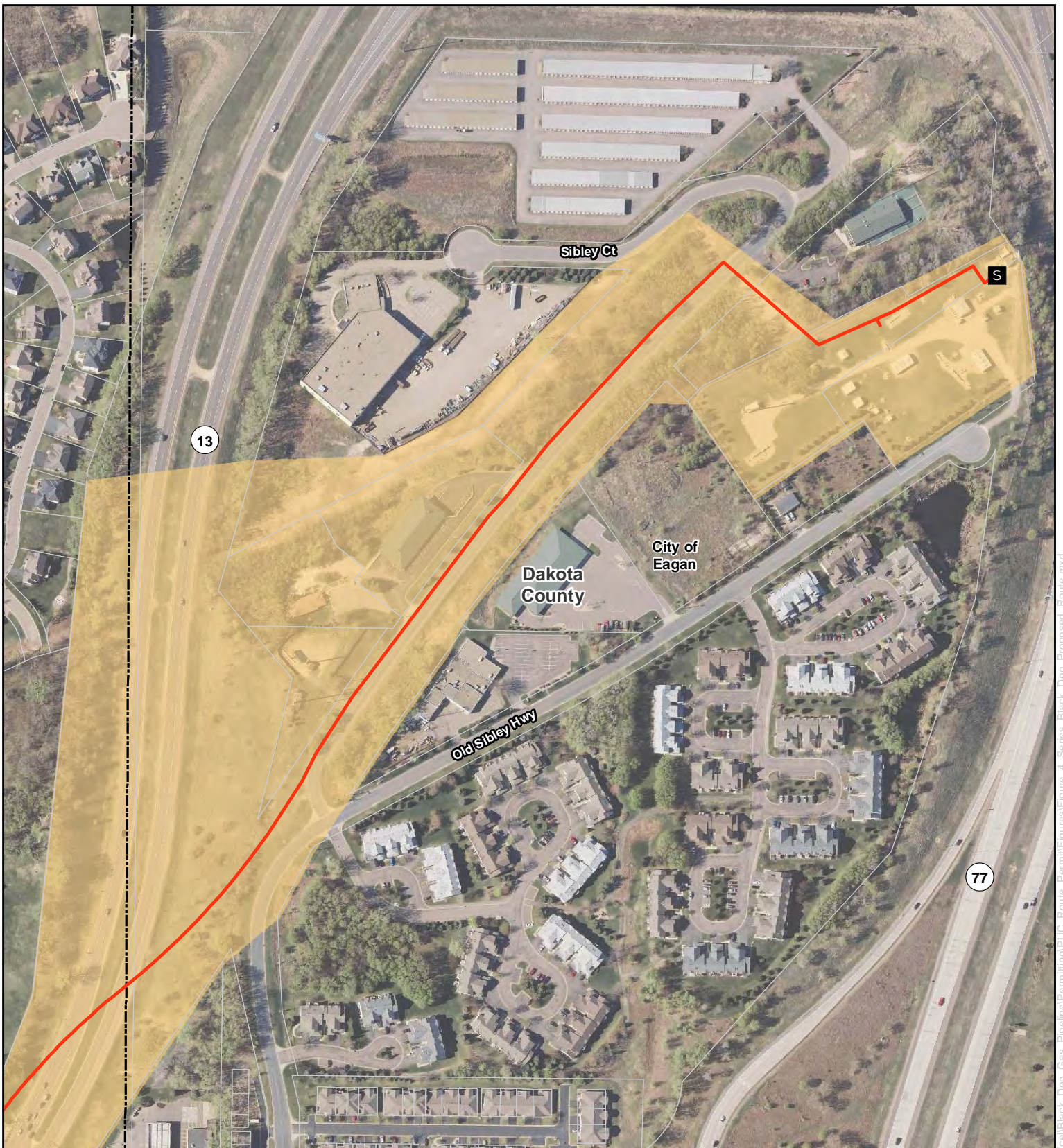
13.0 PERMIT MODIFICATION OR SUSPENSION

If the Commission determines that substantial evidence supports a finding that a violation of the terms or conditions of this pipeline routing permit has occurred or is likely to occur, it may take action to modify or suspend this permit in accordance with Minn. R. 7852.3800. The Commission may at any time re-consider modification or suspension of this permit if the Permittee has undertaken effective measures to correct the violations.

14.0 PIPELINE CONSTRUCTION COMPLETION CERTIFICATE

In accordance with Minn. R. 7852.3900, the Permittee shall file with the Commission a written certification that the construction and remediation of the permitted pipeline has been completed in compliance with all permit conditions and landowner agreements. The certification shall be considered by the Commission within 60 days of its filing. The Commission shall accept or reject the certification of completion and make a final determination regarding cost or reimbursements due. If the certification is rejected, the Commission shall inform the Permittee in writing which deficiencies, if corrected, will allow the certification to be accepted. When corrections to the deficiencies are completed, the Permittee shall notify the Commission, and the certification shall be reconsidered as soon as possible. After acceptance of the certification, the Commission's jurisdiction over the Permittee's pipeline routing permit shall be terminated.

Proposed Permit







0 150 300 Feet

1 inch = 300 feet



Figure 4.1
Proposed Route
Xcel Energy Black Dog
Gas Pipeline Project

- B** Black Dog Generation Plant
- S** Cedar Station
-  Proposed Pipeline Alignment
-  Proposed Pipeline Route
-  Parcel Boundary
-  City Boundary



For Environmental Review Purposes Only
 Data Sources: Xcel, MN DOT, Dakota County & MNDNR
 Imagery Sources: Twin Cities Metro Dakota County, 2013







0 150 300 Feet

1 inch = 300 feet



Figure 4.2
Proposed Route
Xcel Energy Black Dog
Gas Pipeline Project

- B** Black Dog Generation Plant
- S** Cedar Station
-  Proposed Pipeline Alignment
-  Proposed Pipeline Route
-  Parcel Boundary
-  City Boundary



For Environmental Review Purposes Only

Data Sources: Xcel, MN DOT, Dakota County & MNDNR
 Imagery Sources: Twin Cities Metro Dakota County, 2013



0 150 300 Feet

1 inch = 300 feet



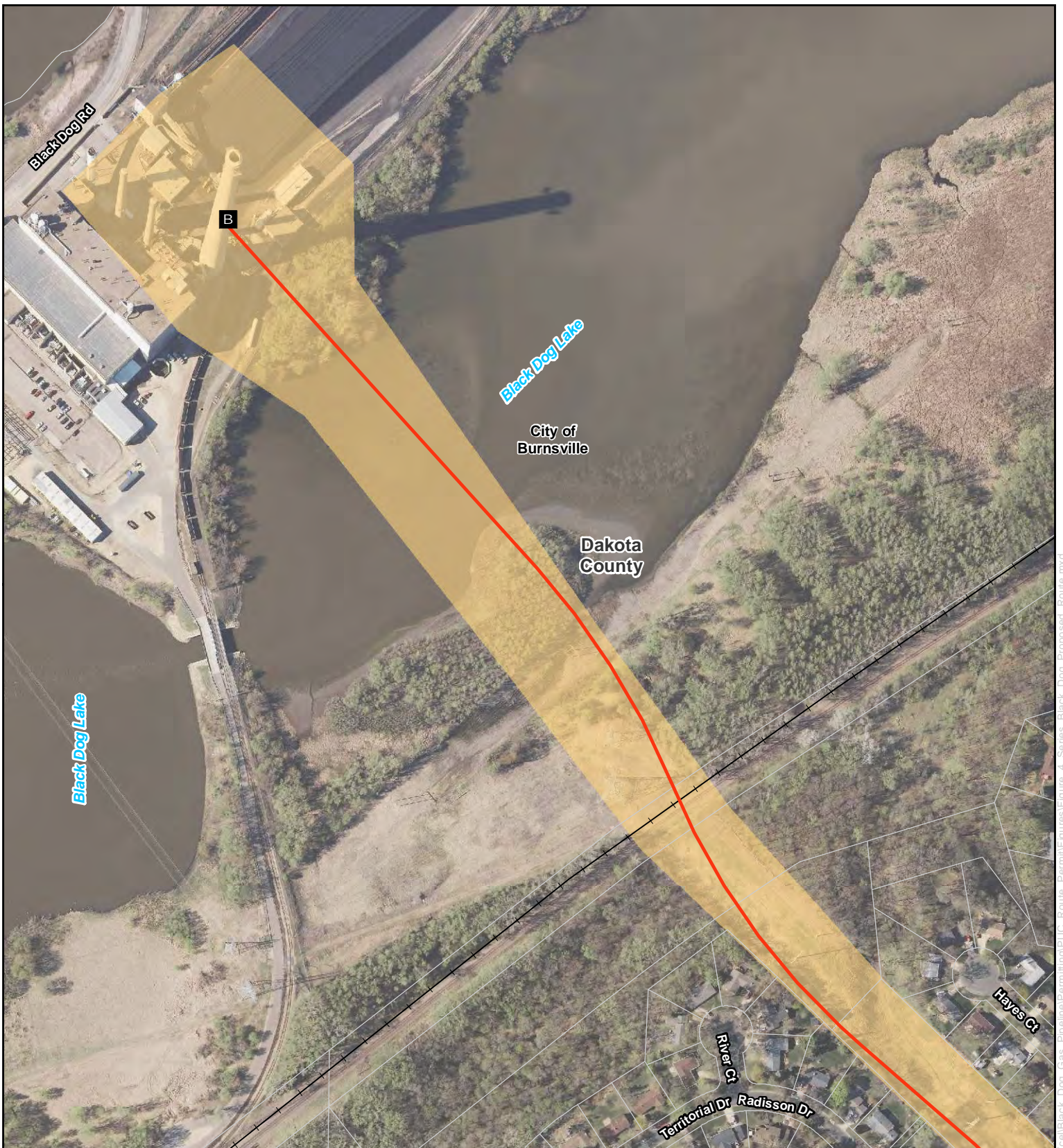
Figure 4.3
Proposed Route
Xcel Energy Black Dog
Gas Pipeline Project

- B** Black Dog Generation Plant
- S** Cedar Station
- Proposed Pipeline Alignment
- Proposed Pipeline Route
- Parcel Boundary
- City Boundary



For Environmental Review Purposes Only

Data Sources: Xcel, MN DOT, Dakota County & MNDNR
 Imagery Sources: Twin Cities Metro Dakota County, 2013







0 150 300 Feet

1 inch = 300 feet



Figure 4.4
Proposed Route
Xcel Energy Black Dog
Gas Pipeline Project

- B** Black Dog Generation Plant
- S** Cedar Station
-  Proposed Pipeline Alignment
-  Proposed Pipeline Route
-  Parcel Boundary
-  City Boundary







For Environmental Review Purposes Only

Data Sources: Xcel, MN DOT, Dakota County & MNDNR
 Imagery Sources: Twin Cities Metro Dakota County, 2013



Black Dog Natural Gas Pipeline Proposed Alignment and Right-of-Way

-  Parcel Boundaries
-  Proposed Pipeline Alignment
-  Proposed 40 foot right-of-way

N


0 50 100 200 Feet

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Highway 13

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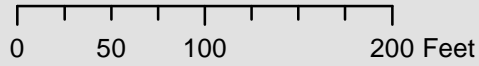
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Black Dog Natural Gas Pipeline Proposed Alignment and Right-of-Way

- Parcel Boundaries
- Proposed Pipeline Alignment
- Proposed 40 foot right-of-way





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Black Dog Natural Gas Pipeline Proposed Alignment and Right-of-Way

-  Parcel Boundaries
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N


0 50 100 200 Feet