

**Appendix G**  
**Waterbody Crossings**

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## Appendix G Figures and Tables

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## Appendix G1

# Waterbody Crossing Trenching and Installation Methods

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Construction at waterbodies requires clearing and grading; installing erosion control measures; possibly removing beavers and removing or altering beaver dams; and constructing temporary equipment bridges. After initial clearing and grading is completed, Enbridge would install the pipeline across the waterbody using one of the following crossing methods: wet trench, dam and pump, flume, or horizontal directional drill (HDD) or guided bore. Each of these waterbody crossing trenching and installation methods are detailed below.

### ***Wet Trench Method***

The open-cut method (also known as the “wet open-cut” method) is a waterbody crossing technique that often minimizes the total duration of instream disturbance. The wet trench method is typically used to cross waterbodies for which dam and pump, flume, and HDD are not permitted. This method is illustrated in Figure G-1.

Enbridge would excavate the trench using draglines or backhoes operating from one or both streambanks. If equipment is required to enter the stream to excavate the trench, the equipment would conduct the excavation on clean construction mats. Enbridge would place excavated material on the upland construction work area at least 20 feet from the water’s edge or in an ATWS. The upper 1 foot of the trench spoil would be stored separately from the remaining spoil. The ATWS would be set back 50 feet from the water’s edge, except where the adjacent upland consists of actively cultivated or rotated cropland or other disturbed land. Sediment containment devices, such as silt fences and straw bales, would be installed to contain the excavated material and to minimize the potential for sediment to migrate into the waterbody. Enbridge would only store trench spoil within the stream if doing so is expressly approved by regulatory agencies.

During excavation of the instream trench, Enbridge would leave earthen trench plugs at each end of the excavation to prevent the waterbody from flowing into the adjacent excavated pipeline trench and to prevent water accumulated in the upland trench from running into the waterbody. When excavation of the trench is complete, the trench plugs would be removed, and a prefabricated section of pipe would be positioned and lowered into the trench.

Enbridge would backfill the trench with the excavated material, unless otherwise specified in stream crossing permits. Enbridge would attempt to return the bed of the waterbody as near as practicable to its preconstruction condition with no impediments to normal waterbody flow.

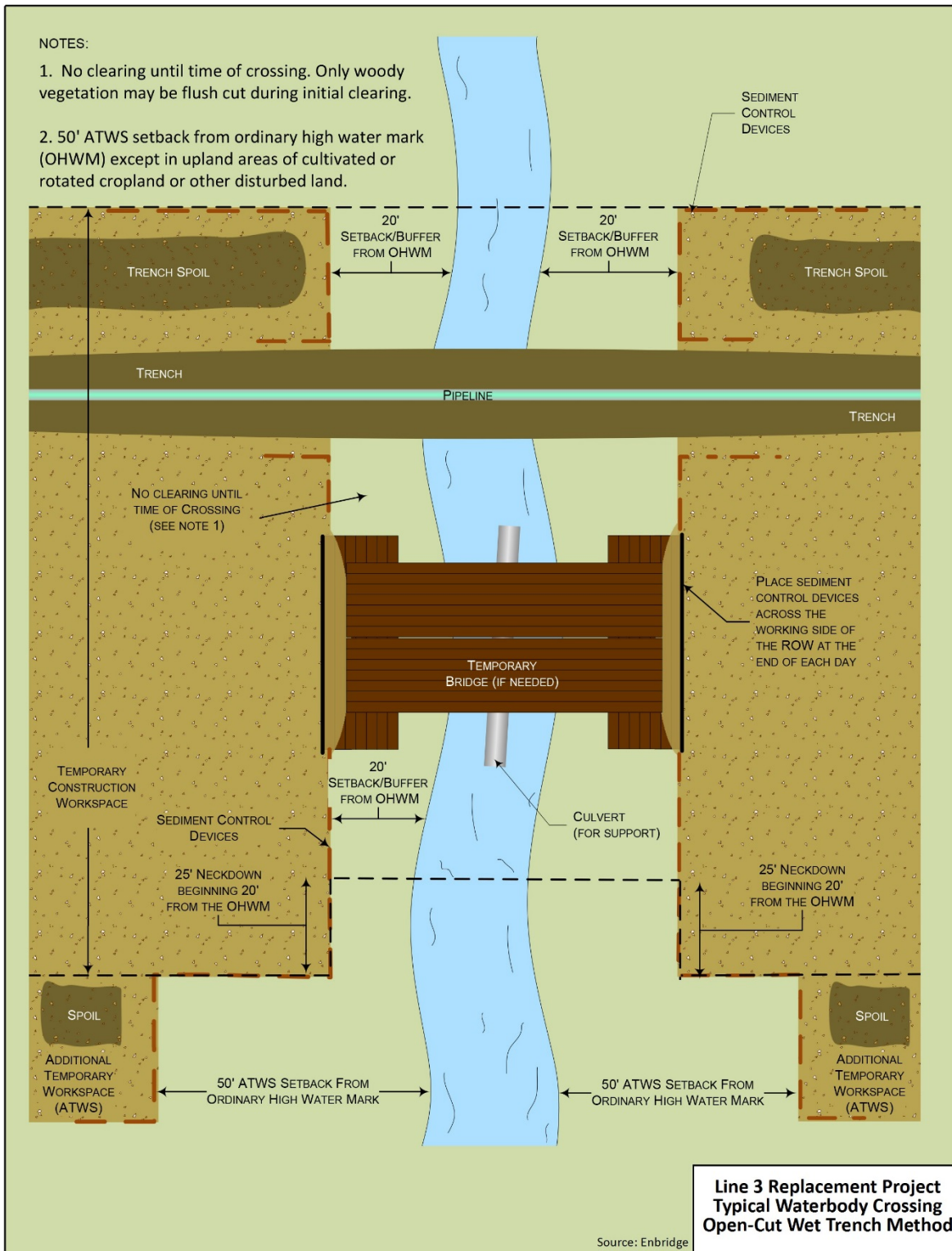


Figure G-1. Wet Open Cut Waterbody Crossing Technique

## ***Dry Crossing Methods***

### Dam-and-Pump Method

The dam-and-pump method is a dry crossing method that is typically used for waterbodies with low gradients and flow or waterbodies with meandering channels. This method involves constructing temporary dams across the waterbody, both upstream and downstream of the crossing, prior to excavation. Dams generally would be installed using sandbags, plastic sheeting, sheet piling, or steel plates. Pumps and piping would be used to transport the stream flow around the construction area for the duration of the process. This method is illustrated in Figure G-2.

When using this method, Enbridge would begin pumping the upstream flow while the dams are being installed to prevent interruption of stream flows. The downstream flow would be discharged into an energy-dissipation device to prevent scouring of the waterbody bed or adjacent banks. The capacity of the pumps and piping would be greater than the anticipated flow of the waterbody being crossed but would be adjusted to maintain the flow of water downstream and prevent excessive drawdown of the waterbody upstream of the construction area. Pumps and fuel for the pumps would be installed in impermeable, sided containment structures in the upland on the upstream side of the waterbody crossings. Enbridge would cover the pump intake with a screen and suspend it above the waterbody bed to prevent sediment uptake and entrainment of aquatic organisms.

Once stream flow is routed around the construction area, water from the area between the dams would be pumped, via separate pumps, into a straw bale structure or similar dewatering discharge device. These devices would be located in well-vegetated upland areas, if present, and would be designed in a manner to prevent the flow of heavily silt-laden water into waterbodies or wetlands. Backhoes would excavate the trench from one or both banks or on clean construction mats within the isolated waterbody bed. Enbridge would place excavated material on the upland construction work area at least 20 feet from the water's edge or in an ATWS. The upper 1 foot of the trench spoil would be stored separately from the remaining spoil. The ATWS would be set back 50 feet from the water's edge, except where the adjacent upland consists of actively cultivated or rotated cropland or other disturbed land. Sediment containment devices, such as silt fences and straw bales, would be installed to contain the excavated material and to minimize the potential for sediment to migrate into the waterbody.

During excavation of the instream trench, Enbridge would leave earthen trench plugs at each end of the excavation to prevent water accumulated in the upland trench from running into the isolated waterbody bed. After the trench is excavated to the proper depth, the trench plugs would be removed, and a prefabricated section of pipe would be positioned and lowered into it. Enbridge would then backfill the trench with the material excavated from the bed of the waterbody, unless otherwise specified in stream crossing permits. Prior to removing the dams and restoring stream flow, Enbridge would pump water that accumulated in the construction area into a straw bale structure or similar dewatering device and restore the bottom contours of the streambed and the streambanks as closely as practical to preconstruction contours with no impediment to waterbody flow.

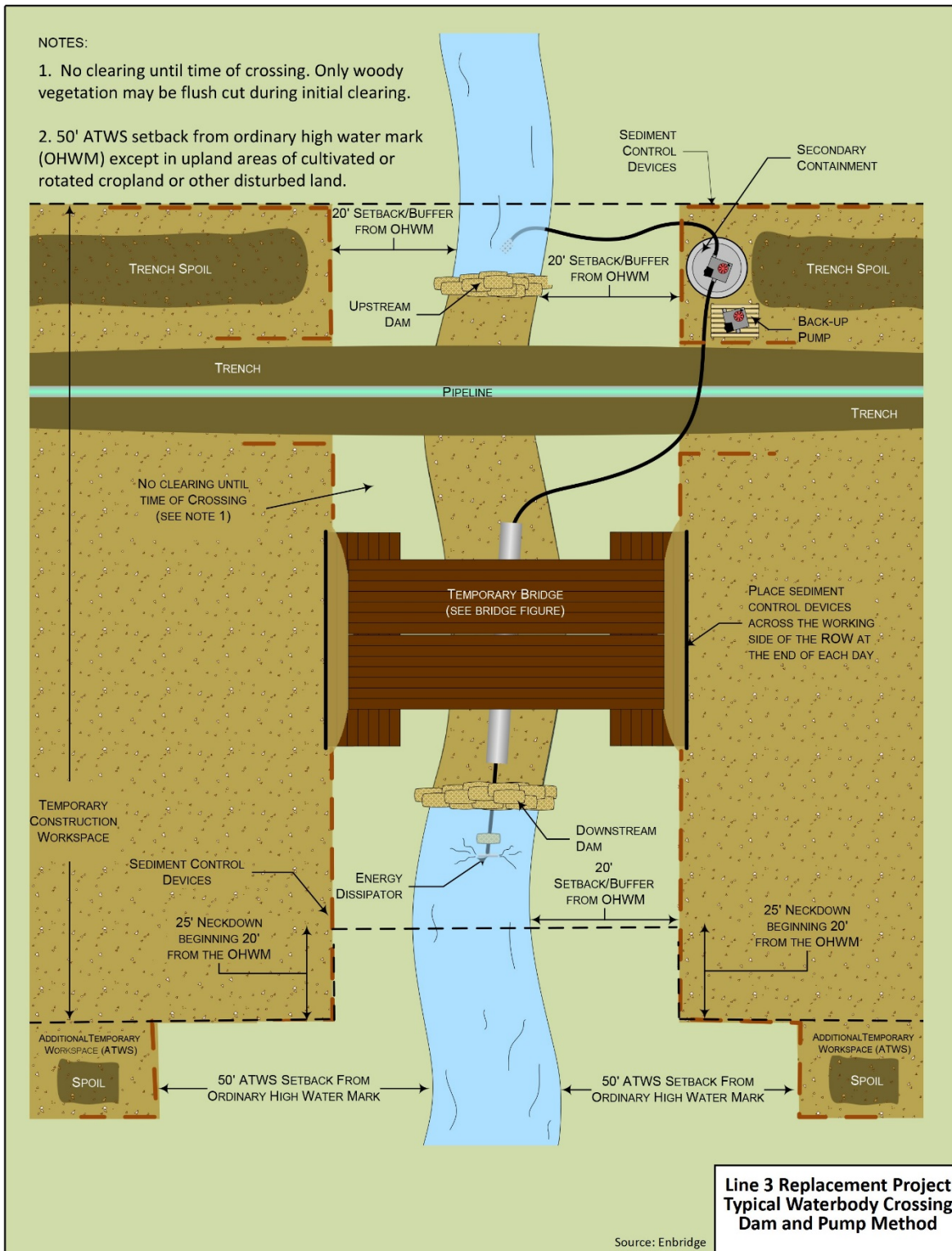


Figure G-2. Dam-and-Pump Waterbody Crossing Technique



### Flume Method

The flume method is a dry crossing method used for relatively narrow waterbodies free of large rocks and bedrock at the trench line and with a relatively straight channel across the construction work area. The flume method generally is not appropriate for wide, deep, or heavily flowing waterbodies. Use of this method involves installing dams upstream and downstream of the construction area and installing one or more pipes (flumes) that would extend along the course of the waterbody and through both dams. Streamflow would be carried through the construction area by the flume pipe(s). The flume method is illustrated in Figure G-3.

Flumes would be installed with sufficient capacity to transport the maximum flows that could be generated seasonally within the waterbody. The flumes, typically 40 to 60 feet long, would be installed before trenching and aligned to prevent impounding of water upstream of the construction area or to cause back-erosion downstream.

The upstream and downstream ends of the flumes would be incorporated into dams made of sandbags and plastic sheeting (or equivalent material). Upstream dams would be installed first and would funnel stream flow into the flumes. Downstream dams then would be constructed to prevent water from flowing back into the area to be trenched. Enbridge would monitor the dams and adjust them as necessary to minimize leakage. The flumes would remain in place during pipeline installation, backfilling, and streambank restoration.

Prior to trenching, the area between the dams typically would be dewatered. Backhoes working from one or both banks, or from clean construction mats within the isolated waterbody bed, would excavate the trench across the waterbody and under the flume pipes. Excavated material would be placed on the upland construction work area at least 20 feet from the water's edge or in an ATWS. The upper 1 foot of the trench spoil would be stored separately from the remaining spoil. The ATWS would be set back 50 feet from the water's edge, except where the adjacent upland consists of actively cultivated or rotated cropland or other disturbed land. Sediment containment devices, such as silt fences and straw bales, would be installed to contain the excavated material and to minimize the potential for sediment to migrate into the waterbody.

During excavation of the instream trench, Enbridge would leave earthen trench plugs at each end of the excavation to prevent water accumulated in the upland trench from running into the isolated waterbody bed. After the trench is excavated to the proper depth, the trench plugs would be removed, and a prefabricated section of pipe would be positioned and lowered into the trench. The trench then would be backfilled with the excavated material from the stream unless otherwise specified in stream crossing permits. Prior to removing the dams and flume pipes and restoring stream flow, Enbridge would pump water that accumulated in the construction area into a straw bale structure or similar dewatering device and restore the bottom contours of the streambed and the streambanks as closely as practical to preconstruction contours with no impediment to waterbody flow.

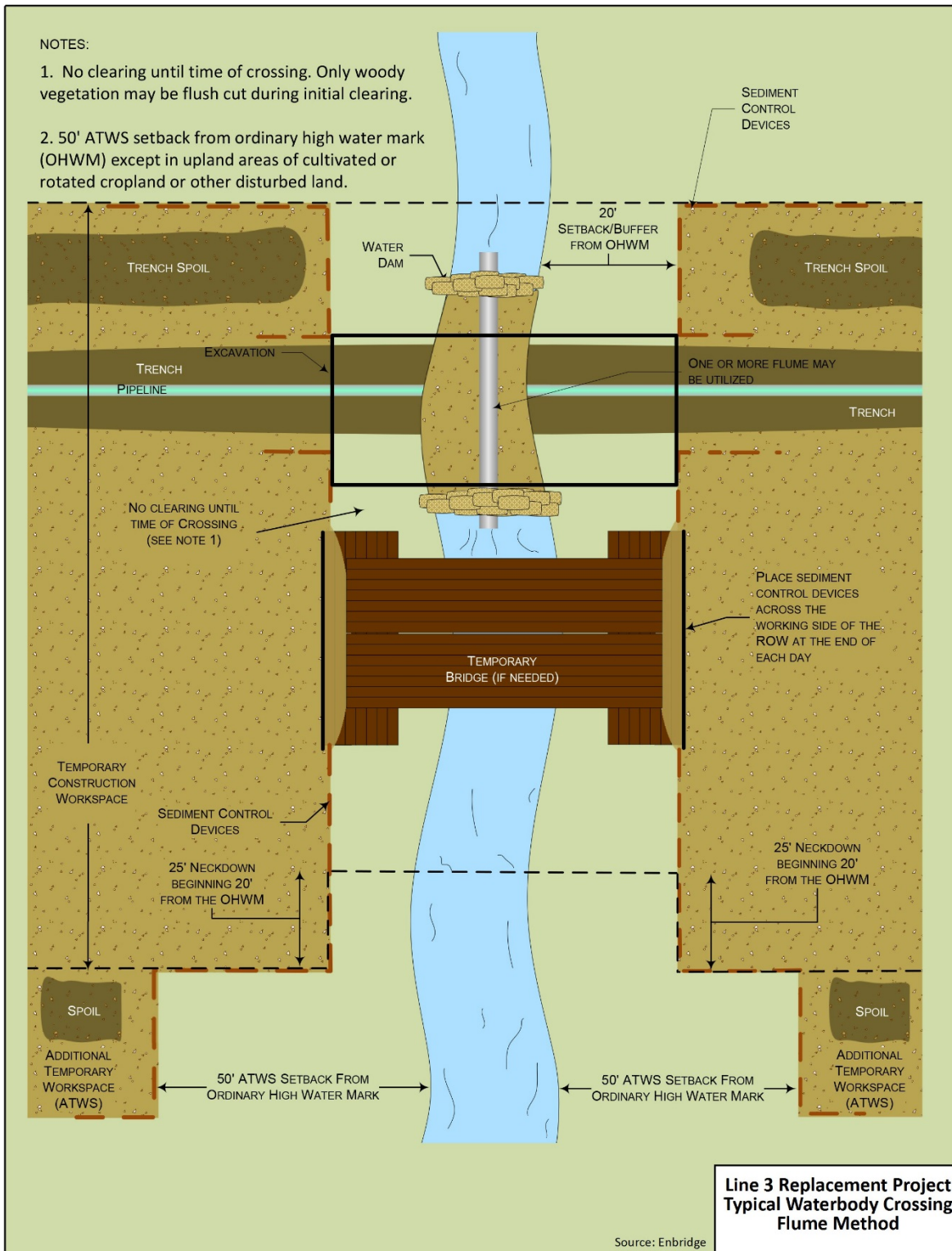


Figure G-3. Flume Waterbody Crossing Technique

### Horizontal Directional Drilling and Guided Bore Method

Horizontal Directional Drilling (HDD) involves drilling under a wetland or waterbody and installing the pipeline without physical disturbance of the wetland or waterbody feature. These methods could be used to cross environmentally sensitive areas identified by permitting agencies including the Minnesota Department of Natural Resources and the Army Corps of Engineers such as riparian forested wetlands, sensitive fishery resources, and impaired waters.

The feasibility of using HDD depends on subsurface substrate conditions and the length of the drill path. Portions of the pipeline route might cross regions with soils that are not conducive to HDD technology, including soils containing cobbles, boulders, layers of gravel, or non-cohesive sands. To determine the feasibility of using HDD at a specific crossing, Enbridge would undertake preliminary geotechnical investigations.

The HDD process is accomplished in three stages:

- A small-diameter pilot hole is drilled along a predetermined path under the waterbody.
- The pilot hole is incrementally enlarged or reamed out to a diameter that would accommodate the pipeline.
- Prefabricated segments of the pipe are pulled through the enlarged hole and welded to adjoining sections at the beginning and end of the crossing.

During drilling, construction personnel would monitor the crossing to detect unanticipated releases of drilling mud to the surface (termed “frac-outs”). The Environmental Protection Plan includes planned response actions if releases of drilling mud were to occur in wetlands, waterbodies, or upland areas. The plan identifies containment, clean-up, and notification procedures, the steps to be taken to restore affected areas and the equipment to be used.

### Guided Bore

The guided bore method is typically used at crossings of narrow wetlands and ditches adjacent to roads or railroads. It is not suitable adjacent to steep slopes, where water tables are near the surface, or where substrates consist of loose sand and gravel.

The guided bore method consists of boring an auger from an entrance hole on one side of the wetland to a corresponding hole on the other side of the wetland. The bore may or may not include a casing. An advantage of the guided bore is that there is no concern for a sediment release.

The holes on each side of the water, however, typically require large excavations and could consequently require dewatering and sheet-piling to maintain their structure. Pumps could be required to drain seepage within the holes onto adjacent land, which includes the risk of releasing sediment into the adjacent wetland. The guided bore method may also risk some subsidence along the bore alignment.

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**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	ND	Pembina	ND Section	Pembina River	Artificial Path	ND 1.4	IA	303d-Listed Impaired, NRI-listed, USACE Navigable	NA	NA
APR	ND	Pembina	ND Section	Pembina River	Artificial Path	ND 1.7	IA	303d-Listed Impaired, NRI-listed, USACE Navigable	NA	NA
APR	ND	Pembina	ND Section	Tongue River	Stream/River - Perennial	ND 12.1	II	None	NA	NA
APR	ND	Pembina	ND Section	Tongue River Cutoff	Stream/River - Intermittent	ND 9.2	II	303d-Listed Impaired	NA	NA
APR	ND	Pembina	ND Section	County Drain Number 33	Stream/River - Perennial	ND 8.5	III	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Canal Ditch	Canal Ditch	ND 21.7	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Canal Ditch	Canal Ditch	ND 24.4	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Canal Ditch	Canal Ditch	ND 23	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Canal Ditch	Canal Ditch	ND 25.8	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 23.7	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 24.4	None	None	NA	NA

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APR	ND	Pembina	ND Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 13.6	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 4.8	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 14.8	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 16.3	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 7.5	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 7.2	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 15.7	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 11.3	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 11.7	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Waterbody	Swamp/Marsh	ND 17.2	None	None	NA	NA

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Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	ND	Pembina	ND Section	Unnamed Waterbody	Lake/Pond - Perennial	ND 17.1	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Waterbody	Lake/Pond - Perennial	ND 18.3	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Waterbody	Lake/Pond - Perennial	ND 8.8	None	None	NA	NA
APR	ND	Pembina	ND Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 26.6	None	None	NA	NA
APR	MN	Marshall	ND Border to Clearbrook	Tamarac River	Stream/River - Perennial	MN 54.4	1C, 2Bd, 3C	303d-Listed Impaired	HDD	Dry Crossing
APR	MN	Pennington	ND Border to Clearbrook	Red Lake River	Artificial Path	MN 91.9	1C, 2Bd, 3C	NRI-listed, USACE Navigable	HDD	None
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 44.9	1C, 2Bd, 3C	None	NA	NA
APR	MN	Kittson	ND Border to Clearbrook	Red River of the North	Artificial Path	ND 27.6	1C, 2Bd,3C	303d-Listed Impaired, USACE Navigable	HDD	Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Silver Creek	Stream/River - Perennial	MN 135.9	2B, 3C	303d-Listed Impaired	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Lost River	Stream/River - Perennial	MN 132.2	2B, 3C	None	Dry Crossing	Wet Open Cut

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Marshall	ND Border to Clearbrook	Middle River	Stream/River - Perennial	MN 62.3	2B, 3C	303d-Listed Impaired, NRI-listed	HDD	None
APR	MN	Marshall	ND Border to Clearbrook	South Branch Snake River	Stream/River - Intermittent	MN 74.7	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Snake River	Stream/River - Perennial	MN 70.5	2B, 3C	None	HDD	Dry Crossing
APR	MN	Red Lake	ND Border to Clearbrook	Clearwater River	Artificial Path	MN 103	2B, 3C	303d-Listed Impaired	HDD	None
APR	MN	Red Lake	ND Border to Clearbrook	Lost River	Artificial Path	MN 113.5	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Silver Creek	Stream/River - Perennial	MN 135.3	2B, 3C	303d-Listed Impaired	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Silver Creek	Stream/River - Perennial	MN 135.6	2B, 3C	303d-Listed Impaired	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 137.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 131.1	None	None	Dry Crossing	Wet Open Cut



**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 131.7	None	None	NA	NA
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Connector	Connector	MN 133.9	None	None	NA	NA
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 64.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 98.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 129	None	None	Dry Crossing	Wet Open Cut
APR	MN	Polk	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 121.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 75.2	None	None	Bore	Dry Crossing
APR	MN	Polk	ND Border to Clearbrook	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 122.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Polk	ND Border to Clearbrook	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 117.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 43	None	None	Bore	Wet Open Cut

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 69.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 38.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 95.6	None	None	NA	NA
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 129.5	None	None	NA	NA
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 99.6	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 93.8	None	None	NA	NA
APR	MN	Polk	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 128.4	None	None	NA	NA
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 31.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 107.9	None	None	NA	NA
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 84.8	None	None	NA	NA

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 41.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 129.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 114.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 52.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 60.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 86.3	None	None	Bore	Dry Crossing
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 97.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 57.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 91.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 101.4	None	None	Dry Crossing	Wet Open Cut

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 35.8	None	None	Bore	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 94.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 37.3	None	None	Bore	Dry Crossing
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 80.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 129.3	None	None	NA	NA
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 92.3	None	None	HDD	None
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 97.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 112.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 49.6	None	None	NA	NA
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 39.9	None	None	Bore	Dry Crossing

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Polk	ND Border to Clearbrook	State Ditch Number Sixty-one	Canal Ditch	MN 117.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 109	None	None	NA	NA
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 35.9	None	None	Bore	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 87.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 47	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 51.8	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 82.6	None	303d-Listed Impaired	Wet open cut	Dry Crossing
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 99.8	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 89.3	None	None	Bore	Dry Crossing
APR	MN	Polk	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 118.5	None	None	Dry Crossing	Wet Open Cut

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 130.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 57.8	None	None	NA	NA
APR	MN	Polk	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 115.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 59.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 100	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 65.6	None	None	NA	NA
APR	MN	Polk	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 123	None	None	NA	NA
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 137	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 57.6	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 57.7	None	None	Dry Crossing	Wet Open Cut

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Polk	ND Border to Clearbrook	Unnamed Waterbody	Lake/Pond - Perennial	MN 127.4	None	None	NA	NA
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Waterbody	Lake/Pond - Perennial	MN 88.2	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Spring Branch	Stream/River - Perennial	MN 265.3	1B, 2A, 3B	Trout stream	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	King Creek	Stream/River - Intermittent	MN 344.2	1B, 2A, 3B	Trout stream	Wet Open Cut	Dry Crossing
APR	MN	Hubbard	Clearbrook to Carlton	Straight River	Artificial Path	MN 198.3	1B, 2A, 3B	Trout stream	HDD	Open cut
APR	MN	Carlton	Clearbrook to Carlton	Blackhoof River	Stream/River - Perennial	MN 352.1	1B, 2A, 3B	Trout stream	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Moose River	Stream/River - Perennial	MN 272.1	1B, 2Bd, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Big Swamp Creek	Canal Ditch	MN 224.6	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Moose Horn River	Stream/River - Perennial	MN 347.6	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Mississippi River	Artificial Path	MN 296.7	2B, 3C	303d-Listed Impaired, USACE Navigable	HDD	Open cut
APR	MN	Carlton	Clearbrook to Carlton	West Branch Kettle River	Stream/River - Perennial	MN 328.4	2B, 3C	None	NA	NA
APR	MN	Wadena	Clearbrook to Carlton	Shell River	Artificial Path	MN 215.3	2B, 3C	NRI-listed	HDD	Open cut

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Aitkin	Clearbrook to Carlton	Sandy River	Canal Ditch	MN 312.8	2B, 3C	None	HDD	Open cut
APR	MN	Cass	Clearbrook to Carlton	Daggett Brook	Stream/River - Perennial	MN 261.4	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Kettle River	Canal Ditch	MN 338.2	2B, 3C	303d-Listed Impaired, USACE Navigable	Dry Crossing	Wet Open Cut
APR	MN	Wadena	Clearbrook to Carlton	Crow Wing River	Artificial Path	MN 217.4	2B, 3C	NRI-listed	HDD	Wet Open Cut
APR	MN	Hubbard	Clearbrook to Carlton	Shell River	Stream/River - Perennial	MN 205.5	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Sandy River	Artificial Path	MN 305.9	2B, 3C	USACE Navigable	HDD	Open Cut
APR	MN	Hubbard	Clearbrook to Carlton	Shell River	Artificial Path	MN 207.8	2B, 3C	None	HDD	Open cut
APR	MN	Carlton	Clearbrook to Carlton	West Fork Moose Horn River	Stream/River - Perennial	MN 342.7	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	South Fork Pine River	Stream/River - Perennial	MN 232.6	2B, 3C	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Pine River	Artificial Path	MN 241.4	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	Clearbrook to Carlton	Clearwater River	Artificial Path	MN 149.5	2B, 3C	303d-Listed Impaired, NRI-listed	HDD	Open cut
APR	MN	Hubbard	Clearbrook to Carlton	Shell River	Stream/River - Perennial	MN 200.7	2B, 3C	None	Dry Crossing	Wet Open Cut



**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Hubbard	Clearbrook to Carlton	Hay Creek	Artificial Path	MN 187.8	2B, 3C	None	HDD	Open cut
APR	MN	Clearwater	Clearbrook to Carlton	Mississippi River	Stream/River - Perennial	MN 165.1	2B, 3C	303d-Listed Impaired	HDD	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Willow River	Stream/River - Perennial	MN 292.8	2C	NRI-listed	HDD	Open cut
APR	MN	Hubbard	Clearbrook to Carlton	LaSalle Creek	Stream/River - Perennial	MN 170.1	2C	Trout stream	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 286.2	None	None	NA	NA
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 302.3	None	None	Wet Open Cut	Dry Crossing
APR	MN	Crow Wing	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 245.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 308	None	None	Wet Open Cut	Dry Crossing
APR	MN	Wadena	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 220.2	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 303.6	None	None	Wet Open Cut	Dry Crossing
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 347.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 308.2	None	None	Wet Open Cut	Dry Crossing

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Aitkin	Clearbrook to Carlton	White Elk Creek	Stream/River - Intermittent	MN 291.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 309.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Unnamed Connector	Connector	MN 269.8	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Park Lake Creek	Stream/River - Perennial	MN 346.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Heikkila Creek	Stream/River - Perennial	MN 334.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 341.1	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 277.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 225.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 279.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 298.3	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 301.9	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 314.1	None	None	NA	NA

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 310.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 318.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 290.7	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 257.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Connector	Connector	MN 275.5	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 209.5	None	None	HDD	Open cut
APR	MN	Cass	Clearbrook to Carlton	Blind Lake Creek	Stream/River - Perennial	MN 250.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 138.2	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Shell River	Artificial Path	MN 209.5	None	NRI-listed	NA	NA
APR	MN	Aitkin	Clearbrook to Carlton	White Elk Creek	Stream/River - Perennial	MN 283.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Wadena	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 220.2	None	None	Wet Open Cut	Dry Crossing

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 335.3	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 223.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 226.9	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 138.1	None	None	NA	NA
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 299	None	None	Wet Open Cut	Dry Crossing
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 343.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 320.8	None	None	Dry Crossing	Wet Open Cut
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 185.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed artificial Path	Artificial Path	MN 209.2	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 337.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 333.8	None	None	NA	NA

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 295.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 270.6	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 333.7	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 333.7	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 333.8	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 137.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 137.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 138.8	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 253.1	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 229.5	None	None	NA	NA

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 230.7	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Walker Brook	Stream/River - Perennial	MN 151.4	None	303d-Listed Impaired	Wet Open Cut	None
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 169.9	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Bear Creek	Stream/River - Perennial	MN 164.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 349	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 146.9	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Connector	Connector	MN 354.4	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 352.3	None	Trout stream	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 144.3	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 146.3	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 189.4	None	None	NA	NA

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 152.6	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 353.7	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 141.2	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 154.4	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 163.5	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 227	None	None	NA	NA
APR	MN	Crow Wing	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 246.6	None	None	NA	NA
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 299.1	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 231.7	None	None	NA	NA
APR	MN	Crow Wing	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 244.3	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 186.4	None	None	Dry Crossing	Wet Open Cut

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 147.9	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 148.9	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 191.2	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 155.1	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 186.3	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 154.7	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 177.6	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 356.6	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 156.4	None	None	NA	NA
APR	MN	Carlton	Carlton to WI Border	Unnamed Waterbody	Lake/Pond - Perennial	MN 359.5	None	None	NA	NA
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 365.4	None	None	Wet Open Cut	Dry Crossing
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 364.7	None	None	Wet Open Cut	Dry Crossing



**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 365.1	None	None	Wet Open Cut	Dry Crossing
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 362.3	None	None	NA	NA
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 363.3	None	None	Dry Crossing	Wet Open Cut
APR	WI	Douglas	WI Section	Unnamed Stream/River Perennial	Stream/River - Perennial	WI 369	None	None	NA	NA
APR	WI	Douglas	WI Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	WI 368.5	None	None	NA	NA
APR	WI	Douglas	WI Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	WI 367.6	None	None	NA	NA
APR	WI	Douglas	WI Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	WI 369.9	None	None	NA	NA
APR	WI	Douglas	WI Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent	WI 375.7	None	None	NA	NA
APR	WI	Douglas	WI Section	Pokegama River	Stream/River - Perennial	WI 366.5	LFF	None	NA	NA
APR	WI	Douglas	WI Section	Pokegama River	Stream/River - Perennial	WI 376	LFF	USACE Navigable	NA	NA

**Table G-1. Certificate of Need - Waterbodies crossed by the Applicant's Preferred Route.**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	WI	Douglas	WI Section	Unnamed Stream/River Intermittent	Stream/River - Intermittent		None	None	NA	NA
APR	WI	Douglas	WI Section	Unnamed Stream/River Perennial	Stream/River - Perennial		None	None	NA	NA
APR	WI	Douglas	WI Section	Unnamed Stream/River Perennial	Stream/River - Perennial		None	None	NA	NA

Notes: Waterbody crossings determined using NHD GIS layers.

#### State-designated Use.

##### North Dakota (ND) (Chapter 33-16-02.1):

- Class I: suitable for the propagation or protection, or both, of resident fish species and other aquatic biota and for swimming, boating, and other water recreation; suitable for irrigation, stock watering, and wildlife without injurious effects. After treatment consisting of coagulation, settling, filtration, and chlorination, or equivalent treatment processes, the water quality shall meet the bacteriological, physical, and chemical requirements of the department for municipal or domestic use.
- Class 1A: The quality of the waters in this class shall be the same as the quality of class I streams, except that where natural conditions exceed class I criteria for municipal and domestic use, the availability of softening or other treatment methods may be considered in determining whether ambient water quality meets the drinking water requirements of the department.
- Class II: The quality of the waters in this class shall be the same as the quality of class I streams, except that additional treatment may be required to meet the drinking water requirements of the department. Streams in this classification may be intermittent in nature which would make these waters of limited value for beneficial uses such as municipal water, fish life, irrigation, bathing, or swimming.
- Class III: suitable for agricultural and industrial uses. Streams in this class generally have low average flows with prolonged periods of no flow. During periods of no flow, they are of limited value for recreation and fish and aquatic biota. The quality of these waters must be maintained to protect secondary contact recreation uses (e.g., wading), fish and aquatic biota, and wildlife uses.

Minnesota (MN): Minnesota Rule 7050.0470 lists the classifications of major waterbodies in the state. If a waterbody is not listed under 7050.0470 and is not a wetland, it is classified as a Class 2B, 3C, 4A, 4B, 5, and 6 water per Minnesota Rule 7050.0430.

- Class 1 – domestic consumption (i.e., drinking water);
- Class 2 – aquatic life and recreation;
- Class 3 – industrial or commercial use;
- Class 4 – agricultural use, irrigation (4A) and livestock and wildlife watering (4B);
- Class 5 – aesthetics and navigation;
- Class 6 – other uses and protection of border waters; and

- Class 7 – limited resource value waters.
- Minnesota Rule 7050.0222 further defines the water quality standards for the following subclasses of Class 2 waters:
- Class 2A – Coldwater fisheries, trout waters, suitable for all aquatic recreation and protected as a source of drinking water;
- Class 2Bd – Cold and warm water fisheries, suitable for all aquatic recreation and protected as a source of drinking water;
- Class 2B – Cold and warm water fisheries, suitable for all aquatic recreation but not protected for drinking water;
- Class 2C – Indigenous fish and associated aquatic community, suitable for boating but not protected for drinking water.

Wisconsin (WI): LFF – Limited forage fish communities. (Intermediate surface waters). This subcategory includes surface waters of limited capacity and naturally poor water quality or habitat. These surface waters are capable of supporting only a limited community of forage fish and other aquatic life (Chapter NR 102.04).

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**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	ND	Pembina	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 13.6	None	None
SA-04	ND	Pembina	Tongue River	Stream/River - Perennial	ND 12.1	II	None
SA-04	ND	Pembina	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 4.8	None	None
SA-04	ND	Pembina	Tongue River Cutoff	Stream/River - Intermittent	ND 9.2	II	303d-Listed Impaired
SA-04	ND	Pembina	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 14.8	None	None
SA-04	ND	Pembina	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 16.3	None	None
SA-04	ND	Pembina	County Drain Number 33	Stream/River - Perennial	ND 8.5	None	None
SA-04	ND	Pembina	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 7.5	None	None
SA-04	ND	Pembina	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 7.2	None	None
SA-04	ND	Pembina	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 15.7	None	None
SA-04	ND	Pembina	Pembina River	Artificial Path	ND 1.4	IA	303d-Listed Impaired, NRI-listed, USACE Navigable
SA-04	ND	Pembina	Pembina River	Artificial Path	ND 1.7	IA	303d-Listed Impaired, NRI-listed, USACE Navigable
SA-04	ND	Pembina	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 11.3	None	None
SA-04	ND	Pembina	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 11.7	None	None
SA-04	ND	Pembina	Unnamed Waterbody	Swamp/Marsh	ND 17.2	None	None
SA-04	ND	Pembina	Unnamed Waterbody	Lake/Pond - Perennial	ND 17.1	None	None
SA-04	ND	Pembina	Unnamed Waterbody	Lake/Pond - Perennial	ND 18.3	None	None
SA-04	ND	Pembina	Unnamed Waterbody	Lake/Pond - Perennial	ND 8.8	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 21.4	None	None
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 22.5	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 228.5	None	None
SA-04	ND	Richland	Wild Rice River	Artificial Path	ND 213	II	303d-Listed Impaired
SA-04	ND	Richland	Unnamed Waterbody	Swamp/Marsh	ND 194.4	None	None
SA-04	ND	Pembina	Unnamed Waterbody	Lake/Pond - Perennial	ND 28.1	None	None
SA-04	ND	Pembina	Unnamed Waterbody	Lake/Pond - Perennial	ND 29.2	None	None
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 23.6	None	None
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 23.6	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 231.6	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 227.9	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 214.4	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 232.9	None	None
SA-04	ND	Richland	Unnamed Canal Ditch	Canal Ditch	ND 223.9	None	None
SA-04	ND	Richland	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 213.7	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 228.3	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 230.3	None	None
SA-04	ND	Richland	Unnamed Canal Ditch	Canal Ditch	ND 225.6	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 219.5	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 189.2	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 184.4	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 197.3	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 208	None	None
SA-04	ND	Richland	South Branch Antelope Creek	Stream/River - Intermittent	ND 205.5	III	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 199.2	None	None
SA-04	ND	Richland	Pitcairn Creek	Stream/River - Intermittent	ND 192.9	None	None
SA-04	ND	Richland	Antelope Creek	Stream/River - Intermittent	ND 203.9	III	303d-Listed Impaired
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 185.2	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 205.4	None	None
SA-04	ND	Richland	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 183.6	None	None
SA-04	ND	Richland	Wild Rice River	Artificial Path	ND 185.6	II	303d-Listed Impaired
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 160.9	None	None
SA-04	ND	Cass	Wild Rice River	Stream/River - Perennial	ND 173.3	II	303d-Listed Impaired
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 147.7	None	None
SA-04	ND	Cass	Unnamed Artificial Path	Artificial Path	ND 167.5	None	303d-Listed Impaired
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 169	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 145.2	None	None
SA-04	ND	Cass	Lower Branch Rush River	Stream/River - Intermittent	ND 151.3	III	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 163.5	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 143.2	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 147.2	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	ND	Cass	Maple River	Stream/River - Perennial	ND 154.7	II	303d-Listed Impaired
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 172.1	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 175	None	None
SA-04	ND	Cass	Rush River	Stream/River - Perennial	ND 149.8	III	303d-Listed Impaired
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 150.8	None	None
SA-04	ND	Cass	Unnamed Stream/River Perennial	Stream/River - Perennial	ND 155.4	None	None
SA-04	ND	Traill	North Branch Elm River	Stream/River - Perennial	ND 126.2	II	303d-Listed Impaired
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 136.9	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 134.8	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 137.9	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 132.6	None	None
SA-04	ND	Traill	Goose River	Artificial Path	ND 120	IA	303d-Listed Impaired
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 140.1	None	None
SA-04	ND	Traill	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 129.5	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 135.8	None	None
SA-04	ND	Traill	Elm River	Artificial Path	ND 132.1	II	None
SA-04	ND	Traill	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 108.2	None	None
SA-04	ND	Traill	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 107.6	None	None
SA-04	ND	Traill	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 109.4	None	None
SA-04	ND	Traill	Buffalo Coulee	Stream/River - Intermittent	ND 109.6	None	None



**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	ND	Grand Forks	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 100	None	None
SA-04	ND	Grand Forks	Drain Number 4	Canal Ditch	ND 89.5	None	None
SA-04	ND	Traill	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 108.1	None	None
SA-04	ND	Grand Forks	Cole Creek	Stream/River - Intermittent	ND 96.9	None	303d-Listed Impaired
SA-04	ND	Traill	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 107.9	None	None
SA-04	ND	Grand Forks	Elm Coulee	Stream/River - Intermittent	ND 94.3	None	None
SA-04	ND	Grand Forks	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 75.1	None	None
SA-04	ND	Grand Forks	English Coulee	Stream/River - Intermittent	ND 84.5	None	None
SA-04	ND	Grand Forks	County Ditch Number 3	Canal Ditch	ND 65.9	None	None
SA-04	ND	Grand Forks	Unnamed Canal Ditch	Canal Ditch	ND 67.1	None	None
SA-04	ND	Grand Forks	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 73	None	None
SA-04	ND	Grand Forks	County Ditch Number 13	Canal Ditch	ND 64.1	None	None
SA-04	ND	Grand Forks	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 78.7	None	None
SA-04	ND	Grand Forks	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 82.5	None	None
SA-04	ND	Grand Forks	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 74.7	None	None
SA-04	ND	Grand Forks	Turtle River	Artificial Path	ND 69.1	II	303d-Listed Impaired
SA-04	ND	Walsh	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 40.4	None	None
SA-04	ND	Walsh	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 57.8	None	None
SA-04	ND	Walsh	Park River	Artificial Path	ND 43.3	II	303d-Listed Impaired
SA-04	ND	Walsh	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 39.4	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	ND	Walsh	Forest River	Stream/River - Perennial	ND 53.9	II	303d-Listed Impaired
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 37.4	None	None
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 24.6	None	None
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 27.7	None	None
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 28.7	None	None
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 25.7	None	None
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 26.7	None	None
SA-04	ND	Pembina	Unnamed Canal Ditch	Canal Ditch	ND 32.8	None	None
SA-04	ND	Richland	Unnamed Artificial Path	Artificial Path	ND 213.1	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 159.2	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 159.3	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 159.7	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 155.6	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 155.6	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 161.7	None	None
SA-04	ND	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 162	None	None
SA-04	ND	Traill	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 104.7	None	None
SA-04	ND	Traill	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 104.7	None	None
SA-04	ND	Traill	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 104.8	None	None
SA-04	ND	Grand Forks	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 100.3	None	None
SA-04	ND	Grand Forks	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 100.4	None	None
SA-04	ND	Grand Forks	Unnamed Stream/River Intermittent	Stream/River - Intermittent	ND 100.4	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 329.8	None	None
SA-04	MN	Kandiyohi	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 334.4	None	None
SA-04	MN	Nicollet	Unnamed Canal Ditch	Canal Ditch	MN 400.1	None	None
SA-04	MN	Waseca	Bull Run Creek	Stream/River - Intermittent	MN 432.8	2C	None
SA-04	MN	Freeborn	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 457	None	None
SA-04	MN	Renville	Judicial Ditch Number Fifteen	Canal Ditch	MN 353.1	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 335.4	None	None
SA-04	MN	Nicollet	Unnamed Connector	Connector	MN 406.1	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 262.9	None	None
SA-04	MN	Traverse	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 252.4	None	None
SA-04	MN	Chippewa	Shakopee Creek	Stream/River - Perennial	MN 314.5	2C	None
SA-04	MN	Sibley	Unnamed Canal Ditch	Canal Ditch	MN 377.9	None	None
SA-04	MN	Traverse	County Ditch Number Four	Canal Ditch	MN 242.8	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 287.5	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 279	None	None
SA-04	MN	Freeborn	County Ditch Number Twelve	Canal Ditch	MN 468.4	None	None
SA-04	MN	Stevens	Muddy Creek	Stream/River - Intermittent	MN 268.2	7	None
SA-04	MN	Traverse	Unnamed Canal Ditch	Canal Ditch	MN 250.2	None	None
SA-04	MN	Nicollet	Judicial Ditch Number Six	Canal Ditch	MN 386.7	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 311.8	None	None
SA-04	MN	Le Sueur	Minnesota River	Artificial Path	MN 406.6	2B, 2C	303d-Listed Impaired, NRI-listed, USACE Navigable

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	MN	Renville	Unnamed Canal Ditch	Canal Ditch	MN 346.7	None	None
SA-04	MN	Sibley	Middle Branch Rush River	Canal Ditch	MN 378.9	7	None
SA-04	MN	Chippewa	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 314.8	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 325	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 286.8	None	None
SA-04	MN	Chippewa	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 320.8	None	None
SA-04	MN	Waseca	Boot Creek	Stream/River - Perennial	MN 443.7	2C	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 307.4	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 288.9	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 340.6	None	None
SA-04	MN	Nicollet	Unnamed Canal Ditch	Canal Ditch	MN 400.8	None	None
SA-04	MN	Mower	Cedar River	Artificial Path	MN 478.6	2C, 3C	303d-Listed Impaired
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 442.3	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 271.1	None	None
SA-04	MN	Freeborn	Unnamed Canal Ditch	Canal Ditch	MN 467.5	None	None
SA-04	MN	Swift	Judicial Ditch Number Five	Stream/River - Intermittent	MN 299.6	None	None
SA-04	MN	Chippewa	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 318.7	None	None
SA-04	MN	Traverse	Unnamed Canal Ditch	Canal Ditch	MN 243.2	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 295.1	None	None
SA-04	MN	Le Sueur	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 407.3	None	None
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 440.7	None	None
SA-04	MN	Chippewa	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 315.7	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	MN	Traverse	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 247.8	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 279.4	None	None
SA-04	MN	Sibley	Unnamed Canal Ditch	Canal Ditch	MN 380.2	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 310.1	None	None
SA-04	MN	Freeborn	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 461.2	None	None
SA-04	MN	Freeborn	County Ditch Number Sixtythree	Canal Ditch	MN 454.8	None	None
SA-04	MN	Blue Earth	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 410.9	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 256.7	None	None
SA-04	MN	Renville	High Island Creek	Canal Ditch	MN 360.8	7	None
SA-04	MN	Renville	Unnamed Canal Ditch	Canal Ditch	MN 351.7	None	None
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 434.5	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 309.4	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 290.7	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 293.2	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 274	None	None
SA-04	MN	Nicollet	County Ditch Number Seventyeight	Canal Ditch	MN 395.4	None	None
SA-04	MN	Sibley	Unnamed Canal Ditch	Canal Ditch	MN 366	None	None
SA-04	MN	Waseca	Le Sueur River	Stream/River - Perennial	MN 427.9	2C	None
SA-04	MN	Sibley	County Ditch Number Thirtyone	Canal Ditch	MN 368.8	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 341.3	None	None
SA-04	MN	Renville	Unnamed Canal Ditch	Canal Ditch	MN 349.5	None	None
SA-04	MN	Blue Earth	Unnamed Canal Ditch	Canal Ditch	MN 421.5	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	MN	Kandiyohi	County Ditch Number Eight A	Canal Ditch	MN 335.1	None	None
SA-04	MN	Sibley	Unnamed Canal Ditch	Canal Ditch	MN 372.8	None	None
SA-04	MN	Swift	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 305.7	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 333.7	None	None
SA-04	MN	Traverse	Unnamed Canal Ditch	Canal Ditch	MN 243.8	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 261.7	None	None
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 443.2	None	None
SA-04	MN	Renville	Unnamed Canal Ditch	Canal Ditch	MN 357.7	None	None
SA-04	MN	Swift	Chippewa River	Artificial Path	MN 297.3	2B	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 309.1	None	None
SA-04	MN	Freeborn	Unnamed Canal Ditch	Canal Ditch	MN 468.3	None	None
SA-04	MN	Chippewa	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 315.8	None	None
SA-04	MN	Mower	Unnamed Canal Ditch	Canal Ditch	MN 482.2	None	None
SA-04	MN	Mower	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 480.1	None	None
SA-04	MN	Renville	Unnamed Canal Ditch	Canal Ditch	MN 346.3	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 331.2	None	None
SA-04	MN	Nicollet	Judicial Ditch Number One A	Canal Ditch	MN 390.7	None	None
SA-04	MN	Chippewa	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 319.9	None	None
SA-04	MN	Blue Earth	Unnamed Canal Ditch	Canal Ditch	MN 423.1	None	None
SA-04	MN	Sibley	Unnamed Canal Ditch	Canal Ditch	MN 376.4	None	None
SA-04	MN	Traverse	Unnamed Canal Ditch	Canal Ditch	MN 248.6	None	None
SA-04	MN	Nicollet	County Ditch Number Five	Canal Ditch	MN 396.8	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	MN	Traverse	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 248.9	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 263.5	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 291.8	None	None
SA-04	MN	Traverse	Mustinka River	Artificial Path	MN 241.9	2C	None
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 435.7	None	None
SA-04	MN	Swift	County Ditch Number Twentythree	Stream/River - Intermittent	MN 291.2	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 280.2	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 264	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 308.2	None	None
SA-04	MN	Traverse	Unnamed Canal Ditch	Canal Ditch	MN 251.4	None	None
SA-04	MN	Stevens	Pomme de Terre River	Artificial Path	MN 277.5	None	303d-Listed Impaired
SA-04	MN	Mower	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 480.9	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 337.5	None	None
SA-04	MN	Sibley	County Ditch Number Thirtyone	Canal Ditch	MN 369.5	None	None
SA-04	MN	Nicollet	Unnamed Canal Ditch	Canal Ditch	MN 388.2	None	None
SA-04	MN	Freeborn	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 452.3	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 331.9	None	None
SA-04	MN	Sibley	South Branch Rush River	Canal Ditch	MN 383.4	None	303d-Listed Impaired
SA-04	MN	Blue Earth	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 424.7	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 311.4	None	None
SA-04	MN	Blue Earth	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 413.5	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	MN	Traverse	County Drain Number Twentyseven	Canal Ditch	MN 240.1	None	None
SA-04	MN	Freeborn	Unnamed Canal Ditch	Canal Ditch	MN 467.1	None	None
SA-04	MN	Freeborn	Woodbury Creek	Canal Ditch	MN 472.7	2C	303d-Listed Impaired
SA-04	MN	Chippewa	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 321.4	None	None
SA-04	MN	Mower	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 483.6	None	None
SA-04	MN	Stevens	Twelvemile Creek	Stream/River - Intermittent	MN 258.4	2C	None
SA-04	MN	Kandiyohi	Hawk Creek	Canal Ditch	MN 327.2	7	None
SA-04	MN	Nicollet	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 406.3	None	None
SA-04	MN	Blue Earth	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 426.4	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 296.9	None	None
SA-04	MN	Chippewa	Unnamed Canal Ditch	Canal Ditch	MN 321.8	None	None
SA-04	MN	Chippewa	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 319	None	None
SA-04	MN	Renville	Unnamed Canal Ditch	Canal Ditch	MN 350.1	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 327.8	None	None
SA-04	MN	Sibley	Unnamed Canal Ditch	Canal Ditch	MN 365.1	None	None
SA-04	MN	Mower	Judicial Ditch Number Seventyseven	Canal Ditch	MN 477.8	None	None
SA-04	MN	Sibley	Unnamed Canal Ditch	Canal Ditch	MN 373.8	None	None
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 430.8	None	None
SA-04	MN	Swift	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 302.2	None	None
SA-04	MN	Freeborn	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 457.8	None	None
SA-04	MN	Traverse	Unnamed Canal Ditch	Canal Ditch	MN 245.3	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 260.7	None	None



**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 431.9	None	None
SA-04	MN	Renville	County Ditch Number Thirtythree	Canal Ditch	MN 359	None	None
SA-04	MN	Blue Earth	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 415.4	None	None
SA-04	MN	Kandiyohi	Unnamed Canal Ditch	Canal Ditch	MN 332.7	None	None
SA-04	MN	Sibley	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 368.3	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 287.1	None	None
SA-04	MN	Traverse	Unnamed Canal Ditch	Canal Ditch	MN 246.9	None	None
SA-04	MN	Mower	Otter Creek	Stream/River - Perennial	MN 484.2	2B, 3C	303d-Listed Impaired
SA-04	MN	Nicollet	Unnamed Canal Ditch	Canal Ditch	MN 399	None	None
SA-04	MN	Stevens	Unnamed Canal Ditch	Canal Ditch	MN 263.1	None	None
SA-04	MN	Traverse	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 244.4	None	None
SA-04	MN	Nicollet	Unnamed Canal Ditch	Canal Ditch	MN 389.4	None	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 287	None	None
SA-04	MN	Freeborn	Le Sueur River	Canal Ditch	MN 450.9	2C	None
SA-04	MN	Swift	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 293.6	None	None
SA-04	MN	Traverse	Unnamed Canal Ditch	Canal Ditch	MN 252.7	None	None
SA-04	MN	Traverse	Twelvemile Creek	Stream/River - Perennial	MN 247.5	2C	303d-Listed Impaired
SA-04	MN	Nicollet	County Ditch Number Thirteen A	Canal Ditch	MN 402.1	None	None
SA-04	MN	Swift	County Ditch Number Seven	Stream/River - Intermittent	MN 293.5	None	None
SA-04	MN	Sibley	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 384.8	None	None
SA-04	MN	Traverse	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 234.5	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	MN	Traverse	Bois de Sioux River	Artificial Path	MN 233.6	2C	303d-Listed Impaired, USACE Navigable
SA-04	MN	Freeborn	Unnamed Canal Ditch	Canal Ditch	MN 467.9	None	None
SA-04	MN	Freeborn	Unnamed Canal Ditch	Canal Ditch	MN 468	None	None
SA-04	MN	Freeborn	Unnamed Canal Ditch	Canal Ditch	MN 468.2	None	None
SA-04	MN	Blue Earth	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 408.9	None	None
SA-04	MN	Blue Earth	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 419	None	None
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 434.8	None	None
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 437.1	None	None
SA-04	MN	Waseca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 438.2	None	None
SA-04	MN	Traverse	Unnamed Canal Ditch	Canal Ditch	MN 254.8	None	None
SA-04	MN	Stevens	Unnamed Canal Ditch	Canal Ditch	MN 255.6	None	None
SA-04	MN	Blue Earth	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 419.7	None	None
SA-04	MN	Blue Earth	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 420.3	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 282.2	None	None
SA-04	MN	Stevens	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 285.5	None	None
SA-04	MN	Traverse	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 249.3	None	None
SA-04	MN	Traverse	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 249.3	None	None
SA-04	MN	Traverse	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 249.5	None	None
SA-04	MN	Traverse	Unnamed Waterbody	Lake/Pond - Perennial	MN 239.7	None	None
SA-04	MN	Swift	Unnamed Waterbody	Lake/Pond - Perennial	MN 298.3	None	None
SA-04	MN	Le Sueur	Unnamed Waterbody	Lake/Pond - Perennial	MN 407.9	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Howard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 514.3	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 627.6	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 627.8	None	None
SA-04	IA	Howard	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 511.1	None	None
SA-04	IA	Howard	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 511.3	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 582.6	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 582.7	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 582.7	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 555.9	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 646.3	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 646.5	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 646.6	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 485.5	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 485.8	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 486.8	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 487	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 487.4	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 664.3	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 664.6	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 633.2	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 633.7	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 587	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 587.3	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 515.7	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 516.1	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 615.4	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 615.8	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 670.7	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 527	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 590.2	None	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 572	None	None
SA-04	IA	Jones	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 602.2	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 622.4	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 527.4	None	None
SA-04	IA	Chickasaw	Elk Creek	Stream/River - Perennial	IA 518.6	A1, B (WW-2)	None
SA-04	IA	Jones	West Kitty Creek	Stream/River - Intermittent	IA 617.5	A1, B (WW-2)	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 488.4	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 506.7	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 489.7	None	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 578.4	None	None
SA-04	IA	Delaware	Todds Creek	Stream/River - Intermittent	IA 591.9	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 623.4	None	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 572.9	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Delaware	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 585.9	None	None
SA-04	IA	Jones	Mineral Creek	Stream/River - Perennial	IA 619.7	A3, B (WW-2)	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 576.4	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 551.5	None	None
SA-04	IA	Chickasaw	Marsh Creek	Stream/River - Perennial	IA 538.8	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 523.8	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 547.6	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 557.6	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 533.9	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 589.3	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 629.1	None	None
SA-04	IA	Jones	Bryan Creek	Stream/River - Perennial	IA 631.7	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 607.2	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 563.4	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 643.4	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 591	None	None
SA-04	IA	Fayette	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 545.8	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 507.6	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 630.7	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 602.5	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 652.1	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 651.2	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 575.1	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 600.1	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 549.3	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 515.3	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 559.6	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 557.1	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 656.2	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 654.7	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 583.7	None	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 580.4	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 536.9	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 491.3	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 607.4	None	None
SA-04	IA	Clinton	Calamus Creek	Stream/River - Perennial	IA 647.9	A1, B (WW-2)	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 535.5	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 543.6	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 548.5	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 618	None	None
SA-04	IA	Jones	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 610.4	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 524.3	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 595	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 551.5	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 665.4	None	None
SA-04	IA	Jones	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 615	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 539.3	None	None
SA-04	IA	Bremer	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 544.8	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 655.4	None	None
SA-04	IA	Delaware	Sand Creek	Stream/River - Perennial	IA 588.6	A1, B (WW-2)	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 517.6	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 503.9	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 636.3	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 613.2	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 504.5	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 644.2	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 523.3	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 516.9	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 612.3	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 630.1	None	None
SA-04	IA	Clinton	Brophy Creek	Stream/River - Perennial	IA 664.1	A1, B (WW-2)	303d-Listed Impaired
SA-04	IA	Jones	Deer Creek	Stream/River - Perennial	IA 608.4	A1, B (WW-2)	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 527.8	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 556.3	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 525.3	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 633.1	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 646.6	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 660.7	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 603.4	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 530.3	None	None
SA-04	IA	Howard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 512.2	None	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 574.1	None	None
SA-04	IA	Bremer	Little Wapsipinicon River	Stream/River - Perennial	IA 544.2	A1, B (WW-2)	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 609.5	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 547.6	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 548.7	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 541.1	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 540	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 541.9	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 596.5	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 537.2	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 564.3	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 531.8	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 533	None	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 502.3	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 626.7	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 550.8	None	None



**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 663.3	None	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 570.7	None	None
SA-04	IA	Chickasaw	Plum Creek	Stream/River - Perennial	IA 531.1	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 602.2	None	None
SA-04	IA	Howard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 514.7	None	None
SA-04	IA	Fayette	Stoe Creek	Stream/River - Perennial	IA 553.5	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 587.5	None	None
SA-04	IA	Fayette	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 559.7	None	None
SA-04	IA	Delaware	Unnamed Artificial Path	Artificial Path	IA 583.9	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 604.5	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 528.4	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 563.8	None	None
SA-04	IA	Chickasaw	Little Wapsipinicon River	Stream/River - Perennial	IA 516.3	A2, B (WW-2)	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 614.3	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 628.3	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 517.2	None	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 571.4	None	None
SA-04	IA	Fayette	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 550.3	None	None
SA-04	IA	Mitchell	Little Cedar River	Artificial Path	IA 501.9	A1, B (WW-1)	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 517.8	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 654.3	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Buchanan	Prairie Creek	Stream/River - Intermittent	IA 576.6	A1, B (WW-2)	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 577.5	None	None
SA-04	IA	Howard	Wapsipinicon River	Artificial Path	IA 510.4	A1, B (WW-1)	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 616.6	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 558.6	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 534.3	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 662.7	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 622	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 661.5	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 591.9	None	None
SA-04	IA	Delaware	Prairie Creek	Artificial Path	IA 584	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 524.5	None	None
SA-04	IA	Howard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 512.6	None	None
SA-04	IA	Jones	Kitty Creek	Stream/River - Perennial	IA 611.6	A1, B (WW-2)	None
SA-04	IA	Clinton	Ames Creek	Stream/River - Perennial	IA 658.9	A1, B (WW-2)	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 640.6	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 595.3	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 565.8	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 637.4	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 526.8	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Buchanan	East Branch Buffalo Creek	Stream/River - Perennial	IA 571.1	A1, B(WW-2)	303d-Listed Impaired
SA-04	IA	Jones	Bear Creek	Stream/River - Perennial	IA 625.7	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 542.7	None	None
SA-04	IA	Delaware	Grove Creek	Stream/River - Intermittent	IA 600.9	None	None
SA-04	IA	Clinton	Silver Creek	Stream/River - Perennial	IA 656.9	A2, B (WW-2)	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 629.5	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 581.7	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 619.9	None	None
SA-04	IA	Jones	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 628.8	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 581.7	None	None
SA-04	IA	Delaware	Lime Creek	Stream/River - Perennial	IA 599.1	A2, B(WW-2)	None
SA-04	IA	Mitchell	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 493	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 522.4	None	None
SA-04	IA	Chickasaw	East Fork Wapsipinicon River	Stream/River - Perennial	IA 520.7	A1, B (WW-1)	None
SA-04	IA	Chickasaw	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 526.2	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 618.8	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 624.9	None	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 573.6	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 521.8	None	None
SA-04	IA	Buchanan	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 575	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 608.1	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 603.8	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 556.1	None	None
SA-04	IA	Chickasaw	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 529.5	None	None
SA-04	IA	Howard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 514.5	None	None
SA-04	IA	Fayette	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 551.9	None	None
SA-04	IA	Delaware	Golden Branch	Stream/River - Intermittent	IA 594.3	None	None
SA-04	IA	Fayette	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 559.9	None	None
SA-04	IA	Delaware	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 585.8	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 639.7	None	None
SA-04	IA	Jones	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 606.3	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 644.5	None	None
SA-04	IA	Clinton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IA 655	None	None
SA-04	IA	Mitchell	Turtle Creek	Stream/River - Intermittent	IA 490.1	A1, A2, B(CW1), HH	None
SA-04	IA	Jones	Little Bear Creek	Stream/River - Intermittent	IA 622.1	None	None
SA-04	IA	Jones	Silver Creek	Stream/River - Perennial	IA 605.1	None	None
SA-04	IA	Delaware	Buck Creek	Stream/River - Perennial	IA 596.8	A1, B (WW-2)	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 649.5	None	None
SA-04	IA	Clinton	Unnamed Stream/River Perennial	Stream/River - Perennial	IA 643.4	None	None
SA-04	IA	Clinton	Rock Creek	Artificial Path	IA 670.9	None	None
SA-04	IA	Jones	Unnamed Waterbody	Lake/Pond - Intermittent	IA 631	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IA	Clinton	Unnamed Waterbody	Lake/Pond - Perennial	IA 657.4	None	None
SA-04	IA	Clinton	Unnamed Waterbody	Swamp/Marsh	IA 657.4	None	None
SA-04	IA	Clinton	Unnamed Waterbody	Swamp/Marsh	IA 657.4	None	None
SA-04	IA	Clinton	Unnamed Waterbody	Swamp/Marsh	IA 657.6	None	None
SA-04	IA	Clinton	Unnamed Waterbody	Swamp/Marsh	IA 659	None	None
SA-04	IA	Jones	Unnamed Waterbody	Lake/Pond - Intermittent	IA 605.1	None	None
SA-04	IA	Jones	Unnamed Waterbody	Lake/Pond - Perennial	IA 602.2	None	None
SA-04	IA	Clinton	Unnamed Waterbody	Lake/Pond - Intermittent	IA 647.2	None	None
SA-04	IA	Clinton	Unnamed Waterbody	Lake/Pond - Intermittent	IA 671.8	None	None
SA-04	IA	Delaware	Unnamed Waterbody	Lake/Pond - Perennial	IA 583.9	None	None
SA-04	IA	Clinton	Unnamed Waterbody	Lake/Pond - Perennial	IA 671.1	None	None
SA-04	IL	Clinton	Mississippi River	Artificial Path	IA 672.3	None	303d-listed Impaired, USACE Navigable
SA-04	IL	Rock Island	Unnamed Artificial Path	Artificial Path	IL 672.5	None	None
SA-04	IL	Rock Island	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 676.6	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 677.3	None	None
SA-04	IL	Rock Island	Unnamed Artificial Path	Artificial Path	IL 677.3	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 677.4	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 677.9	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 678.1	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 678.4	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 679.5	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IL	Whiteside	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 679.9	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 680.3	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 681.8	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 682.6	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 683.8	None	None
SA-04	IL	Whiteside	Mineral Spring Creek	Stream/River - Intermittent	IL 685.1	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 686.5	None	None
SA-04	IL	Whiteside	Rock Creek	Artificial Path	IL 688.8	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 690.1	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 690.4	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 690.9	None	None
SA-04	IL	Whiteside	Unnamed Waterbody	Swamp/Marsh	IL 691.3	None	None
SA-04	IL	Whiteside	Unnamed Artificial Path	Artificial Path	IL 691.7	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 692.4	None	None
SA-04	IL	Whiteside	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 692.6	None	None
SA-04	IL	Whiteside	Rock River	Artificial Path	IL 694.5	None	303d-listed Impaired, USACE Navigable, NRI-listed
SA-04	IL	Whiteside	Unnamed Canal Ditch	Canal Ditch	IL 700.4	None	None
SA-04	IL	Whiteside	Coon Creek	Artificial Path	IL 701.2	None	None
SA-04	IL	Whiteside	Unnamed Artificial Path	Artificial Path	IL 704.8	None	None
SA-04	IL	Whiteside	Main Ditch	Canal Ditch	IL 708.3	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IL	Lee	Green River	Artificial Path	IL 712.3	None	303d-listed Impaired, USACE Navigable
SA-04	IL	Lee	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 715.1	None	None
SA-04	IL	Lee	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 715.1	None	None
SA-04	IL	Lee	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 716.6	None	None
SA-04	IL	Lee	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 717.1	None	None
SA-04	IL	Lee	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 719.4	None	None
SA-04	IL	Lee	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 719.8	None	None
SA-04	IL	Lee	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 720.3	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 721	None	None
SA-04	IL	Bureau	Walnut Creek	Stream/River - Intermittent	IL 721.8	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 723	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 723.3	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 723.7	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 724	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 724.3	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 724.4	None	None
SA-04	IL	Bureau	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 725.9	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 726.9	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 727.1	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 727.4	None	None
SA-04	IL	Bureau	Masters Fork	Stream/River - Perennial	IL 727.7	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 727.9	None	None
SA-04	IL	Bureau	Unnamed Stream/River Perennial	Stream/River - Perennial	IL 729.5	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 731.2	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 731.5	None	None
SA-04	IL	Bureau	Big Bureau Creek	Stream/River - Perennial	IL 731.9	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 733.2	None	None
SA-04	IL	Bureau	Pike Creek	Stream/River - Perennial	IL 733.5	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 734.4	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 736.7	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 736.9	None	None
SA-04	IL	Bureau	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 737.8	None	None
SA-04	IL	Bureau	Brush Creek	Stream/River - Intermittent	IL 738.4	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 739.8	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 739.8	None	None
SA-04	IL	LaSalle	Spring Creek	Stream/River - Perennial	IL 740.5	None	None
SA-04	IL	LaSalle	Little Vermilion River	Stream/River - Perennial	IL 744.5	None	None
SA-04	IL	LaSalle	Unnamed Waterbody	Swamp/Marsh	IL 745.8	None	None
SA-04	IL	LaSalle	Unnamed Waterbody	Swamp/Marsh	IL 745.9	None	None
SA-04	IL	LaSalle	Vermilion Creek	Stream/River - Perennial	IL 746	None	None
SA-04	IL	LaSalle	Tomahawk Creek	Canal Ditch	IL 747.6	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 749.3	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 753.1	None	None



**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IL	LaSalle	Crookedleg Creek	Stream/River - Perennial	IL 756.3	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 758.4	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 759.6	None	None
SA-04	IL	LaSalle	Indian Creek	Artificial Path	IL 759.9	None	NRI
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 761.8	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 762.4	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 762.7	None	None
SA-04	IL	LaSalle	Fox River	Artificial Path	IL 763.3	None	303d-listed Impaired, USACE Navigable
SA-04	IL	LaSalle	Brumbach Creek	Stream/River - Intermittent	IL 763.8	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Lake/Pond - Perennial	IL 763.8	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 763.9	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 764.7	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 765.2	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 765.8	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 766	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 766.4	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 766.7	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 767.4	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 767.4	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 769.1	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 769.8	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 770.2	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 770.3	None	None
SA-04	IL	LaSalle	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 770.5	None	None
SA-04	IL	Gundy	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 771.5	None	None
SA-04	IL	Gundy	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 773.3	None	None
SA-04	IL	Gundy	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 773.5	None	None
SA-04	IL	Gundy	East Fork Nettle Creek	Stream/River - Intermittent	IL 776.3	None	None
SA-04	IL	Gundy	East Fork Nettle Creek	Stream/River - Intermittent	IL 778.5	None	None
SA-04	IL	Gundy	East Fork Nettle Creek	Stream/River - Intermittent	IL 778.5	None	None
SA-04	IL	Gundy	Saratoga Creek	Stream/River - Intermittent	IL 781.3	None	None
SA-04	IL	Gundy	Saratoga Creek	Stream/River - Intermittent	IL 781.3	None	None
SA-04	IL	Gundy	Saratoga Creek	Stream/River - Intermittent	IL 781.3	None	None
SA-04	IL	Gundy	Saratoga Creek	Stream/River - Intermittent	IL 781.6	None	None
SA-04	IL	Gundy	Saratoga Creek	Stream/River - Intermittent	IL 781.7	None	None
SA-04	IL	Gundy	Saratoga Creek	Stream/River - Intermittent	IL 781.9	None	None
SA-04	IL	Gundy	Saratoga Creek	Stream/River - Intermittent	IL 782	None	None
SA-04	IL	Gundy	Saratoga Creek	Stream/River - Intermittent	IL 782	None	None
SA-04	IL	Gundy	Aux Sable Creek	Artificial Path	IL 784.6	None	303d-listed Impaired
SA-04	IL	Gundy	Aux Sable Creek	Artificial Path	IL 784.7	None	303d-listed Impaired
SA-04	IL	Gundy	Aux Sable Creek	Artificial Path	IL 784.8	None	303d-listed Impaired
SA-04	IL	Gundy	Unnamed Stream/River Intermittent	Swamp/Marsh	IL 787.4	None	None

**Table G-2. Certificate of Need - Waterbodies Crossed by the SA-04 System Alternative Route**

Name	State	County	Waterbody Name	Waterbody Type/Flow	State Milepost	State-Designated Use	Agency Classification
SA-04	IL	Gundy	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 787.5	None	None
SA-04	IL	Gundy	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 788.3	None	None
SA-04	IL	Will	Des Plaines River	Artificial Path	IL 792.2	None	303d-listed Impaired, USACE Navigable
SA-04	IL	Will	Unnamed Stream/River Intermittent	Artificial Path	IL 792.8	None	None
SA-04	IL	Will	Unnamed Stream/River Intermittent	Stream/River - Intermittent	IL 793.1	None	None

Waterbody crossing methods for the SA-04 route have not been determined.

#### State Designated Use

##### North Dakota (ND) (Century Code 33.16.02.1):

- Class I: suitable for the propagation or protection, or both, of resident fish species and other aquatic biota and for swimming, boating, and other water recreation; suitable for irrigation, stock watering, and wildlife without injurious effects. After treatment consisting of coagulation, settling, filtration, and chlorination, or equivalent treatment processes, the water quality shall meet the bacteriological, physical, and chemical requirements of the department for municipal or domestic use.
- Class 1A: The quality of the waters in this class shall be the same as the quality of class I streams, except that where natural conditions exceed class I criteria for municipal and domestic use, the availability of softening or other treatment methods may be considered in determining whether ambient water quality meets the drinking water requirements of the department.
- Class II: The quality of the waters in this class shall be the same as the quality of class I streams, except that additional treatment may be required to meet the drinking water requirements of the department. Streams in this classification may be intermittent in nature which would make these waters of limited value for beneficial uses such as municipal water, fish life, irrigation, bathing, or swimming.
- Class III: suitable for agricultural and industrial uses. Streams in this class generally have low average flows with prolonged periods of no flow. During periods of no flow, they are of limited value for recreation and fish and aquatic biota. The quality of these waters must be maintained to protect secondary contact recreation uses (e.g., wading), fish and aquatic biota, and wildlife uses.

Minnesota (MN): Minnesota Rule 7050.0470 lists the classifications of major waterbodies in the state. If a waterbody is not listed under 7050.0470 and is not a wetland, it is classified as a Class 2B, 3C, 4A, 4B, 5, and 6 water per Minnesota Rule 7050.0430.

- Class 1 – domestic consumption (i.e., drinking water);
- Class 2 – aquatic life and recreation;
- Class 3 – industrial or commercial use;
- Class 4 – agricultural use, irrigation (4A) and livestock and wildlife watering (4B);
- Class 5 – aesthetics and navigation;
- Class 6 – other uses and protection of border waters; and
- Class 7 – limited resource value waters.

- Minnesota Rule 7050.0222 further defines the water quality standards for the following subclasses of Class 2 waters:
  - Class 2A – Coldwater fisheries, trout waters, suitable for all aquatic recreation and protected as a source of drinking water;
  - Class 2Bd – Cold and warm water fisheries, suitable for all aquatic recreation and protected as a source of drinking water;
  - Class 2B – Cold and warm water fisheries, suitable for all aquatic recreation but not protected for drinking water;
  - Class 2C – Indigenous fish and associated aquatic community, suitable for boating but not protected for drinking water.

Iowa (IA) (Administrative Code 61.3(455B):

- Primary contact recreational use (Class “A1”). Waters in which recreational or other uses may result in prolonged and direct contact with the water, involving considerable risk of ingesting water in quantities sufficient to pose a health hazard. Such activities would include, but not be limited to, swimming, diving, water skiing, and water contact recreational canoeing.
- Secondary contact recreational use (Class “A2”). Waters in which recreational or other uses may result in contact with the water that is either incidental or accidental. During the recreational use, the probability of ingesting appreciable quantities of water is minimal. Class A2 uses include fishing, commercial and recreational boating, any limited contact incidental to shoreline activities and activities in which users do not swim or float in the water body while on a boating activity.
- Children’s recreational use (Class “A3”). Waters in which recreational uses by children are common. Class A3 waters are water bodies having definite banks and bed with visible evidence of the flow or occurrence of water. This type of use would primarily occur in urban or residential areas.
- Cold water aquatic life—Type 1 (Class “B(CW1)”). Waters in which the temperature and flow are suitable for the maintenance of a variety of cold water species, including reproducing and nonreproducing populations of trout (Salmonidae family) and associated aquatic communities.
- Cold water aquatic life—Type 2 (Class “B(CW2)”). Waters that include small, channeled streams, headwaters, and spring runs that possess natural cold water attributes of temperature and flow. These waters usually do not support consistent populations of trout (Salmonidae family), but may support associated vertebrate and invertebrate organisms.
- Warm water—Type 1 (Class “B(WW-1)”). Waters in which temperature, flow and other habitat characteristics are suitable to maintain warm water game fish populations along with a resident aquatic community that includes a variety of native nongame fish and invertebrate species. These waters generally include border rivers, large interior rivers, and the lower segments of medium-size tributary streams.
- Warm water—Type 2 (Class “B(WW-2)”). Waters in which flow or other physical characteristics are capable of supporting a resident aquatic community that includes a variety of native nongame fish and invertebrate species. The flow and other physical characteristics limit the maintenance of warm water game fish populations. These waters generally consist of small perennially flowing streams.
- Human health (Class “HH”). Waters in which fish are routinely harvested for human consumption or waters both designated as a drinking water supply and in which fish are routinely harvested for human consumption.

IL (IL): No waterbodies crossed by the SA-04 route are designated per IL Administrative Code Par 303.

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Kittson	ND Border to Clearbrook	Red River of the North	Artificial Path	ND 27.6	1C, 2Bd,3C	303d-Listed Impaired, USACE Navigable	HDD	None
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 31.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 35.8	None	None	Bore	Wet Open Cut
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 35.9	None	None	Bore	Wet Open Cut
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 37.3	None	None	Bore	Dry Crossing
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 38.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 39.9	None	None	Bore	Dry Crossing
APR	MN	Kittson	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 41.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 43	None	None	Bore	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 44.9	1C, 2Bd, 3C	None	NA	NA
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 47	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 49.6	None	None	NA	NA
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 51.8	None	None	Dry Crossing	Wet Open Cut

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 52.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Tamarac River	Stream/River - Perennial	MN 54.4	1C, 2Bd, 3C	303d-Listed Impaired	HDD	Dry Crossing
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 57.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 57.6	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 57.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 57.8	None	None	NA	NA
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 59.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 60.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Middle River	Stream/River - Perennial	MN 62.3	2B, 3C	303d-Listed Impaired, NRI-listed	HDD	Dry Crossing
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 64.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 65.6	None	None	NA	NA

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 69.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Marshall	ND Border to Clearbrook	Snake River	Stream/River - Perennial	MN 70.5	2B, 3C	None	HDD	Dry Crossing
APR	MN	Marshall	ND Border to Clearbrook	South Branch Snake River	Stream/River - Intermittent	MN 74.7	2B, 3C	None	Wet Open Cut	Dry Crossing
APR	MN	Marshall	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 75.2	None	None	Bore	Dry Crossing
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 80.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 82.6	None	303d-Listed Impaired	Wet open cut	Dry Crossing
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 84.8	None	None	NA	NA
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 86.3	None	None	Bore	Dry Crossing
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 87.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Waterbody	Lake/Pond - Perennial	MN 88.2	None	None	NA	NA
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 89.3	None	None	Bore	Dry Crossing
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 91.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Red Lake River	Artificial Path	MN 91.9	1C, 2Bd, 3C	NRI-listed, USACE Navigable	HDD	Dry Crossing

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 92.3	None	None	HDD	None
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 93.8	None	None	NA	NA
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 94.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 95.6	None	None	NA	NA
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 97.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Pennington	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 97.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 98.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 99.6	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 99.8	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 100	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 101.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Clearwater River	Artificial Path	MN 103	2B, 3C	303d-Listed Impaired	HDD	Dry Crossing
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 107.9	None	None	NA	NA



**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 109	None	None	NA	NA
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 112.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Lost River	Artificial Path	MN 113.5	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Red Lake	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 114.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Polk	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 115.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Polk	ND Border to Clearbrook	State Ditch Number Sixtyone	Canal Ditch	MN 117.4	None	None	Wet Open Cut	Dry Crossing
APR	MN	Polk	ND Border to Clearbrook	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 117.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Polk	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 118.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Polk	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 121.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Polk	ND Border to Clearbrook	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 122.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Polk	ND Border to Clearbrook	Unnamed Canal Ditch	Canal Ditch	MN 123	None	None	NA	NA
APR	MN	Polk	ND Border to Clearbrook	Unnamed Waterbody	Lake/Pond - Perennial	MN 127.4	None	None	NA	NA
APR	MN	Polk	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 128.4	None	None	NA	NA

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 129	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 129.3	None	None	NA	NA
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 129.5	None	None	NA	NA
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 129.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 130.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 131.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 131.7	None	None	NA	NA
APR	MN	Clearwater	ND Border to Clearbrook	Lost River	Stream/River - Perennial	MN 132.2	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Connector	Connector	MN 133.9	None	None	NA	NA
APR	MN	Clearwater	ND Border to Clearbrook	Silver Creek	Stream/River - Perennial	MN 135.3	2B, 3C	303d-Listed Impaired	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Silver Creek	Stream/River - Perennial	MN 135.6	2B, 3C	303d-Listed Impaired	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Silver Creek	Stream/River - Perennial	MN 135.9	2B, 3C	303d-Listed Impaired	Dry Crossing	Wet Open Cut

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 137	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 137.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 137.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	ND Border to Clearbrook	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 137.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 138.1	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 138.2	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 138.8	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 141.2	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 144.3	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 146.3	None	None	NA	NA

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 146.9	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 147.9	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 148.9	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Clearwater River	Artificial Path	MN 149.5	2B, 3C	303d-Listed Impaired, NRI-listed	HDD	Open cut
APR	MN	Clearwater	Clearbrook to Carlton	Walker Brook	Stream/River - Perennial	MN 151.4	None	303d-Listed Impaired	Wet Open Cut	None
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 152.6	None	None	Dry Crossing	Wet Open Cut
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 154.4	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 154.7	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 155.1	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 156.4	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 163.5	None	None	NA	NA
APR	MN	Clearwater	Clearbrook to Carlton	Bear Creek	Stream/River - Perennial	MN 164.2	None	None	Dry Crossing	Wet Open Cut

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Clearwater	Clearbrook to Carlton	Mississippi River	Stream/River - Perennial	MN 165.1	2B, 3C	303d-Listed Impaired	HDD	Open Cut
APR	MN	Clearwater	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 169.9	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	LaSalle Creek	Stream/River - Perennial	MN 170.1	2C	Trout stream	Dry Crossing	Wet Open Cut
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 177.6	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 185.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 186.3	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 186.4	None	None	Dry Crossing	Open Cut
APR	MN	Hubbard	Clearbrook to Carlton	Hay Creek	Artificial Path	MN 187.8	2B, 3C	None	HDD	Open cut
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 189.4	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 191.2	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Straight River	Artificial Path	MN 198.3	1B, 2A, 3B	Trout stream	HDD	Open cut
APR	MN	Hubbard	Clearbrook to Carlton	Shell River	Stream/River - Perennial	MN 200.7	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Hubbard	Clearbrook to Carlton	Shell River	Stream/River - Perennial	MN 205.5	2B, 3C	None	Dry Crossing	Wet Open Cut

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Hubbard	Clearbrook to Carlton	Shell River	Artificial Path	MN 207.8	2B, 3C	None	HDD	Open cut
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed artificial Path	Artificial Path	MN 209.2	None	None	NA	NA
APR	MN	Hubbard	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 209.5	None	None	HDD	Open cut
APR	MN	Hubbard	Clearbrook to Carlton	Shell River	Artificial Path	MN 209.5	None	NRI-listed	NA	NA
APR	MN	Wadena	Clearbrook to Carlton	Shell River	Artificial Path	MN 215.3	2B, 3C	NRI-listed	HDD	Open cut
APR	MN	Wadena	Clearbrook to Carlton	Crow Wing River	Artificial Path	MN 217.4	2B, 3C	NRI-listed	HDD	Wet Open Cut
APR	MN	Wadena	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 220.2	None	None	Wet Open Cut	Dry Crossing
APR	MN	Wadena	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 220.2	None	None	Wet Open Cut	Dry Crossing
APR	MN	Cass	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 223.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Big Swamp Creek	Canal Ditch	MN 224.6	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 225.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 226.9	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 227	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 229.5	None	None	NA	NA

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 230.7	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 231.7	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	South Fork Pine River	Stream/River - Perennial	MN 232.6	2B, 3C	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Pine River	Artificial Path	MN 241.4	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Crow Wing	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 244.3	None	None	NA	NA
APR	MN	Crow Wing	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 245.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Crow Wing	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 246.6	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Blind Lake Creek	Stream/River - Perennial	MN 250.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 253.1	None	None	NA	NA
APR	MN	Cass	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 257.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Daggett Brook	Stream/River - Perennial	MN 261.4	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Spring Branch	Stream/River - Perennial	MN 265.3	1B, 2A, 3B	Trout stream	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Unnamed Connector	Connector	MN 269.8	None	None	Dry Crossing	Wet Open Cut

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Cass	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 270.6	None	None	Dry Crossing	Wet Open Cut
APR	MN	Cass	Clearbrook to Carlton	Moose River	Stream/River - Perennial	MN 272.1	1B, 2Bd, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Connector	Connector	MN 275.5	None	None	NA	NA
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 277.4	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 279.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	White Elk Creek	Stream/River - Perennial	MN 283.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 286.2	None	None	NA	NA
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 290.7	None	None	NA	NA
APR	MN	Aitkin	Clearbrook to Carlton	White Elk Creek	Stream/River - Intermittent	MN 291.2	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Willow River	Stream/River - Perennial	MN 292.8	2C	NRI-listed	HDD	Open cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 295.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Mississippi River	Artificial Path	MN 296.7	2B, 3C	303d-Listed Impaired, USACE Navigable	HDD	Open cut



**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 298.3	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 299	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 299.1	None	None	NA	NA
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 301.9	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 302.3	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 303.6	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Sandy River	Artificial Path	MN 305.9	2B, 3C	USACE Navigable	HDD	Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 308	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 308.2	None	None	Wet Open Cut	Dry Crossing
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 309.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 310.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Sandy River	Canal Ditch	MN 312.8	2B, 3C	None	HDD	Open cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 314.1	None	None	NA	NA

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 318.9	None	None	Dry Crossing	Wet Open Cut
APR	MN	Aitkin	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 320.8	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	West Branch Kettle River	Stream/River - Perennial	MN 328.4	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 333.7	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 333.7	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 333.8	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 333.8	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Heikkila Creek	Stream/River - Perennial	MN 334.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 335.3	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Canal Ditch	Canal Ditch	MN 337.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Kettle River	Canal Ditch	MN 338.2	2B, 3C	303d-Listed Impaired, USACE Navigable	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 341.1	None	None	Wet Open Cut	Dry Crossing

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Carlton	Clearbrook to Carlton	West Fork Moose Horn River	Stream/River - Perennial	MN 342.7	2B, 3C	None	Wet Open Cut	Dry Crossing
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 343.5	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	King Creek	Stream/River - Intermittent	MN 344.2	1B, 2A, 3B	Trout stream	Wet Open Cut	Dry Crossing
APR	MN	Carlton	Clearbrook to Carlton	Park Lake Creek	Stream/River - Perennial	MN 346.7	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 347.1	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Moose Horn River	Stream/River - Perennial	MN 347.6	2B, 3C	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 349	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Blackhoof River	Stream/River - Perennial	MN 352.1	1B, 2A, 3B	Trout stream	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 352.3	None	Trout stream	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 353.7	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Connector	Connector	MN 354.4	None	None	NA	NA
APR	MN	Carlton	Clearbrook to Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 356.6	None	None	NA	NA
APR	MN	Carlton	Carlton to WI Border	Unnamed Waterbody	Lake/Pond - Perennial	MN 359.5	None	None	NA	NA

**Table G-3. Route Permit - Waterbodies crossed by the Applicant's Preferred Route (in Minnesota)**

Route	State	County	Section	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 362.3	None	None	NA	NA
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 363.3	None	None	Dry Crossing	Wet Open Cut
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 364.7	None	None	Wet Open Cut	Dry Crossing
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 365.1	None	None	Wet Open Cut	Dry Crossing
APR	MN	Carlton	Carlton to WI Border	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 365.4	None	None	Wet Open Cut	Dry Crossing

Notes: Waterbody crossings determined using NHD GIS layers.

State-designated Use.

Minnesota (MN): Minnesota Rule 7050.0470 lists the classifications of major waterbodies in the state. If a waterbody is not listed under 7050.0470 and is not a wetland, it is classified as a Class 2B, 3C, 4A, 4B, 5, and 6 water per Minnesota Rule 7050.0430.

- Class 1 – domestic consumption (i.e., drinking water);
- Class 2 – aquatic life and recreation;
- Class 3 – industrial or commercial use;
- Class 4 – agricultural use, irrigation (4A) and livestock and wildlife watering (4B);
- Class 5 – aesthetics and navigation;
- Class 6 – other uses and protection of border waters; and
- Class 7 – limited resource value waters.
- Minnesota Rule 7050.0222 further defines the water quality standards for the following subclasses of Class 2 waters:
  - Class 2A – Coldwater fisheries, trout waters, suitable for all aquatic recreation and protected as a source of drinking water;
  - Class 2Bd – Cold and warm water fisheries, suitable for all aquatic recreation and protected as a source of drinking water;
  - Class 2B – Cold and warm water fisheries, suitable for all aquatic recreation but not protected for drinking water;
  - Class 2C – Indigenous fish and associated aquatic community, suitable for boating but not protected for drinking water.

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Clearwater	Unnamed Waterbody	Lake/Pond - Perennial	MN 139.6	None	None	NA	NA
RA-06	Clearwater	Ruffy Brook	Stream/River - Perennial	MN 140.5	2B, 3C (assessed NW of the crossing location)	303d-Listed Impaired	NA	NA
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 141.2	None	None	NA	NA
RA-08	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 141.4	None	None	NA	NA
RA-07	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 141.5	None	None	NA	NA
RA-07	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 141.8	None	None	NA	NA
RA-08	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 141.8	None	None	NA	NA
RA-06	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 141.9	None	None	NA	NA
RA-08	Clearwater	Unnamed Waterbody	Lake/Pond - Perennial	MN 142	None	None	NA	NA
RA-07	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 142.8	None	None	NA	NA
RA-07	Clearwater	Ruffy Brook	Stream/River - Perennial	MN 143.1	2B, 3C (assessed NW of the crossing location)	303d-Listed Impaired	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 143.5	None	None	NA	NA
RA-08	Clearwater	Ruffy Brook	Connector	MN 144.1	2B, 3C (assessed NW of the crossing location)	303d-Listed Impaired	NA	NA
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 144.3	None	None	NA	NA
RA-08	Clearwater	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 144.3	None	None	NA	NA
RA-08	Clearwater	Ruffy Brook	Stream/River - Perennial	MN 144.3	2B, 3C (assessed NW of the crossing location)	303d-Listed Impaired	NA	NA
RA-06	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 144.7	None	None	NA	NA
RA-07	Clearwater	Unnamed Waterbody	Lake/Pond - Perennial	MN 145.3	None	None	NA	NA
RA-07	Clearwater	West Four Legged Lake	Lake/Pond - Perennial	MN 145.5	None	None	NA	NA
RA-06	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 145.6	None	None	NA	NA
RA-06	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 145.7	None	None	NA	NA
RA-07	Clearwater	Unnamed Connector	Connector	MN 145.7	None	None	NA	NA
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 146.3	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 146.9	None	None	NA	NA
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 147.9	None	None	NA	NA
RA-08	Clearwater	Clearwater River	Stream/River - Perennial	MN 148.8	2B, 3C (assessed NW of the crossing location)	303d-Listed Impaired, NRI-listed	NA	NA
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 148.9	None	None	NA	NA
RA-06	Beltrami	Clearwater River	Stream/River - Perennial	MN 149.2	1B, 2A, 3B	Trout Stream, NRI-listed	NA	NA
RA-03AM	Clearwater	Clearwater River	Artificial Path	MN 149.5	2B, 3C	303d-Listed Impaired, NRI-listed	HDD	Open cut
RA-08	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 149.9	None	None	NA	NA
RA-08	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 150.7	None	None	NA	NA
RA-07	Beltrami	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 151.1	None	Trout Stream	NA	NA
RA-08	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 151.1	None	None	NA	NA
RA-07	Beltrami	Clearwater River	Stream/River - Perennial	MN 151.2	1B, 2A, 3B	Trout Stream, NRI-listed	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-08	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 151.3	None	None	NA	NA
RA-03AM	Clearwater	Walker Brook	Stream/River - Perennial	MN 151.4	None	303d-Listed Impaired	Wet Open Cut	None
RA-08	Beltrami	Unnamed Waterbody	Lake/Pond - Perennial	MN 152.1	None	None	NA	NA
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 152.6	None	None	Dry Crossing	Wet Open Cut
RA-06	Beltrami	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 152.7	None	None	NA	NA
RA-06	Beltrami	Unnamed Waterbody	Lake/Pond - Perennial	MN 153.6	None	None	NA	NA
RA-06	Beltrami	Sandy River	Stream/River - Perennial	MN 153.9	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 154.4	None	None	NA	NA
RA-03AM	Clearwater	Unnamed Waterbody	Lake/Pond - Perennial	MN 154.7	None	None	NA	NA
RA-03AM	Clearwater	Unnamed Waterbody	Lake/Pond - Perennial	MN 155.1	None	None	NA	NA
RA-08	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 155.1	None	None	NA	NA
RA-08	Beltrami	Unnamed Canal Ditch	Canal Ditch	MN 155.1	None	None	NA	NA
RA-08	Beltrami	Unnamed Connector	Connector	MN 155.6	None	None	NA	NA



**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-07	Beltrami	Grant Creek	Stream/River - Perennial	MN 156.1	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Beltrami	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 156.3	None	None	NA	NA
RA-03AM	Clearwater	Unnamed Waterbody	Lake/Pond - Perennial	MN 156.4	None	None	NA	NA
RA-08	Beltrami	Unnamed Waterbody	Lake/Pond - Perennial	MN 156.6	None	None	NA	NA
RA-08	Beltrami	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 157.8	None	None	NA	NA
RA-08	Beltrami	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 157.9	None	None	NA	NA
RA-07	Beltrami	Grant Creek	Stream/River - Perennial	MN 158.5	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-08	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 159.4	None	None	NA	NA
RA-08	Beltrami	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 159.5	None	None	NA	NA
RA-06	Beltrami	Rice Lake	Lake/Pond - Perennial	MN 159.6	2B	None	NA	NA
RA-06	Beltrami	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 160.3	None	None	NA	NA
RA-06	Beltrami	Unnamed Artificial Path	Artificial Path	MN 161.1	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Beltrami	Pike Creek	Stream/River - Perennial	MN 161.5	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-07	Beltrami	Grant Creek	Stream/River - Perennial	MN 161.6	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-08	Beltrami	Grant Creek	Stream/River - Perennial	MN 161.9	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-07	Beltrami	Grant Creek	Stream/River - Perennial	MN 162.5	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Beltrami	Mud River	Stream/River - Perennial	MN 162.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 162.9	None	None	NA	NA
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 163.5	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-07	Beltrami	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 163.6	None	None	NA	NA
RA-03AM	Clearwater	Bear Creek	Stream/River - Perennial	MN 164.2	2C, 3C	None	Dry Crossing	Wet Open Cut
RA-08	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 164.2	None	None	NA	NA
RA-03AM	Clearwater	Mississippi River	Stream/River - Perennial	MN 165.1	2B, 3C (assessed NW of the crossing location)	303d-Listed Impaired	HDD	Dry Crossing
RA-08	Beltrami	Mississippi River	Stream/River - Perennial	MN 165.8	2B, 3C (assessed NW of the crossing location)	303d-Listed Impaired	NA	NA
RA-08	Beltrami	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 165.9	None	None	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 166.1	None	None	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 166.2	None	None	NA	NA
RA-08	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 167.2	None	None	NA	NA
RA-06	Beltrami	Hay Creek	Connector	MN 167.5	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-08	Beltrami	Schoolcraft River	Artificial Path	MN 168.3	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-07	Beltrami	Mississippi River	Artificial Path	MN 168.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 169.6	None	None	NA	NA
RA-03AM	Clearwater	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 169.9	None	None	NA	NA
RA-03AM	Hubbard	LaSalle Creek	Stream/River - Perennial	MN 170.1	2C	Trout Stream	Dry Crossing	Wet Open Cut
RA-06	Beltrami	Darrigans Creek	Stream/River - Perennial	MN 170.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-07	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 170.8	None	None	NA	NA
RA-08	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 170.9	None	None	NA	NA
RA-07	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 171.4	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 171.7	None	None	NA	NA
RA-08	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 171.7	None	None	NA	NA
RA-08	Hubbard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 172.1	None	None	NA	NA
RA-06	Beltrami	O'Brien Creek	Stream/River - Perennial	MN 172.4	1B, 2A, 3B	Trout Stream	NA	NA
RA-07	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 172.4	None	None	NA	NA
RA-06	Beltrami	O'Brien Creek	Stream/River - Perennial	MN 172.6	1B, 2A, 3B	Trout Stream	NA	NA
RA-06	Beltrami	O'Brien Creek	Stream/River - Perennial	MN 172.7	1B, 2A, 3B	Trout Stream	NA	NA
RA-08	Hubbard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 172.7	None	Trout Stream	NA	NA
RA-07	Hubbard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 172.8	None	None	NA	NA
RA-07	Hubbard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 173.3	1B, 2A, 3B	Trout Stream	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 173.8	None	None	NA	NA
RA-06	Beltrami	Unnamed Waterbody	Lake/Pond - Perennial	MN 173.9	None	None	NA	NA
RA-08	Hubbard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 173.9	None	Trout Stream	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 174.4	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-07	Hubbard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 174.5	None	Trout Stream	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 174.9	None	None	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 175	None	None	NA	NA
RA-06	Beltrami	Unnamed Waterbody	Lake/Pond - Perennial	MN 175.4	None	None	NA	NA
RA-07	Hubbard	Necktie River	Stream/River - Intermittent	MN 176.4	1B, 2A, 3B	Trout Stream	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 177	None	None	NA	NA
RA-08	Hubbard	Necktie River	Stream/River - Perennial	MN 177	1B, 2A, 3B	Trout Stream	NA	NA
RA-08	Hubbard	Unnamed Canal Ditch	Canal Ditch	MN 177.1	None	None	NA	NA
RA-03AM	Hubbard	Unnamed Waterbody	Lake/Pond - Perennial	MN 177.6	None	None	NA	NA
RA-06	Beltrami	Blackduck River	Stream/River - Perennial	MN 177.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 178.5	None	None	NA	NA
RA-08	Hubbard	Unnamed Connector	Connector	MN 179.5	None	None	NA	NA
RA-08	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 180.4	None	None	NA	NA
RA-06	Beltrami	Unnamed Connector	Connector	MN 180.5	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 180.8	None	None	NA	NA
RA-06	Beltrami	Spring Creek	Artificial Path	MN 181.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-08	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 182.3	None	None	NA	NA
RA-06	Beltrami	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 183.7	None	None	NA	NA
RA-07	Cass	Fox Creek	Artificial Path	MN 184.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-08	Cass	Unnamed Artificial Path	Artificial Path	MN 185.3	None	None	NA	NA
RA-06	Beltrami	South Cormorant River	Stream/River - Intermittent	MN 185.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Hubbard	Unnamed Waterbody	Lake/Pond - Perennial	MN 186.3	None	None	NA	NA
RA-03AM	Hubbard	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 186.4	None	None	Dry Crossing	Wet Open Cut
RA-08	Cass	Unnamed Artificial Path	Artificial Path	MN 186.4	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Itasca	Unnamed Waterbody	Lake/Pond - Perennial	MN 186.7	None	None	NA	NA
RA-03AM	Hubbard	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 187.1	None	None	Dry Crossing	Wet Open Cut
RA-03AM	Hubbard	Hay Creek	Artificial Path	MN 187.8	2B, 3C (assessed NW of the crossing location)	None	HDD	Open cut
RA-03AM	Hubbard	Unnamed Canal Ditch	Canal Ditch	MN 189.4	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 190.7	None	None	NA	NA
RA-03AM	Hubbard	Unnamed Waterbody	Lake/Pond - Perennial	MN 191.2	None	None	NA	NA
RA-08	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 191.2	None	None	NA	NA
RA-06	Itasca	Popple River	Stream/River - Perennial	MN 191.8	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-07	Cass	Unnamed Connector	Connector	MN 192.4	None	None	NA	NA
RA-08	Cass	Sucker Creek	Stream/River - Perennial	MN 192.5	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA



**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-08	Cass	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 193	None	None	NA	NA
RA-07	Cass	Unnamed Artificial Path	Artificial Path	MN 193.1	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 193.5	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 194.3	None	None	NA	NA
RA-08	Cass	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 194.4	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 196.2	None	None	NA	NA
RA-07	Cass	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 196.6	None	None	NA	NA
RA-07	Cass	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 196.9	None	None	NA	NA
RA-03AM	Hubbard	Straight River	Artificial Path	MN 198.3	1B, 2A, 3B	Trout Stream	HDD	Open cut
RA-08	Cass	Portage Creek	Stream/River - Perennial	MN 198.3	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 199.6	None	None	NA	NA
RA-06	Itasca	Unnamed Waterbody	Lake/Pond - Perennial	MN 200.2	None	None	NA	NA
RA-06	Itasca	Unnamed Waterbody	Lake/Pond - Perennial	MN 200.6	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Hubbard	Shell River	Stream/River - Perennial	MN 200.7	2B, 3C 2A	None	Dry Crossing	Wet Open Cut
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 201.7	None	None	NA	NA
RA-07	Cass	Unnamed Waterbody	Swamp/Marsh - Intermittent	MN 202.3	None	None	NA	NA
RA-06	Itasca	Moose Brook	Stream/River - Perennial	MN 203.4	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Itasca	Big Fork River	Artificial Path	MN 203.9	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA
RA-07	Cass	Sixmile Brook	Canal Ditch	MN 203.9	2C, 3C	None	NA	NA
RA-06	Itasca	Big Fork River	Artificial Path	MN 204.2	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA
RA-08	Cass	Sixmile Brook	Canal Ditch	MN 204.2	2C, 3C	None	NA	NA
RA-06	Itasca	Big Fork River	Artificial Path	MN 205.6	2B, 3C (assessed NW of the crossing location)	USACE Navigable waterway	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Itasca	Hay Creek	Stream/River - Perennial	MN 205.8	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Itasca	Unnamed Connector	Connector	MN 207.1	None	None	NA	NA
RA-03AM	Wadena	Blueberry River	Stream/River - Perennial	MN 207.5	2C, 3C	None	NA	NA
RA-08	Cass	Unnamed Canal Ditch	Canal Ditch	MN 208	None	None	NA	NA
RA-03AM	Wadena	Kettle River	Stream/River - Perennial	MN 208.2	2C	None	NA	NA
RA-07	Cass	Unnamed Canal Ditch	Canal Ditch	MN 208.2	None	None	NA	NA
RA-08	Cass	Unnamed Canal Ditch	Canal Ditch	MN 209.4	None	None	NA	NA
RA-06	Itasca	Harrison Creek	Stream/River - Perennial	MN 209.9	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Itasca	Big Fork River	Artificial Path	MN 210	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA
RA-03AM	Wadena	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 210.2	None	None	NA	NA
RA-03AM	Wadena	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 210.5	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-08	Cass	Unnamed Canal Ditch	Canal Ditch	MN 210.6	None	None	NA	NA
RA-03AM	Wadena	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 210.9	None	None	NA	NA
RA-07	Cass	Unnamed Canal Ditch	Canal Ditch	MN 211	None	None	NA	NA
RA-06	Itasca	Unnamed Artificial Path	Artificial Path	MN 211.8	None	None	NA	NA
RA-03AM	Wadena	Cat River	Canal Ditch	MN 212	1B, 2A, 3B	Trout Stream	NA	NA
RA-06	Itasca	Unnamed Artificial Path	Artificial Path	MN 212	None	None	NA	NA
RA-06	Itasca	Big Fork River	Artificial Path	MN 212.6	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA
RA-08	Cass	Unnamed Waterbody	Lake/Pond - Perennial	MN 212.8	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 213	None	None	NA	NA
RA-03AM	Wadena	Cat River	Stream/River - Perennial	MN 213.2	1B, 2A, 3B	Trout Stream	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 213.2	None	None	NA	NA
RA-06	Itasca	Big Fork River	Artificial Path	MN 214.5	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA
RA-08	Cass	Unnamed Artificial Path	Artificial Path	MN 214.5	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-08	Cass	Mississippi River	Artificial Path	MN 214.6	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA
RA-07	Cass	Mississippi River	Artificial Path	MN 214.8	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA
RA-07	Itasca	Unnamed Waterbody	Lake/Pond - Perennial	MN 214.8	None	None	NA	NA
RA-03AM	Wadena	Kitten Creek	Stream/River - Perennial	MN 215	2C, 3C	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 215	None	None	NA	NA
RA-07	Cass	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 215	None	None	NA	NA
RA-08	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 215	None	None	NA	NA
RA-08	Itasca	Unnamed Waterbody	Lake/Pond - Perennial	MN 215	None	None	NA	NA
RA-06	Itasca	Big Fork River	Artificial Path	MN 215.2	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Itasca	Big Fork River	Artificial Path	MN 215.9	2B, 3C (assessed NW of the crossing location)	USACE Navigable	NA	NA
RA-08	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 216.4	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 216.8	None	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 216.9	None	None	NA	NA
RA-03AM	Wadena	Unnamed Canal Ditch	Canal Ditch	MN 217.7	None	None	NA	NA
RA-08	Itasca	Ball Club River	Stream/River - Perennial	MN 218.1	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Wadena	Redeye River	Stream/River - Perennial	MN 218.3	2B, 3C	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 218.3	None	None	NA	NA
RA-07	Itasca	Ball Club River	Stream/River - Perennial	MN 218.4	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-08	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 219.9	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-07	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 220.5	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 221	None	None	NA	NA
RA-08	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 221.2	None	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 221.8	None	None	NA	NA
RA-08	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 221.9	None	None	NA	NA
RA-08	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 222.2	None	None	NA	NA
RA-07	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 222.8	None	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 223	None	None	NA	NA
RA-06	Itasca	Big Fork River	Artificial Path	MN 223.4	2B, 3C (assessed NW of the crossing location)	NRI-listed, USACE Navigable	NA	NA
RA-08	Itasca	Deer River	Stream/River - Perennial	MN 223.5	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-08	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 223.6	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-07	Itasca	Deer River	Stream/River - Perennial	MN 224.2	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Itasca	Rice Creek	Stream/River - Perennial	MN 224.4	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Wadena	Unnamed Canal Ditch	Canal Ditch	MN 224.5	None	None	NA	NA
RA-08	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 224.5	None	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 224.9	None	None	NA	NA
RA-03AM	Wadena	Hay Creek	Stream/River - Perennial	MN 225.8	2B, 3C	None	NA	NA
RA-08	Itasca	Unnamed Connector	Connector	MN 225.9	None	None	NA	NA
RA-06	Itasca	Coon Creek	Artificial Path	MN 226.9	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Wadena	Unnamed Canal Ditch	Canal Ditch	MN 227.4	None	None	NA	NA



**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Itasca	Coon Creek	Stream/River - Perennial	MN 227.9	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Wadena	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 229.2	None	None	NA	NA
RA-03AM	Wadena	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 230.1	None	None	NA	NA
RA-08	Itasca	Blackwater Creek	Stream/River - Perennial	MN 230.1	2C	None	NA	NA
RA-03AM	Wadena	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 230.2	None	None	NA	NA
RA-03AM	Wadena	Leaf River	Stream/River - Perennial	MN 230.8	2B, 3C	None	NA	NA
RA-03AM	Wadena	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 231.7	None	None	NA	NA
RA-03AM	Wadena	Unnamed Canal Ditch	Canal Ditch	MN 231.9	None	None	NA	NA
RA-06	Itasca	Coon Creek	Stream/River - Perennial	MN 232	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-08	Itasca	Bass Brook	Stream/River - Perennial	MN 232.1	None	None	NA	NA
RA-08	Itasca	Unnamed Waterbody	Lake/Pond - Perennial	MN 232.3	None	None	NA	NA
RA-08	Itasca	Forsythe Lake	Lake/Pond - Perennial	MN 232.4	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-07	Itasca	Bass Brook	Stream/River - Perennial	MN 233	None	None	NA	NA
RA-06	Itasca	Larson Lake	Lake/Pond - Perennial	MN 233.2	1B, 2A, 3B	None	NA	NA
RA-03AM	Wadena	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 235	None	Trout Stream	NA	NA
RA-03AM	Wadena	Partridge River	Stream/River - Perennial	MN 236.7	None	None	NA	NA
RA-03AM	Wadena	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 236.7	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 237.1	None	None	NA	NA
RA-03AM	Wadena	Unnamed Canal Ditch	Canal Ditch	MN 238.2	None	Trout Stream	NA	NA
RA-08	Itasca	Prairie River	Artificial Path	MN 239	None	None	NA	NA
RA-07	Itasca	Prairie River	Artificial Path	MN 239.3	None	None	NA	NA
RA-06	Itasca	Unnamed Waterbody	Lake/Pond - Perennial	MN 240.5	None	None	NA	NA
RA-03AM	Wadena	Unnamed Connector	Connector	MN 240.9	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 241.5	None	None	NA	NA
RA-03AM	Todd	Hayden Creek	Stream/River - Perennial	MN 241.6	None	None	NA	NA
RA-06	Itasca	Bear River	Stream/River - Perennial	MN 241.7	None	None	NA	NA
RA-06	Itasca	Venning Creek	Stream/River - Perennial	MN 242.7	1B, 2A, 3B	Trout Stream	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Todd	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 242.9	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 243.6	None	Trout Stream	NA	NA
RA-08	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 244.1	None	None	NA	NA
RA-03AM	Todd	Unnamed Canal Ditch	Canal Ditch	MN 244.4	None	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 245.7	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 246.4	None	None	NA	NA
RA-03AM	Todd	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 247	None	None	NA	NA
RA-03AM	Todd	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 247.2	None	None	NA	NA
RA-03AM	Todd	Long Prairie River	Artificial Path	MN 247.4	2B, 3C	None	NA	NA
RA-08	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 247.6	None	None	NA	NA
RA-08	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 247.7	None	None	NA	NA
RA-06	Itasca	Unnamed Connector	Connector	MN 248.1	None	None	NA	NA
RA-06	Itasca	Unnamed Waterbody	Lake/Pond - Perennial	MN 249.1	None	None	NA	NA
RA-03AM	Todd	Unnamed Canal Ditch	Canal Ditch	MN 249.2	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 249.2	None	None	NA	NA
RA-07	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 249.2	None	None	NA	NA
RA-03AM	Todd	Unnamed Canal Ditch	Canal Ditch	MN 249.6	None	None	NA	NA
RA-07	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 249.8	None	None	NA	NA
RA-07	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 250.2	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 250.9	None	None	NA	NA
RA-08	Itasca	Shallow Lake	Lake/Pond - Perennial	MN 250.9	None	None	NA	NA
RA-03AM	Todd	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 252.2	None	None	NA	NA
RA-08	Itasca	Swan River	Stream/River - Perennial	MN 252.3	2B, 3C (assessed NW of the crossing location)	303d-Listed Impaired	NA	NA
RA-08	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 252.4	None	None	NA	NA
RA-03AM	Todd	Fish Trap Creek	Stream/River - Perennial	MN 253.2	2B, 3C	None	NA	NA
RA-08	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 253.6	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-07	Itasca	Swan River	Stream/River - Perennial	MN 253.9	2B, 3C (assessed NW of the crossing location)	303d-Listed Impaired	NA	NA
RA-06	Itasca	Prairie River	Stream/River - Intermittent	MN 254	None	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 254.4	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 254.8	None	None	NA	NA
RA-08	Itasca	Spot Lake	Lake/Pond - Perennial	MN 254.9	None	None	NA	NA
RA-03AM	Morrison	Unnamed Waterbody	Lake/Pond - Perennial	MN 255.2	None	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 255.8	None	None	NA	NA
RA-08	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 255.8	None	None	NA	NA
RA-06	Itasca	Day Brook	Stream/River - Perennial	MN 255.9	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-08	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 256	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-08	Itasca	Bruce Creek	Canal Ditch	MN 256.1	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Morrison	Corner Lake	Lake/Pond - Perennial	MN 256.4	None	None	NA	NA
RA-07	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 257.3	None	None	NA	NA
RA-07	Itasca	Bruce Creek	Canal Ditch	MN 257.9	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Morrison	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 259.2	None	None	NA	NA
RA-06	Itasca	East River	Stream/River - Perennial	MN 259.9	None	None	NA	NA
RA-03AM	Morrison	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 261.1	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 261.3	None	None	NA	NA
RA-08	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 261.7	None	None	NA	NA
RA-03AM	Morrison	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 262.2	None	None	NA	NA
RA-06	Itasca	Rock Creek	Stream/River - Perennial	MN 262.3	None	None	NA	NA
RA-08	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 262.6	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 263	None	None	NA	NA
RA-08	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 263	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 263.4	None	None	NA	NA
RA-07	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 263.6	None	None	NA	NA
RA-03AM	Morrison	Hay Creek	Stream/River - Perennial	MN 264.2	None	None	NA	NA
RA-08	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 264.3	None	None	NA	NA
RA-07	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 264.9	None	None	NA	NA
RA-07	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 265.2	None	None	NA	NA
RA-08	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 265.7	None	None	NA	NA
RA-07	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 265.9	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 266.8	None	None	NA	NA
RA-08	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 267.1	None	None	NA	NA
RA-03AM	Morrison	Little Elk River	Stream/River - Perennial	MN 267.4	2C, 3C	None	NA	NA
RA-06	Itasca	O'Brien Creek	Stream/River - Perennial	MN 267.8	None	None	NA	NA
RA-06	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 267.9	None	None	NA	NA
RA-07	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 267.9	None	None	NA	NA
RA-08	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 268.2	None	None	NA	NA
RA-06	Itasca	O'Brien Creek	Stream/River - Perennial	MN 268.4	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Morrison	Little Elk River	Stream/River - Perennial	MN 268.6	2C, 3C	None	NA	NA
RA-08	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 269.5	None	None	NA	NA
RA-08	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 270.2	None	None	NA	NA
RA-06	Itasca	Welcome Creek	Artificial Path	MN 271.5	2C	None	NA	NA
RA-03AM	Morrison	Unnamed Canal Ditch	Canal Ditch	MN 271.7	None	None	NA	NA
RA-08	St. Louis	East Savanna River	Canal Ditch	MN 273.1	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Morrison	Mississippi River	Artificial Path	MN 273.3	2B, 3C	USACE Navigable waterway	NA	NA
RA-08	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 273.3	None	None	NA	NA
RA-06	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 274	None	None	NA	NA
RA-07	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 274	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 274.4	None	None	NA	NA
RA-06	St. Louis	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 274.7	None	None	NA	NA
RA-07	St. Louis	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 274.7	None	None	NA	NA



**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Itasca	Hay Creek	Stream/River - Perennial	MN 275.6	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	St. Louis	East Savanna River	Canal Ditch	MN 275.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-07	St. Louis	East Savanna River	Canal Ditch	MN 275.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Morrison	Rice Creek	Canal Ditch	MN 276	2B, 3C	None	NA	NA
RA-08	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 276.8	None	None	NA	NA
RA-08	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 276.8	None	None	NA	NA
RA-08	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 276.8	None	None	NA	NA
RA-06	St. Louis	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 277.3	None	None	NA	NA
RA-07	St. Louis	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 277.3	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Morrison	Rice Creek	Canal Ditch	MN 277.9	2B, 3C	None	NA	NA
RA-06	Itasca	Coons Creek	Artificial Path	MN 278.1	None	None	NA	NA
RA-06	Itasca	Tank Creek	Connector	MN 278.8	None	None	NA	NA
RA-06	Itasca	Unnamed Artificial Path	Artificial Path	MN 279.1	None	None	NA	NA
RA-08	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 279.1	None	None	NA	NA
RA-08	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 279.2	None	None	NA	NA
RA-06	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 279.8	None	None	NA	NA
RA-07	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 279.8	None	None	NA	NA
RA-08	St. Louis	Ahmik River	Stream/River - Perennial	MN 279.9	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Morrison	Rice Creek	Stream/River - Perennial	MN 280	2B, 3C	None	NA	NA
RA-08	St. Louis	Ahmik River	Stream/River - Perennial	MN 280	2B, 3C (assessed NW of the crossing location)	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-08	St. Louis	Ahmik River	Stream/River - Perennial	MN 280	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 280.1	None	None	NA	NA
RA-07	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 280.1	None	None	NA	NA
RA-06	Itasca	Beauty Lake	Lake/Pond - Perennial	MN 280.8	None	None	NA	NA
RA-06	Itasca	Mary Lake	Lake/Pond - Perennial	MN 281.4	None	None	NA	NA
RA-06	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 281.8	None	None	NA	NA
RA-06	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 281.8	None	None	NA	NA
RA-07	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 281.8	None	None	NA	NA
RA-07	St. Louis	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 281.8	None	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 282.5	None	None	NA	NA
RA-06	St. Louis	Ahmik River	Stream/River - Perennial	MN 282.5	2B, 3C (assessed NW of the crossing location)	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-07	St. Louis	Ahmik River	Stream/River - Perennial	MN 282.5	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Morrison	Platte River	Stream/River - Perennial	MN 282.6	2B, 3C	None	NA	NA
RA-06	Itasca	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 283.6	None	Trout Stream	NA	NA
RA-06	Itasca	Unnamed Artificial Path	Artificial Path	MN 284.2	None	None	NA	NA
RA-06	Itasca	Unnamed Waterbody	Lake/Pond - Perennial	MN 285.5	None	None	NA	NA
RA-08	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 285.8	None	None	NA	NA
RA-03AM	Morrison	Skunk River	Stream/River - Perennial	MN 286.8	2C, 3C	303d-Listed Impaired	NA	NA
RA-03AM	Morrison	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 287.3	None	None	NA	NA
RA-03AM	Morrison	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 288.2	None	None	NA	NA
RA-06	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 288.4	None	None	NA	NA
RA-07	St. Louis	Unnamed Canal Ditch	Canal Ditch	MN 288.4	None	None	NA	NA
RA-03AM	Morrison	Unnamed Canal Ditch	Canal Ditch	MN 288.8	None	None	NA	NA
RA-03AM	Morrison	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 288.9	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-08	Carlton	Stoney Brook	Canal Ditch	MN 289.6	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Morrison	Unnamed Canal Ditch	Canal Ditch	MN 290.3	None	None	NA	NA
RA-03AM	Morrison	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 290.8	None	None	NA	NA
RA-03AM	Morrison	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 290.9	None	None	NA	NA
RA-06	Itasca	West Branch Floodwood River	Stream/River - Perennial	MN 291.3	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-08	Carlton	Unnamed Canal Ditch	Canal Ditch	MN 291.4	None	None	NA	NA
RA-08	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 292	None	None	NA	NA
RA-03AM	Morrison	Mischke Creek	Stream/River - Intermittent	MN 292.3	None	None	NA	NA
RA-06	Carlton	Stoney Brook	Canal Ditch	MN 292.3	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-06	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 292.3	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-07	Carlton	Stoney Brook	Canal Ditch	MN 292.3	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-07	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 292.3	None	None	NA	NA
RA-06	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 292.4	None	None	NA	NA
RA-07	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 292.4	None	None	NA	NA
RA-06	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 292.5	None	None	NA	NA
RA-03AM	Morrison	Unnamed Canal Ditch	Canal Ditch	MN 292.7	None	None	NA	NA
RA-06	Itasca	Unnamed Canal Ditch	Canal Ditch	MN 293.5	None	None	NA	NA
RA-06	Carlton	Unnamed Canal Ditch	Canal Ditch	MN 294.1	None	None	NA	NA
RA-07	Carlton	Unnamed Canal Ditch	Canal Ditch	MN 294.1	None	None	NA	NA
RA-03AM	Morrison	Unnamed Canal Ditch	Canal Ditch	MN 294.5	None	None	NA	NA
RA-06	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 294.5	None	None	NA	NA
RA-06	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 294.7	None	None	NA	NA
RA-06	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 294.7	None	None	NA	NA
RA-07	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 294.7	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-06	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 295.1	None	None	NA	NA
RA-08	Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 295.1	None	None	NA	NA
RA-06	Aitkin	Unnamed Canal Ditch	Canal Ditch	MN 295.2	None	None	NA	NA
RA-08	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 297.2	None	None	NA	NA
RA-03AM	Morrison	Unnamed Canal Ditch	Canal Ditch	MN 298	None	None	NA	NA
RA-08	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 298.6	None	None	NA	NA
RA-03AM	Morrison	Unnamed Canal Ditch	Canal Ditch	MN 299	None	None	NA	NA
RA-06	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 300	None	None	NA	NA
RA-07	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 300	None	None	NA	NA
RA-03AM	Morrison	Unnamed Artificial Path	Artificial Path	MN 300.8	None	None	NA	NA
RA-03AM	Morrison	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 301.2	None	None	NA	NA
RA-06	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 301.4	None	None	NA	NA
RA-07	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 301.4	None	None	NA	NA
RA-08	Carlton	Little Otter Creek	Stream/River - Perennial	MN 301.4	1B, 2A, 3B	Trout Stream	NA	NA
RA-08	Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 302.4	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Benton	West Branch Rum River	Stream/River - Perennial	MN 303.3	2B, 3C	None	NA	NA
RA-06	Carlton	Little Otter Creek	Stream/River - Perennial	MN 304.2	1B, 2A, 3B	Trout Stream	NA	NA
RA-07	Carlton	Little Otter Creek	Stream/River - Perennial	MN 304.2	1B, 2A, 3B	Trout Stream	NA	NA
RA-03AM	Benton	Unnamed Waterbody	Lake/Pond - Perennial	MN 305.1	None	None	NA	NA
RA-03AM	Benton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 305.5	None	None	NA	NA
RA-03AM	Benton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 306	None	None	NA	NA
RA-03AM	Benton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 306.4	None	None	NA	NA
RA-03AM	Benton	Stony Brook	Stream/River - Perennial	MN 306.8	None	None	NA	NA
RA-06	St. Louis	Unnamed Waterbody	Lake/Pond - Perennial	MN 307	None	None	NA	NA
RA-07	St. Louis	Unnamed Waterbody	Lake/Pond - Perennial	MN 307	None	None	NA	NA
RA-03AM	Mille Lacs	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 307.7	None	None	NA	NA
RA-03AM	Mille Lacs	West Branch Rum River	Stream/River - Perennial	MN 308.3	2B, 3C	None	NA	NA
RA-03AM	Mille Lacs	West Branch Rum River	Stream/River - Perennial	MN 308.5	2B, 3C	None	NA	NA
RA-03AM	Mille Lacs	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 311.6	None	None	NA	NA



**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Mille Lacs	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 312.2	None	None	NA	NA
RA-03AM	Mille Lacs	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 313.4	None	None	NA	NA
RA-03AM	Mille Lacs	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 314.2	None	None	NA	NA
RA-03AM	Mille Lacs	Rum River	Artificial Path	MN 314.3	2B, 3C	USACE Navigable	NA	NA
RA-03AM	Mille Lacs	Unnamed Waterbody	Lake/Pond - Perennial	MN 315.8	None	None	NA	NA
RA-03AM	Mille Lacs	Unnamed Canal Ditch	Canal Ditch	MN 316.7	None	None	NA	NA
RA-03AM	Mille Lacs	Vondell Brook	Canal Ditch	MN 317.3	2C, 3C	None	NA	NA
RA-03AM	Mille Lacs	Unnamed Canal Ditch	Canal Ditch	MN 320	None	None	NA	NA
RA-03AM	Mille Lacs	Bogus Brook	Stream/River - Perennial	MN 321	7	None	NA	NA
RA-03AM	Mille Lacs	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 322	None	None	NA	NA
RA-03AM	Kanabec	South Fork Groundhouse River	Stream/River - Perennial	MN 323.3	2B, 3C	303d-Listed Impaired	NA	NA
RA-03AM	Kanabec	Unnamed Canal Ditch	Canal Ditch	MN 325.3	None	None	NA	NA
RA-06	Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 326.9	None	None	NA	NA
RA-07	Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 326.9	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Kanabec	Groundhouse River	Stream/River - Perennial	MN 328.5	2B, 3C	303d-Listed Impaired, USACE Navigable	NA	NA
RA-03AM	Kanabec	Unnamed Canal Ditch	Canal Ditch	MN 329.2	None	None	NA	NA
RA-03AM	Kanabec	Ann River	Artificial Path	MN 332.7	2B, 3C	303d-Listed Impaired, USACE Navigable	NA	NA
RA-06	Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 334.3	None	None	NA	NA
RA-07	Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 334.3	None	None	NA	NA
RA-03AM	Kanabec	Snake River	Artificial Path	MN 334.9	2B, 3C	303d-Listed Impaired, USACE Navigable	NA	NA
RA-03AM	Kanabec	Spring Brook	Artificial Path	MN 335.2	2B, 3C	303d-Listed Impaired	NA	NA
RA-03AM	Kanabec	Spring Brook	Stream/River - Perennial	MN 337	2B, 3C	303d-Listed Impaired	NA	NA
RA-03AM	Kanabec	Spring Brook	Stream/River - Intermittent	MN 338	2B, 3C	303d-Listed Impaired	NA	NA
RA-03AM	Kanabec	Unnamed Canal Ditch	Canal Ditch	MN 341.5	None	None	NA	NA
RA-03AM	Kanabec	Unnamed Canal Ditch	Canal Ditch	MN 342.6	None	None	NA	NA
RA-03AM	Kanabec	Mud Creek	Stream/River - Perennial	MN 343.5	None	303d-Listed Impaired	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Pine	Unnamed Canal Ditch	Canal Ditch	MN 346.4	None	None	NA	NA
RA-03AM	Pine	Pokegama Creek	Stream/River - Perennial	MN 348.4	2B, 3C	None	NA	NA
RA-03AM	Pine	Unnamed Canal Ditch	Canal Ditch	MN 348.5	None	None	NA	NA
RA-03AM	Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 349	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 349.6	None	None	NA	NA
RA-03AM	Pine	East Pokegama Creek	Stream/River - Perennial	MN 351.7	2B, 3C	None	NA	NA
RA-03AM	Carlton	Blackhoof River	Stream/River - Perennial	MN 352.1	1B, 2A, 3B	Trout Stream	Dry Crossing	Wet Open Cut
RA-03AM	Carlton	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 352.3	None	Trout Stream	NA	NA
RA-03AM	Pine	Unnamed Stream/River Perennial	Stream/River - Perennial	MN 352.7	None	None	NA	NA
RA-03AM	Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 353.7	2B, 3C (assessed NW of the crossing location)	None	NA	NA
RA-03AM	Carlton	Unnamed Connector	Connector	MN 354.4	None	None	NA	NA
RA-03AM	Pine	Mission Creek	Stream/River - Perennial	MN 355.9	1B, 2A, 3B	Trout Stream	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Carlton	Unnamed Waterbody	Lake/Pond - Perennial	MN 356.6	None	None	NA	NA
RA-03AM	Pine	Grindstone River	Artificial Path	MN 359.1	2B, 3C	303d-Listed Impaired, USACE Navigable	NA	NA
RA-03AM	Pine	Unnamed Canal Ditch	Canal Ditch	MN 362.6	None	None	NA	NA
RA-03AM	Pine	Friesland Ditch	Canal Ditch	MN 364.9	None	None	NA	NA
RA-03AM	Pine	Skunk Creek	Stream/River - Intermittent	MN 367.9	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 368.7	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 369	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 369.3	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 370.4	None	None	NA	NA
RA-03AM	Pine	Medicine Creek	Canal Ditch	MN 372.1	2B, 3C	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 373.5	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 373.7	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 374	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 374.4	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 375.2	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 375.5	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 375.6	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 375.8	None	None	NA	NA
RA-03AM	Pine	Pine River	Artificial Path	MN 377.2	None	None	NA	NA
RA-03AM	Pine	Unnamed Connector	Connector	MN 379.1	None	None	NA	NA
RA-03AM	Pine	Unnamed Connector	Connector	MN 379.3	None	None	NA	NA
RA-03AM	Polk	Unnamed Waterbody	Lake/Pond - Perennial	MN 379.9	None	None	NA	NA
RA-03AM	Polk	Fox Lake	Lake/Pond - Perennial	MN 380	None	None	NA	NA
RA-03AM	Pine	Unnamed Connector	Connector	MN 382.6	None	None	NA	NA

**Table G-4. Route Permit - Waterbodies crossed by the Route Alternatives (Clearbrook to Carlton)**

Route	County	Waterbody Name	Waterbody type/flow	State Mile Post	State-Designated Use	Agency Classification	Applicant-proposed Crossing Method	Applicant-proposed Alternative Crossing Method
RA-03AM	Pine	Kettle River	Artificial Path	MN 384.6	2B, 3C	303d-Listed Impaired, USACE Navigable	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 387.1	None	None	NA	NA
RA-03AM	Pine	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 387.9	None	None	NA	NA
RA-03AM	Carlton	West Fork Moose Horn River	Stream/River - Perennial	MN 397.8	2B, 3C	None	NA	NA
RA-03AM	Carlton	Moose Horn River	Stream/River - Perennial	MN 400.2	2B, 3C	None	NA	NA
RA-03AM	Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 401.3	None	None	NA	NA
RA-03AM	Carlton	Unnamed Stream/River Intermittent	Stream/River - Intermittent	MN 401.8	None	None	NA	NA
RA-03AM	Carlton	Unnamed Connector	Connector	MN 403	None	None	NA	NA

Notes: Waterbody crossings determined using NHD GIS layers.

State-designated Use:

Minnesota (MN): Minnesota Rule 7050.0470 lists the classifications of major waterbodies in the state. If a waterbody is not listed under 7050.0470 and is not a wetland, it is classified as a Class 2B, 3C, 4A, 4B, 5, and 6 water per Minnesota Rule 7050.0430.

- Class 1 – domestic consumption (i.e., drinking water);
- Class 2 – aquatic life and recreation;
- Class 3 – industrial or commercial use;
- Class 4 – agricultural use, irrigation (4A) and livestock and wildlife watering (4B);
- Class 5 – aesthetics and navigation;
- Class 6 – other uses and protection of border waters; and
- Class 7 – limited resource value waters.

- Minnesota Rule 7050.0222 further defines the water quality standards for the following subclasses of Class 2 waters:
- Class 2A – Coldwater fisheries, trout waters, suitable for all aquatic recreation and protected as a source of drinking water;
- Class 2Bd – Cold and warm water fisheries, suitable for all aquatic recreation and protected as a source of drinking water;
- Class 2B – Cold and warm water fisheries, suitable for all aquatic recreation but not protected for drinking water;
- Class 2C – Indigenous fish and associated aquatic community, suitable for boating but not protected for drinking water.

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