

BIPOLE III
TRANSMISSION LINE WATERCOURSE CROSSINGS
POST-CONSTRUCTION MONITORING REPORT - 2018

October 2018

Prepared for:

Manitoba Hydro

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EXECUTIVE SUMMARY

As outlined in *The Environment Act* License for the Bipole III Transmission Project (License No. 3055), construction, operation, and maintenance of the Project will adhere to mitigation found within the EIS and supporting materials, as well as Environmental Protection Plans (EnvPP). Included in the Project EnvPP is an obligation to monitor the effectiveness of mitigation measures. This report provides documentation of site visits conducted on 413 watercourse crossings along the four 230 kV AC collector lines between Keewatinohk CS and Henday CS, the 230 kV AC Collector Line from Keewatinohk CS to Long Spruce GS, the Keewatinohk and Riel Ground Electrode lines, the northern Ground Electrode and segments N1-N4, C1, C2, S1 and S2 of the 500 kV Transmission Line from Keewatinohk CS to the Riel CS during summer 2018. Closer inspections were carried out at nine sites identified in the 2017 stream crossing monitoring report and a further 10 sites flagged in the 2017/2018 environmental inspector daily reports.

Construction was complete at all of the 413 stream crossing sites inspected during monitoring in 2018.

Within the EnvPP and supporting material 21 mitigation measures were identified. Of these, stream crossing construction was in compliance with 18 mitigation measures at all sites. Of the sites that were non-compliant (7), follow-up monitoring in 2019 is not recommended at any of the watercourse crossings.

The mitigation measure most frequently in non-compliance was the presence of slash, debris, and/or accumulation of sediments instream which may inhibit water flow and prevent the free movement of fish (5 sites). Secondary issues included insufficient erosion protection (1 site) and failure to remove temporary crossings (1 site). Of the seven sites requiring mitigation or continued monitoring, six were previously noted in the 2017 monitoring report. Construction is now complete at all watercourse crossings on the project therefore further stream crossing compliance monitoring is not required.

ACKNOWLEDGEMENTS

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1.0 INTRODUCTION

As outlined in *The Environment Act* License for the Bipole III Transmission Project (License No. 3055), construction, operation, and maintenance of the Project will adhere to mitigation found within the EIS and supporting materials as well as Environmental Protection Plans (EnvPP). Included in the Project EnvPP is an obligation to monitor the effectiveness of mitigation measures. Stream crossing monitoring consists of a minimum of one site visit to each identified stream crossing in the first spring and/or summer following construction and subsequent site visits as required. This report provides documentation of site visits conducted at 413 watercourse crossings intersected by the AC Collector lines between the Keewatinohk CS, Henday CS and the Long Spruce GS, the Northern Ground Electrode (GE), Keewatinohk Ground Electrode Line (KGEL), the Riel Ground Electrode Line (RGEL) and along the 500 kV Transmission Line extending from Keewatinohk CS to its terminus at the Riel CS outside of Winnipeg, June 2018 (Maps 100-01 to 100-94).

2.0 STUDY AREA

The northern terminus of the 500 kV Transmission Line and the Collector Lines and Construction Power Line fall within the Nelson River drainage basin. From there the 500 kV line traverses the Saskatchewan River, Lake Manitoba, Assiniboine River and Red River basins.

The Nelson River watershed includes four sub-basins (Lower Nelson River, Burntwood River, Grass River, and upper Nelson River) and includes almost half of the project's watercourse crossings extending from Goose Creek, a tributary of the lower Nelson River, to south of Wekusko Lake.

The Lower Nelson River sub-basin includes the Nelson River and numerous small and medium-sized tributaries such as the Limestone River and Goose Creek. The Construction Power, AC Collector, GE, KGEL and Segment N1 of the 500 kV line lie within the lower Nelson River sub-basin.

The Burntwood River sub-basin includes segment N2 and is the largest sub-basin contributing drainage along the 500 kV line and begins approximately at Rat Lake, flows southeast to Wuskwatin Lake, and then flows northeast joining the Nelson River at Split Lake. The predominant watercourse in the Burntwood River sub-basin is the Churchill River Diversion (CRD), which enters from the north via the Rat River. Diversion flows extend down the Burntwood River through Wuskwatin, Opegano, Birch Tree, and Apussigamasi lakes before converging with the Nelson River at Split Lake.

The Grass River sub-basin lies south of the Burntwood River sub-basin and includes parts of segments N3 and N4. This sub-basin begins in the west near Cranberry Portage

and, similar to the Burntwood River sub-basin, flows northeast converging with the Nelson River at Split Lake. Waterbodies in this sub-basin include numerous lakes and rivers; notably, the Grass, Missipisew, and Wuskatasko rivers and Wekusko, Herblet, Snow, and Tramping lakes.

The Saskatchewan River basin originates near Flin Flon along the Saskatchewan border and flows southeast to Cedar Lake. The 500 kV line intersects two sub-basins (Clearwater Lake/Moose Lake and Cedar Lake) and extends from Cedar Lake, south of The Pas and includes segments N3 and N4. The Clearwater Lake/Moose Lake sub-basin includes tributaries such as Frog Creek and Little Frog Creek, and the majority of crossing sites in this basin are located on unnamed tributaries of Little Frog Creek. The Cedar Lake sub-basin includes the Saskatchewan River, which flows eastward across Saskatchewan and Manitoba and empties into Lake Winnipeg.

The Lake Manitoba basin extends from the Lake Winnipegosis sub-basin in the north, south through the escarpment region of Manitoba to the Whitemud River sub-basin and includes part of segment N4, segment C1, C2 and S1. Within the Lake Manitoba basin, the 500 kV line intersects five sub-basins (Lake Winnipegosis, Swan Lake, Duck Mountain, Lake Manitoba West, and Whitemud River). The right of way (RoW) extends north of Red Deer Lake to southwest of Portage La Prairie and parallels both Lake Winnipegosis and Lake Manitoba.

The northern portion of the Lake Winnipegosis sub-basin is characterized by the Overflowing River, Red Deer Lake, and Red Deer River and includes segment N4. Further south, the small lakes and streams on top of the Porcupine Mountains flow northeast to Lake Winnipegosis through the Bell and Steeprock rivers and Cork Cliff Creek. The Duck Mountain sub-basin (in association with the Valley River and Turtle River basins) collects water from the eastern sides of the Duck and Riding mountains and enter Lake Winnipegosis either directly or via Dauphin Lake and the Mossy River and includes segment C1. Characteristic of the escarpment, streams in the three sub-basins have elevated water velocity and coarse stream substrate. Once on the lowland areas adjacent to lakes Winnipegosis, Swan, and Manitoba, water velocity slows and substrates shift to fine silts and organics. Shoreline vegetation is generally a combination of birch, dogwood, grass/sedge, poplar, or willow. Segment C2 is contained within the Lake Manitoba West and Whitemud River sub-basins.

The 500 kV line then passes through the Assiniboine and Red River Basins from the west to the east and includes segments S1 and S2. Five sub-basins (Central Assiniboine, La Salle River, Morris River, Seine River and Cooks/Devils Creek) are intersected by the right of way which crosses the Assiniboine, Red River, Marsh and Rat rivers. The line turns northwest of Steinbach, crossing the Seine River and Fish Creek before extending westward from Springfield (Cooks/Devils Creek sub-basin) to its terminus at the Riel

station east of Winnipeg. The RGEL lies within the Cooks/Devils Creek sub-basin. The majority of watercourses crossed are man-made agricultural drains, often lacking trees or shrubs in the riparian zone, are dominated by grasses and other forbes, and are generally intermittent with soft substrates and grown-in with emergent vegetation. Natural and man-made watercourses in these sub-basins tend to be dominated by fine, soft substrates and low water velocity. The Red and Assiniboine rivers, ultimately draining into Lake Winnipeg, are the largest rivers crossed, characterized by shorelines of soft substrates, higher flow and riparian buffer zones consisting of forested strips which include Manitoba Maple, cottonwood, aspen, elm, ash and birch, willow, and a variety of shrubs.

3.0 METHODS

Stream crossing sites were evaluated using Manitoba Hydro's Daily Inspection Reports and site visits in the summer of 2018 to assess the adherence to prescribed mitigation. Mitigation measures included those prescribed in the Bipole III Transmission Project Aquatic Environment Technical Report and the Bipole III Transmission Project Construction Environmental Protection Plans for the AC Collector Lines, Construction Power Line and Station, GE, KGEL, RGEL and segments N1, N2, N3, N4, C1, C2, S1 and S2.

Daily Inspection Reports on Manitoba Hydro's Environmental Protection Information Management System (EPIMS) were reviewed to identify where mitigation compliance was documented during construction and to focus field studies.

Field studies consisted of an aerial reconnaissance at each site on the 500 kV Transmission Line, 230 kV AC Collector Lines, Construction Power Line and GE/KGEL/RGEL Ground Electrode lines. Stream crossing sites rated as 'important/moderate' fish habitat were chosen for closer examination to obtain an overall evaluation of the state of the site. Once at the site, buffer widths from the stream or floodplain were visually evaluated and compared to the width prescribed, as well as evaluating the amount of vegetation left in the buffer and the clearing method used. Stability of stream banks and floodplain were evaluated visually and rutting, slumping, or other damage to the ground noted. The presence of slash or disturbed sediment within the buffer and below the tree line/high water mark (HWM) was noted, as well as any evidence of erosion.

Vehicle crossings were evaluated for appropriate grade and angle across the stream, and the presence of any organic debris remaining from a temporary crossing. If any erosion control measures were in place (e.g., ice/snow bridges, blankets, silt fences) their effectiveness was evaluated. Tower locations were assessed to determine if they adhered to prescribed mitigation. Photos of sites were taken to capture the overall state of the sites as well as any particular concerns. Any further reclamation needed to meet the prescribed

mitigation was noted and if a follow-up site visit was needed for further monitoring of reclamation this was also noted.

4.0 RESULTS

Manitoba Hydro is constructing four 230 kV AC Collector Lines (K61H, K62H, K63H, K64H) from the Keewatinohk CS to the Henday CS. These Collector Lines will run along a length of approximately 27.4 km. A fifth 230 kV AC Collector Line (L61K) will also run in a northerly direction from Long Spruce GS to Keewatinohk CS along a length of approximately 53.2 km. A Construction Power Line (KN36) runs from Limestone Construction Power Station to the Keewatinohk Construction Power Station along a length of approximately 28.8 km. A 1380 km 500 kV DC Transmission Line is being constructed from the Keewatinohk CS to its terminus in the south at the Riel CS. At both Keewatinohk CS and Riel CS, a ground electrode will be connected to the CS by a low voltage overhead line.

Site visits to stream crossings were conducted between June 25 and June 28, 2018. The five Collector Lines between Keewatinohk CS, Henday CS and Long Spruce GS as well as the 500 kV Transmission Line were fully complete at the time of monitoring in 2018. Construction was also complete on the Construction Power Line and at both the KGEL and RGEL sites.

Site Visits

Aerial surveys were conducted at 413 stream crossings with ground surveys at a subset of sites with the focus on higher quality fish habitat or sites with notable non-compliance. Construction at most stream crossings was compliant with prescribed mitigation where applicable. Of the sites that were non-compliant (7), remediation is not recommended at any of the sites but should still be considered. The main issue observed was the presence of slash, woody debris and/or sediments accumulating in-channel from temporary bridge crossings. Other issues involved bare ground at the watercourse crossing and insufficient riparian cover. A summary of sites where non-compliance was observed is found in Table 1 and a summary of compliance with mitigation for all sites is available in Appendix 1.

AC Collector Lines

Construction of all five of the Collector Lines was complete at the time of inspection. Compliance was observed at all 37 watercourse crossings including site CL-Aqua-104 which was recommend for a follow-up visit in the 2017 monitoring report. As in 2017, woody debris was still observed accumulating instream at the vehicle crossing at Brooks Creek (CL-Aqua-104). Despite the stream being identified as important fish habitat the fallen trees are unlikely to have an effect on fish and fish habitat (photos 1 and 2).

500 kV DC Transmission Line

Segment N1

At the time of inspection, construction of segment N1 was complete. Non-compliance was recorded at six of the 68 watercourse crossings surveyed in 2018. No remediation or follow-up monitoring is recommended at any of the sites for 2019 (Table 1). In 2017, follow-up monitoring was recommended for six sites in 2018. These sites are discussed below together with the new sites where non-compliance was observed.

Erosion and Sediment Control

In 2016 and 2017 erosion control measures were recommended at two crossings considered to have important habitat for fish, the Limestone River (N1-Aqua-129) and an unnamed tributary of the South Moswakot River (N1-Aqua-133). At each site, naturally formed drainage channels were identified in the RoW and were draining into the main watercourse. Monitoring in 2018 noted no erosion at either site. Re-vegetation at both sites, in particular N1-Aqua-129, is increasing and is likely sufficient to negate the requirement for erosion and sediment control (ESC) measures. Re-vegetation can be observed in comparative photos from 2017 and 2018 for N1-Aqua-129 (photos 3 and 4) and N1-Aqua-133 (photos 5 and 6).

In 2018, N1-Aqua-131 was identified as having bare ground at the centerline trail crossing and may be susceptible to erosion in high water years (photo 7). The watercourse is considered important fish habitat and despite the presence of a small amount of re-vegetation around the affected site the application of ESC measures may be beneficial in further protecting against bank erosion.

Bank slumping on the southern bank of the Burntwood River (N1-Aqua-173) has been noted in previous years as well as during monitoring in 2018 (photos 8 and 9). In 2018, further slumping does not appear to have occurred and re-vegetation is increasing, albeit slowly (photos 10 and 11). In addition, no erosion specific to the clearing of the RoW was observed at the study site. The banks of the Burntwood River are highly erodible and any future erosion is unlikely to be the result of excessive riparian clearing.

Instream materials (slash/sediment/other)

The removal of slash from below the HWM for sites N1-Aqua-135, 156, and 167 was recommended in 2017 due to the potential for impairment of water flow and fish movements. In 2018, slash still remained below the HWM at all three sites, and at site N1-Aqua-161 identified in the current monitoring year. A closer inspection of N1-Aqua-156 showed water was still moving freely despite the presence of woody debris and slash

in the water. All four sites are deemed marginal fish habitat and therefore remediation is not recommended (photos 12-19).

Temporary Crossing

The temporary stream crossing on the trail within the RoW at site N1-Aqua-169 was not removed following construction in 2015 and was still intact at the time of the site visit in 2018. The temporary crossing consists of a thick layer of wood slash and debris and if allowed to remain in the stream may restrict water flow and fish movements as well as alter fish habitat (photos 20 and 21). Although the stream is not considered important fish habitat, removal of the temporary crossing should be considered.

Segment N2

At the time of inspection, construction of segment N2 was complete. Of the 65 watercourse crossings surveyed in 2018 only one site was in non-compliance with respect to the prescribed mitigation measures (Table 1) compared with two sites identified in 2017.

Instream materials (slash/sediment/other)

Woody debris has been observed instream at the vehicle crossing at site N2-Aqua-119 (Photo 22) for several years including in the current monitoring year (photos 23). Due to the lack of fish habitat and the high degree of beaver activity in the vicinity of the area affected by the blockage, no remediation is required.

Segment N3

At the time of inspection, construction of segment N3 was complete. Of the 39 watercourse crossings evaluated, none were considered non-compliant compared to four sites in 2017. Two sites were re-visited in response to recommendations in 2017, which included continued monitoring of the banks at the Mitishto River (N3-Aqua-106 and 107) (Table 1).

Erosion and Sediment Control

Steep banks were observed at N3-Aqua-106 and 107 which may be susceptible to erosion. In 2017, the centerline trail crossing at N3-Aqua-106 consisted of a mulch layer reducing the potential for erosion (photo 24) but at site N3-Aqua-107 there was erosion-prone soil (photo 25). Monitoring in 2018 showed sufficient bank regrowth at both sites to suggest bank stability is improving over time (photos 26 and 27).

Segment N4

Construction was complete at all 42 watercourse crossings evaluated in segment N4 in 2018. Similar to 2017, no non-compliance issues with respect to prescribed mitigation measures were recorded at any site along N4 in 2018. However, one site (N4-Aqua-124) was cultivated, presumably by a local landowner and as such no watercourse crossing was visible during the current years monitoring (photos 28 and 29).

Segments C1, C2, S1 and S2

Construction was complete at all watercourse crossings evaluated in segment C1 (27 sites), C2 (35 sites), S1 (31 sites), and S2 (57 sites). All sites through each segment where construction crossed a watercourse were compliant with the prescribed mitigation measures outlined in the EnvPP.

KGEL

Construction was complete adjacent to all five watercourse crossings present through the KGEL and two watercourse crossings through the Northern Ground Electrode (GE) in 2018. Of the seven crossings, no site was deemed to be non-compliant with respect to the prescribed mitigation measures. In 2017, a follow-up visit was recommended at KGEL-Aqua-111 due to the presence of debris in the watercourse (photo 30). In 2018, the site looked normal and due to low water levels and a lack of suitable fish habitat was deemed in compliance with the prescribed mitigation measures (photo 31).

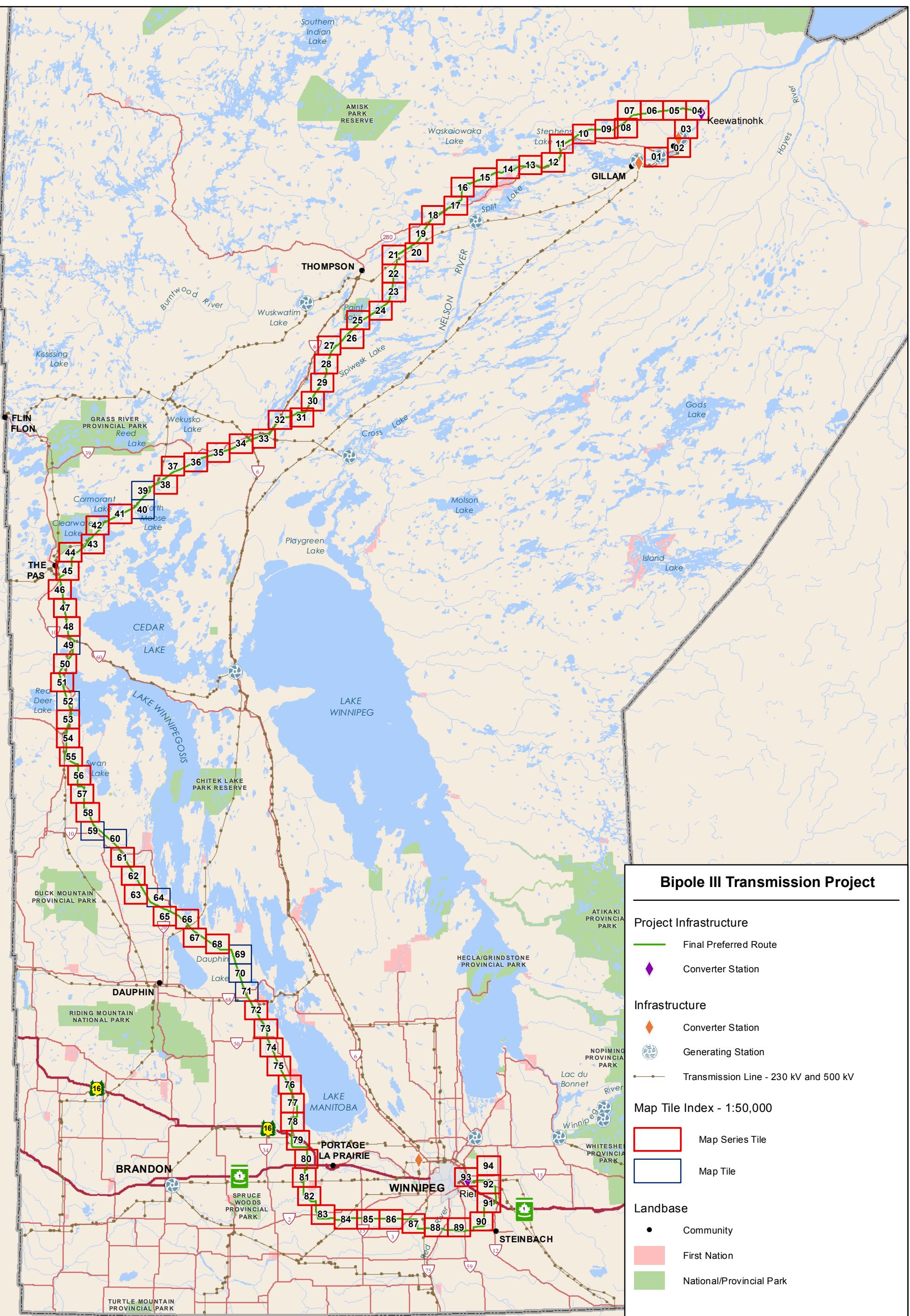
RGEL

Construction was complete at all three watercourse crossing sites along the RGEL in 2018. No clearing of the RoW was required. All three stream crossings through the RGEL line were compliant with the prescribed mitigation measures.

Table 1. Summary of stream crossings on Bipole III segments where non-compliance to prescribed mitigation was observed, June 2018.

Segment	ESS ID	Name	Easting	Northing	Habitat Class	Compliance	Issue	Additional Mitigation	2019 Site Visit
N1	N1-Aqua-131	North Moswakot River	714738	6267847	Important	N	Bare ground at watercourse crossing	Regrowth occurring slowly, may require ESC measures	N
N1	N1-Aqua-135	Unnamed tributary of S. Moskwakot River	713868	6259787	Marginal	N	Trees/slash in channel	Consider removing	N
N1	N1-Aqua-161	Unnamed tributary of the Burntwood River	641779	6227876	Marginal	N	Trees/slash in channel	Consider removing	N
N1	N1-Aqua-167	Unnamed tributary of the Burntwood River	621912	6215061	Marginal	N	Trees/slash in channel	Consider removing	N
N1	N1-Aqua-169	Unnamed tributary of Odei River	619430	6211533	Marginal	N	Temporary crossing in place	Consider removing	N
N1	N1-Aqua-172	Unnamed tributary of Burntwood River	617341	6208379	No Fish Habitat	N	Trees/slash in channel	No remediation; no fish habitat	N
N2	N2-Aqua-119	Unnamed tributary of Partridge Crop Lake	594113	6172024	Marginal	N	Trees/slash in channel	None. Beaver Impacted	N

5.0 MAPS



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

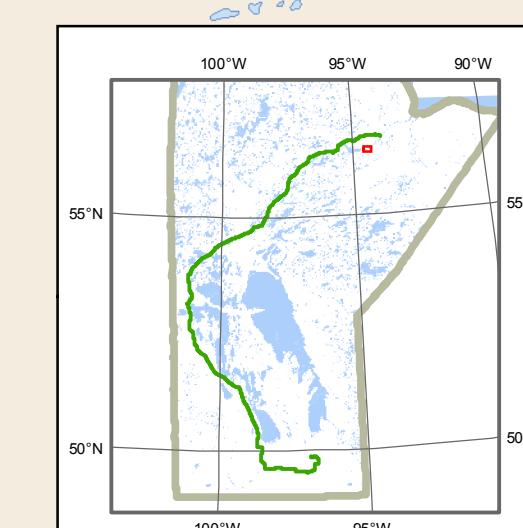
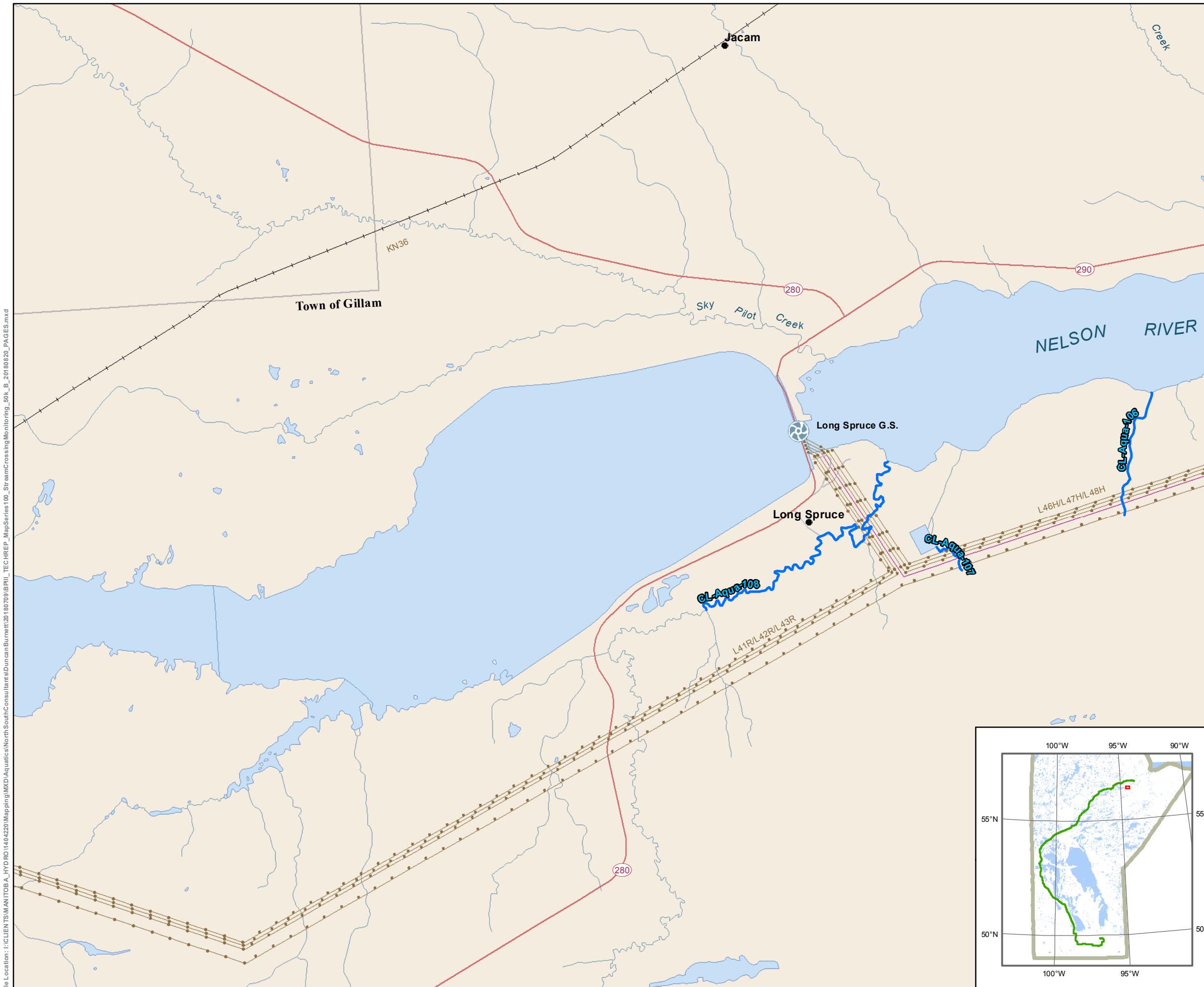
- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Road
- - Active Railway
- Transmission Line
- Watercourse
- Waterbody



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

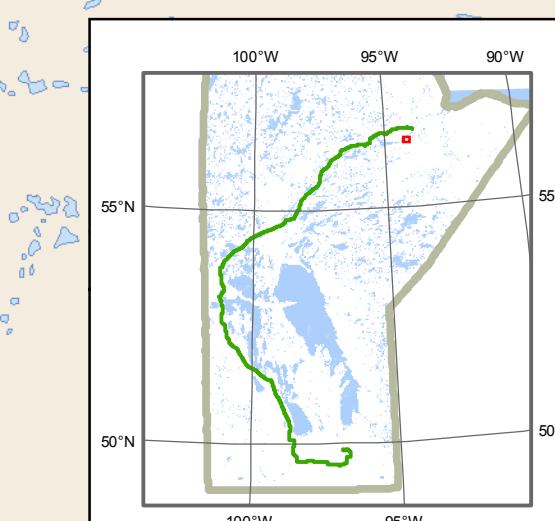
Landbase

- Community
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- First Nation
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018

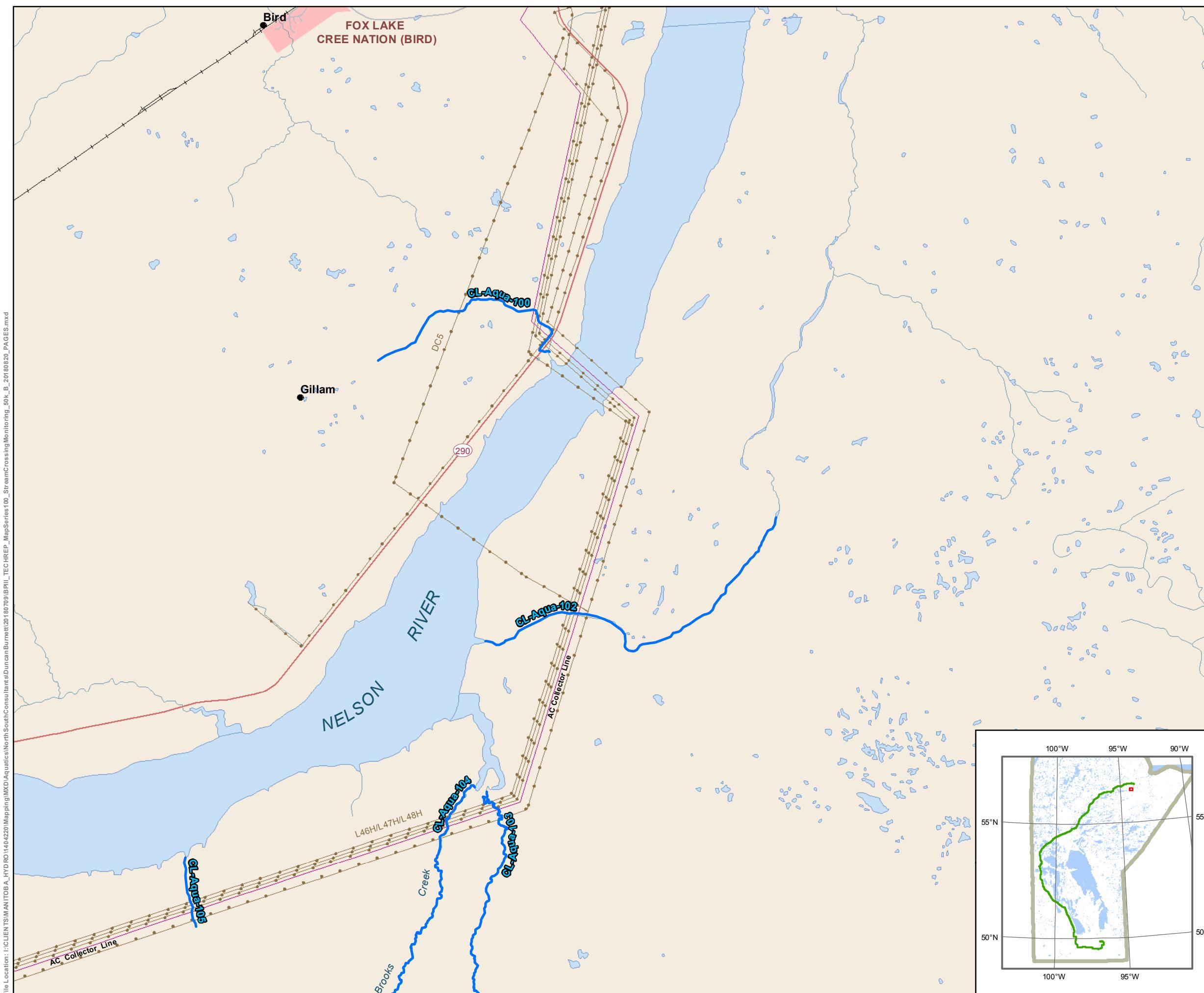


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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 02



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Road
- - Active Railway
- Transmission Line
- Watercourse
- Waterbody

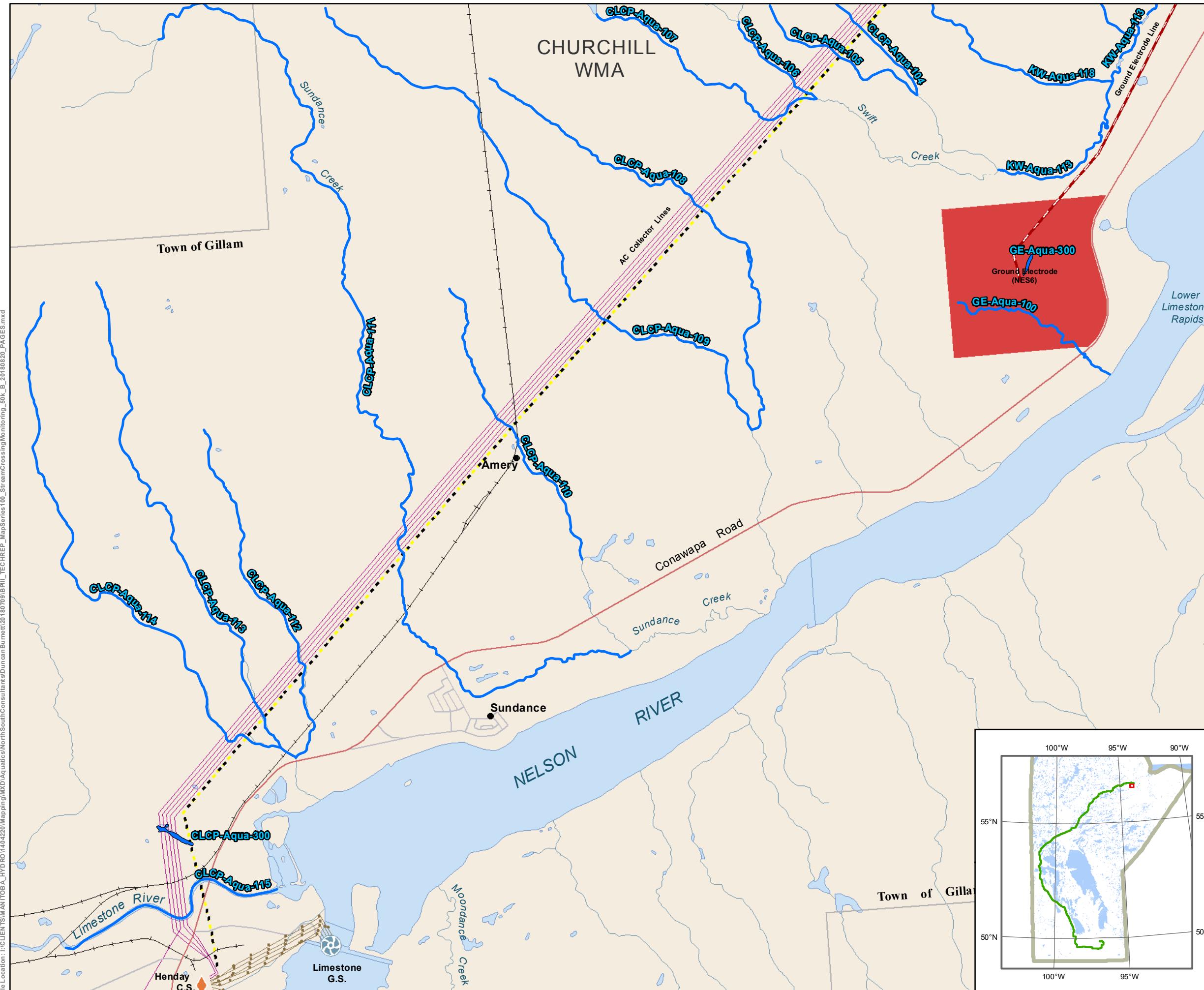
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 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 03



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

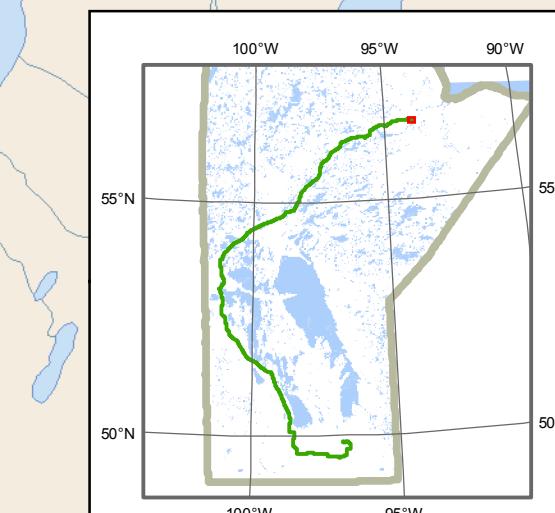
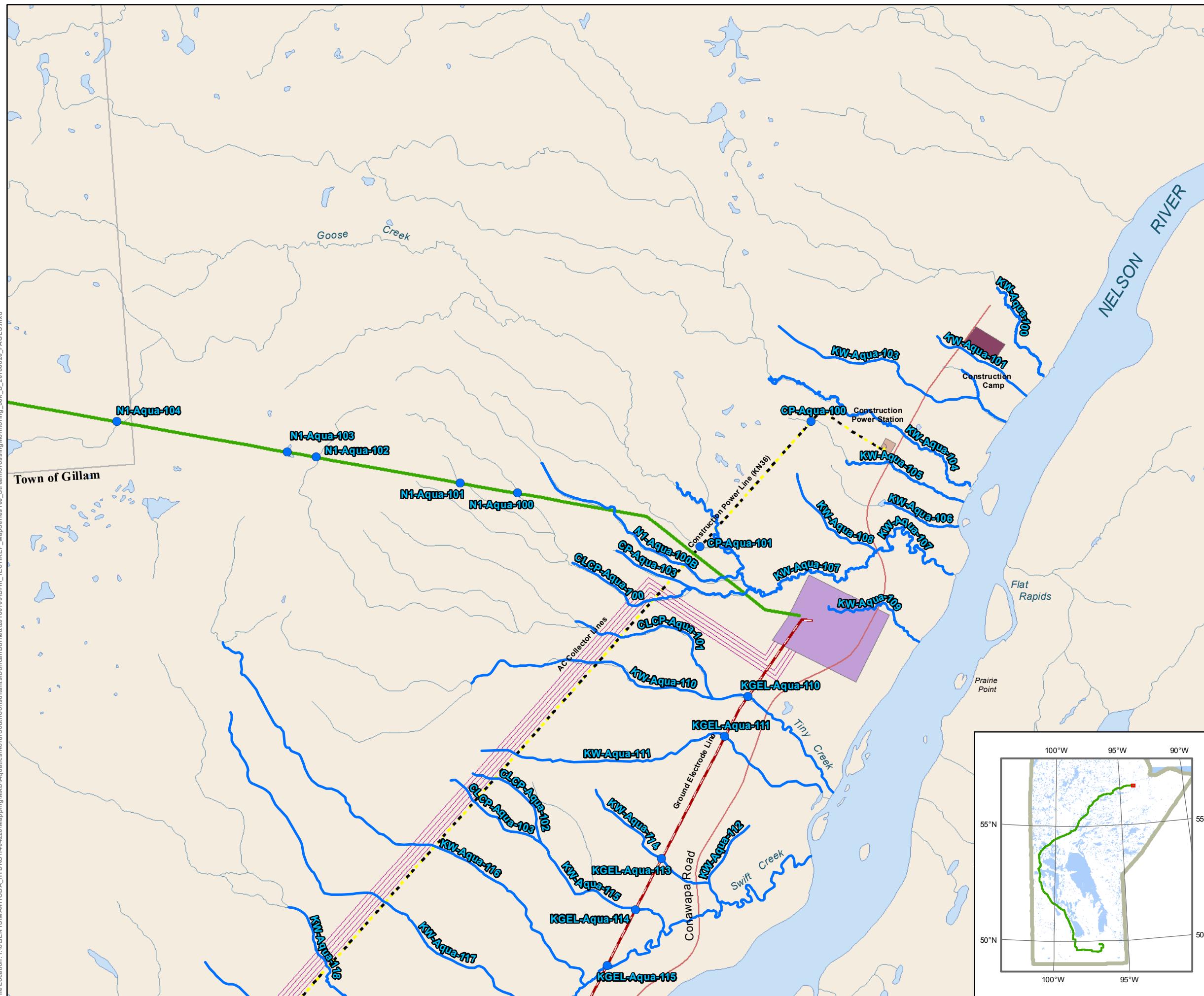
- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- Waterbody



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Active Railway
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018

0 0.5 1 Kilometres
 0 0.5 1 Miles



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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 05

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

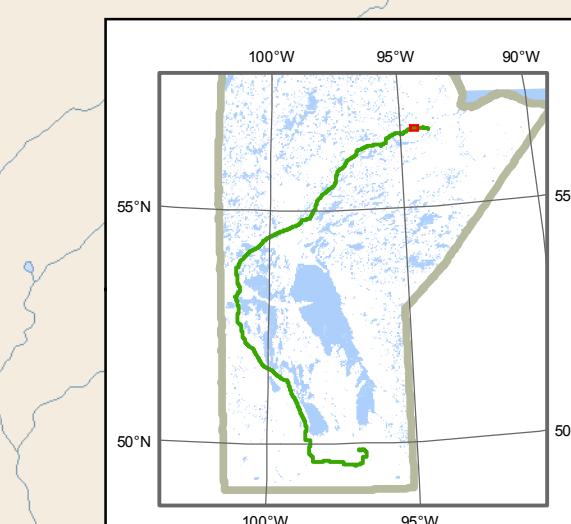
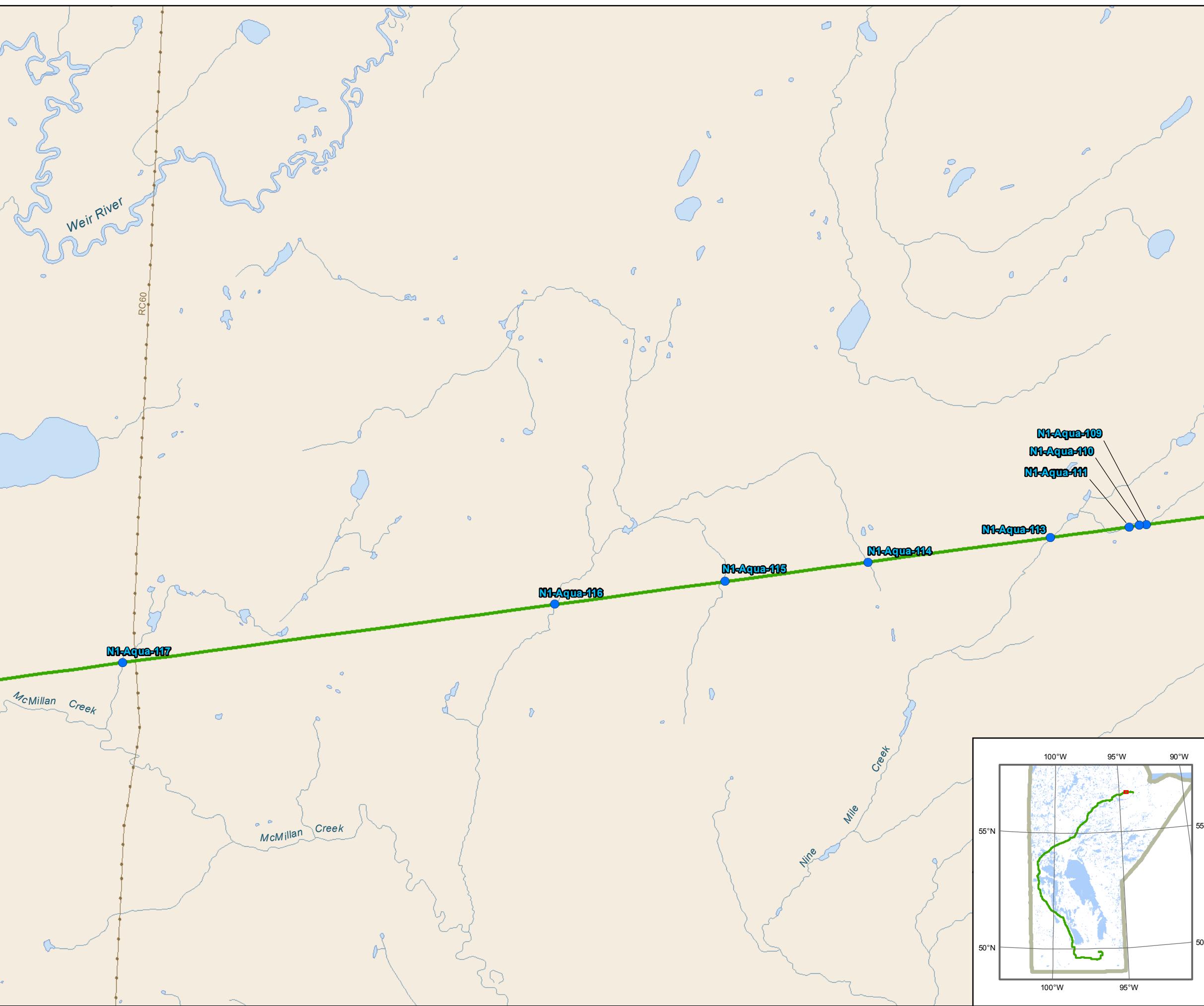
Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Transmission Line
- Watercourse
- Waterbody

File Location: I:\CLIENTS\MANITOBA.HYDRO\1404220\Mapping\MXD\Aquatics\NorthSouthConsultant\Burrard(20180709)BPHI_TECUREP_MapSeries 00_ Stream Crossing Monitoring_50k_B_20180620_PAGES.mxd



Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: October 30, 2018

0 0.5 1 Kilometres
0 0.5 1 Miles



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**Stream Crossing
Compliance Monitoring
2018**

Map Series 100 - 06

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

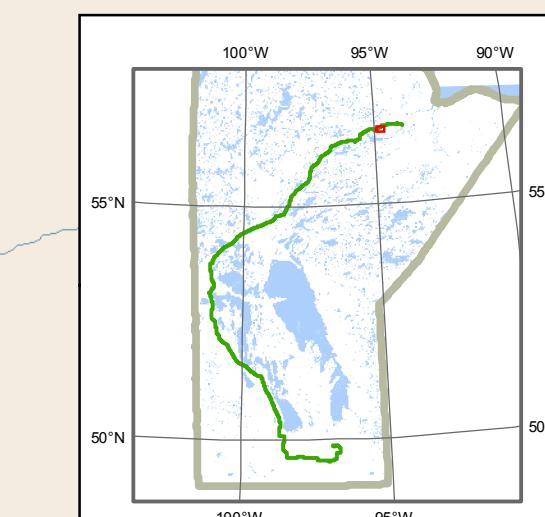
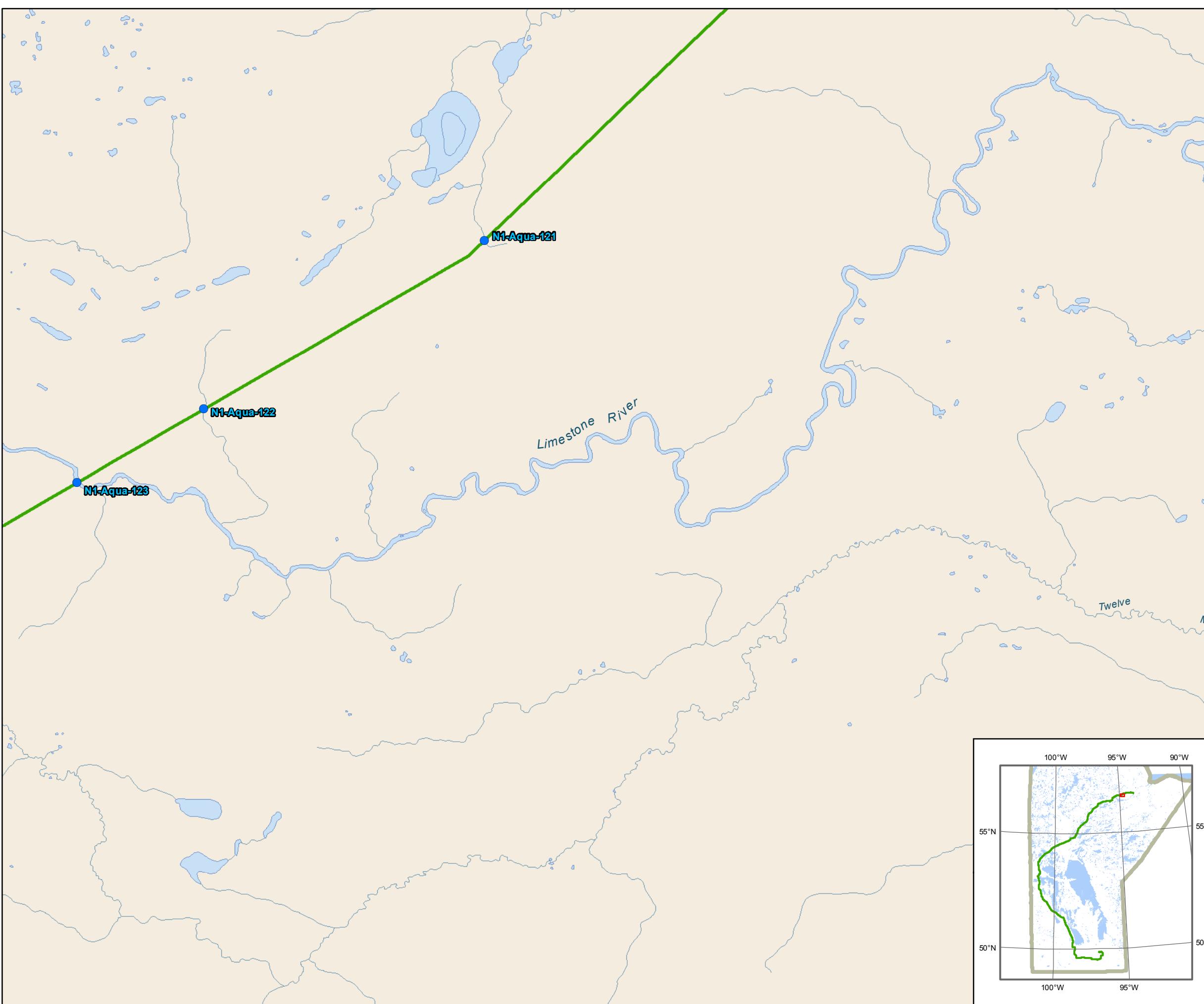
Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Watercourse
- Waterbody

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Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: October 30, 2018

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0 0.5 1 Miles



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**Stream Crossing
Compliance Monitoring
2018**

Map Series 100 - 08

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
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 Date Created: October 30, 2018

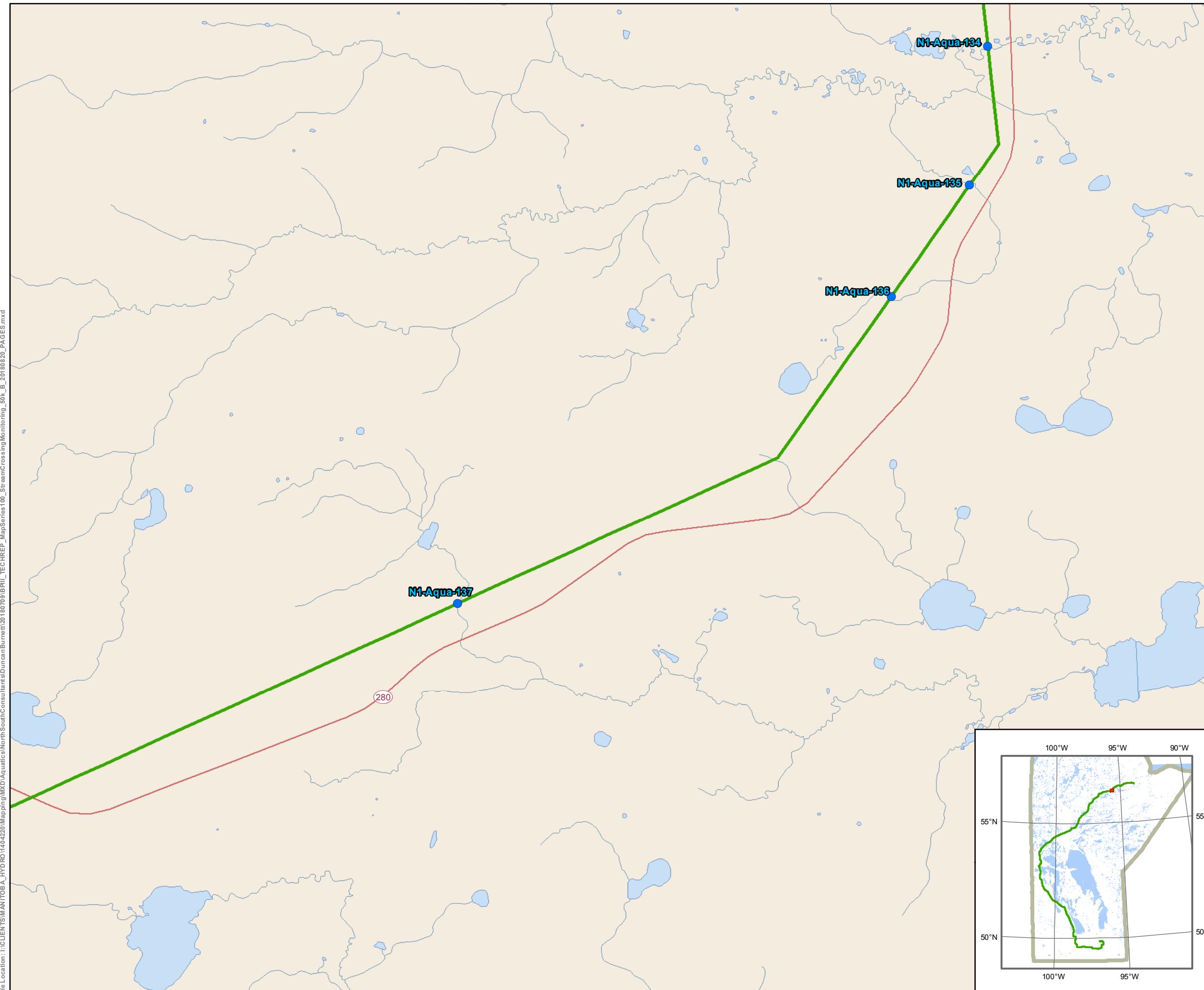


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**Stream Crossing
Compliance Monitoring
2018**

Map Series 100 - 12



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

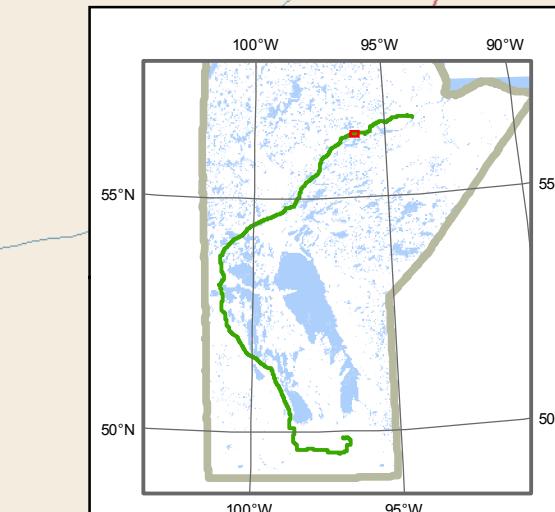
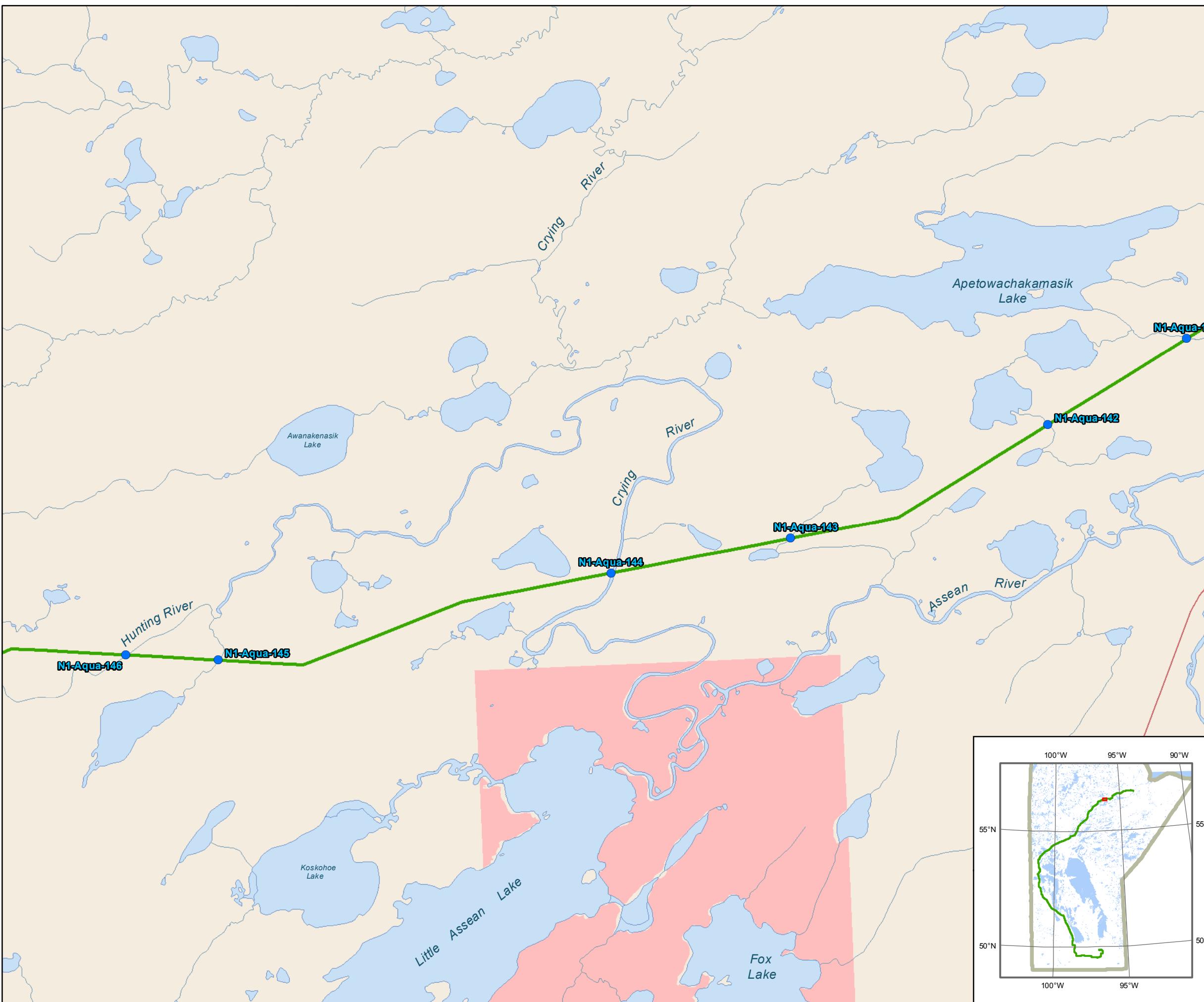
Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- First Nation
- Waterbody

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**Stream Crossing
Compliance Monitoring
2018**

Map Series 100 - 14

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- First Nation
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018

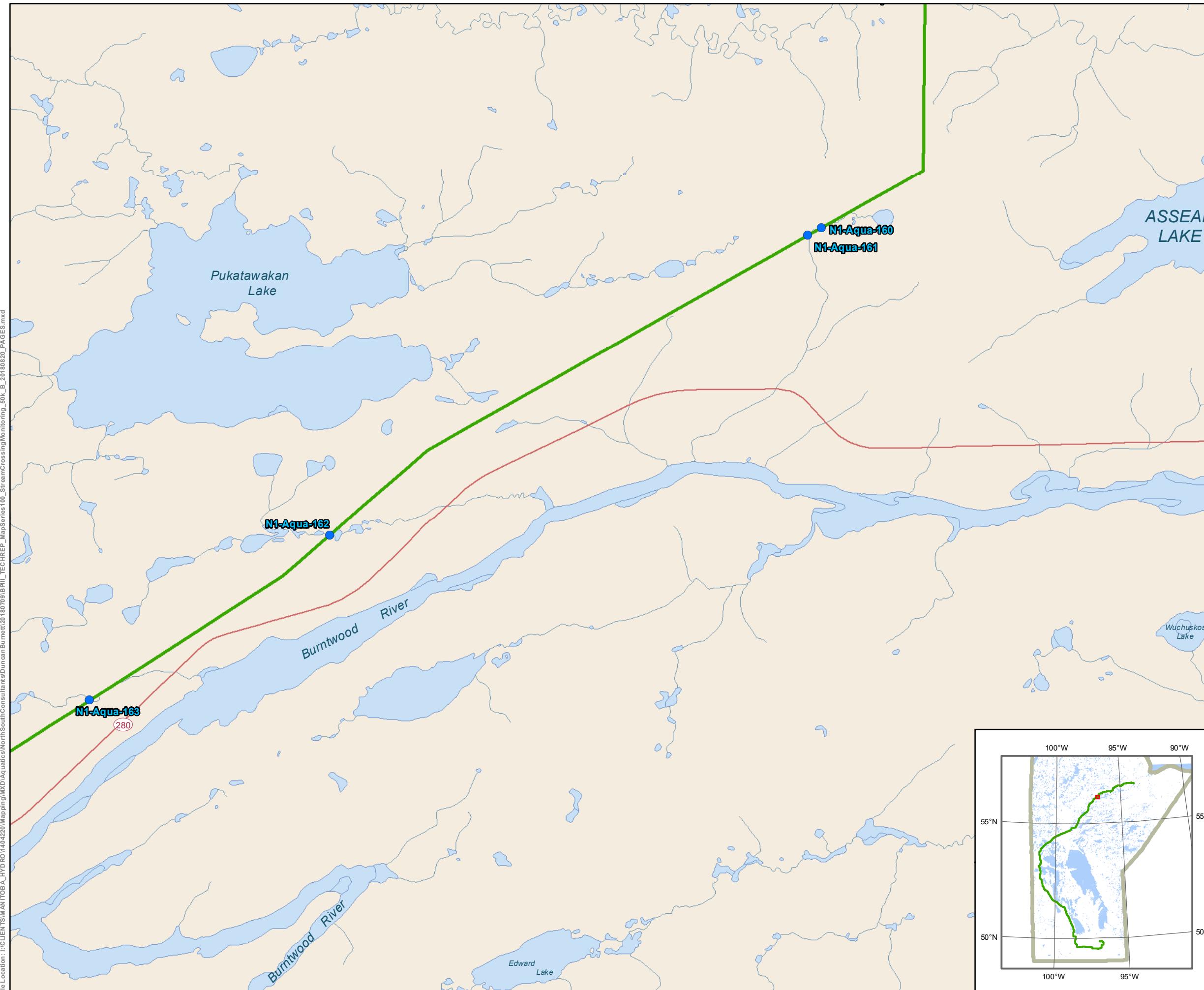


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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 17



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

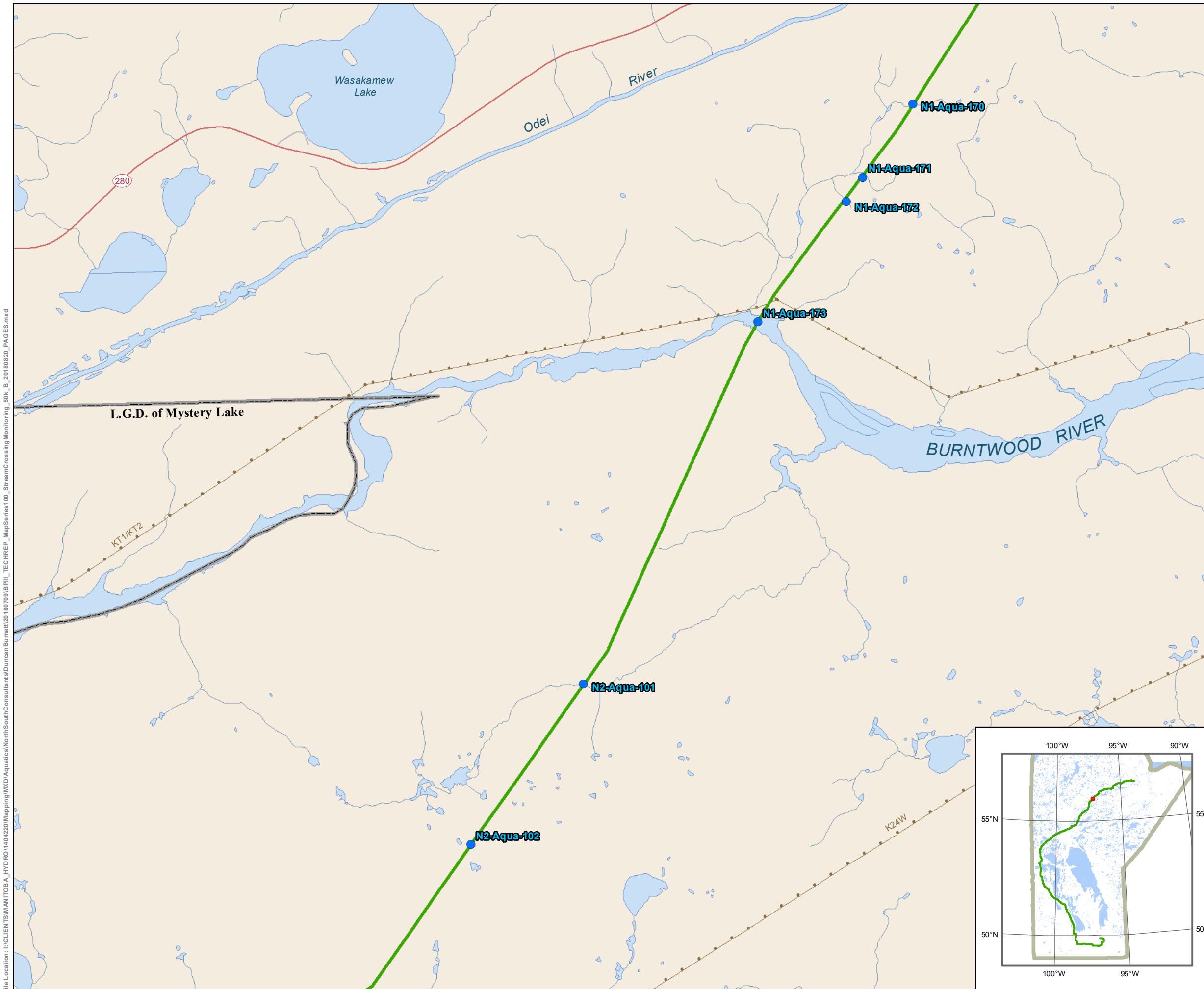
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**Stream Crossing
Compliance Monitoring
2018**

Map Series 100 - 19



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Transmission Line
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
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 Date Created: October 30, 2018

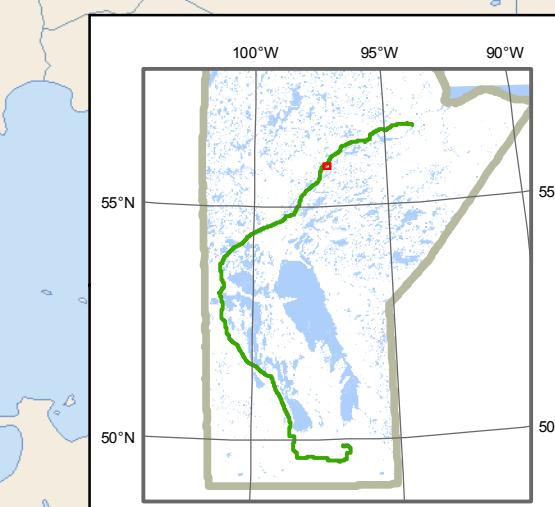
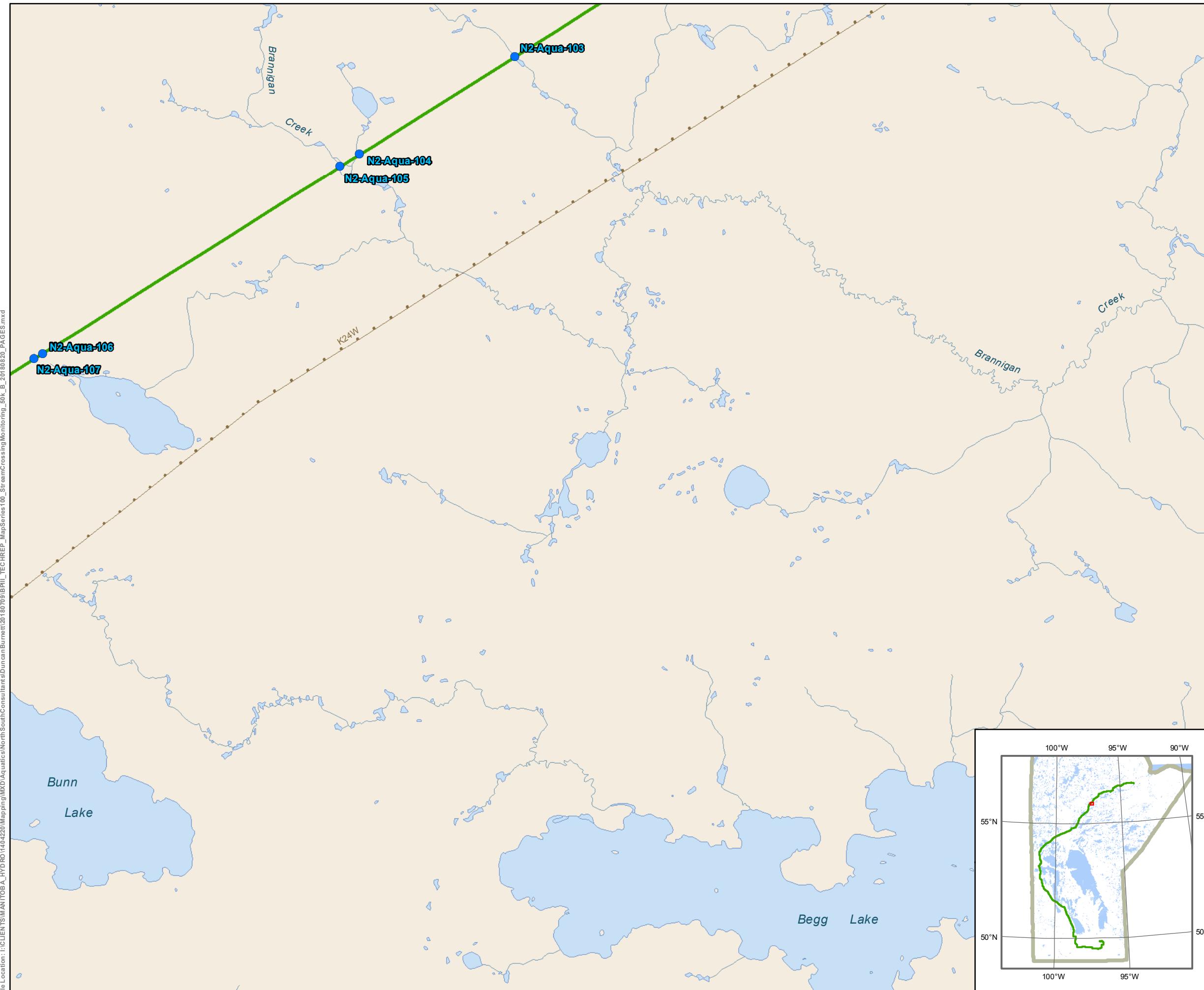


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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 20



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

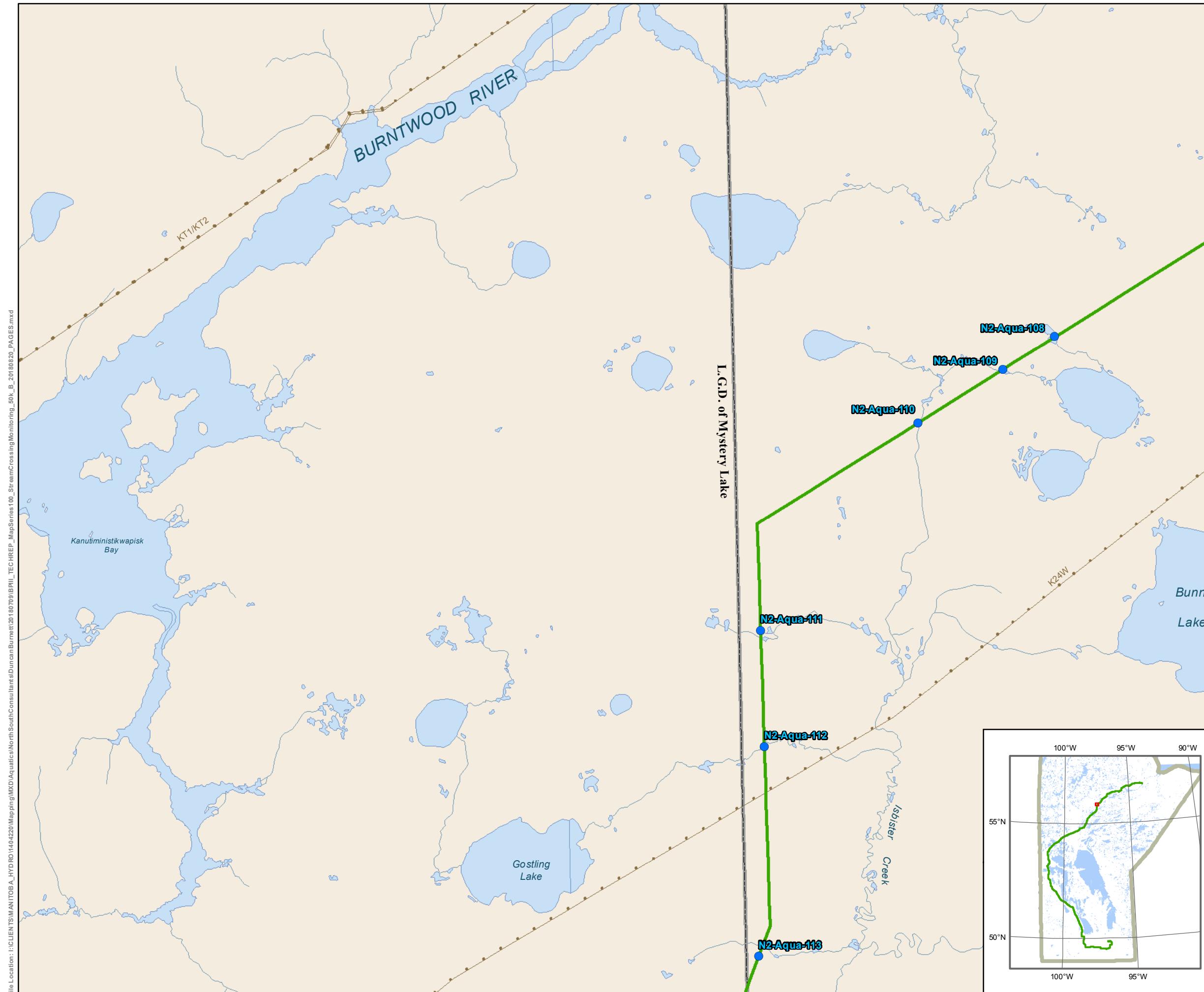
Landbase

- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

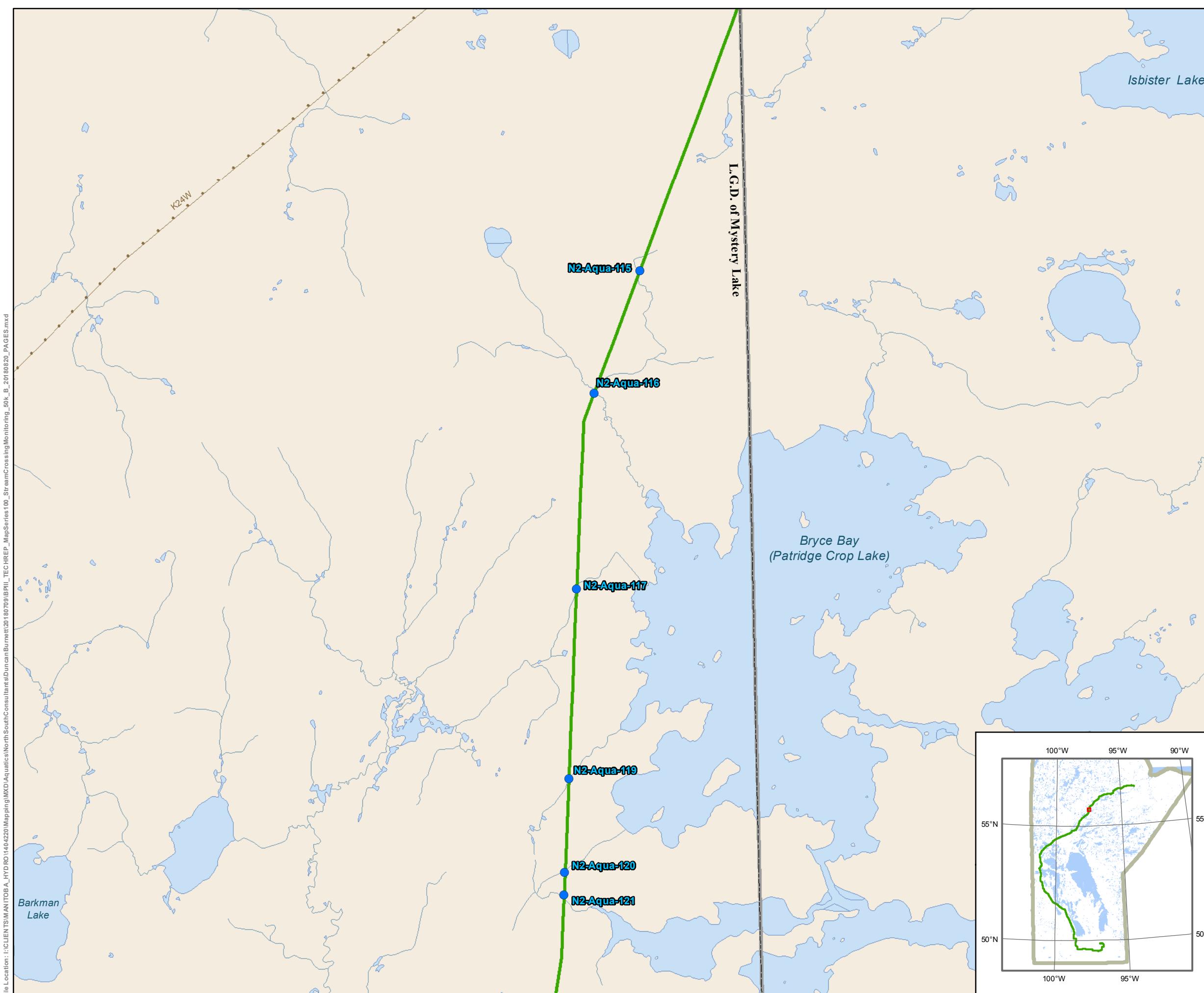
Landbase

- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Active Railway
- Watercourse
- Rural Municipality
- Waterbody

File Location: \CLIENTS\MANITOBA.HYDRO\144220\Mapping\NWD\Aquatics\NorthSouthConsultant\NorthSouthConsultant\MapSeries 400 Stream Crossing Monitoring_50k_B_20180709.DPL_TCEURP_MapSeries.mxd



Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: October 30, 2018

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0 0.5 1 Miles



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**Stream Crossing
Compliance Monitoring
2018**

Map Series 100 - 23

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

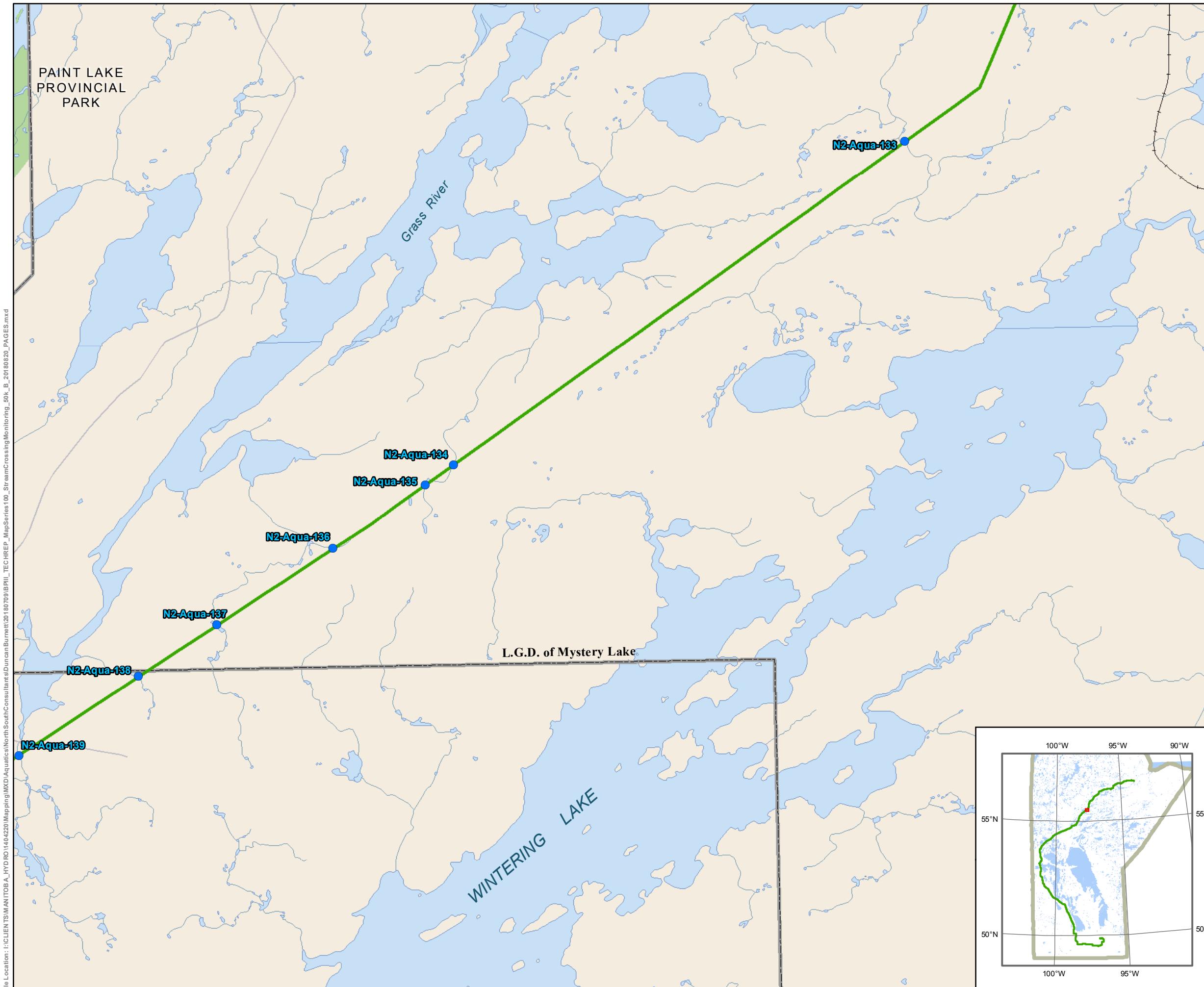
Landbase

- +/- Active Railway
- Watercourse
- Rural Municipality
- National / Provincial Park
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

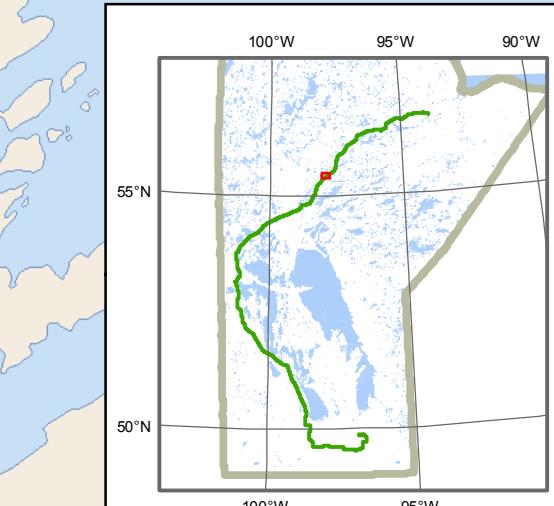
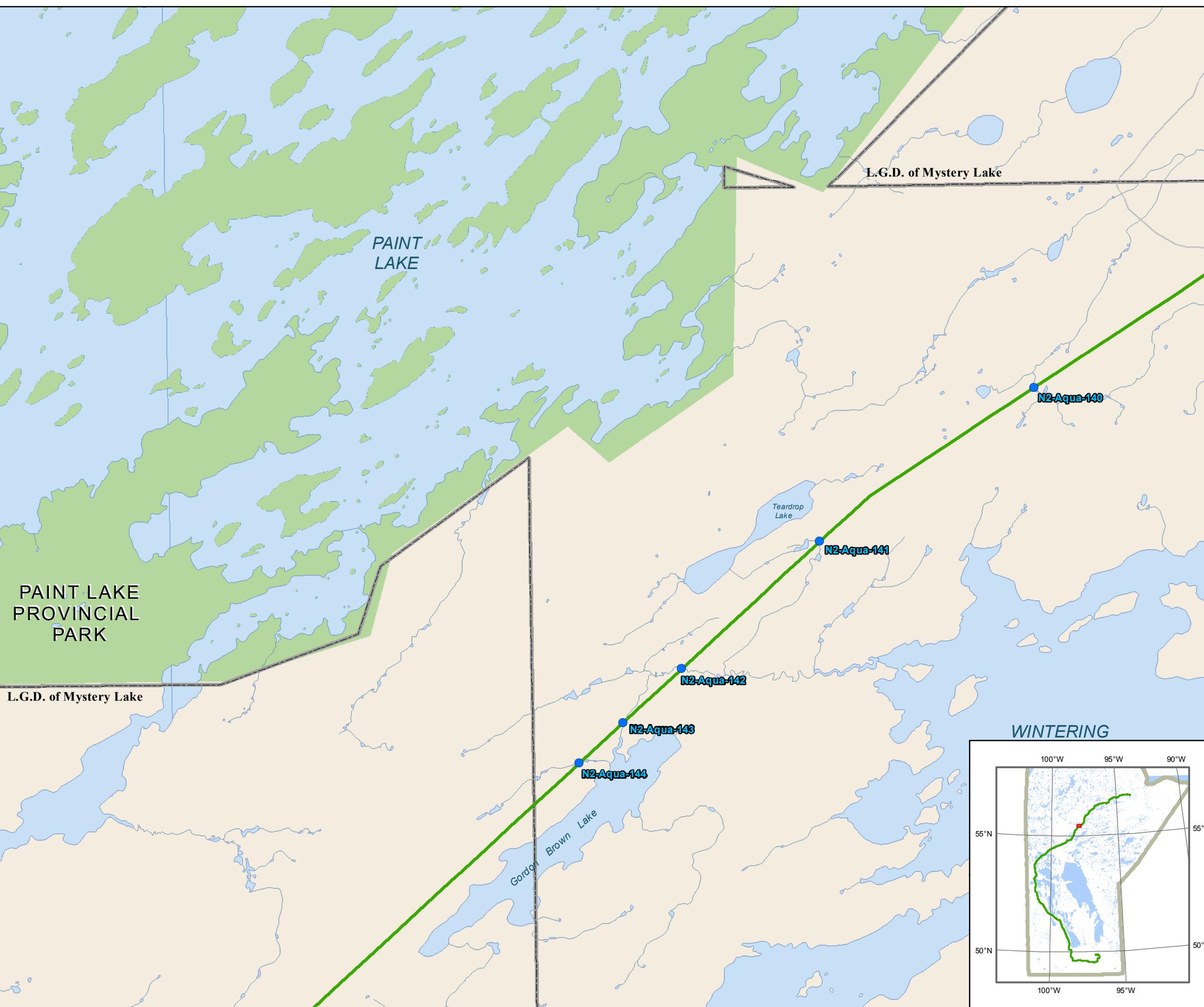
Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Watercourse
- Rural Municipality
- National / Provincial Park
- Waterbody

File location: \CLIENTS\MANITOBA.HYDRO\144220\Mapping\NWD\Aquatics\NorthSouthConsultant\Burnett\20180709\BPII_TECURF_Maps\series 400_Stream Crossing Monitoring_50k_B_20180620_PAGES.mxd



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

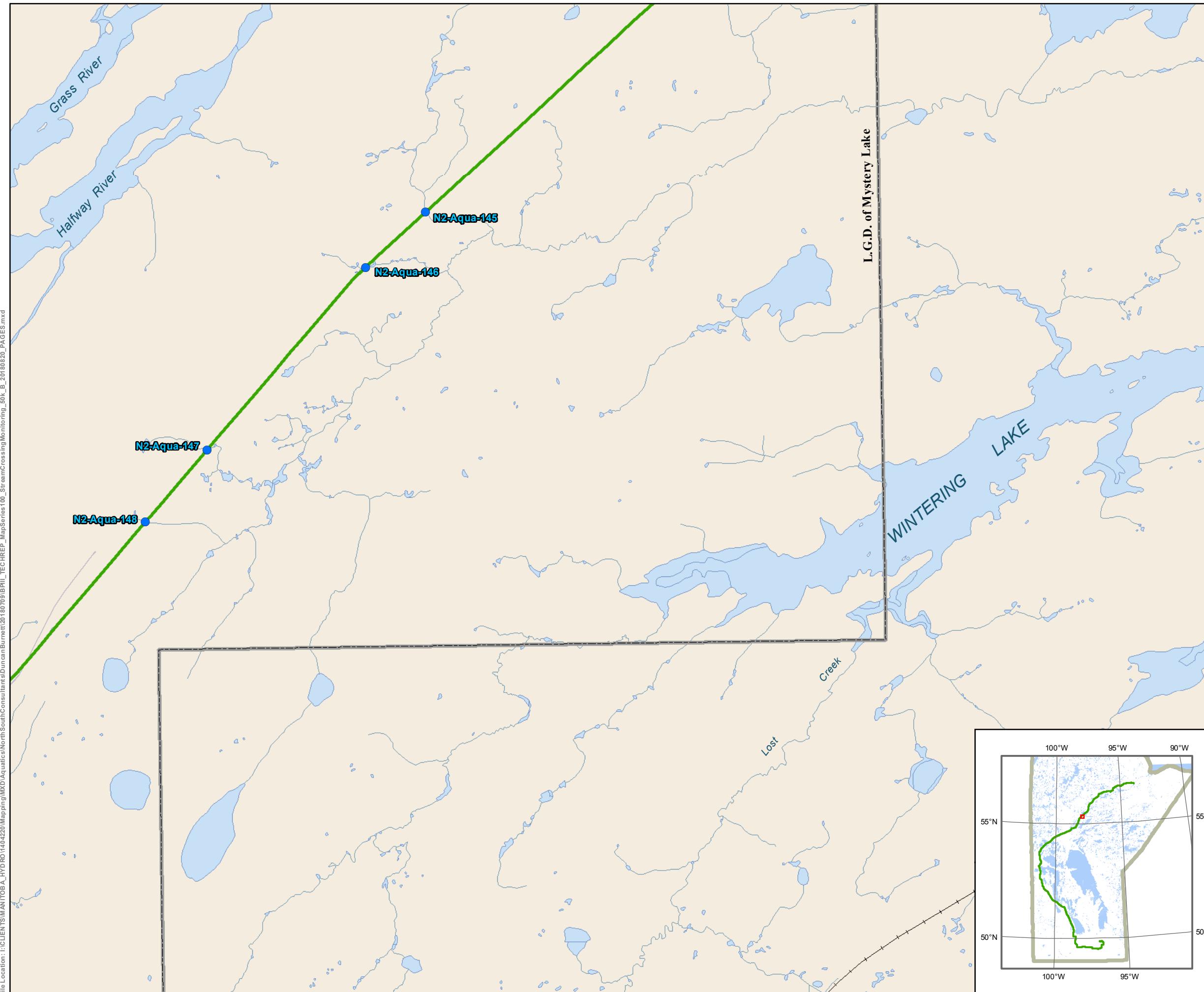
Landbase

- +/- Active Railway
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

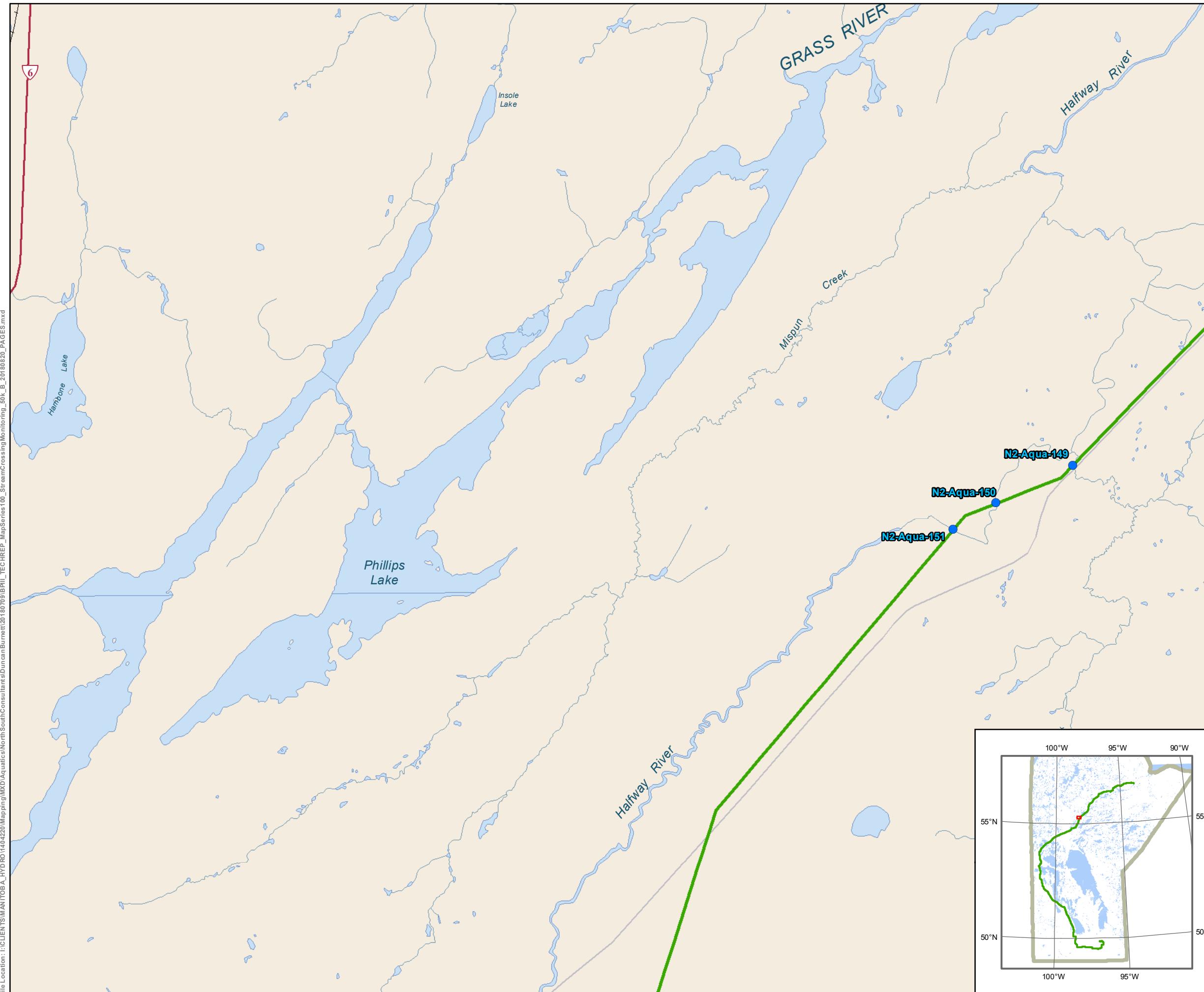
Landbase

- Provincial Highway
- Active Railway
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

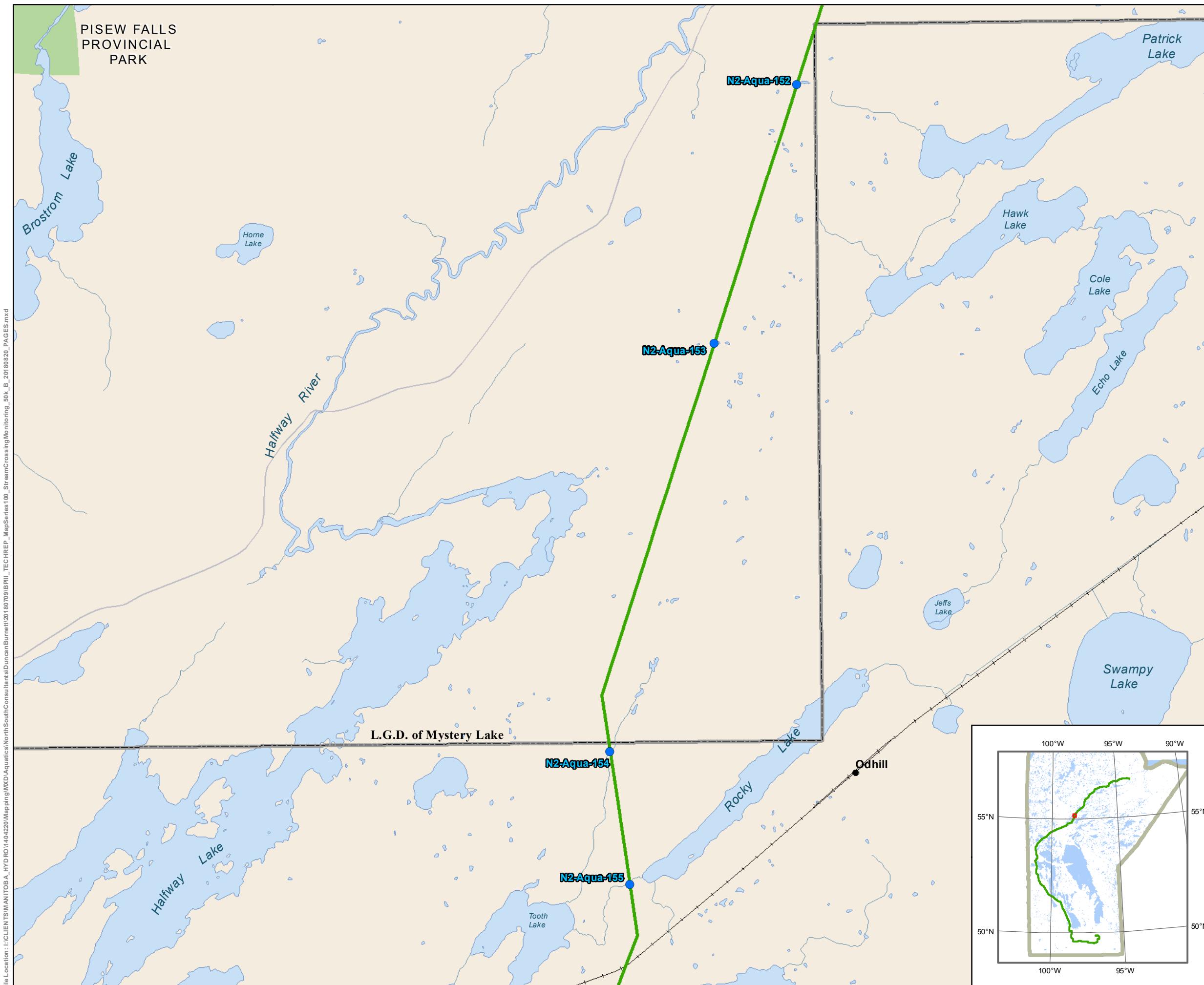
Landbase

- Community
- Active Railway
- Watercourse
- Rural Municipality
- National / Provincial Park
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Active Railway
- Watercourse
- Waterbody

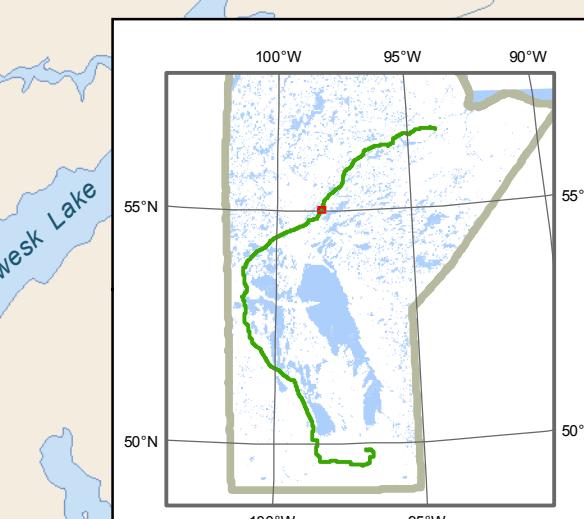
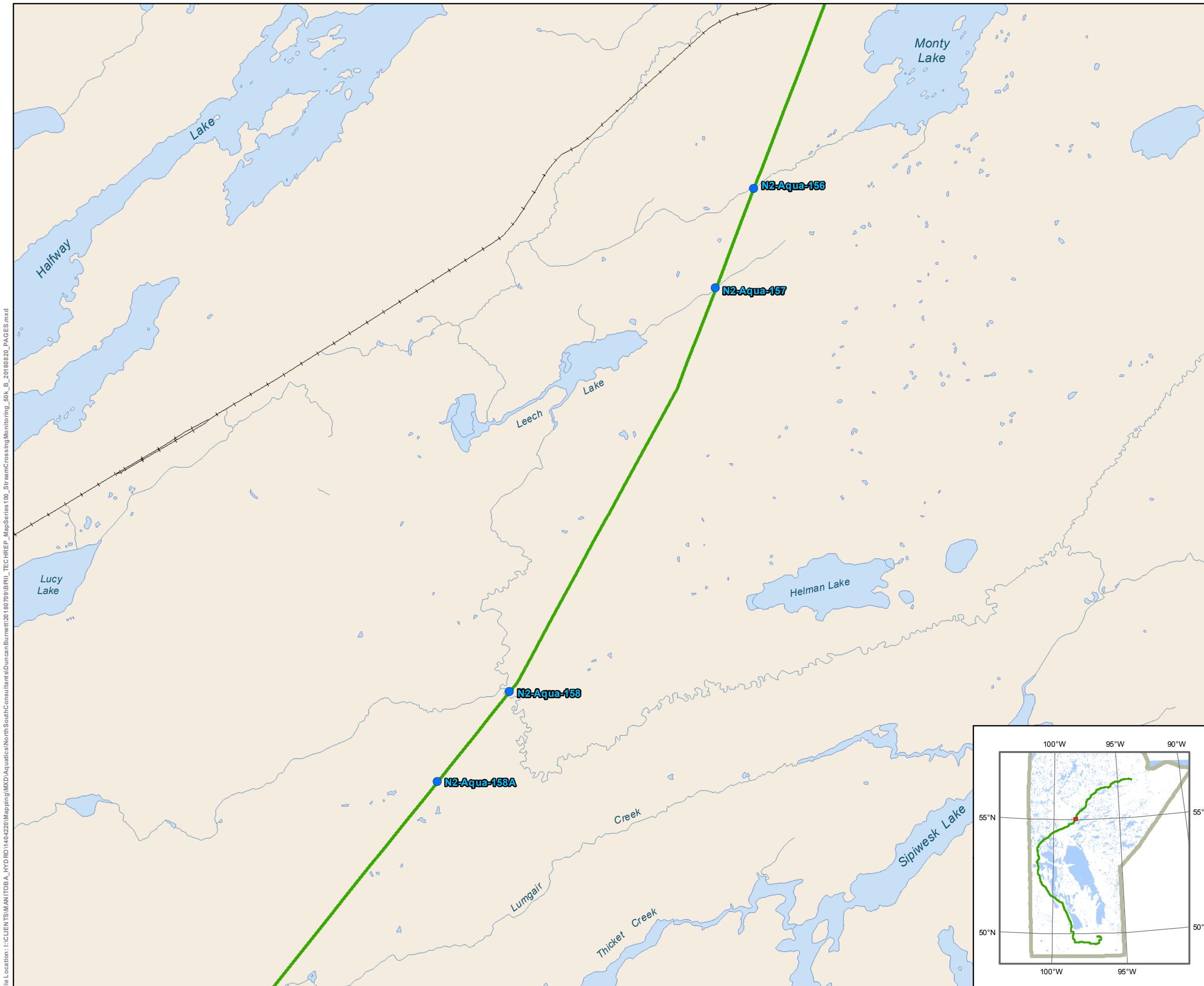
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 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



0 0.5 1 Kilometres
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Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Active Railway
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

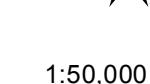
Landbase

- Community
- Provincial Road
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



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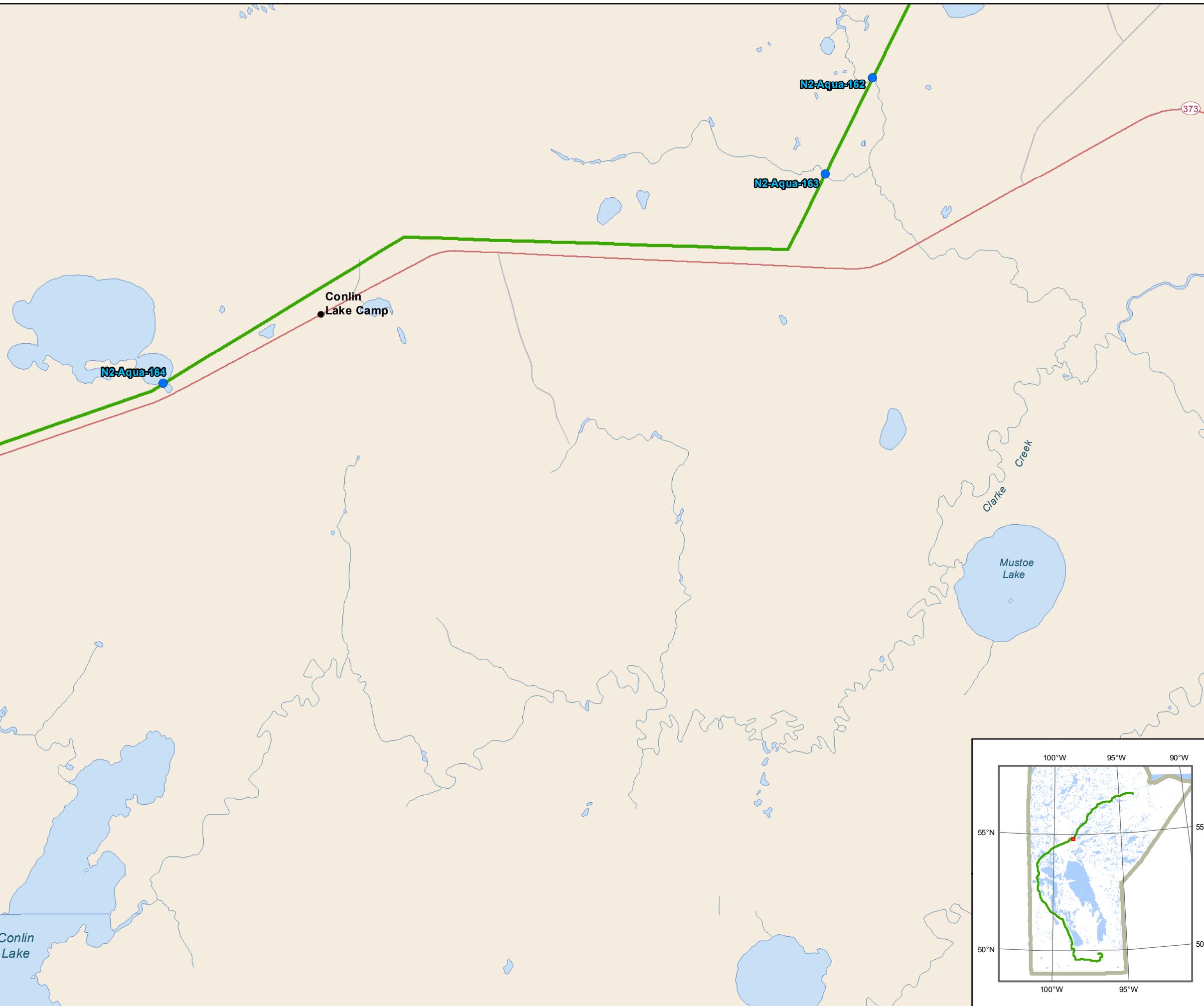


0 0.5 1 Kilometres

0 0.5 1 Miles

Stream Crossing Compliance Monitoring 2018

Map Series 100 - 31



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

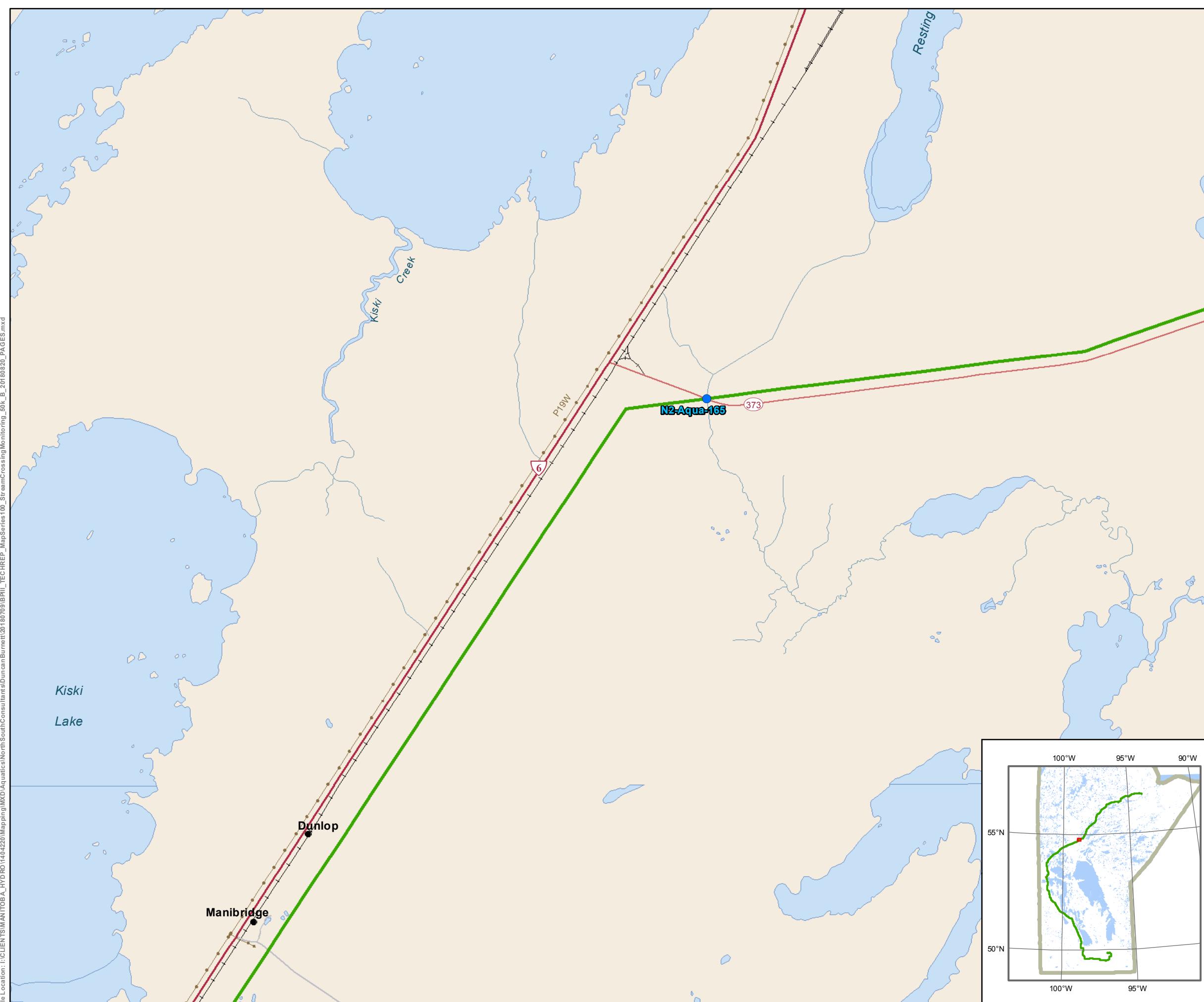
Landbase

- Community
- Provincial Highway
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Highway
- - - Active Railway
- Transmission Line
- Watercourse
- Waterbody

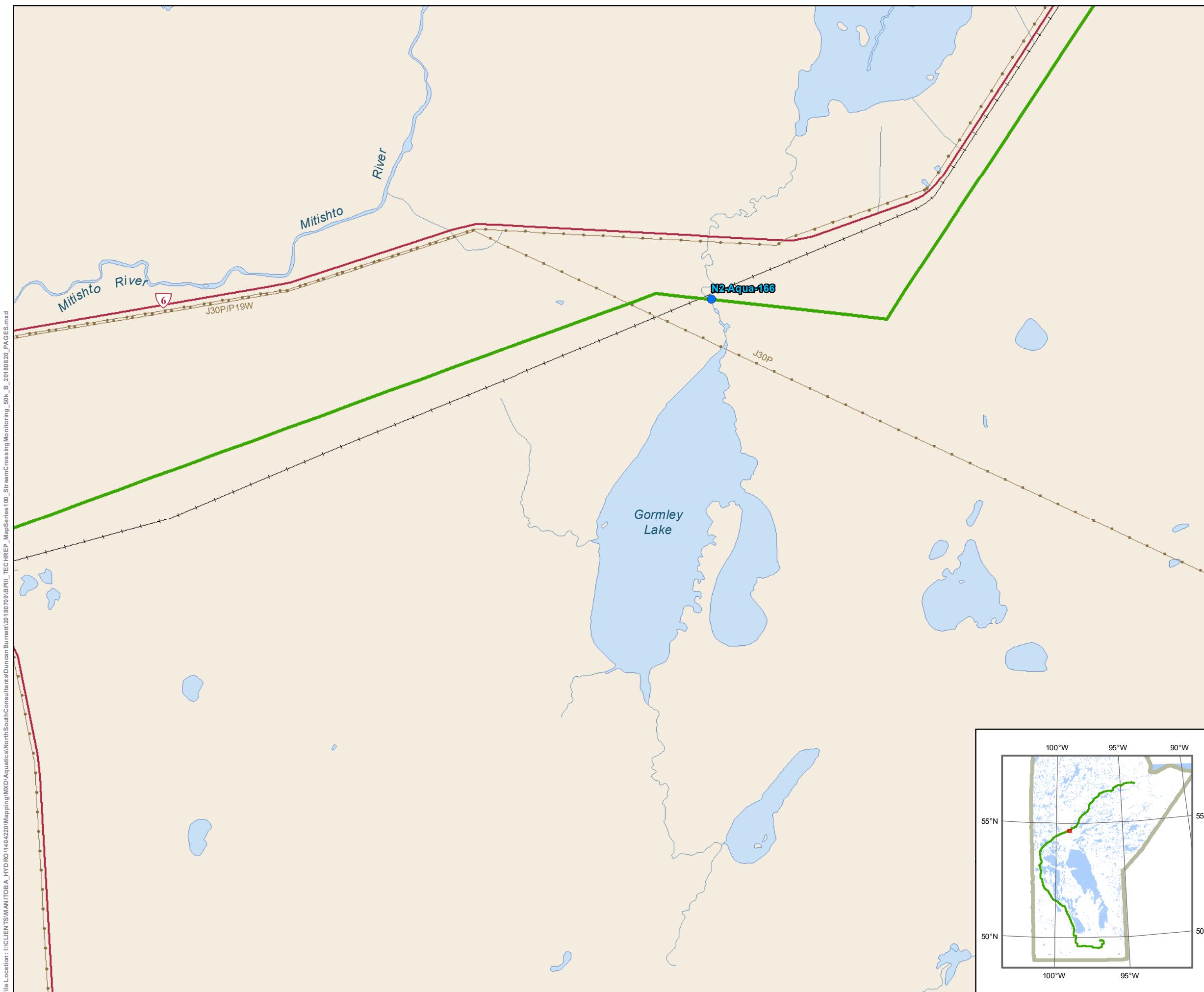
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 Date Created: October 30, 2018



0 0.5 1 Kilometres
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1:50,000

Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

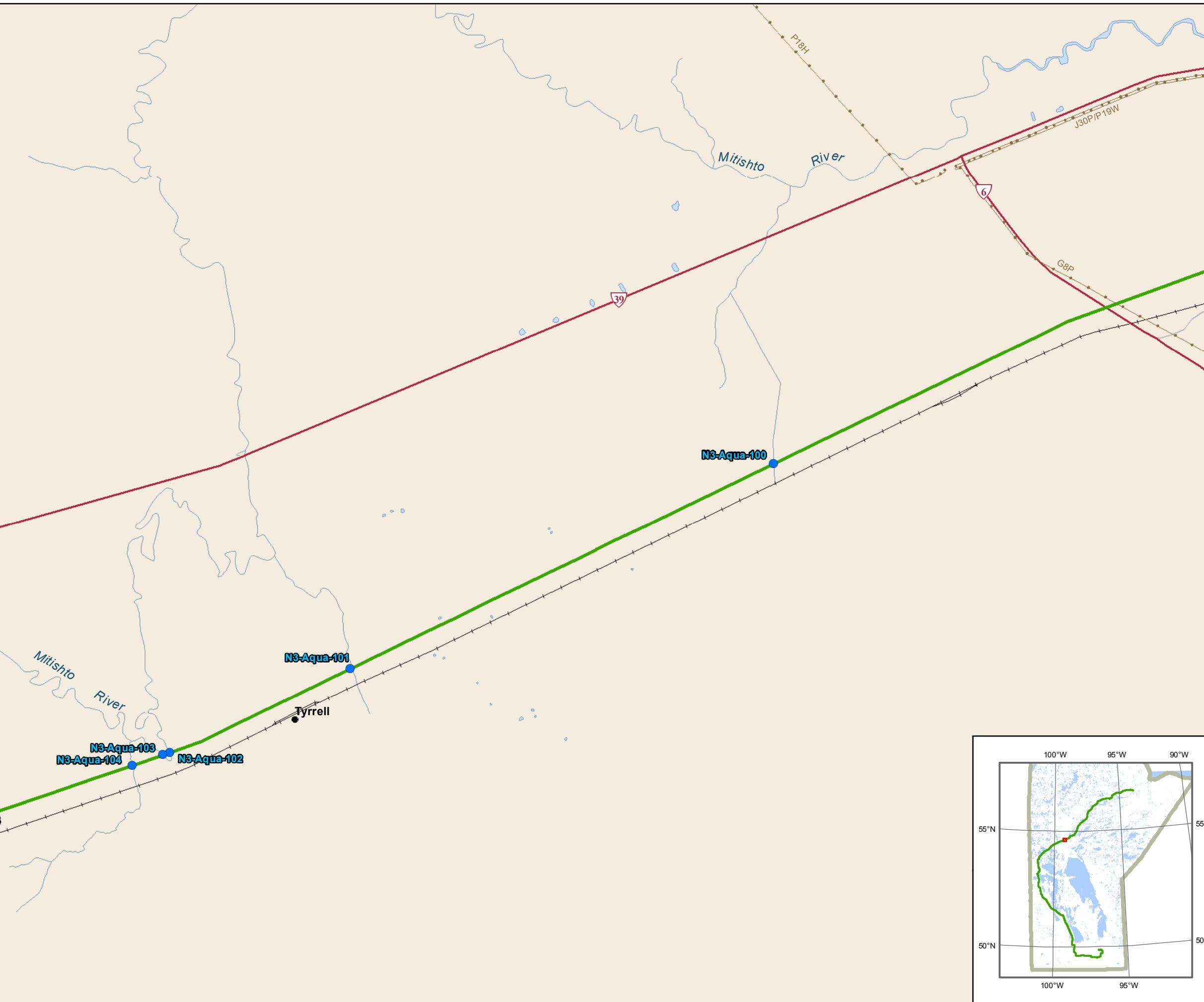
Landbase

- Community
- Provincial Highway
- Active Railway
- Transmission Line
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018

0 0.5 1 Kilometres
 0 0.5 1 Miles 1:50,000

Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

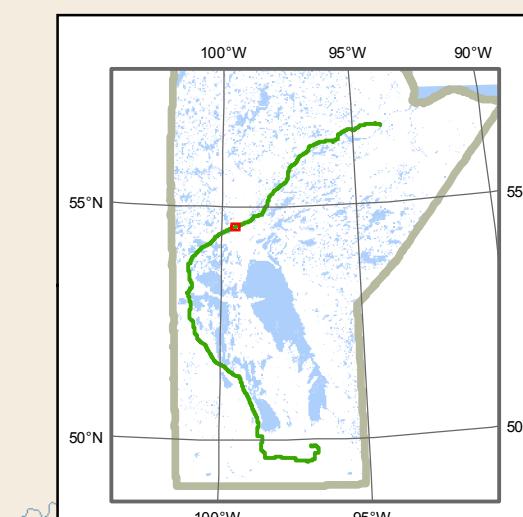
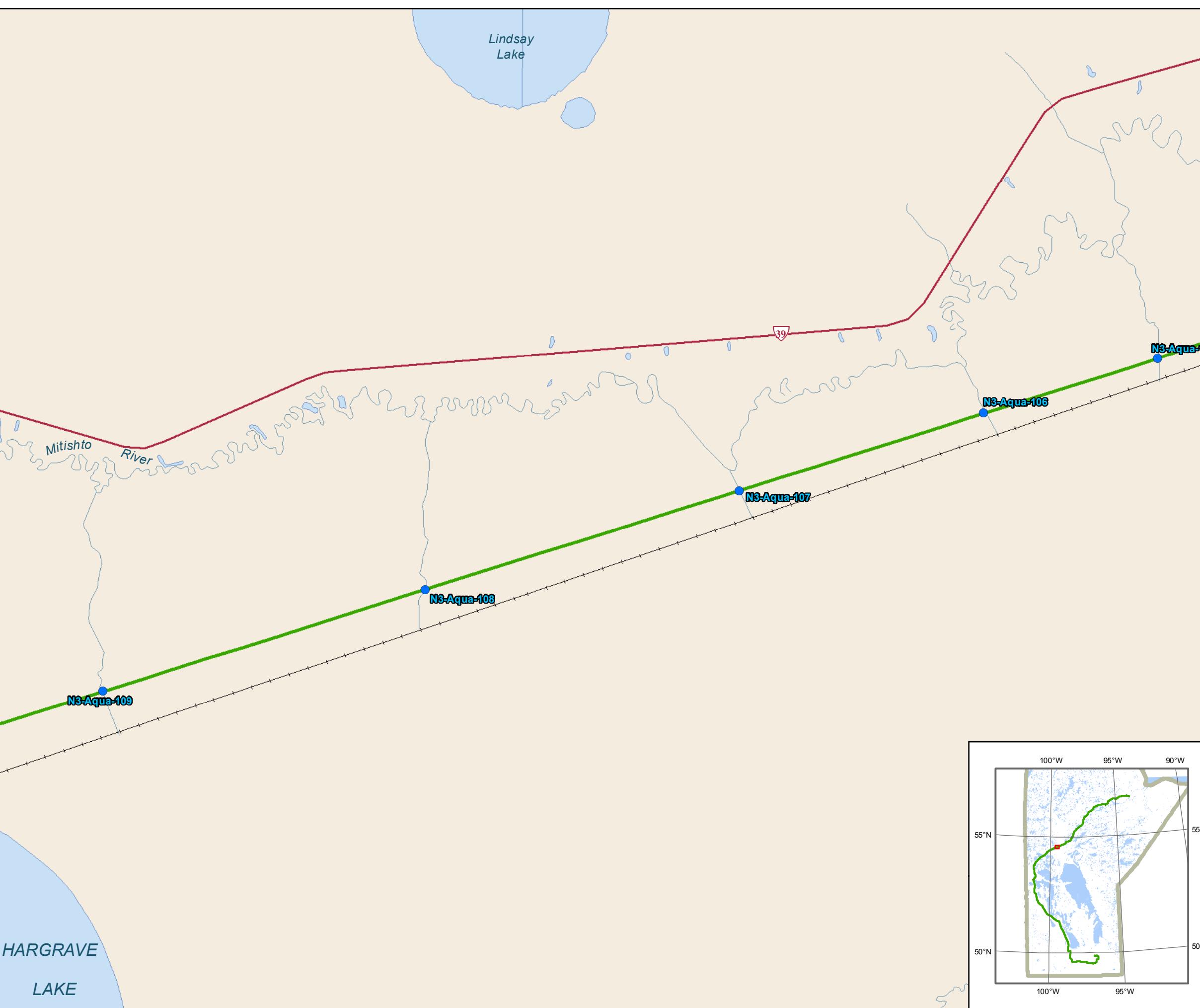
Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Highway
- - - Active Railway
- Watercourse
- Waterbody

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1:50,000

HARGRAVE
LAKE

**Stream Crossing
Compliance Monitoring
2018**

Map Series 100 - 35

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Provincial Road
- Active Railway
- Watercourse
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



0 0.5 1 Kilometres
 0 0.5 1 Miles

1:50,000

**Stream Crossing
Compliance Monitoring
2018**

Map Series 100 - 36



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Active Railway
- Transmission Line
- Watercourse
- Waterbody

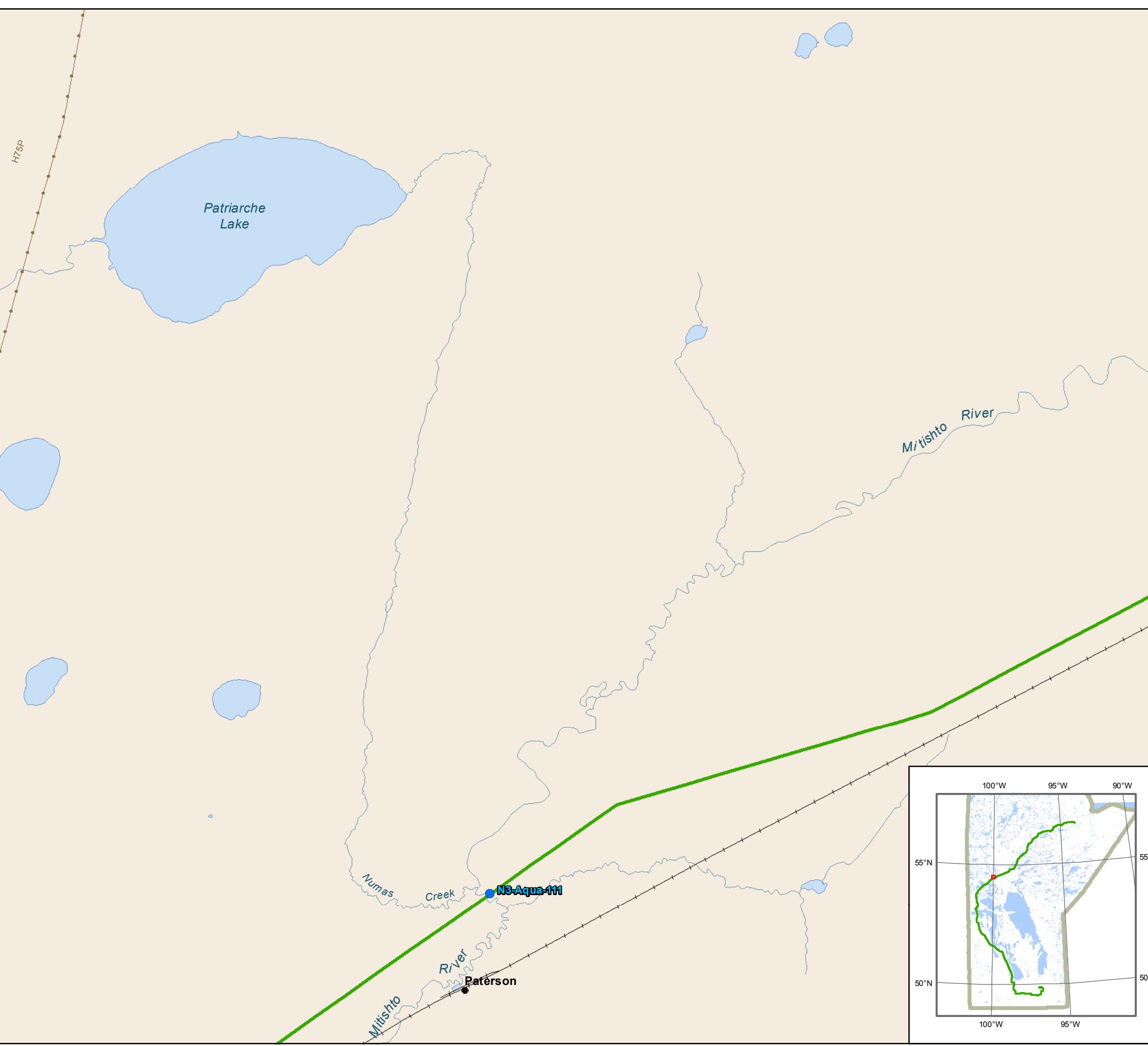
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 Date Created: October 30, 2018

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Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Active Railway
- Transmission Line
- Watercourse
- Waterbody

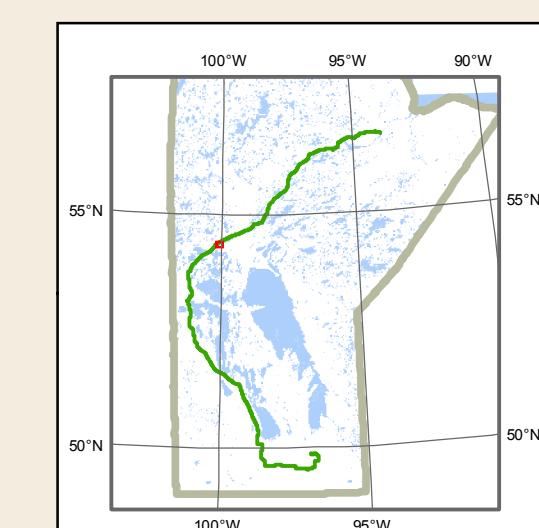
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 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



0 0.5 1 Kilometres
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Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

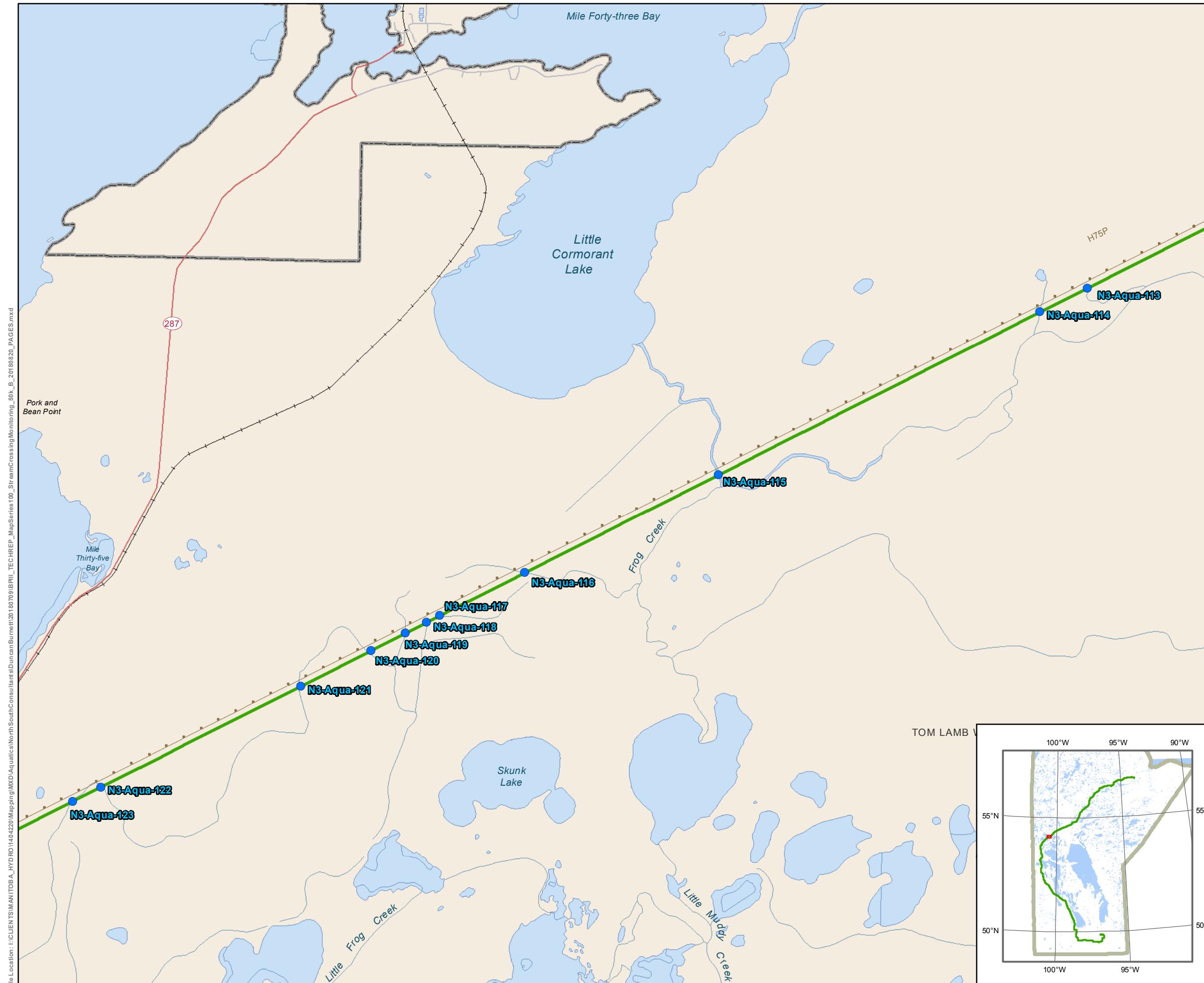
Landbase

- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- National / Provincial Park
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**

**CLEARWATER
LAKE
PROVINCIAL
PARK**

**CORMORANT
LAKE**



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

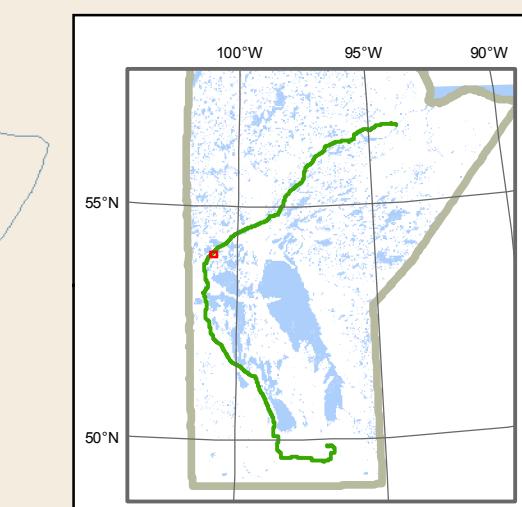
Landbase

- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- National / Provincial Park
- Waterbody

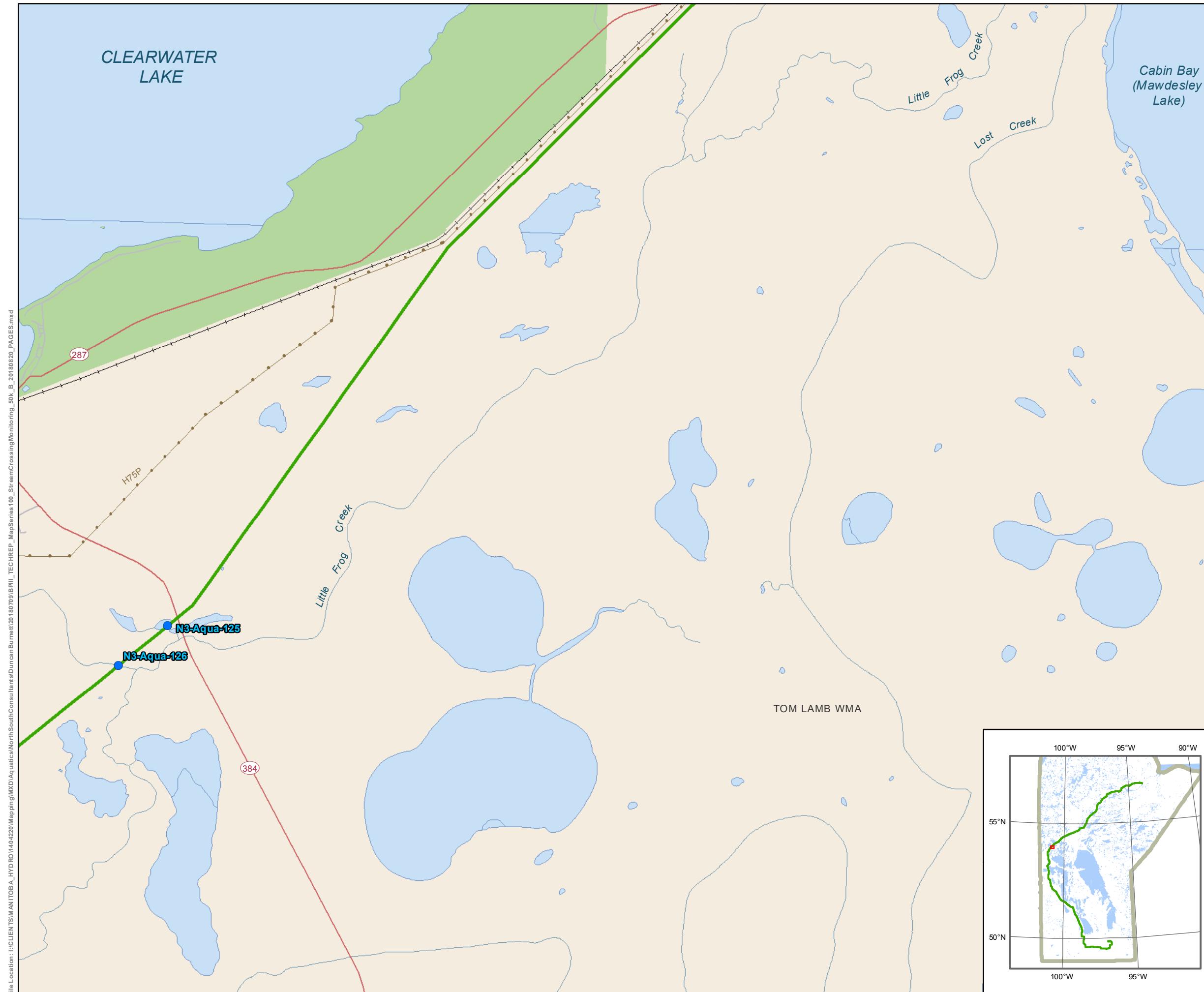
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 Date Created: October 30, 2018



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Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- National / Provincial Park
- Waterbody

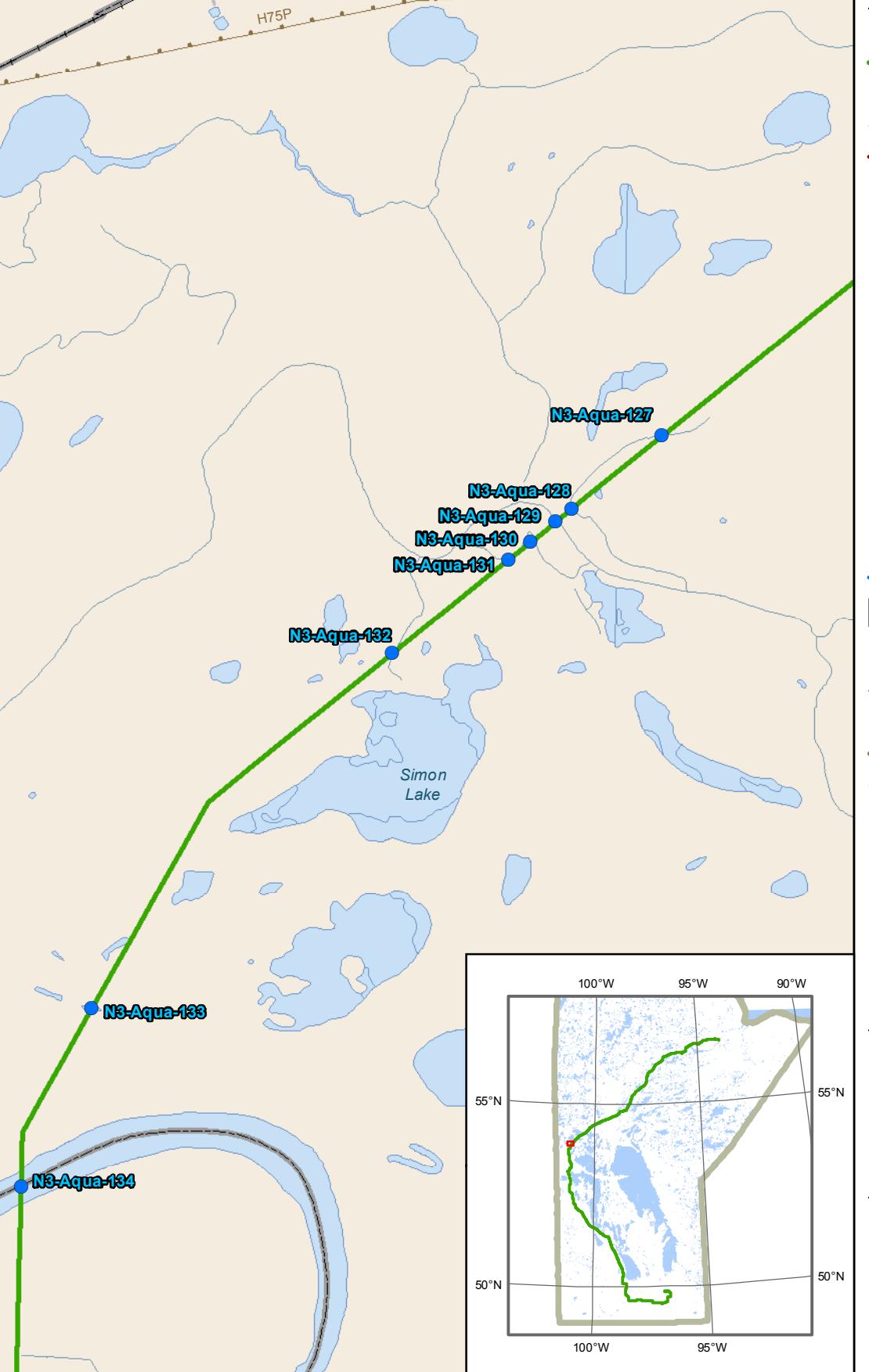
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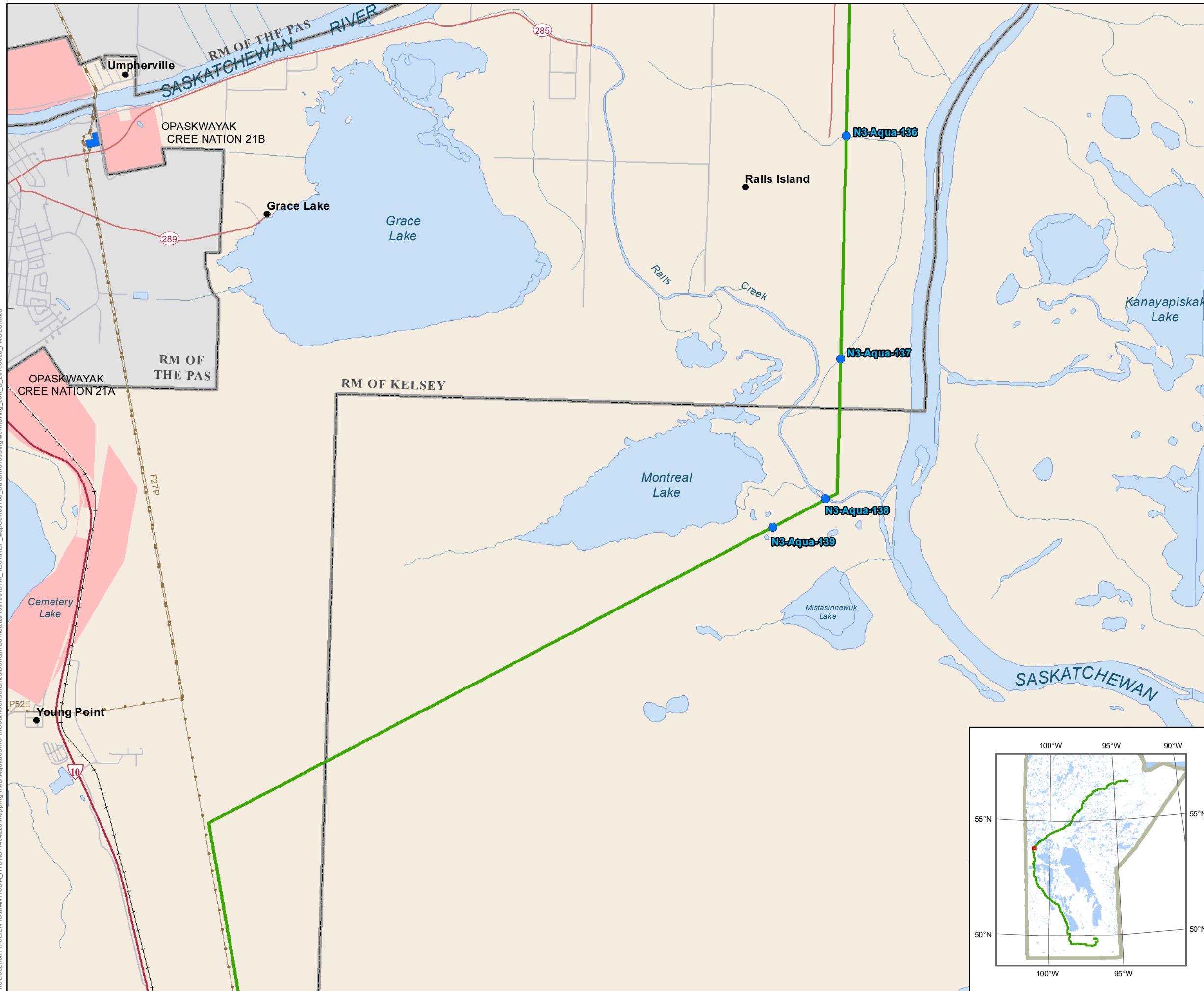


Stream Crossing Compliance Monitoring 2018

CLEARWATER
LAKE
PROVINCIAL
PARK

SASKATCHEWAN RIVER
RM OF KELSEY
RM OF THE PAS





Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
 - Converter Station Site
 - AC Collector Line
 - Ground Electrode Line
 - Ground Electrode Site
 - Construction Power (KN36)
 - Construction Power Site
 - Construction Camp Site

Infrastructure

-  Converter Station
 -  Generating Station
 -  Electrical Station

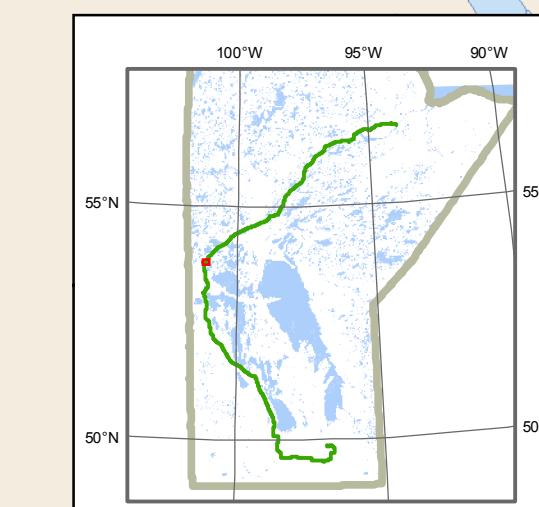
Monitoring Location

-  Aquatics Monitoring Site 2018
 -  Aquatics Monitoring Site 2018
 -  Aquatics Monitoring Site 2018

Landbase

- Community
 - Provincial Highway
 - Provincial Road
 - Active Railway
 - Transmission Line
 - Watercourse
 -  Rural Municipality
 -  First Nation
 -  Waterbody

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCan
Date Created: October 30, 2018



Stream Crossing Compliance Monitoring

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

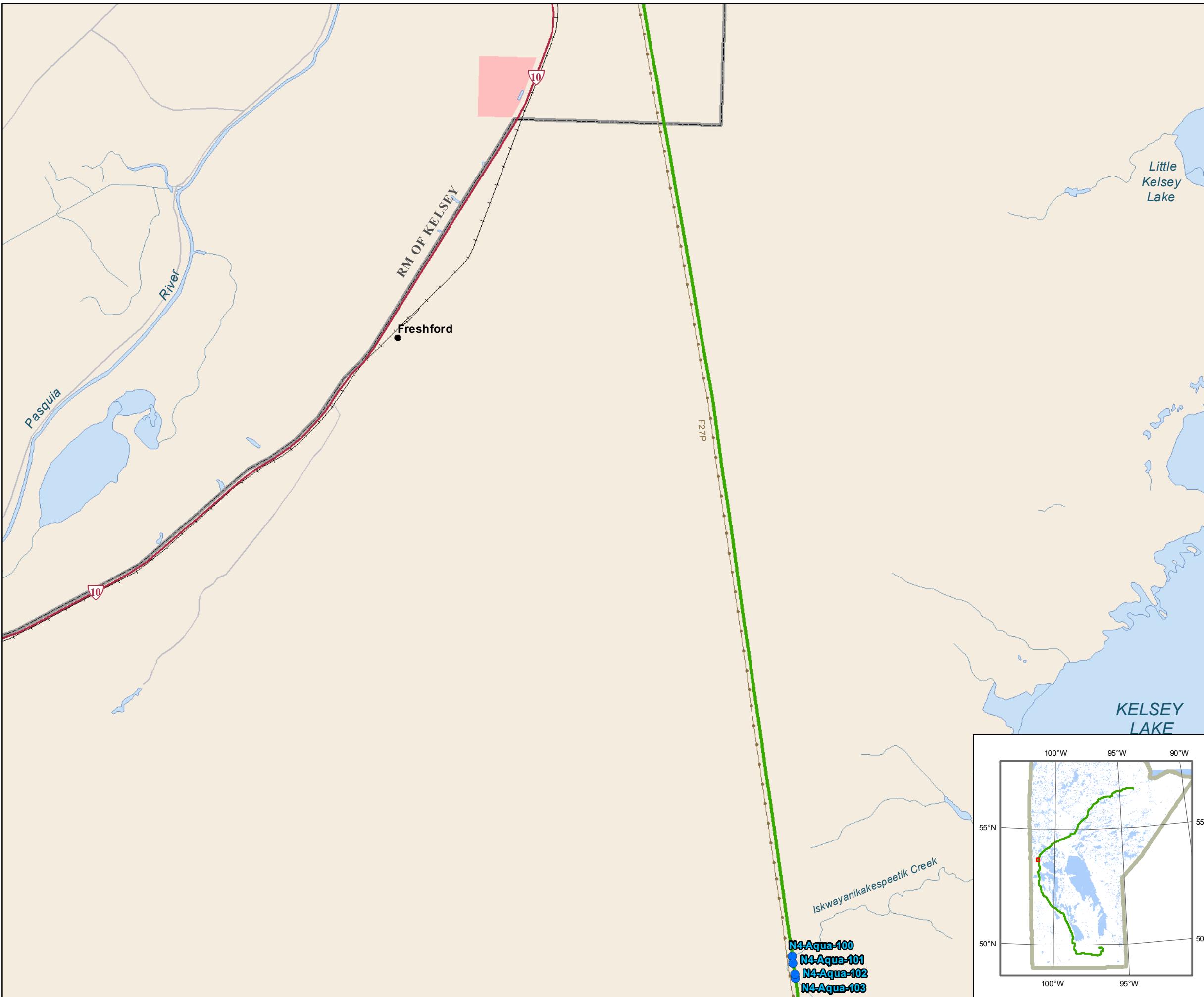
Landbase

- Community
- Provincial Highway
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- First Nation
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

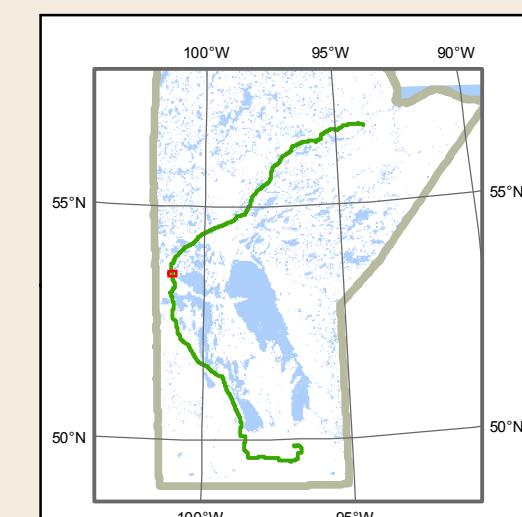
- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Transmission Line
- Watercourse
- Waterbody



N
1:50,000

Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

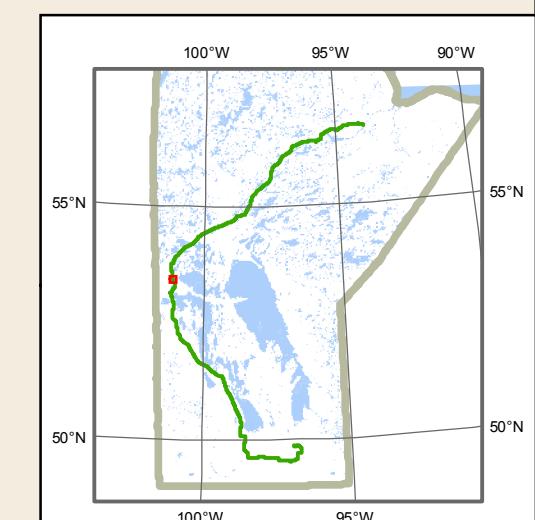
- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Highway
- Transmission Line
- Watercourse
- Waterbody



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Transmission Line
- Watercourse
- First Nation
- National / Provincial Park
- Waterbody

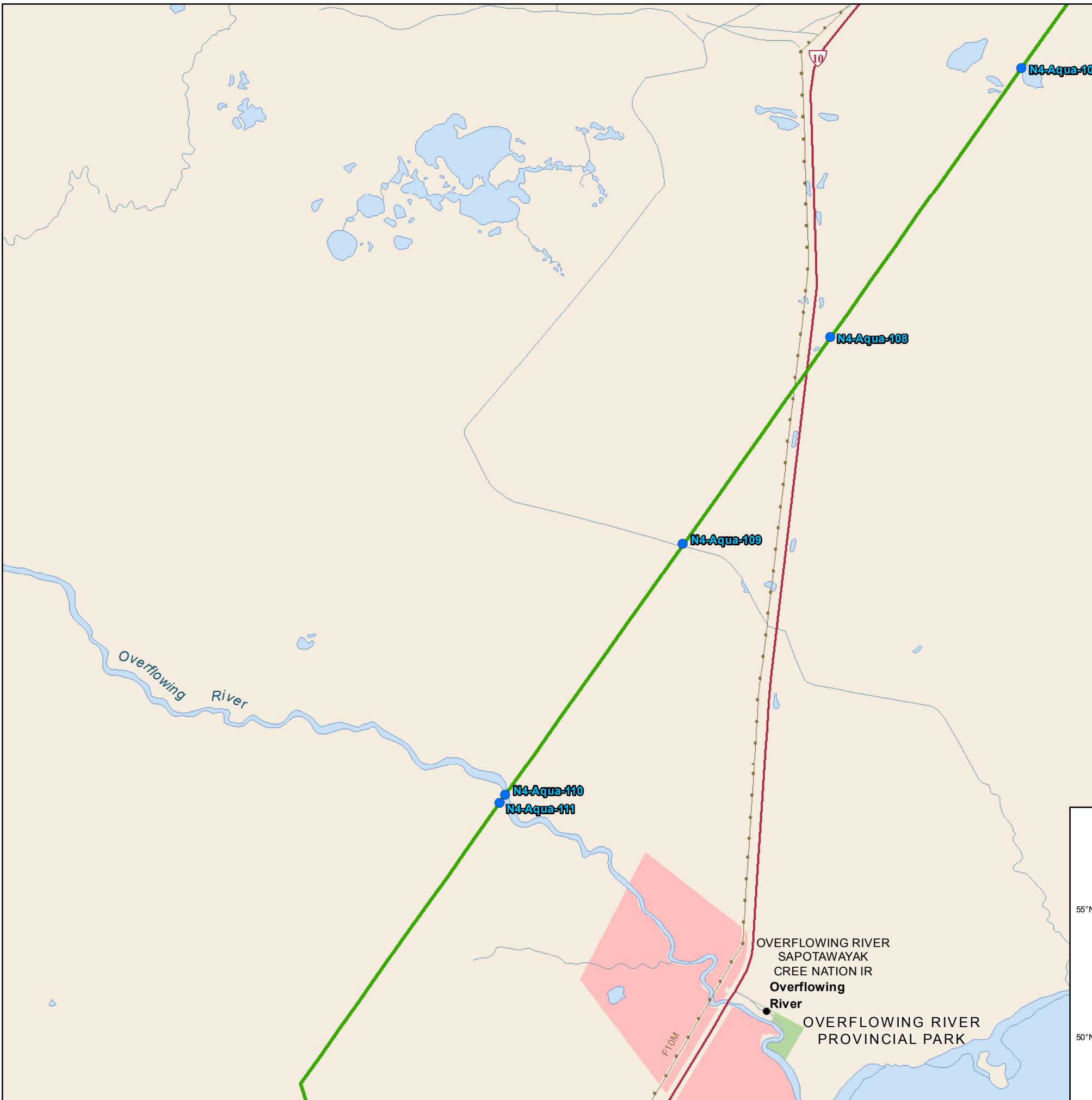
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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 50



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Highway
- Transmission Line
- Watercourse
- First Nation
- Waterbody

Overflow Bay
(Lake Winnipegosis)



Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018

0 0.5 1 Kilometres
 0 0.5 1 Miles 1:50,000

**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Highway
- Transmission Line
- Watercourse
- Rural Municipality
- First Nation
- National / Provincial Park
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

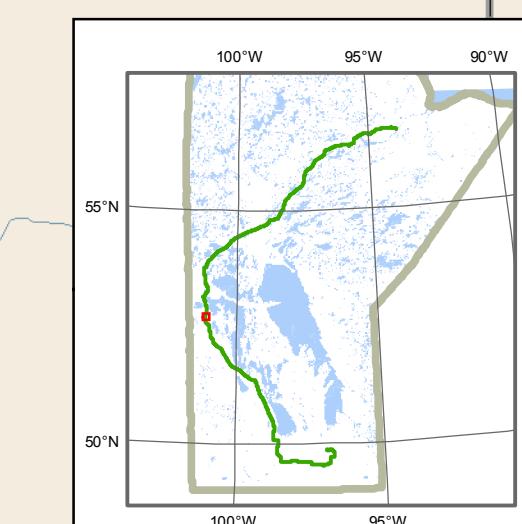
Landbase

- Community
- Provincial Highway
- Transmission Line
- Watercourse
- Rural Municipality
- First Nation
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018

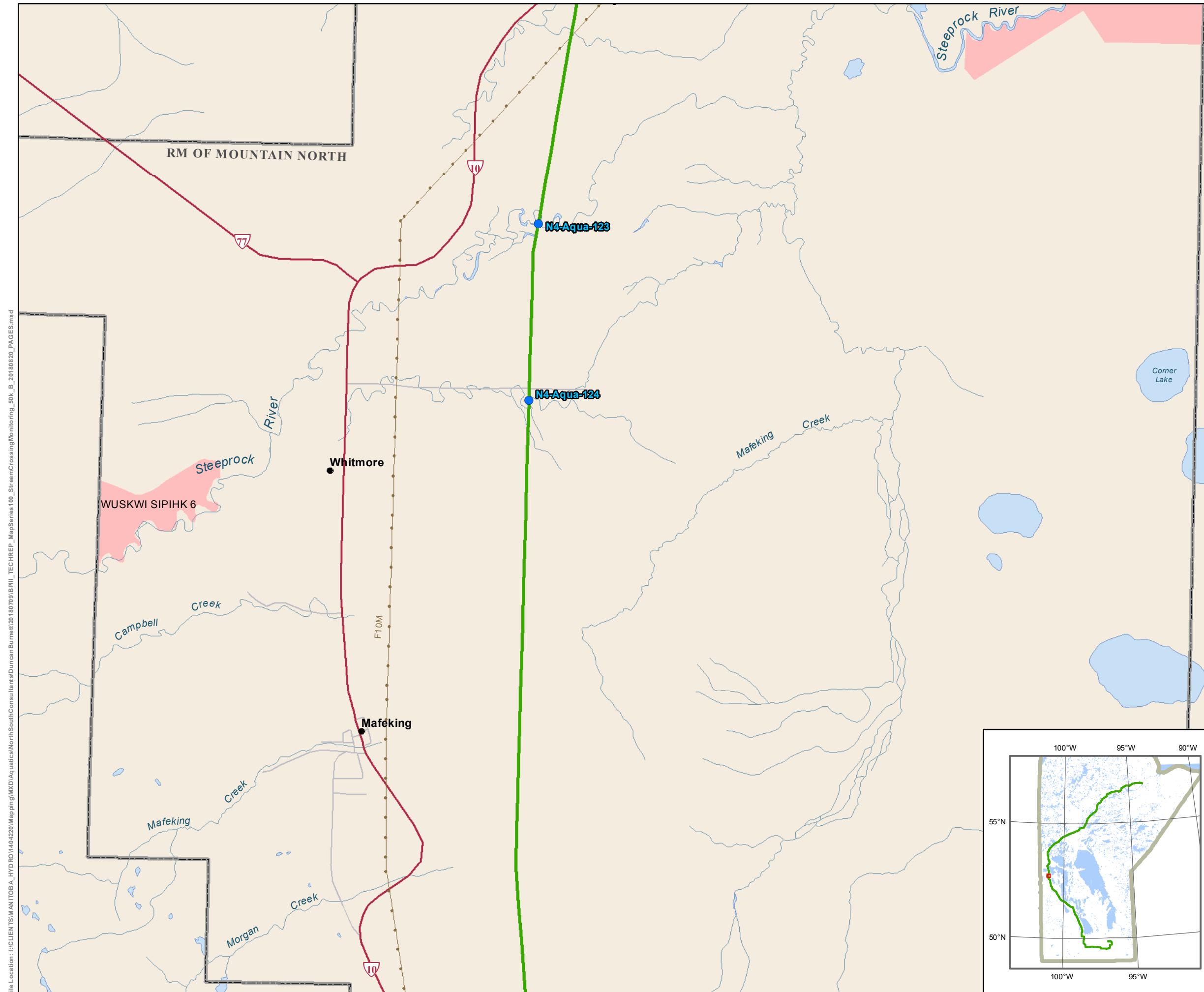


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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 54



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

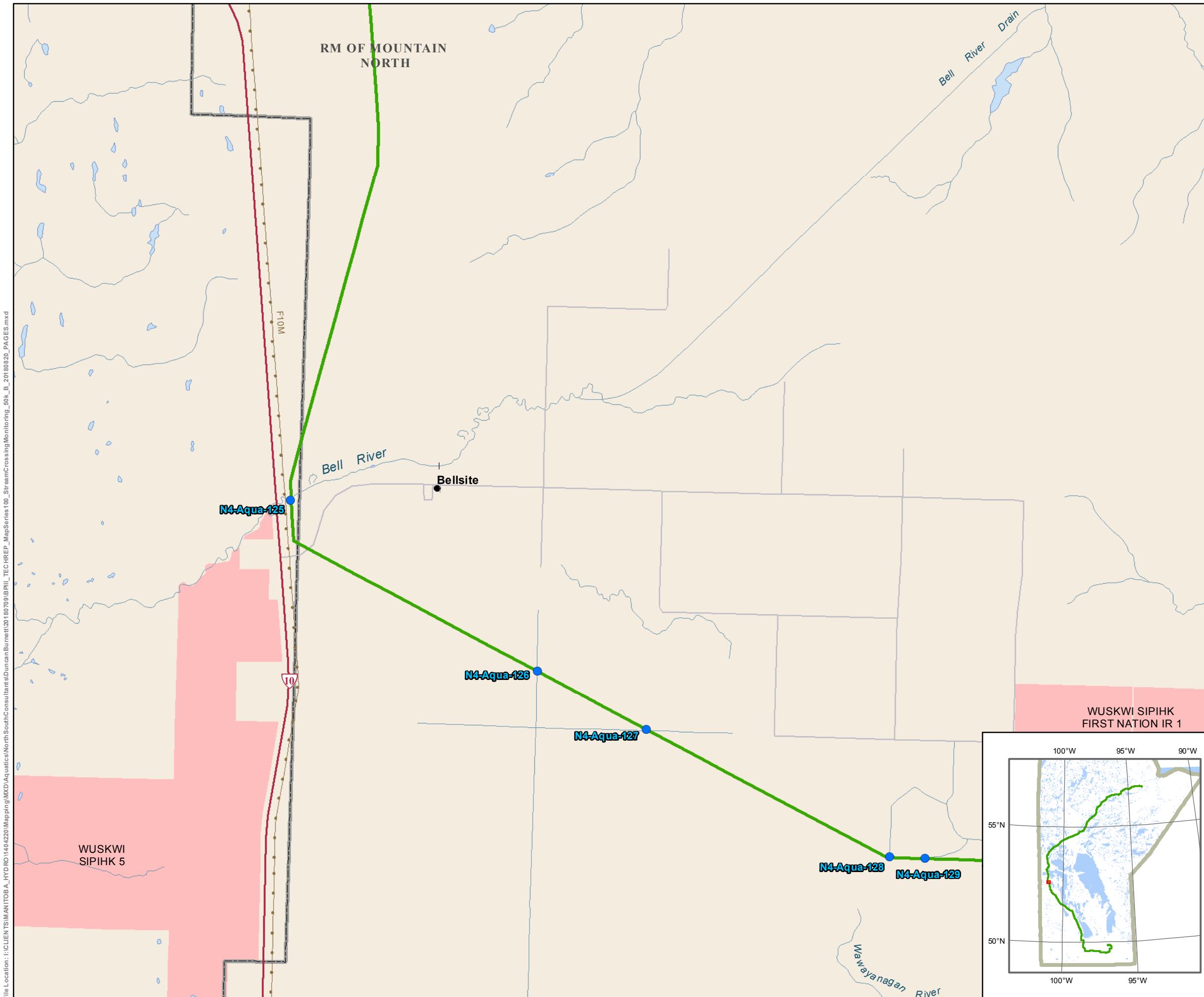
Landbase

- Community
- Provincial Highway
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- First Nation
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Watercourse
- Rural Municipality
- First Nation
- Waterbody

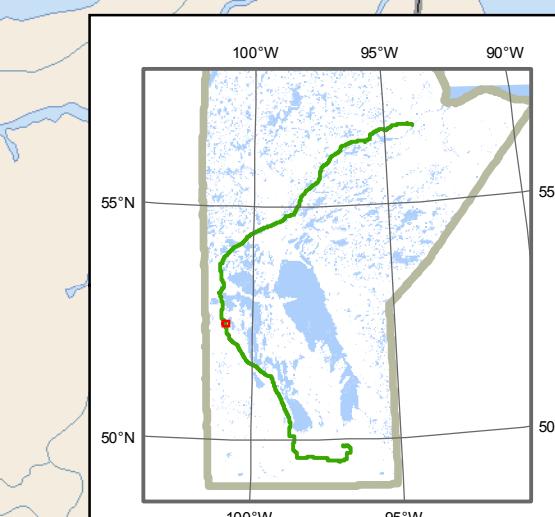
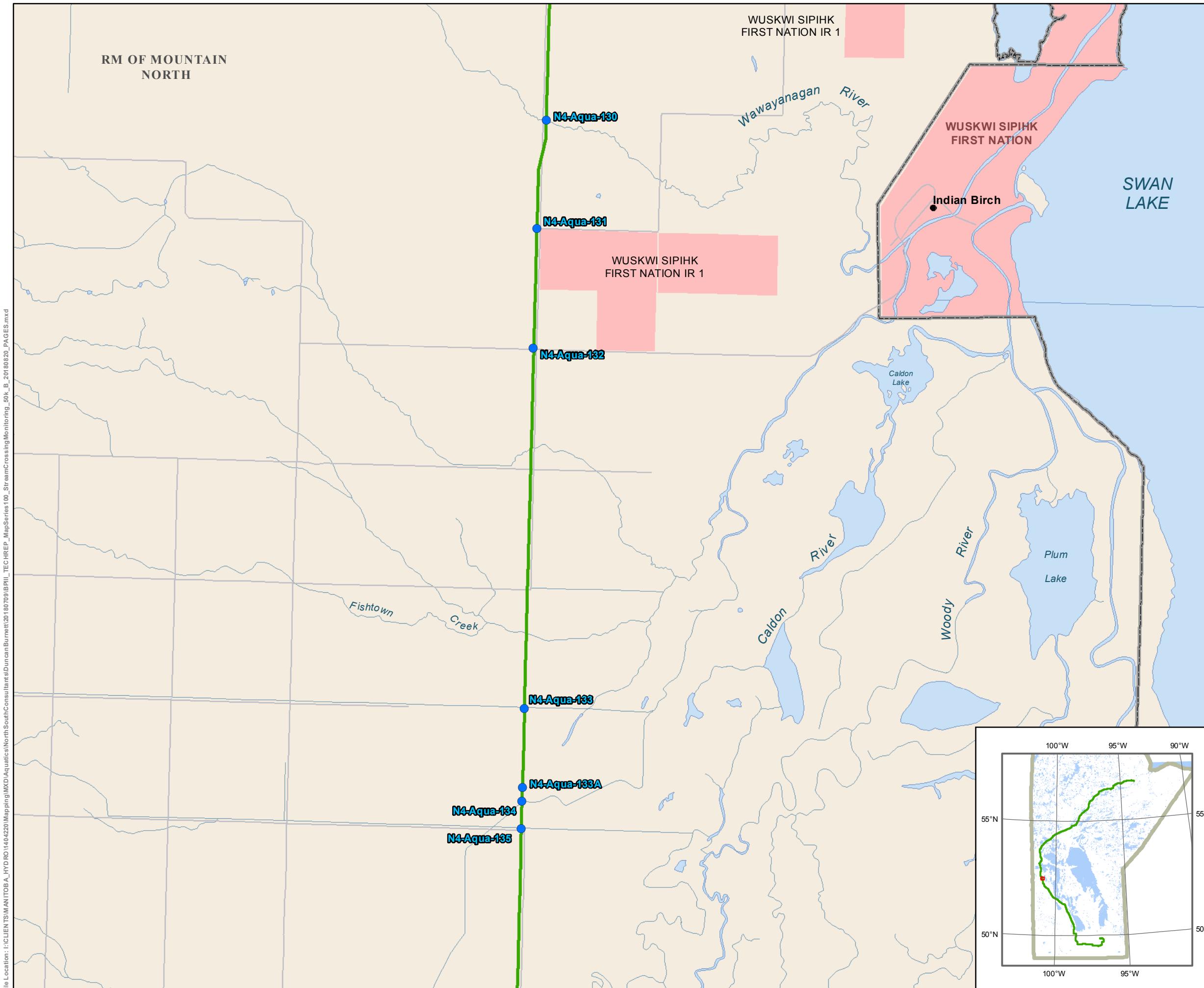
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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 56



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Road
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

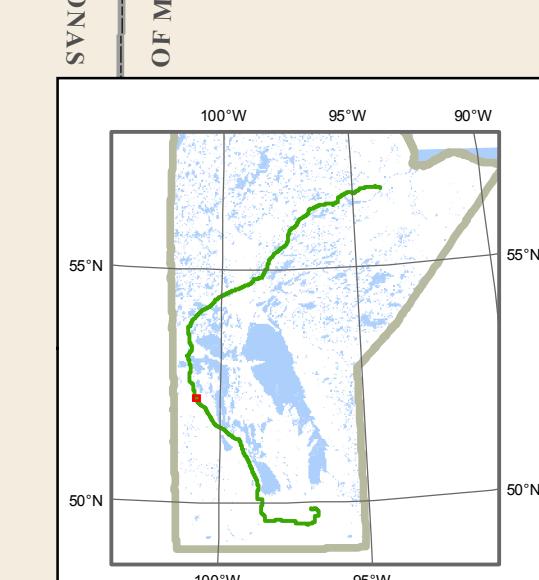
- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

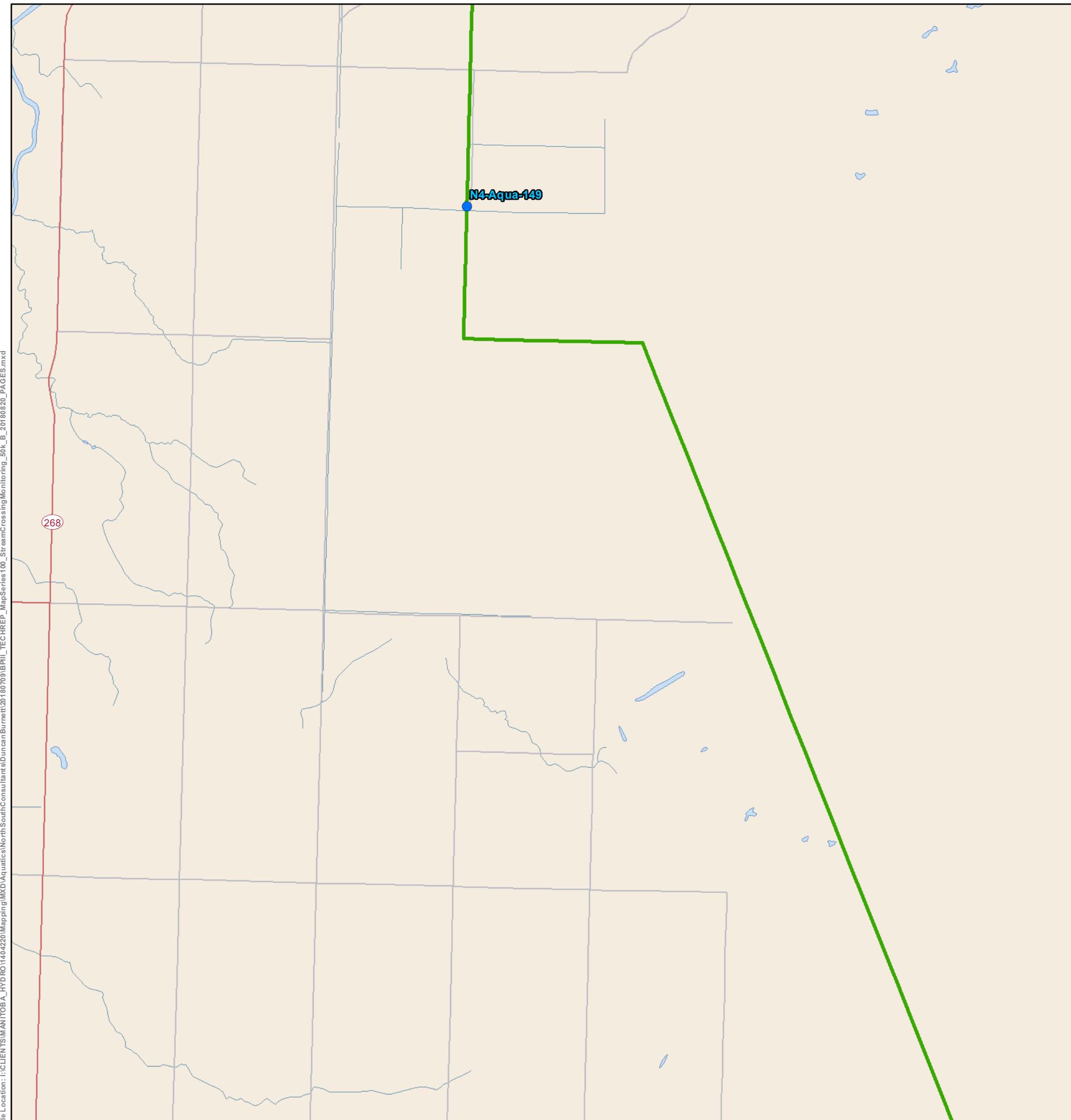
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Road
- Watercourse
- Rural Municipality
- First Nation
- Waterbody



**Stream Crossing
Compliance Monitoring
2018**



Bipole III Transmission Project
Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Highway
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



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Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

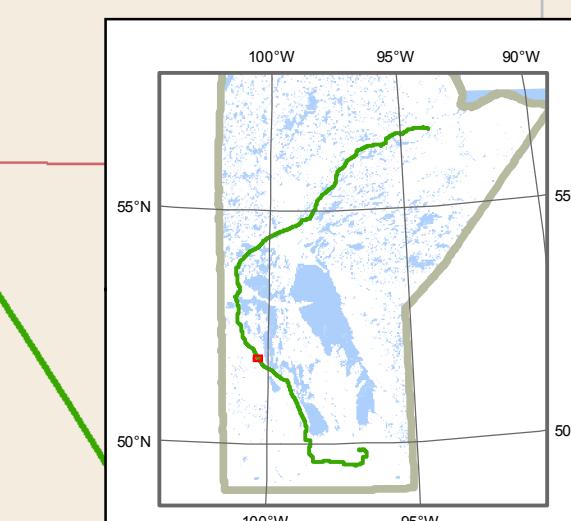
Landbase

- Community
- Provincial Road
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018

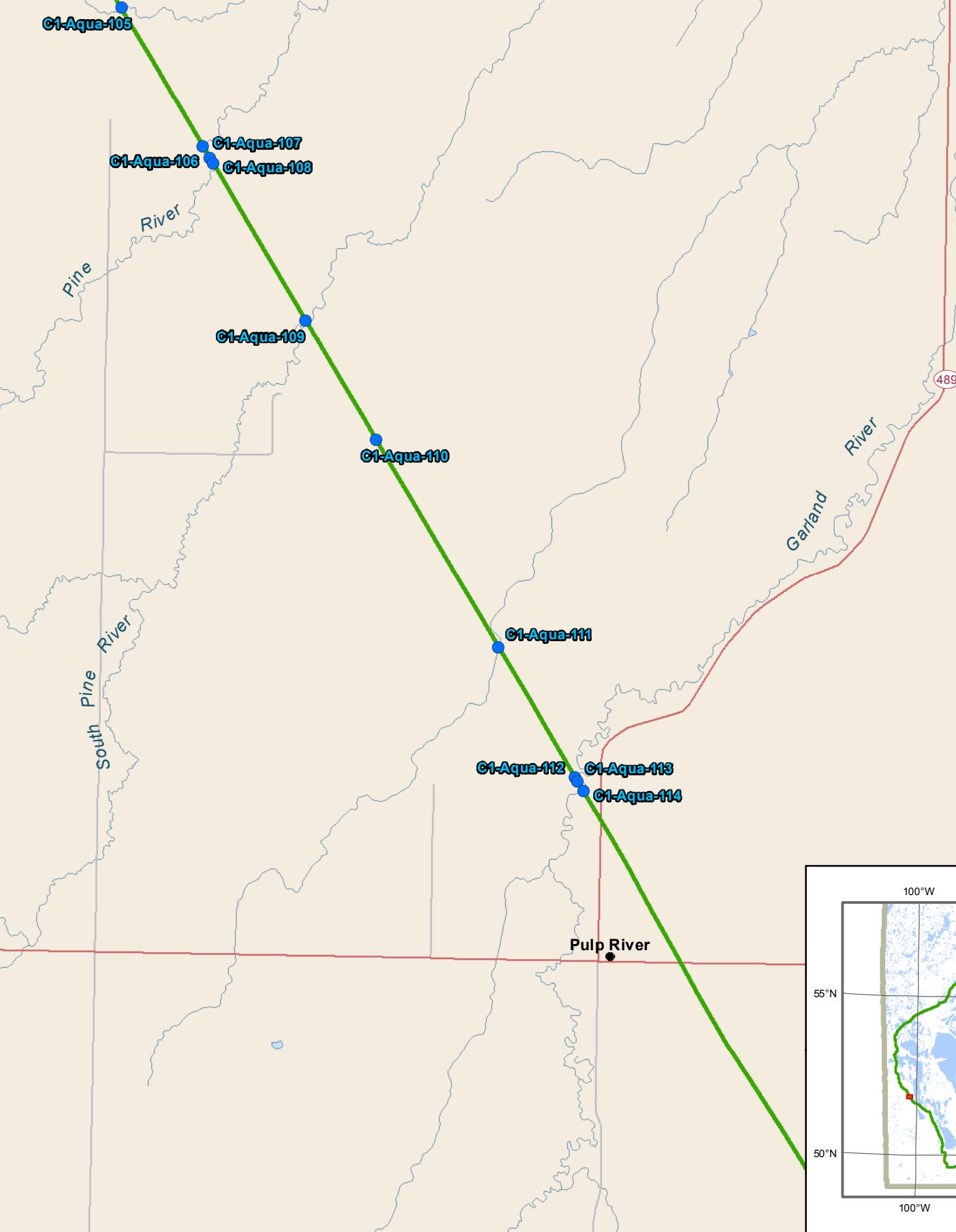


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Stream Crossing Compliance Monitoring 2018

RM OF MOUNTAIN SOUTH



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Watercourse
- Rural Municipality
- Waterbody

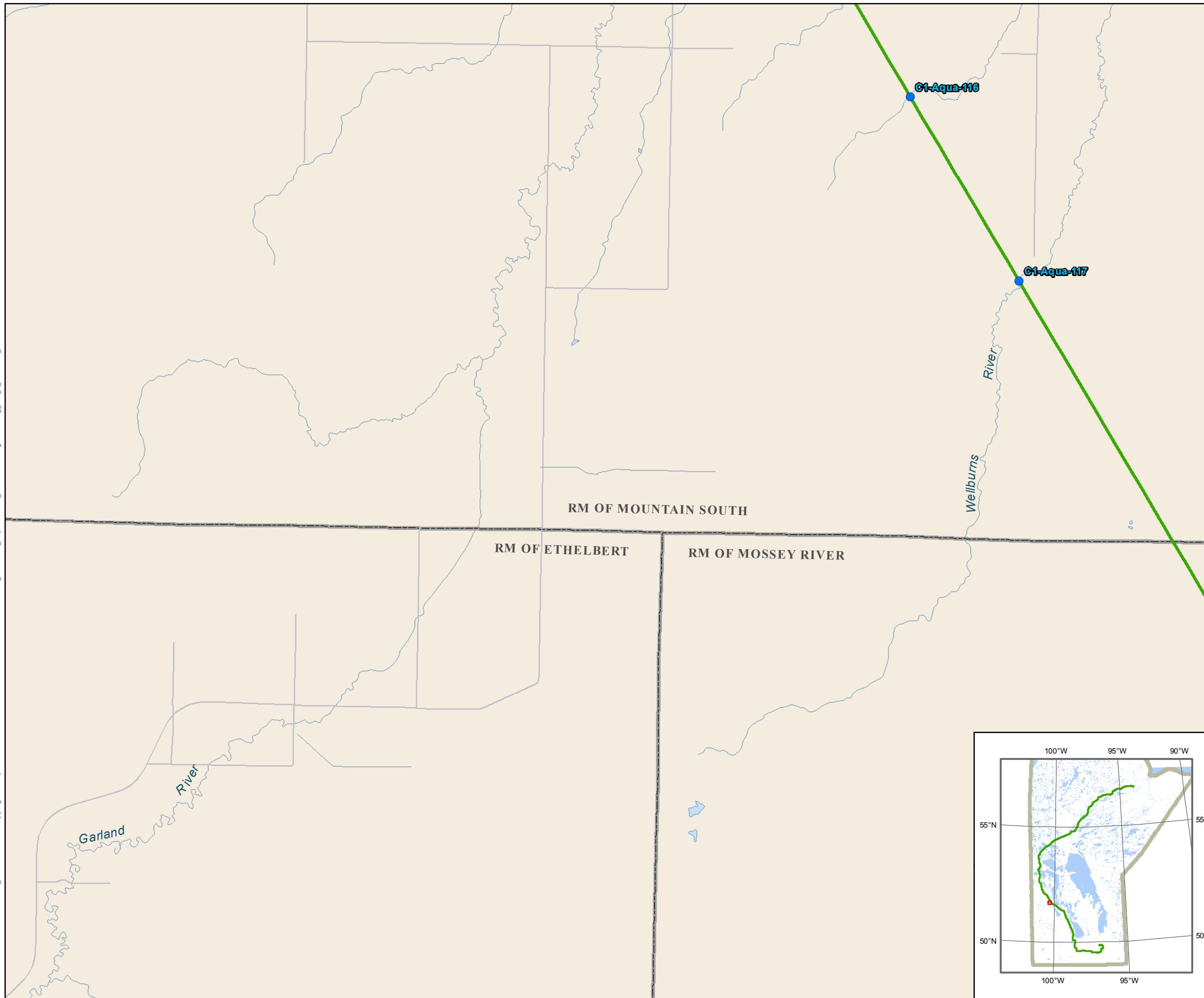
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 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



0 0.5 1 Kilometres
 0 0.5 1 Miles

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Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project
Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Highway
- Provincial Road
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCAN
Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

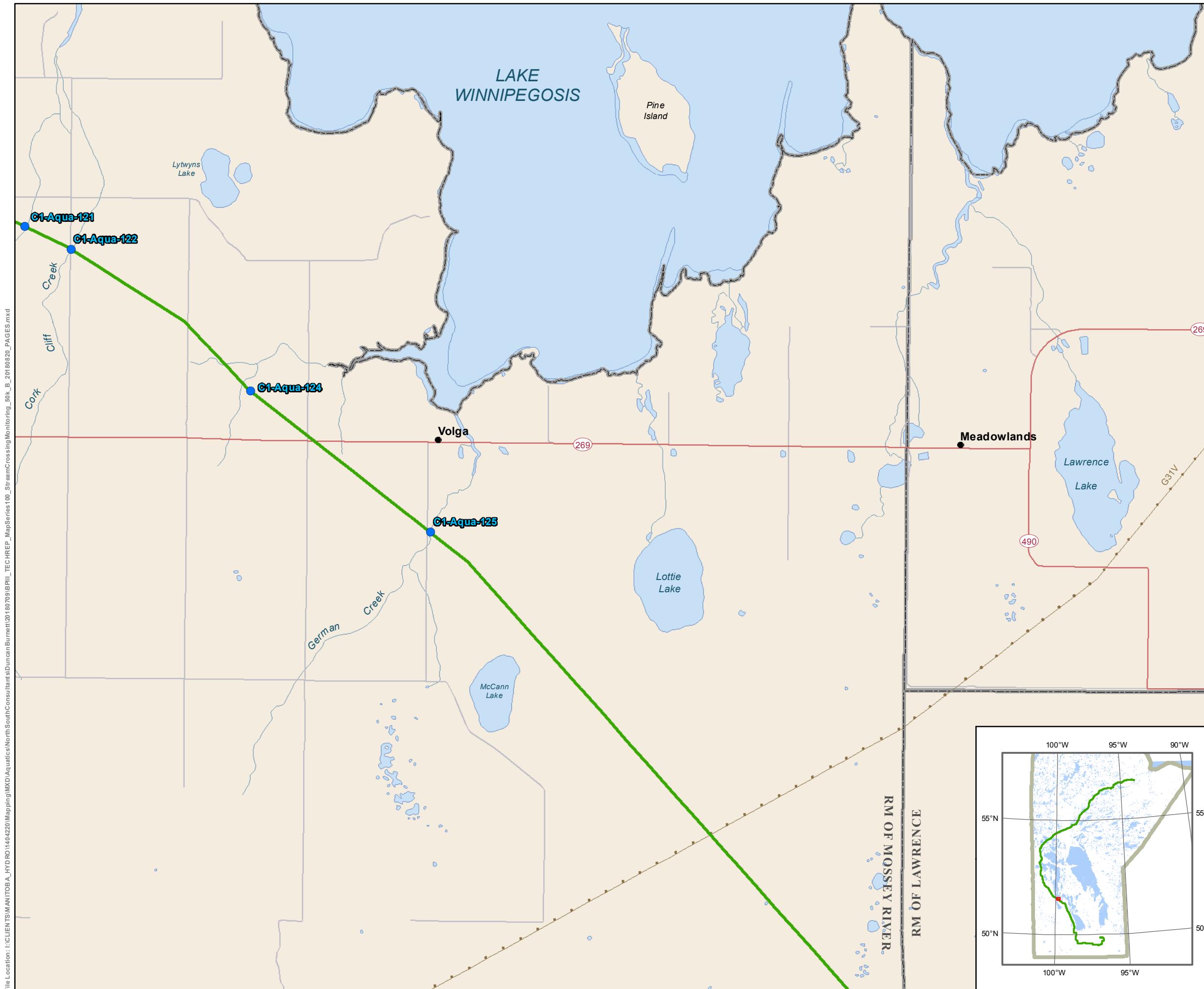
Landbase

- Community
- Provincial Road
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

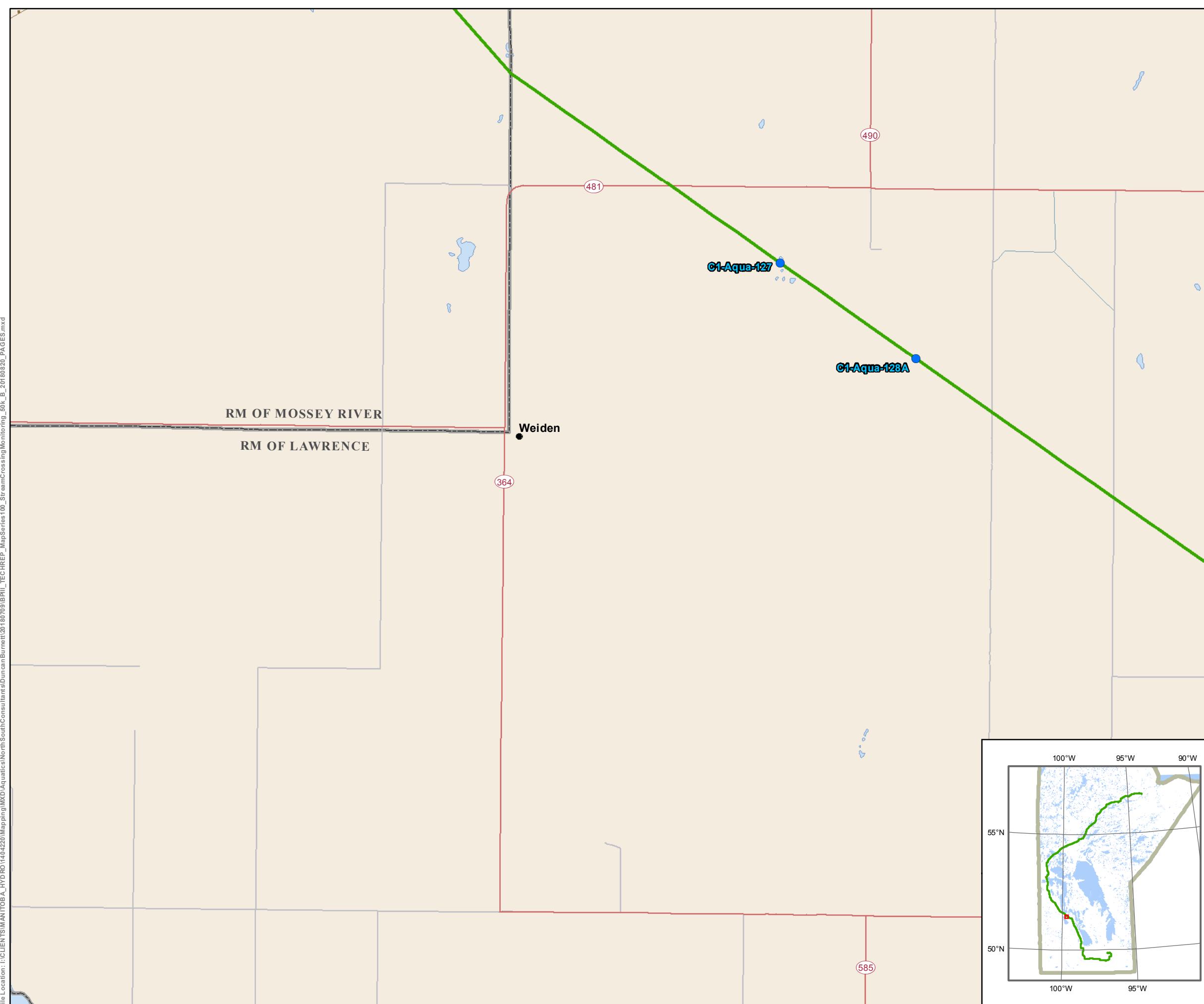
- Community
- Provincial Road
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



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Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project
Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Road
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Road
- Transmission Line
- Watercourse
- Rural Municipality
- First Nation
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

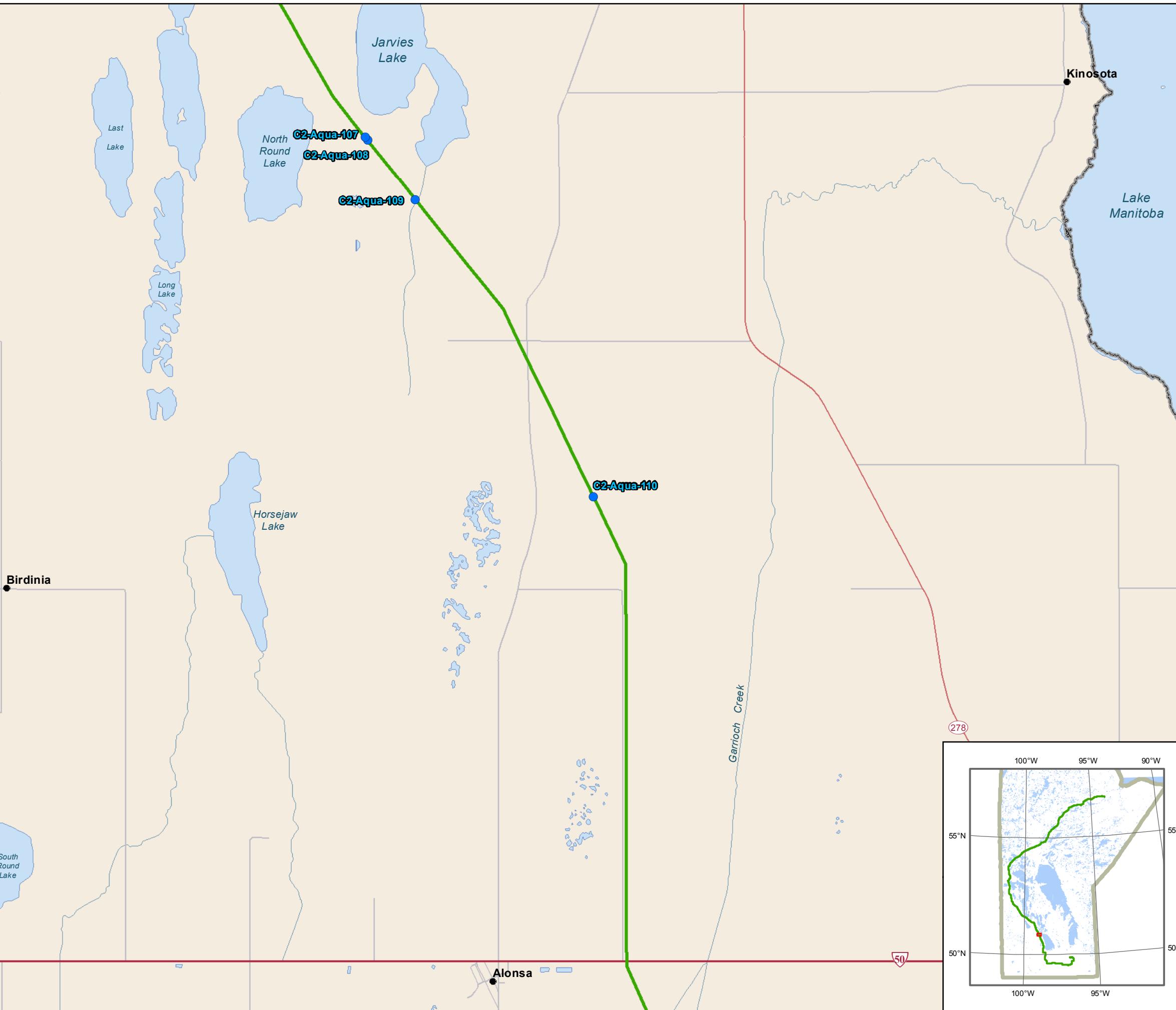
Landbase

- Community
- Provincial Highway
- Provincial Road
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



**Stream Crossing
Compliance Monitoring
2018**



Bipole III Transmission Project

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- Ground Electrode Site
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- Construction Power Site
- Construction Camp Site

Infrastructure

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- Generating Station
- Electrical Station

Monitoring Location

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- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
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- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
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**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project

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- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Provincial Road
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



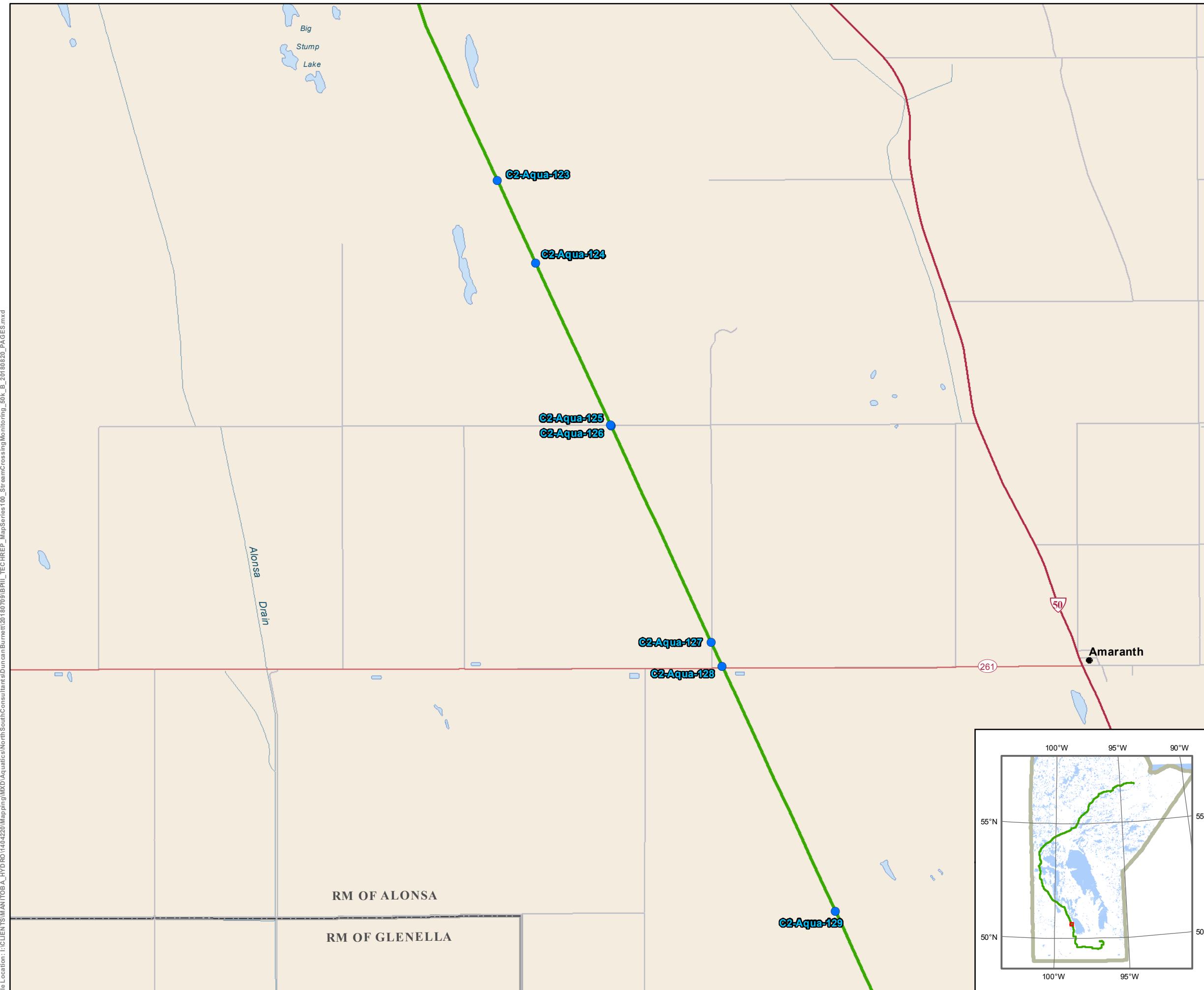
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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 75



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
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- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

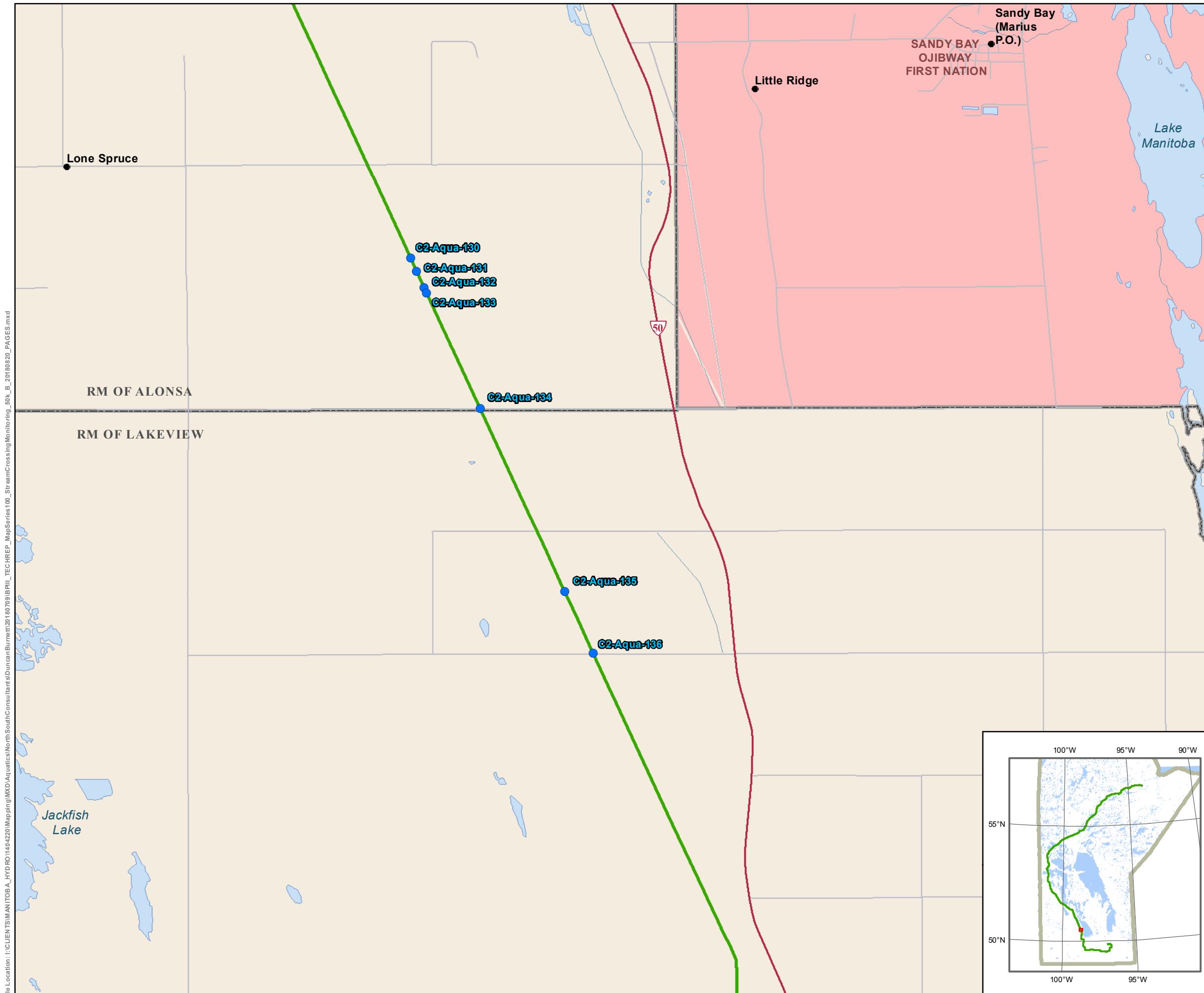
Landbase

- Community
- Provincial Highway
- Watercourse
- Rural Municipality
- First Nation
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

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- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

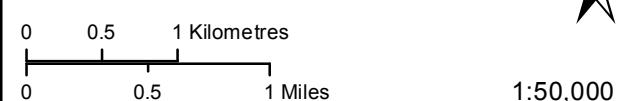
Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Provincial Road
- Watercourse
- Rural Municipality
- Waterbody

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Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

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- Ground Electrode Line
- Ground Electrode Site
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- Construction Power Site
- Construction Camp Site

Infrastructure

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- Generating Station
- Electrical Station

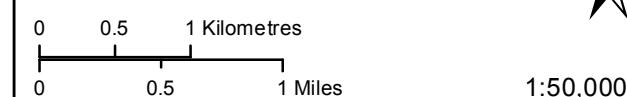
Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Provincial Road
- Watercourse
- Rural Municipality
- Waterbody

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**Stream Crossing
Compliance Monitoring
2018**

Bipole III Transmission Project
Project Infrastructure

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Infrastructure

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- Electrical Station

Monitoring Location

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- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Trans Canada Highway
- Provincial Highway
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

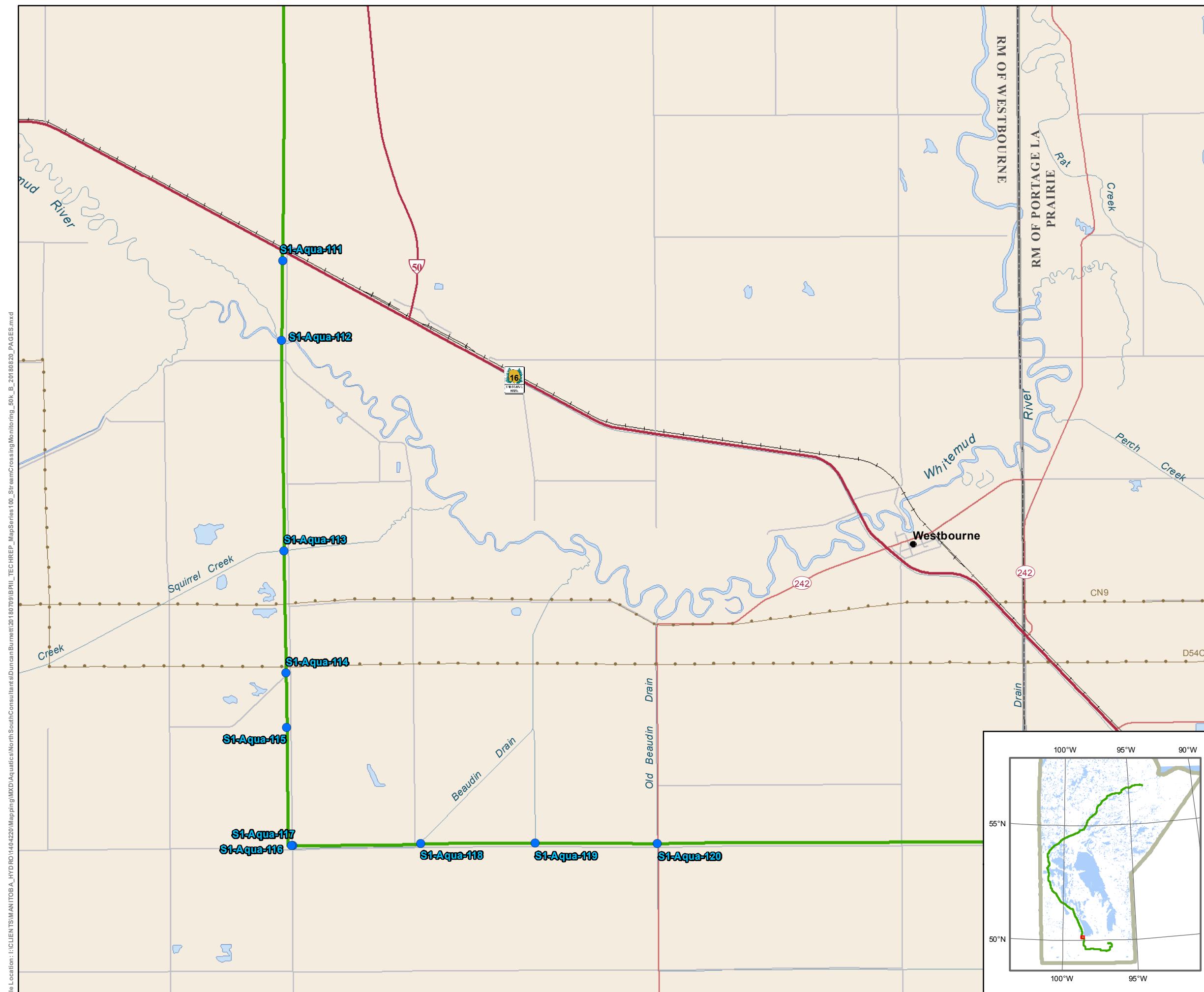
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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 79



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
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- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

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- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Trans Canada Highway
- Provincial Highway
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83

Data Source: MBHydro, ProvMB, NRCAN

Date Created: October 30, 2018



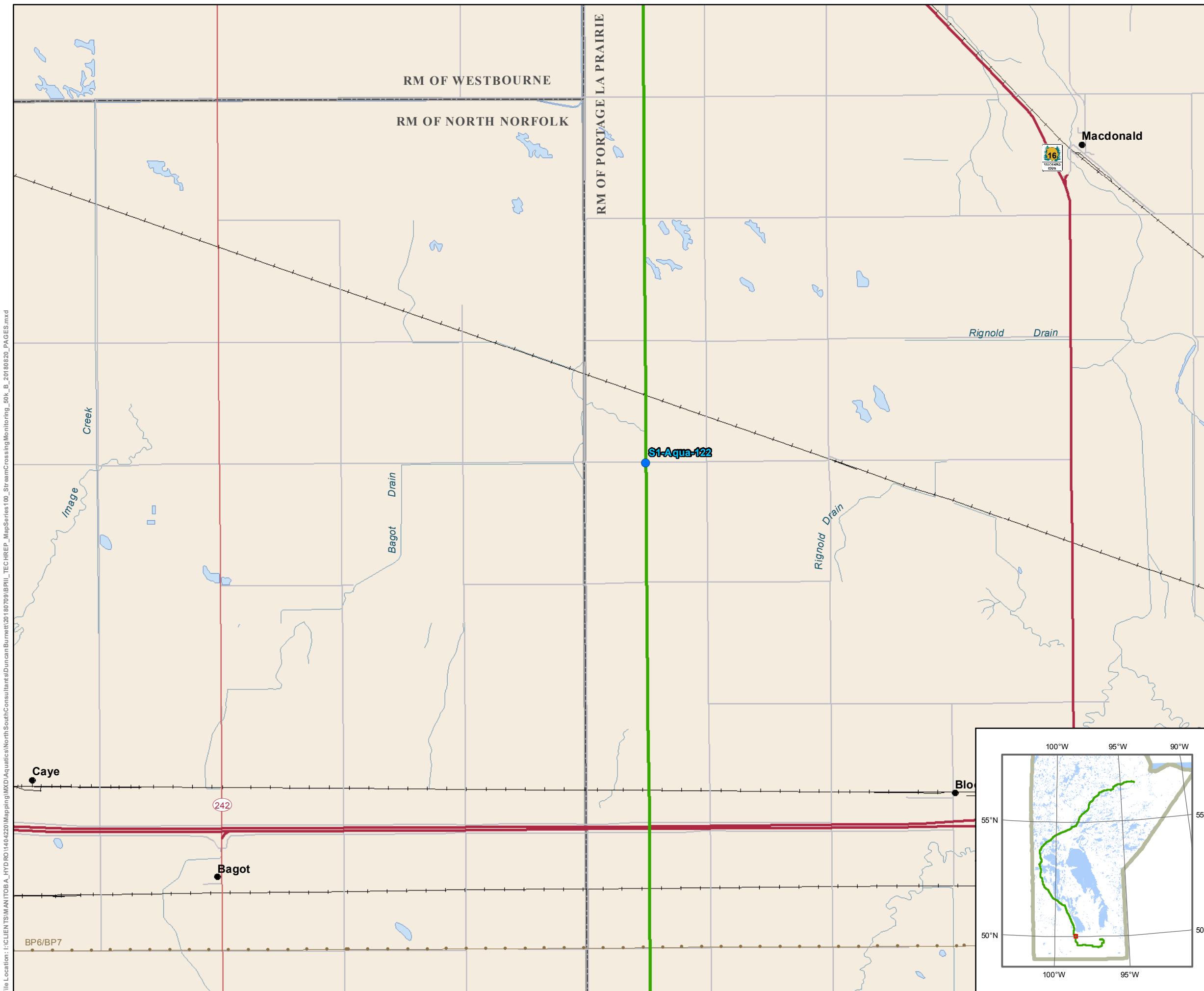
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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 80



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
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- Construction Power Site
- Construction Camp Site

Infrastructure

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- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Road
- Transmission Line
- Watercourse
- Rural Municipality
- First Nation
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018

Bipole III Transmission Project

Project Infrastructure

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- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

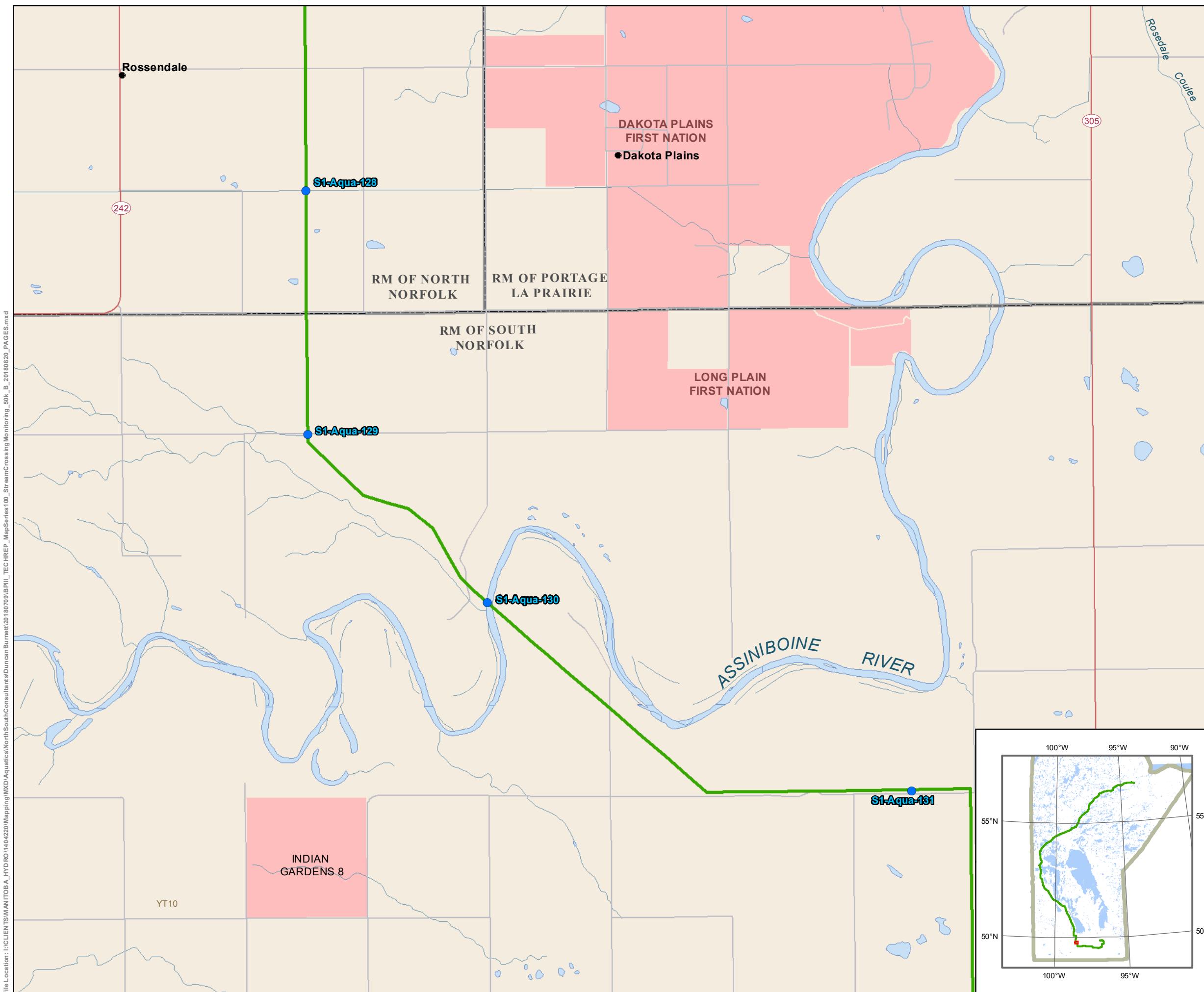
Landbase

- Community
- Provincial Road
- Watercourse
- Rural Municipality
- First Nation
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

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Infrastructure

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- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

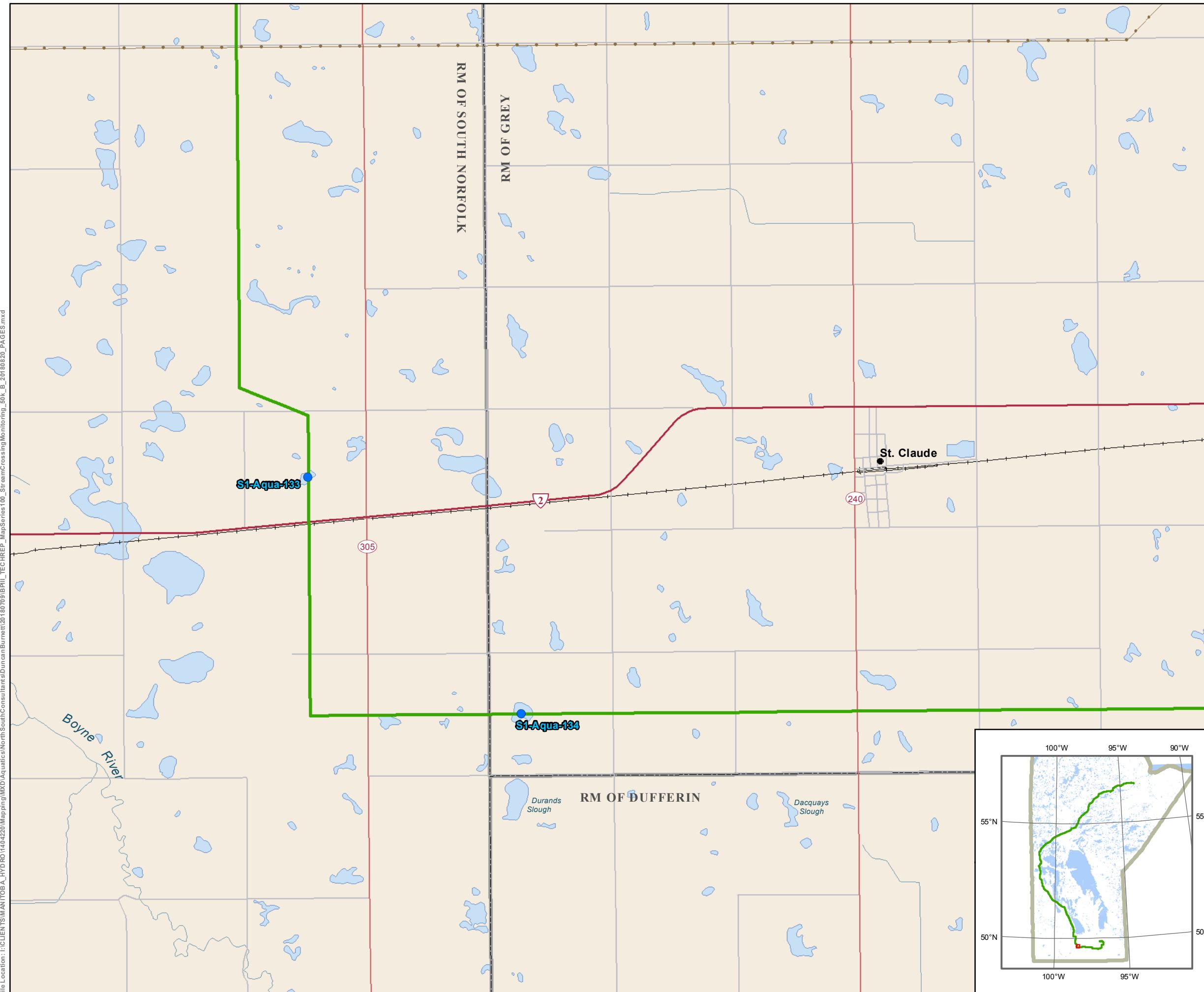
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 Date Created: October 30, 2018



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**Stream Crossing
Compliance Monitoring
2018**

Map Series 100 - 83



Bipole III Transmission Project
Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

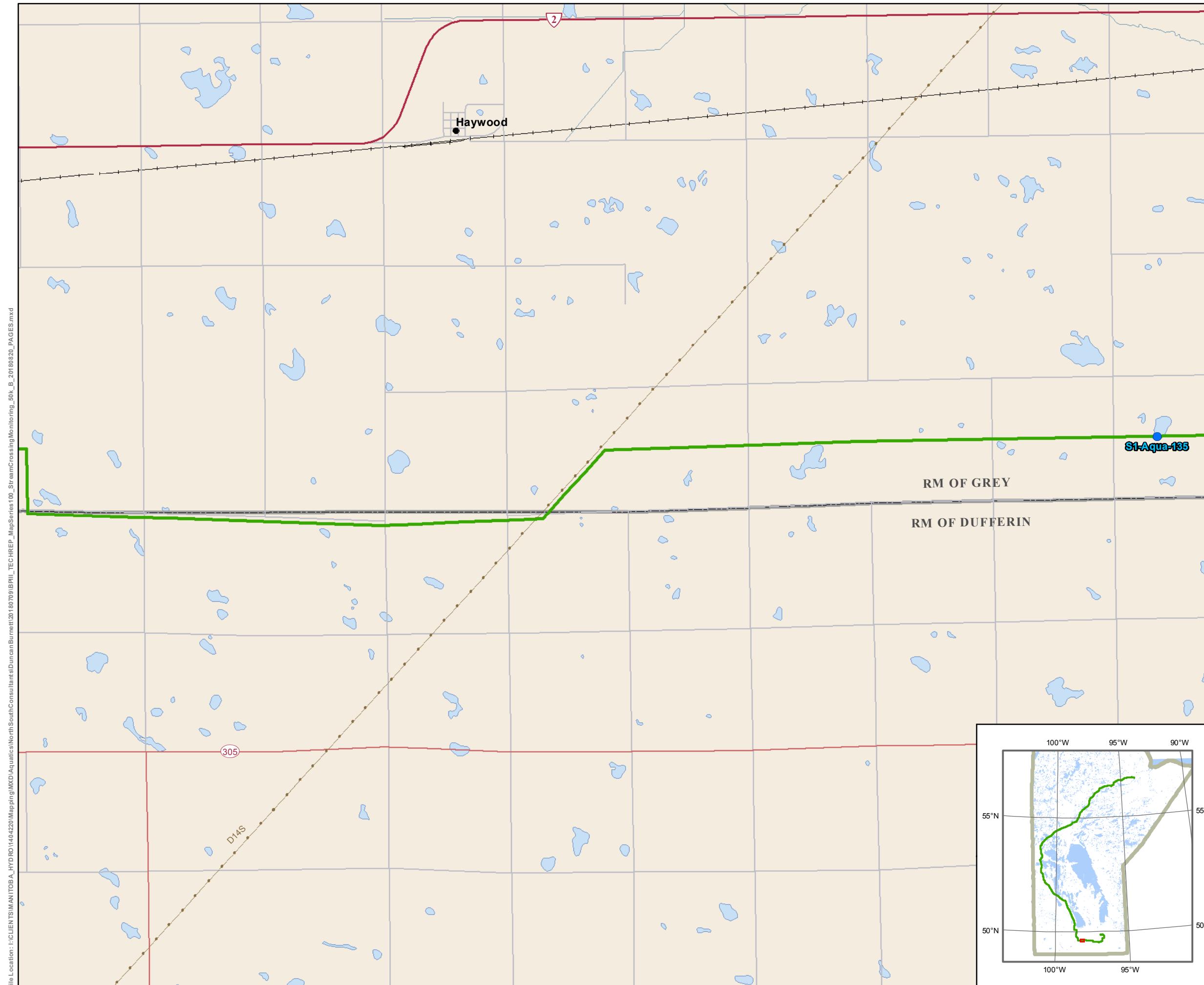
Landbase

- Community
- Provincial Highway
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

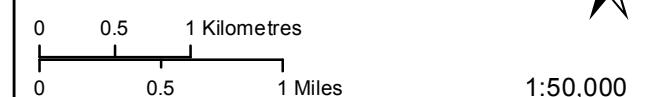
Monitoring Location

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- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

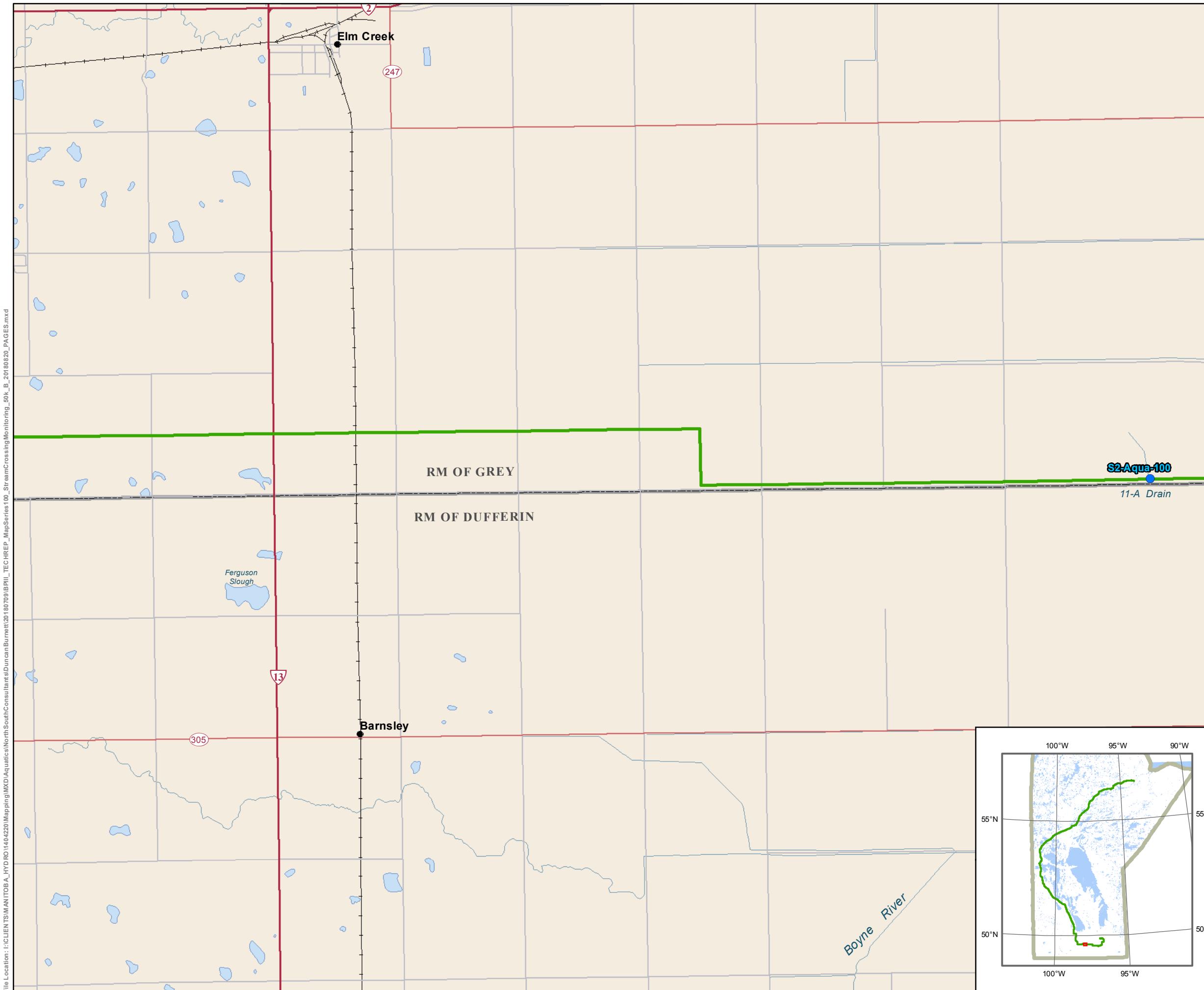
Landbase

- Community
- Provincial Highway
- Provincial Road
- Active Railway
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project
Project Infrastructure

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- Ground Electrode Line
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Infrastructure

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- Electrical Station

Monitoring Location

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- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Provincial Highway
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

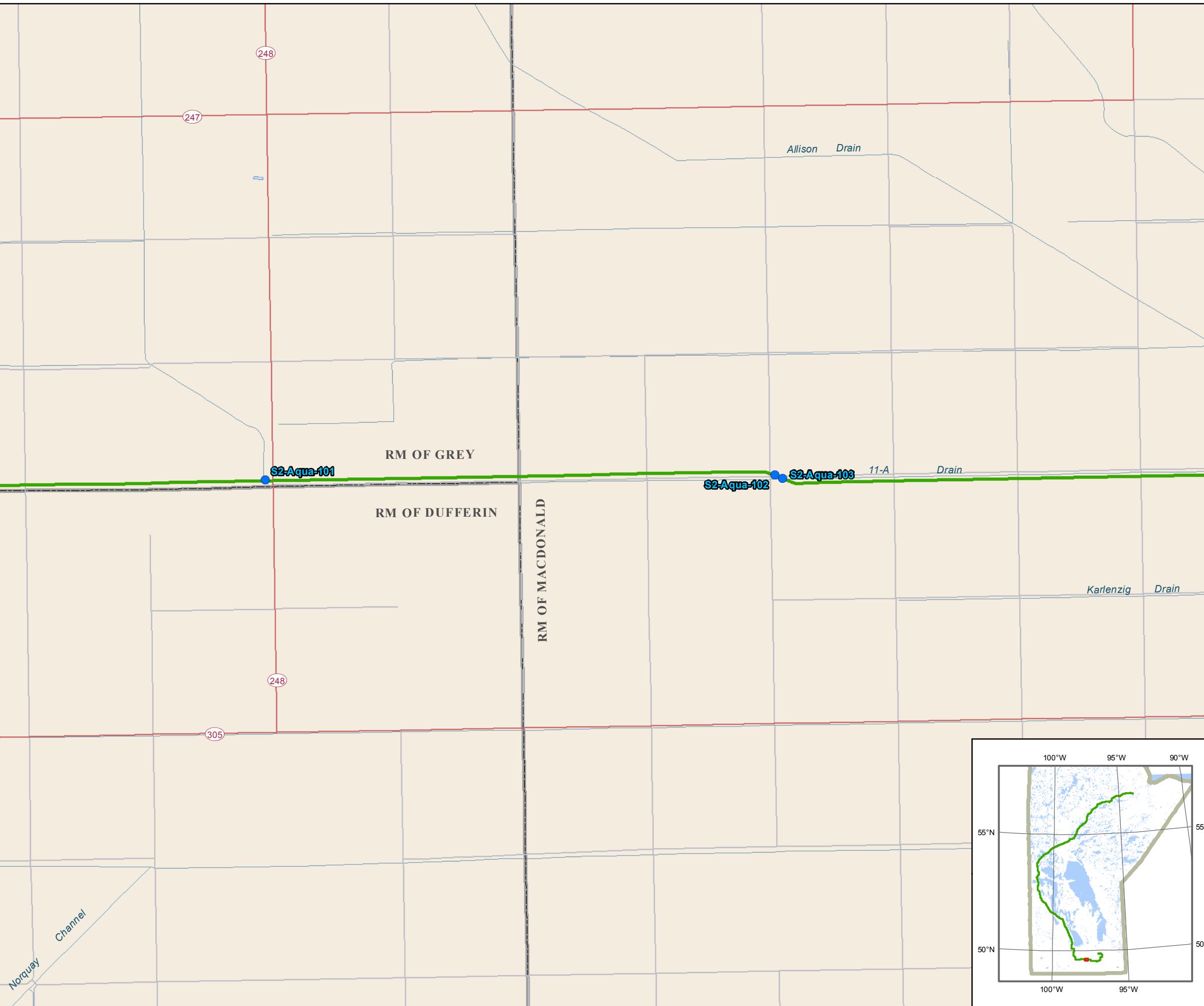
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 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



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 0 0.5 1 Miles

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Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
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- Ground Electrode Site
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Infrastructure

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- Generating Station
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Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



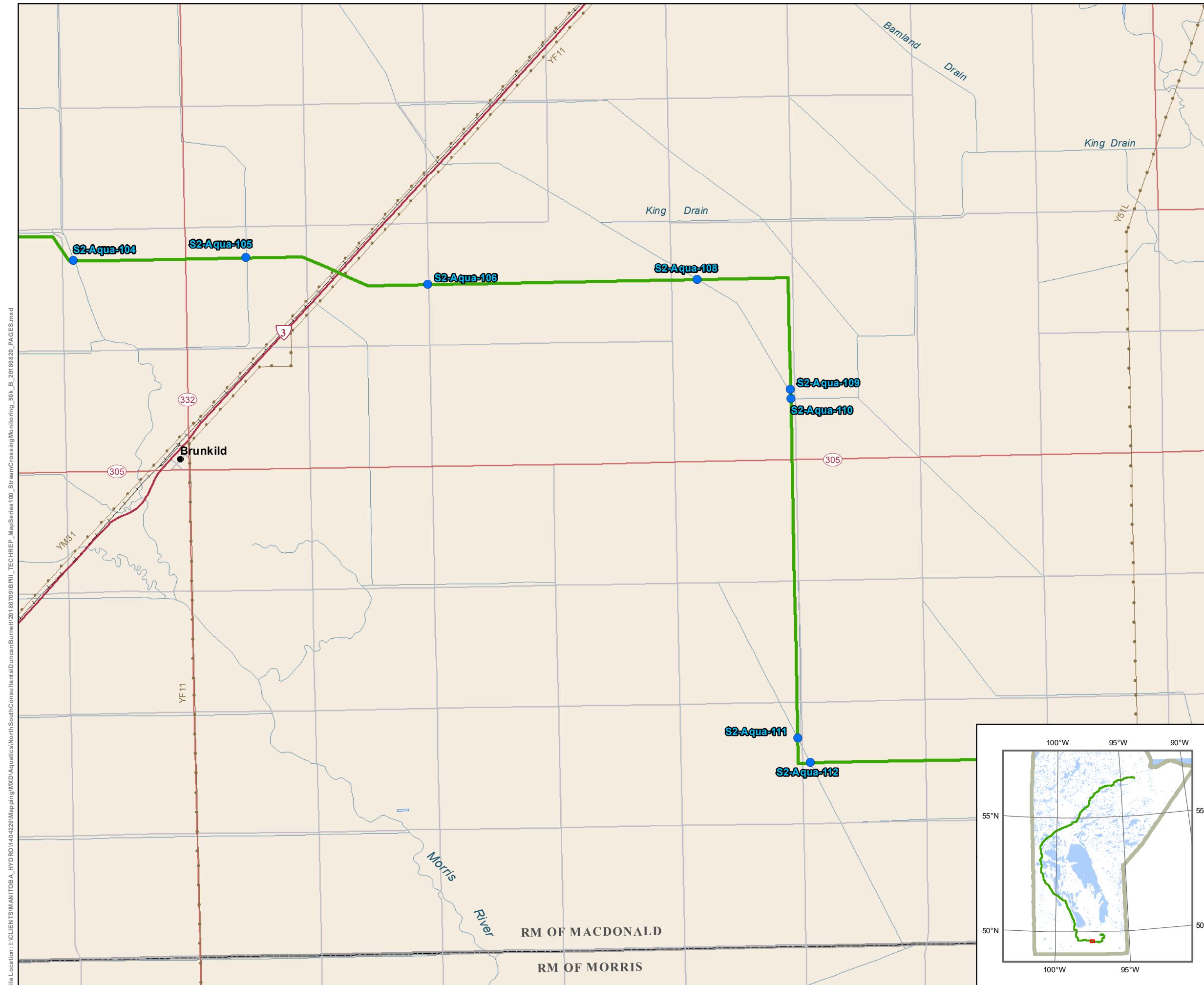
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0 0.5 1 Miles

Stream Crossing Compliance Monitoring 2018

Map Series 100 - 87



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- - - Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Provincial Road
- - Active Railway
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018

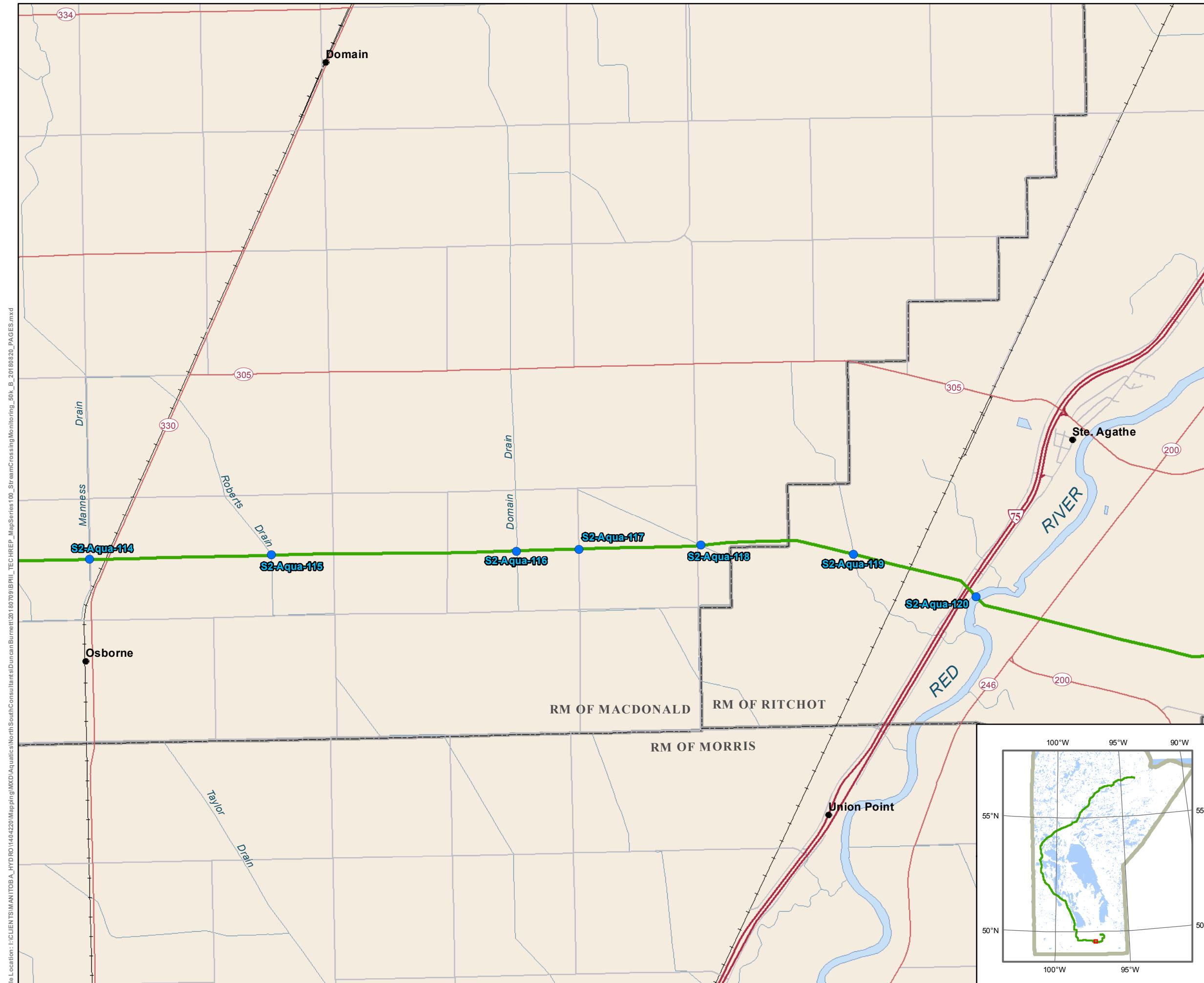


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 0 0.5 1 Miles

1:50,000

Stream Crossing Compliance Monitoring 2018

Map Series 100 - 88



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

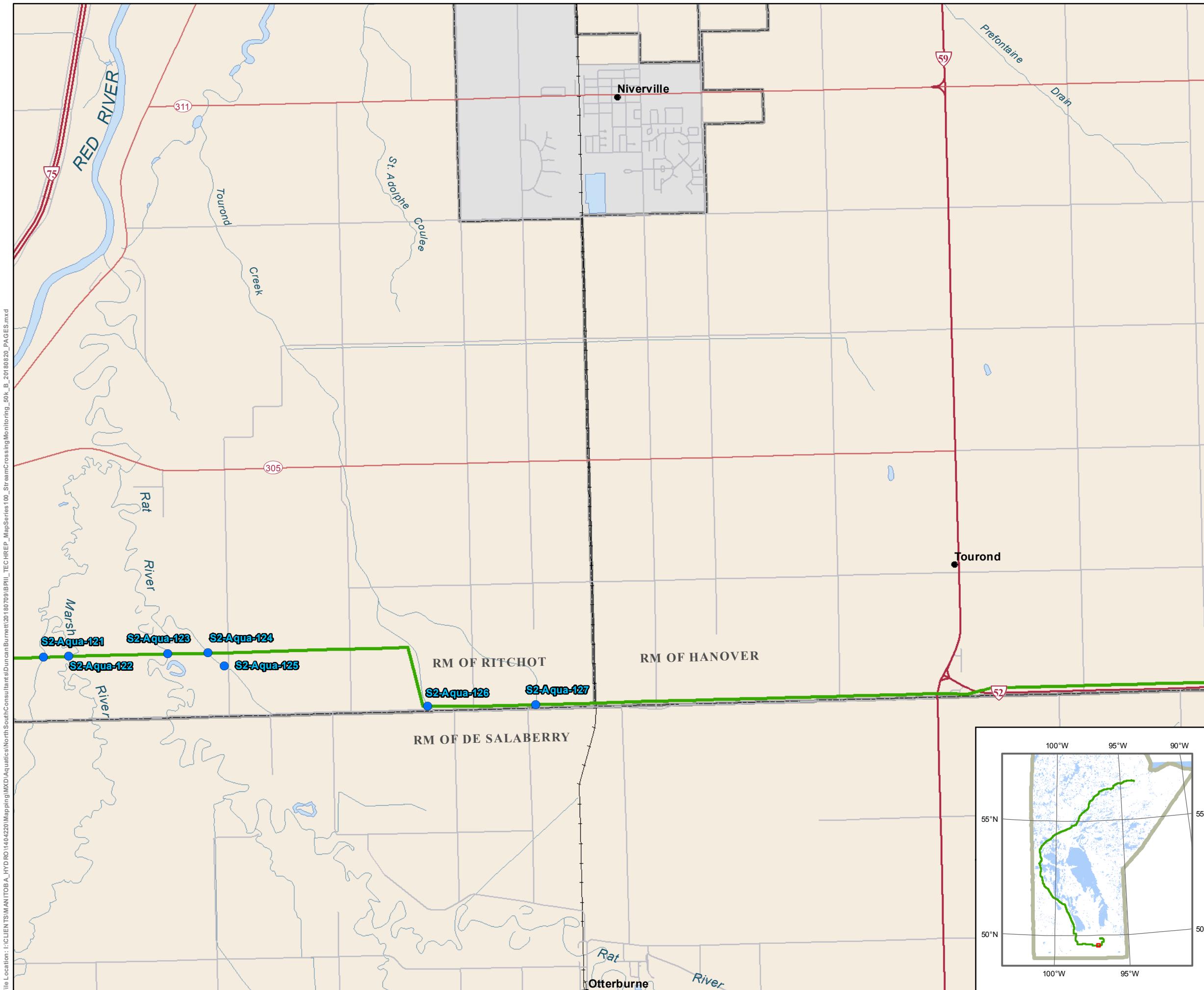
Landbase

- Community
- Provincial Highway
- Provincial Road
- Active Railway
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Provincial Road
- Transmission Line
- Watercourse
- City / Town
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
 Data Source: MBHydro, ProvMB, NRCAN
 Date Created: October 30, 2018



Stream Crossing Compliance Monitoring 2018

Map Series 100 - 90





Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
 - Converter Station Site
 - AC Collector Line
 - Ground Electrode Line
 - Ground Electrode Site
 - Construction Power (KN36)
 - Construction Power Site
 - Construction Camp Site

Infrastructure

-  Converter Station
 -  Generating Station
 -  Electrical Station

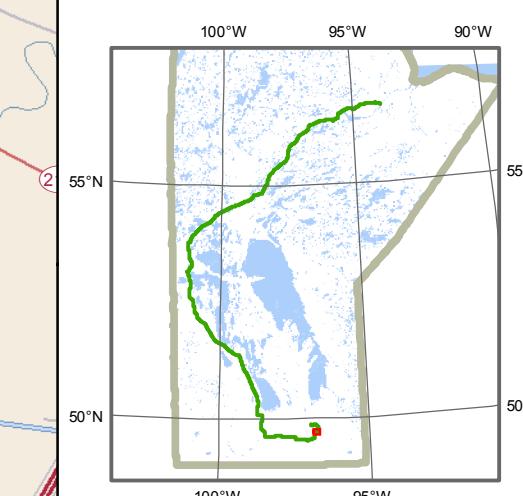
Monitoring Location

- Aquatics Monitoring Site 2018
 - Aquatics Monitoring Site 2018
 - Aquatics Monitoring Site 2018

Landbase

- Community
 - Trans Canada Highway
 - Provincial Highway
 - Provincial Road
 - + Active Railway
 - Watercourse
 -  Rural Municipality
 -  Waterbody

**Coordinate System: UTM Zone 14N NAD83
Data Source: MBHydro, ProvMB, NRCan
Date Created: October 30, 2018**



Stream Crossing Compliance Monitoring

2018

Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
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- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

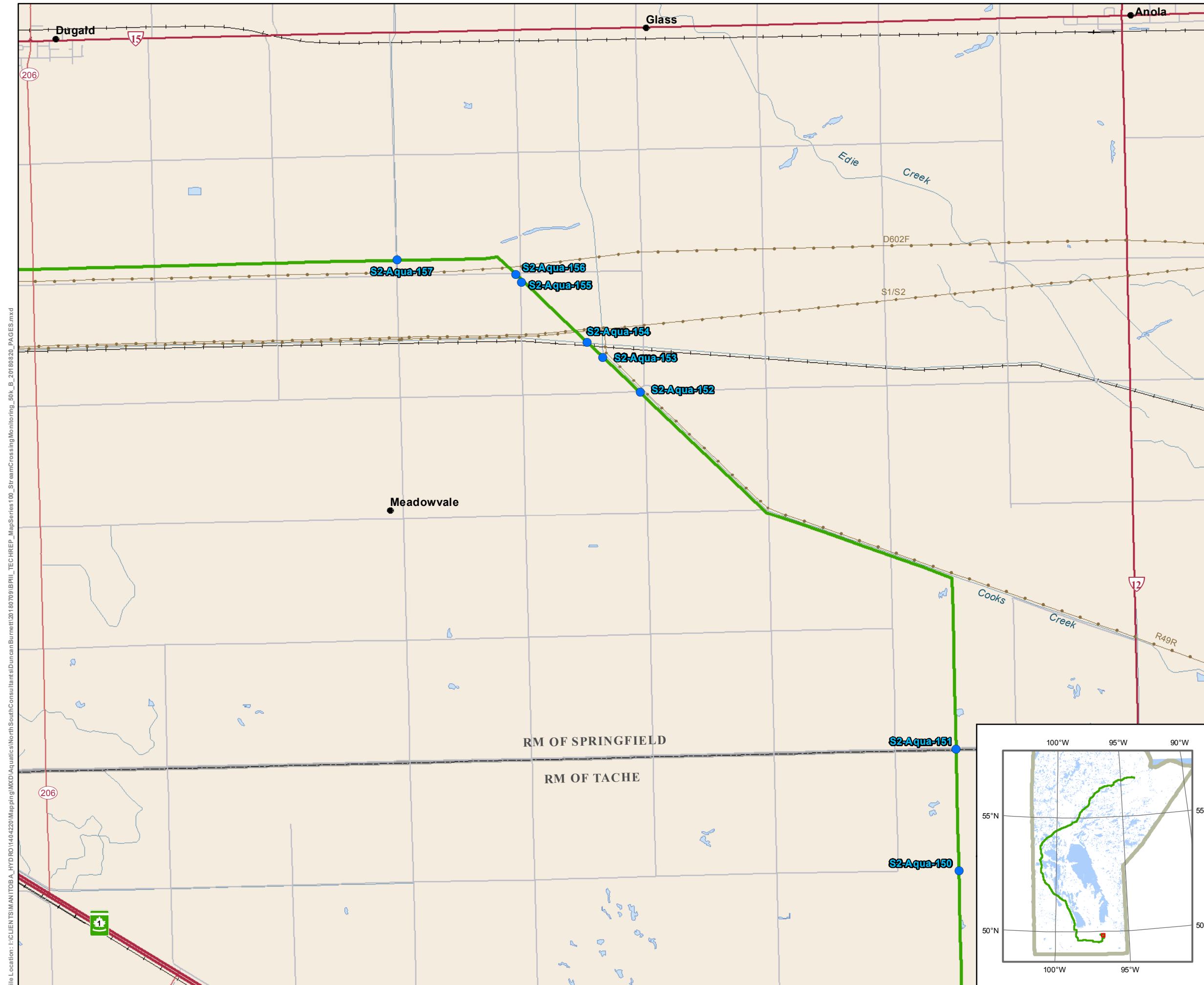
Landbase

- Community
- Trans Canada Highway
- Provincial Highway
- Provincial Road
- - Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83
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Stream Crossing Compliance Monitoring 2018



Bipole III Transmission Project

Project Infrastructure

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- Converter Station Site
- AC Collector Line
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- Ground Electrode Site
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- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Trans Canada Highway
- Provincial Highway
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- City / Town
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83

Data Source: MBHydro, ProvMB, NRCAN

Date Created: October 30, 2018

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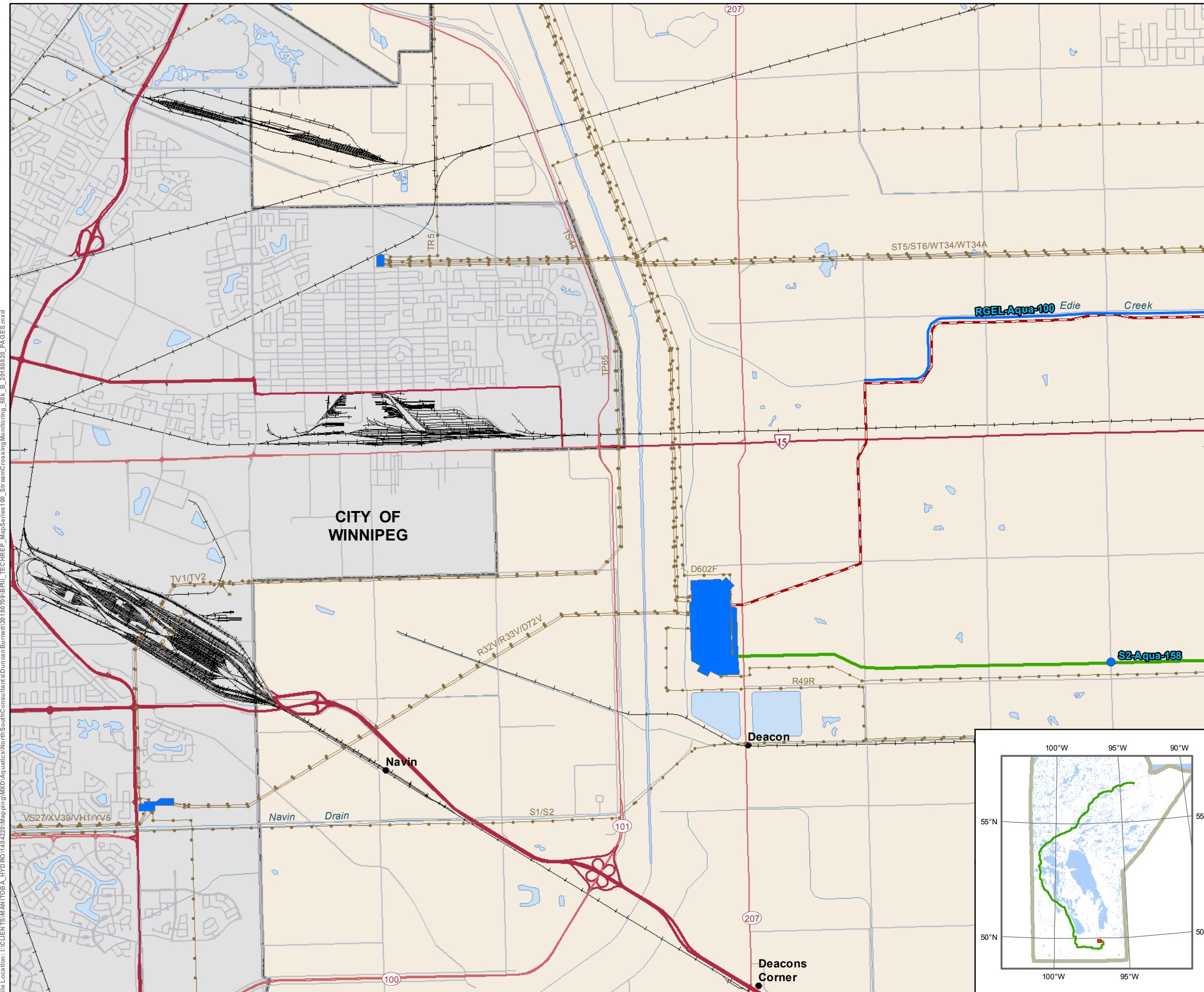
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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 93



Bipole III Transmission Project

Project Infrastructure

- Final Preferred Route
- Converter Station Site
- AC Collector Line
- Ground Electrode Line
- Ground Electrode Site
- Construction Power (KN36)
- Construction Power Site
- Construction Camp Site

Infrastructure

- ◆ Converter Station
- Generating Station
- Electrical Station

Monitoring Location

- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018
- Aquatics Monitoring Site 2018

Landbase

- Community
- Provincial Highway
- Provincial Road
- Active Railway
- Transmission Line
- Watercourse
- Rural Municipality
- Waterbody

Coordinate System: UTM Zone 14N NAD83

Data Source: MBHydro, ProvMB, NRCAN

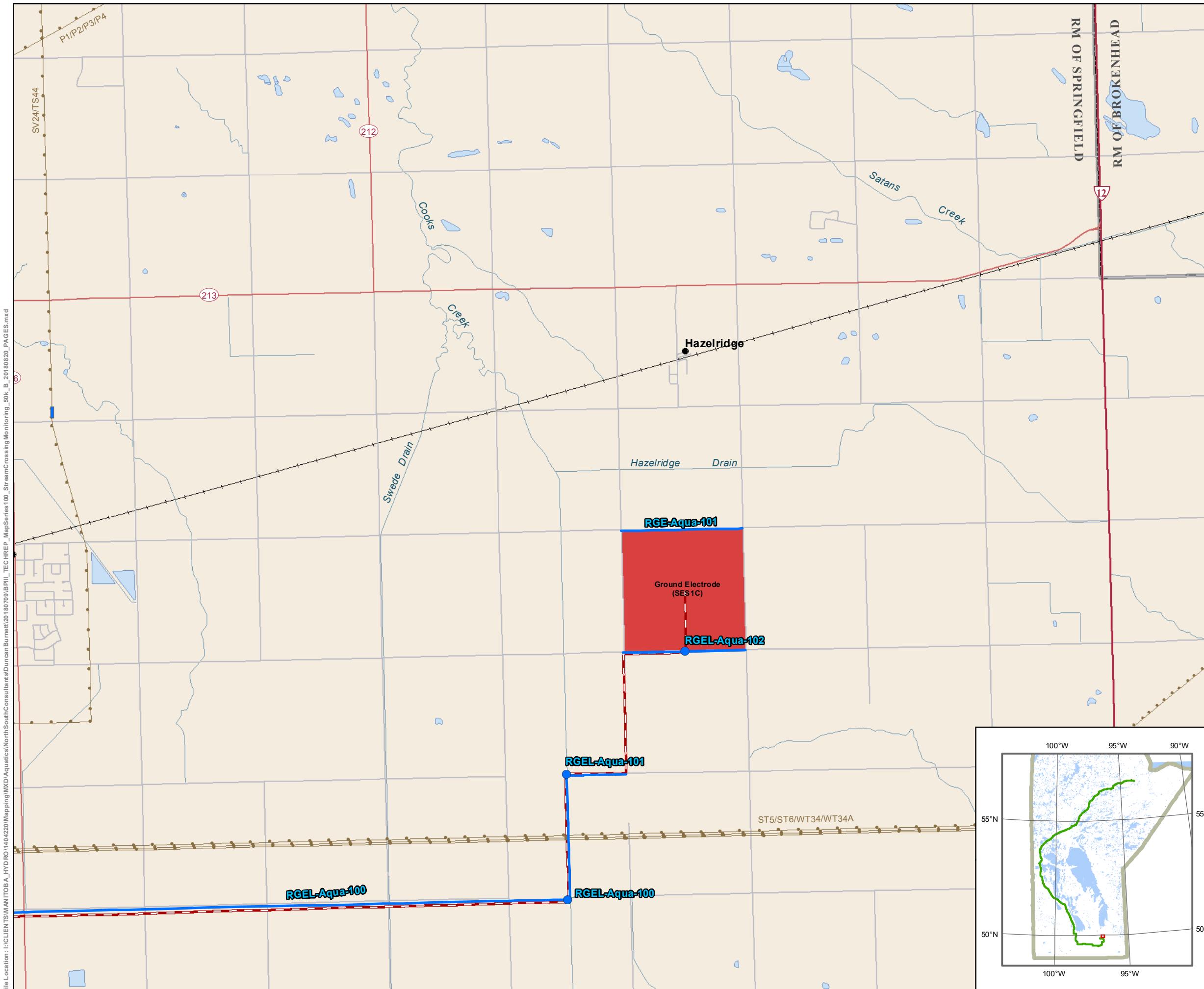
Date Created: October 30, 2018



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Stream Crossing Compliance Monitoring 2018

Map Series 100 - 94



6.0 PHOTOS



Photo 1. CL-Aqua-104 (Brooks Creek). Woody debris accumulated instream at the vehicle crossing, June 2017.

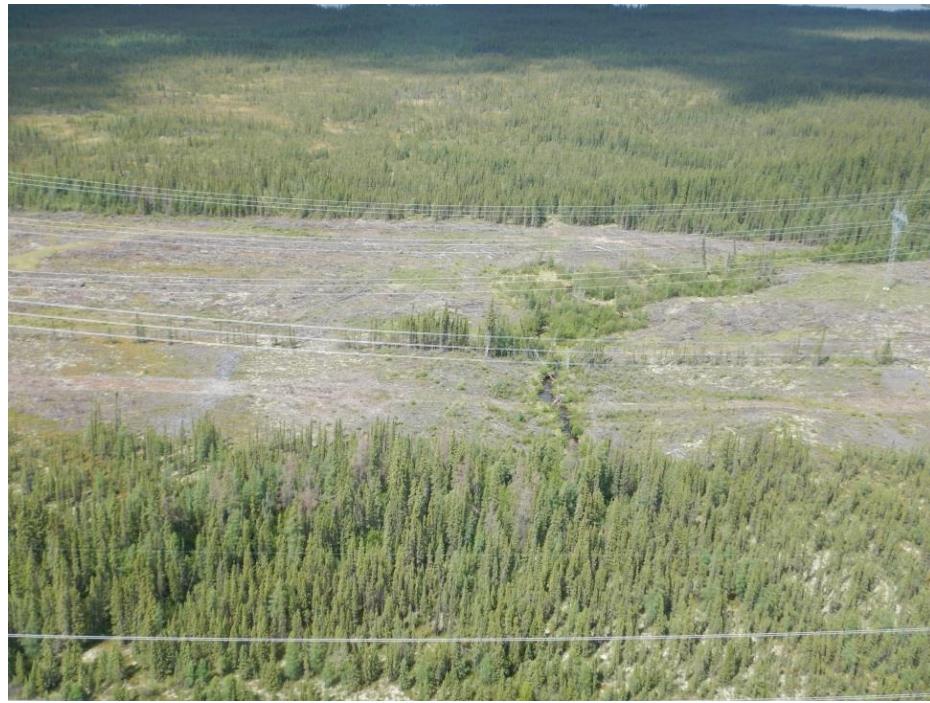


Photo 2. CL-Aqua-104 (Brooks Creek). Some woody debris still present at crossing but not deemed to cause harm to fish, June 2018.



Photo 3. N1-Aqua-129 (Limestone River). Channel within RoW is subject to erosion, June 2017.



Photo 4. N1-Aqua-129 (Limestone River). Channel within RoW is subject to erosion but re-vegetation is sufficient for bank stabilization, June 2018.



Photo 5. N1-Aqua-133 (unnamed tributary of South Moswakot River). Channel runs within the riparian buffer zone in the RoW, prone to erosion, June 2017.



Photo 6. N1-Aqua-133 (unnamed tributary of South Moswakot River). Channel runs within the riparian buffer zone in the RoW, prone to erosion but vegetation regrowth is occurring and should be sufficient to prevent erosion, June 2018.



Photo 7. N1-Aqua-131 (North Moskwakot River). Presence of bare ground through the RoW at the centerline trail crossing is susceptible to erosion. regrowth occurring but suggest implementing ESC measures due to important fish habitat, June 2018.



Photo 8. N1-Aqua-173 (Burntwood River). Erosion in RBZ and slumping of southern bank (segment N1), June 2017.



Photo 9. N1-Aqua-173 (Burntwood River). Erosion/slumping of the southern bank (segment N1) at the downstream side of the RoW showing regrowth, June 2018.



Photo 10. N1-Aqua-173 (Burntwood River). Recovery of the northern bank, June 2018.



Photo 11. N1-Aqua-173 (Burntwood River). Re-vegetation of the south bank of the Burntwood River RoW, June 2018.



Photo 12. N1-Aqua-135 (unnamed tributary of South Moswakot River). Woody debris in channel at the vehicle crossing, June 2017.



Photo 13. N1-Aqua-135 (unnamed tributary of South Moswakot River). Woody debris/deadfall in channel at the vehicle crossing but not significant to cause harm to fish. No removal required, June 2018.



Photo 14. N1-Aqua-156 (unnamed tributary of Assean Lake). Woody debris in channel immediately downstream of the vehicle crossing, June 2017.



Photo 15. N1-Aqua-156 (unnamed tributary of Assean Lake). Closer inspection of the watercourse showed flow was not severely impeded by the debris, June 2018.



Photo 16. N1-Aqua-156 (unnamed tributary of Assean Lake). Woody debris in channel immediately downstream of the vehicle crossing, June 2018. Marginal fish habitat and debris does not completely block stream, no action required.



Photo 17. N1-Aqua-161 (unnamed tributary of the Burntwood River). Woody debris and slash left below the HWM and within the watercourse crossing. Marginal fish habitat but should consider removing, June 2018.



Photo 18. N1-Aqua-167 (unnamed tributary of the Burntwood River). Woody debris in channel at the vehicle crossing, June 2017.



Photo 19. N1-Aqua-167 (unnamed tributary of the Burntwood River). Woody debris still present but stream largely dried up and deemed marginal fish habitat, June 2018.



Photo 20. N1-Aqua-169 (unnamed tributary of Odei River). Temporary crossing remains in place, June 2017.



Photo 21. N1-Aqua-169 (unnamed tributary of Odei River), June 2018. Temporary crossing has remained in place since first observed in 2015. Marginal fish habitat therefore removal should be considered.



Photo 22. N2-Aqua-119 (unnamed tributary of Partridge Crop Lake). Bucked wood in channel creating a partial blockage to water flow, June 2017.



Photo 23. N2-Aqua-119 (unnamed tributary of Partridge Crop Lake). Bucked wood remains in channel but considered marginal fish habitat and may be the result of beaver activity, June 2018.



Photo 24. N3-Aqua-106 (unnamed tributary of the Mitishto River). Steep bank on the centerline trail with mulch, June 2017.



Photo 25. N3-Aqua-107 (unnamed tributary of the Mitishto River). Steep bank on the centerline trail with exposed soil, June 2017.



Photo 26. N3-Aqua-106 (unnamed tributary of the Mitishto River). Steep bank with good re-growth, June 2018.



Photo 27. N3-Aqua-107 (unnamed tributary of the Mitishto River). Steep bank with good re-growth, June 2018.



Photo 28. N4-Aqua-124 (unnamed tributary of Mafeking Creek), June 2017.



Photo 29. N4-Aqua-124 (unnamed tributary of Mafeking Creek), June 2018.



Photo 30. KGEL-Aqua-111. Debris left in channel after winter work, June 2017.



Photo 31. KGEL-Aqua-111. Debris no longer visible, June 2018.

**7.0 APPENDIX 1:
STREAM CROSSING COMPLIANCE SUMMARY**

Table A1. Compliance with 21 mitigation measures for stream crossings on the 230 kV AC Collector Lines, 500 kV Line segments N1 through to S2, KGEL, GE and RGEL.

ESS	Name	Construction Status 2018																					
		Cross Perpendicular to Channel	Structures Above Tree Line Remain	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Cleaning Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots	Slash Above the Tree Line	Erosion Disturbed Areas Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording Work	Timing Window for Instream Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed	Follow-up Site Inspection 2019		
<i>Watercourse Crossings of the 230 kV AC Collector Lines</i>																							
CLCP-Aqua 100	unnamed trib. of Goose Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua 100B	unnamed trib. of Goose Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-101	unnamed trib. of Tiny Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-102	unnamed trib. to Swift Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-103	unnamed trib. to Swift Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-104	unnamed trib. to Swift Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-105	unnamed trib. to Swift Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-106	Swift Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
CLCP-Aqua-107	unnamed trib. to Swift Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-108	unnamed trib. to Beaver Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-109	Beaver Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-110	unnamed trib. to Sundance Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-111	Sundance Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-112	unnamed trib. to Raindance Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-113	unnamed trib. to Raindance Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
CLCP-Aqua-114	Raindance Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	

Table A1. Continued.

ESS	Name	Construction Status 2018																			
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Clearing Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Revegetate Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossing Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
CLCP-Aqua-115	Limestone R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	NA	Y	Y	NA	NA	N
CLCP-Aqua-300	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	NA	Y	Y	Y	U	N
KW-Aqua-116	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
KW-Aqua-117	unnamed trib. to Swift Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
KW-Aqua-118	unnamed trib. to Swift Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
KW-Aqua-111	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
KW-Aqua-110	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
KW-Aqua-305	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
CP-Aqua-100	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
CP-Aqua-101	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
CP-Aqua-102	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
CP-Aqua-103	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
CL-Aqua-100	unnamed trib. of the Nelson R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
CL-Aqua-101	Nelson R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
CL-Aqua-102	unnamed trib. of the Nelson R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N
CL-Aqua-103	unnamed trib. of the Nelson R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Structures Above Tree Line	Riparian Ground Cover Remain	Machine Free Zone 7 m	Riparian Buffer 30 m	Clearing Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Ravage Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed
CL-Aqua-104	Brooks Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
CL-Aqua-105	unnamed trib. of the Nelson R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
CL-Aqua-106	unnamed trib. of the Nelson R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
CL-Aqua-107	unnamed trib. of the Nelson R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
CL-Aqua-108	Wilson Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
CL-Aqua-301	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
CL-Aqua-302	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
<i>Watercourse Crossings of the 500 kV Transmission Line</i>																						
N1-Aqua-100	unnamed trib. of Goose Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-101	unnamed trib. of Goose Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-102	unnamed trib. of Tiny Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-103	unnamed wetland	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-104	unnamed trib. of Goose Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-105	unnamed trib. of Goose Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-106	Goose Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-107	unnamed trib. of Weir R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-108	unnamed trib. of Weir R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Creating Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots	Stash Above the Tree Line	Ravage Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording Work	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
N1-Aqua-109	unnamed trib. of 9-Mile Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-110	unnamed trib. of 9-Mile Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-111	unnamed trib. of 9-Mile Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-113	9-Mile Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-114	unnamed trib. of McMillan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-115	unnamed trib. of McMillan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-116	unnamed trib. of McMillan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-117	unnamed trib. of McMillan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-118	McMillan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-119	unnamed trib. of McMillan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-120	unnamed trib. of McMillan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-121	unnamed trib.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-122	unnamed trib. of Limestone R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-123	Limestone R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-124	Limestone R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-125	unnamed trib. of Limestone R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-127	unnamed trib. of unnamed lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-128	unnamed trib. of unnamed Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																			
		Cross Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Cleaning Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots	Sash Above the Tree Line	Revegetate Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossing Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings	Clean Material for Temp. Crossing Removed	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed 2019
N1-Aqua-129	Limestone R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-130	unnamed trib. of Limestone R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-131	North Moswakot R.	C	Y	Y	N	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-132	unnamed trib. of South Moswakot R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	NA	N
N1-Aqua-133	unnamed trib. of South Moswakot R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-134	South Moswakot R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-135	unnamed trib. of South Moswakot R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-136	unnamed trib. of South Moswakot R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	NA	N
N1-Aqua-137	unnamed trib. of Stephens Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-138	unnamed trib. of Assean R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-139	unnamed trib. of Assean R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-140	unnamed trib. of Apetowachakamasik Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-141	unnamed trib. of Apetowachakamasik Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-142	unnamed trib. of Apetowachakamasik Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-143	unnamed trib. of Assean R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-144	Crying R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-145	unnamed trib. of Hunting R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N
N1-Aqua-146	Hunting R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Cutting Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Ravage Disturbed Areas Implemented	Erosion Sediment Control	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed
N1-Aqua-148	Awaweyakamak Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-149	unnamed trib. of Hunting R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-150	unnamed trib. of Hunting R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-151	Missewaitay R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-153	unnamed trib. of Hunting Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-154	unnamed trib. of Hunting Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-155	unnamed trib. of Assean Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-156	unnamed trib. of Assean Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-158	unnamed trib. of Clay R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-159	Clay R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-160	unnamed trib. of Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-161	unnamed trib. of Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-162	unnamed trib. of Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-163	unnamed trib. of Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-165	Orr Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-166	unnamed trib. of Orr Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-167	unnamed trib. of Burntwood R.	C	Y	Y	NA	NA	Y	Y	Y	NA	N	NA	NA	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-168	Odei R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Clearing Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intract	Slash Above the Tree Line	Ravage Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed	Follow-up Site Inspection 2019
N1-Aqua-169	unnamed trib. of Odei R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	U	Y	N	
N1-Aqua-170	unnamed trib. of Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-171	unnamed trib. of Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-172	unnamed trib. of Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N1-Aqua-173	Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
N2-Aqua-100	unnamed trib. of Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-101	trib. of Burntwood R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-102	ponded area within wetland	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-103	trib. of Brannigan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-104	trib. of Brannigan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-105	Brannigan Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-106	unnamed stream	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-107	unnamed stream	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-108	small, unnamed lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-109	trib. of Isbister Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-110	trib. of Isbister Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-111	trib. of Isbister Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-112	Isbister Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																						
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Cleaning Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Ravage Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed	Follow-up Site Inspection 2019
N2-Aqua-113	trib. of Isbister Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-115	trib. of Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-116	unnamed trib. of Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-117	trib. of Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	NA	N
N2-Aqua-119	trib. of Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	N	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-120	trib. of Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-121	trib. of Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-122	Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-123	riparian buffer	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-124	Grass R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-125	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	U	N
N2-Aqua-126	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	U	N
N2-Aqua-127	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	U	N
N2-Aqua-128	unnamed Pond	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	U	N
N2-Aqua-129	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-130	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-131	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-132	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																					
		Cross Channel	Perpendicular to Structures Above Tree Line	Riparian Ground Cover Remain	Machine Free Zone 7 m	Riparian Buffer 30 m	Cleaning Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Infact	Sash Above the Tree Line	Revegetate Disturbed Areas Implemented	Erosion Sediment Control	Temp. Crossing Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed 2019	Follow-up Site Inspection
N2-Aqua-133	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-134	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-135	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-136	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-137	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-138	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-139	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-140	unnamed trib. into Partridge Crop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N2-Aqua-141	unnamed trib. into Teardrop Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-142	unnamed trib. connecting Gordon Brown Lake and Wintering Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-143	unnamed trib. of Wintering Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-144	unnamed trib. into Gordon Brown Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-145	unnamed trib. into Wintering Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	NA	N
N2-Aqua-146	unnamed trib. into Wintering Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-147	unnamed trib. into Wintering Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-148	unnamed trib. into Wintering Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	NA	N
N2-Aqua-149	Patrick Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-150	Halfway R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Cutting Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Erosion Disturbed Areas Implemented	Sediment Control	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed
N2-Aqua-151	Halfway R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-152	unnamed trib. of Patrick Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-153	unnamed trib. of Thicket Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-154	unnamed trib. of Clarke Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-155	unnamed trib. of Clarke Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-156	unnamed trib. of Clarke Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-157	unnamed trib. of Clarke Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-158	Clarke Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-159	Unnamed trib. of Muningwari Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-160	unnamed pond	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-161	unnamed trib. of Tooth Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-162	unnamed trib. of Rocky Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-163	unnamed trib. of Montylake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N2-Aqua-164	unnamed trib. of Montylake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	NA	NA	NA	Y	NA	NA	NA	N
N2-Aqua-165	unnamed trib. of Resting Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	NA	NA	NA	Y	NA	NA	NA	N
N2-Aqua-166	unnamed trib. of Gormley Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N3-Aqua-100	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N3-Aqua-101	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																						
		Cross Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Cleaning Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots	Sash Above the Tree Line	Revegetate Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossing Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed 2019	Follow-up Site Inspection	
N3-Aqua-102	Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	U	Y	N	
N3-Aqua-103	Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	U	Y	N	
N3-Aqua-104	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	U	Y	N
N3-Aqua-105	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	U	Y	N
N3-Aqua-106	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	U	Y	N
N3-Aqua-107	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	U	Y	N
N3-Aqua-108	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	U	Y	N
N3-Aqua-109	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	U	Y	N
N3-Aqua-110	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	U	Y	N
N3-Aqua-111	unnamed trib. into Mitishto R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	U	Y	N
N3-Aqua-112	unnamed trib. into Dyce Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	NA	Y	N
N3-Aqua-113	unnamed trib. of Frog Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	NA	Y	N
N3-Aqua-114	unnamed trib. into Frog Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	NA	Y	N
N3-Aqua-115	Frog Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	NA	Y	N
N3-Aqua-116	unnamed headwater or side tributaries into Frog Cr.	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-117	unnamed headwater or side tributaries into Little Frog Cr.	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-118	unnamed headwater or side tributaries into Little Frog Cr.	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-119	unnamed headwater or side tributaries into Little Frog Cr.	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N

Table A1. Continued.

ESS	Name	Construction Status 2018																					
		Cross Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover Remain	Machine Free Zone 7 m	Riparian Buffer 30 m	Clearing Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Ravage Disturbed Areas Implemented	Erosion Sediment Control	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed	Follow-up Site Inspection 2019
N3-Aqua-120	unnamed headwater or side tributaries into Little Frog Cr.	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	Y	Y	Y	NA	Y	NA	U	U	N	
N3-Aqua-121	unnamed headwater or side tributaries into Little Frog Cr.	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	Y	Y	Y	NA	Y	NA	U	U	N	
N3-Aqua-122	unnamed trib. into Little Frog Cr.	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-123	unnamed trib. into Little Frog Cr.	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-124	unnamed trib. of unnamed Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N3-Aqua-125	unnamed trib. of Little Frog Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N3-Aqua-126	Little Frog Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N3-Aqua-127	unnamed trib. of Little Frog Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-128	unnamed trib. of Little Frog Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-129	unnamed trib. of Little Frog Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N3-Aqua-130	unnamed trib. of Little Frog Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-131	unnamed trib. of Little Frog Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-132	unnamed trib. of Little Frog Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N
N3-Aqua-133	unnamed pond	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N3-Aqua-134	Saskatchewan R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	NA	Y	NA	NA	NA	N
N3-Aqua-136	unnamed trib. of the Saskatchewan R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N3-Aqua-137	unnamed trib. of the Saskatchewan R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N3-Aqua-138	Ralls Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																						
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Creating Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots	Stash Above the Tree Line	Ravage Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording Work	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed	Follow-up Site Inspection 2019
N3-Aqua-139	unnamed pond	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-100	Iskwayanikakespeetik Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-101	Iskwayanikakespeetik Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-102	Iskwayanikakespeetik Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-103	Iskwayanikakespeetik Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-104	Iskwayanikakespeetik Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-105	Iskwayanikakespeetik Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-106	unnamed trib. of Cedar Lake	C	Y	NA	NA	NA	NA	Y	Y	Y	NA	NA	NA	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-107	unnamed lake	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	N	
N4-Aqua-108	unnamed drain	C	Y	NA	NA	NA	NA	Y	Y	Y	NA	NA	NA	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-109	unnamed drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-110	Overflowing R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-111	unnamed trib. of Overflowing R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-112	unnamed trib. of Lake Winnipegosis	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-113	Red Deer R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	Y	NA	NA	NA	N	
N4-Aqua-114	unnamed trib. of Lake Winnipegosis	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	Y	NA	NA	NA	N	
N4-Aqua-115	unnamed trib. of Lake Winnipegosis	C	Y	NA	NA	NA	NA	U	Y	NA	NA	Y	NA	Y	Y	Y	Y	NA	Y	NA	U	U	N	
N4-Aqua-116	unnamed trib. of unnamed lake	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	Y	NA	NA	NA	N	

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Cutting Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Erosion Disturbed Areas Implemented	Sediment Control	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed
N4-Aqua-121	unnamed trib. of unnamed lake	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-123	Steeprock R.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-124	unnamed trib. of Mafeking Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	NA	U	N
N4-Aqua-125	Bell R.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-126	unnamed agricultural drain	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-127	unnamed agricultural drain	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-128	unnamed trib. of Bell Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-129	unnamed trib. of Bell Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	NA	U	N
N4-Aqua-130	Wawayanagan R.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	NA	NA	N
N4-Aqua-131	unnamed waterbody	C	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	NA	NA	N
N4-Aqua-132	unnamed waterbody	C	Y	Y	Y	Y	Y	U	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	NA	N
N4-Aqua-133	unnamed agricultural drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	NA	N
N4-Aqua-134	Swede Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-135	unnamed agricultural drain	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	NA	NA	N
N4-Aqua-136	unnamed trib. of Woody R.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-137	Woody R.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	Y	NA	Y	Y	U	Y	N
N4-Aqua-138	trib. of Woody R.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	NA	NA	N
N4-Aqua-139	trib. of Woody R.	C	Y	NA	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	NA	NA	N

Table A1. Continued.

ESS	Name	Construction Status 2018																						
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer - 30 m	Creating Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots	Slash Above the Tree Line	Erosion Disturbed Areas	Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording Work	Timing Window for Instream Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed 2019	Follow-up Site Inspection	
N4-Aqua-140	Poplar Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	NA	NA	N			
N4-Aqua-144	oxbow lake/wetland of Swan R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-145	oxbow lake/wetland of Swan R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-146	Swan R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-147	Kitzul drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N		
N4-Aqua-148	unnamed agricultural drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
N4-Aqua-149	unnamed agricultural drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N		
C1-Aqua-100	North Duck R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N		
C1-Aqua-102	unnamed trib. of North Duck R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N	
C1-Aqua-103	Sclater R.	C	Y	NA	NA	NA	NA	NA	U	Y	NA	NA	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C1-Aqua-104	unnamed trib. of Sclater R.	C	Y	NA	NA	NA	NA	NA	U	Y	NA	NA	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C1-Aqua-105	unnamed trib. of North Pine R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	
C1-Aqua-106	North Pine R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	
C1-Aqua-107	North Pine R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	
C1-Aqua-108	North Pine R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	
C1-Aqua-109	South Pine R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	
C1-Aqua-110	unnamed pond	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	
C1-Aqua-111	unnamed trib. of Garland R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	

Table A1. Continued.

ESS	Name	Construction Status 2018																			
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Clearing Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Reroute Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossing Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
C1-Aqua-112	Garland R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	
C1-Aqua-113	Backwater of Garland R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	
C1-Aqua-114	Backwater of Garland R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N	
C1-Aqua-115	unnamed trib. of Wellburns Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	
C1-Aqua-116	unnamed trib. of Wellburns Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	N	
C1-Aqua-117	Wellburns Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	
C1-Aqua-118	unnamed small lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	
C1-Aqua-119	Mossy R.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	Y	
C1-Aqua-120	Robinson Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	
C1-Aqua-121	unnamed trib. of Cork Cliff Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	
C1-Aqua-122	Cork Cliff Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	
C1-Aqua-124	unnamed trib. of Lake Winnipegosis	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	
C1-Aqua-125	German Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	
C1-Aqua-127	unnamed pond	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	NA	Y	N	
C1-Aqua-128	unnamed agricultural drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	N	
C1-Aqua-129	unnamed agricultural drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	
C2-Aqua-100	unnamed wetland	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	
C2-Aqua-101	small unnamed waterbody	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	N	

Table A1. Continued.

ESS	Name	Construction Status 2018																					
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Creating Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots	Stash Above the Tree Line	Ravage Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection	Temp. Bridge As Needed
C2-Aqua-102	small unnamed waterbody	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	NA	NA	Y	Y	NA	NA	N	
C2-Aqua-103	unnamed Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-104	unnamed Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-105	unnamed Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-106	unnamed trib. from Pedro Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-107	drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-108	unnamed trib. from Jarvies Lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-109	unnamed stream between Jarvies Lake and an unnamed lake	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-110	unnamed Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-111	Garrioch Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-112	Rocklan Drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-113	drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-114	unnamed waterbody	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-115	unnamed waterbody	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-117	small, unnamed lake	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-119	unnamed road ditch	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-120	unnamed road ditch (wetland)	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-121	small, unnamed waterbody	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover Remain	Machine Free Zone 7 m	Riparian Buffer 30 m	Creating Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Ravage Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
C2-Aqua-122	drain (wetland)	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-123	drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-124	unnamed Cr.	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-125	drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-126	drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-127	drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-128	drain	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-129	drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-130	unnamed Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-131	unnamed Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-132	unnamed Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-133	unnamed Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-134	drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-135	drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
C2-Aqua-136	drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	NA	N	
S1-Aqua-101	small, unnamed waterbody (retention pond)	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	N
S1-Aqua-102	small, unnamed waterbody (retention pond)	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	N
S1-Aqua-103	unnamed drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	NA	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Clearing Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Ravage Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossing Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
S1-Aqua-106	small, unnamed waterbody (retention pond)	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
S1-Aqua-107	unnamed drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-108	unnamed drain	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
S1-Aqua-109	small, unnamed waterbody (retention pond)	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
S1-Aqua-111	unnamed drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-112	Whitemud R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-113	Squirrel Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-114	unnamed drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-115	unnamed drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-116	unnamed drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-117	unnamed drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-118	New Beaudin Drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-119	unnamed ditch	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-120	unnamed road ditch	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-121	Westbourne Drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-122	unnamed drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-124	unnamed trib. of Rat Cr.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S1-Aqua-125	Bagot Cr.	C	Y	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y	NA	N

Table A1. Continued.

ESS	Name	Construction Status 2018																			
		Cross Channel	Perpendicular to Structures Above Tree Line	Riparian Ground Cover Remain	Machine Free Zone 7 m	Riparian Buffer 30 m	Cutting Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Stash Above the Tree Line	Ravage Disturbed Areas Implemented	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
S1-Aqua-126	Rat Cr.	C	Y	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Y	NA	NA	Y	N
S1-Aqua-127	unnamed wetland	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	Y	NA	N
S1-Aqua-128	Rossendale Drain	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S1-Aqua-129	unnamed trib. of Assiniboine R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S1-Aqua-130	Assiniboine R.	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	U	NA	Y	NA	NA	Y	NA	N
S1-Aqua-131	small, unnamed waterbody	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S1-Aqua-132	small, unnamed waterbody	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S1-Aqua-133	unnamed small wetland area	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S1-Aqua-134	unnamed small wetland area	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S1-Aqua-135	unnamed small lake	C	Y	NA	Y	Y	Y	Y	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-100	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-101	11-A Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-102	11-A Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-103	11-A Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-104	11-A Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-105	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-106	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-107	unnamed pond	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	Y	NA	NA	Y	NA	NA	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Cutting Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Ravage Disturbed Areas Implemented	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
S2-Aqua-108	Parker Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-109	Parker Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-110	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-111	Garber Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-112	Garber Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-113	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S2-Aqua-114	Manness Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	Y	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-115	Roberts Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	Y	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-116	Domain Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	Y	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-117	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S2-Aqua-118	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S2-Aqua-119	La Pointe Coulee	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S2-Aqua-120	Red R.	C	Y	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
S2-Aqua-121	unnamed trib. of Marsh R.	C	NA	NA	NA	NA	NA	NA	U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
S2-Aqua-122	Marsh R.	C	NA	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	NA	Y	NA	NA	Y	NA	N
S2-Aqua-123	Rat R.	C	NA	NA	NA	NA	NA	NA	Y	NA	NA	NA	NA	NA	NA	NA	Y	NA	NA	Y	NA	N
S2-Aqua-124	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	Y	NA	N
S2-Aqua-125	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N

Table A1. Continued.

ESS	Name	Construction Status 2018																			
		Cross Channel	Perpendicular to Structures Above Tree Line	Riparian Ground Cover	Machine Free Zone 7 m	Riparian Buffer 30 m	Cutting Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Ravage Disturbed Areas Implemented	Erosion Sediment Control	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
S2-Aqua-126	Tourond Cr.	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-127	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-128	unnamed wetland	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-129	Old South Lateral Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-130	South Lateral Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-131	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-132	Chorlitz Drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-133	unnamed drain	C	Y	NA	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-134	Manning Canal	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-135	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-136	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-137	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-138	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-139	Youville Drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-140	Seine R. Diversion	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-143	Seine R.	C	Y	Y	Y	NA	NA	U	Y	NA	NA	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-144	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
S2-Aqua-145	unnamed ditch/drain connected to Seine R.	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Cross Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover Retain	Machine Free Zone 7 m	Riparian Buffer 30 m	Clearing Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots Intact	Slash Above the Tree Line	Revegetate Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removal	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
S2-Aqua-146	unnamed ditch/drain connected to Seine R.	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	NA	NA	NA	N
S2-Aqua-147	Fish Cr.	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-148	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-149	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-150	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-151	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-152	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-153	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-154	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-155	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-156	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-157	Swede Drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N
S2-Aqua-158	unnamed drain	C	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	Y	NA	NA	Y	NA	NA	N

Table A1. Continued.

ESS	Name	Construction Status 2018																				
		Cross Channel	Perpendicular to Channel	Structures Above Tree Line	Riparian Ground Cover Remain	Machine Free Zone 7 m	Riparian Buffer 30 m	Clearing Limits Marked	Construction on Frozen Ground	Riparian Vegetation Roots In tact	Slash Above the Tree Line	Revegetate Disturbed Areas	Erosion Sediment Control Implemented	Temp. Crossings Only As Needed	Appropriate Temp. Crossing Design	Existing Access Used	Temp. Crossings Perpendicular	Clean Material for Temp. Crossing Removed	One-time Fording	Timing Window for Instream Work	Fording Under Acceptable Conditions	Stream Bank Protection
KGEL-Aqua-110	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
KGEL-Aqua-111	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
KGEL-Aqua-113	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
KGEL-Aqua-114	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
KGEL-Aqua-115	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
GE-Aqua-100	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
GE-Aqua-300	N/A	C	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA	Y	Y	Y	Y	NA	Y	Y	U	Y	N
RGEL-Aqua-100	N/A	C	Y	Y	Y	Y	Y	Y	U	Y	Y	Y	Y	NA	NA	NA	NA	Y	NA	NA	NA	N
RGEL-Aqua-101	N/A	C	Y	Y	Y	Y	Y	Y	U	Y	Y	Y	NA	NA	NA	NA	NA	NA	NA	NA	NA	N
RGEL-Aqua-102	N/A	C	Y	Y	Y	Y	Y	Y	U	Y	Y	Y	NA	NA	NA	NA	NA	NA	NA	NA	NA	N

Compliance: Y - compliant; N - non-compliant; NA - not applicable; U - uncertain

Construction Status 2018: NC - no clearing; CL - center line only cleared; RI - riparian buffer incomplete; RC -RoW clearing complete; TF- tower footprint cleared; TA - tower anchors installed; TW - towers complete; C - construction complete

Other: Cr. - creek; R. - River; Temp. - temporary; Trib. - trib.

Available in accessible formats upon request