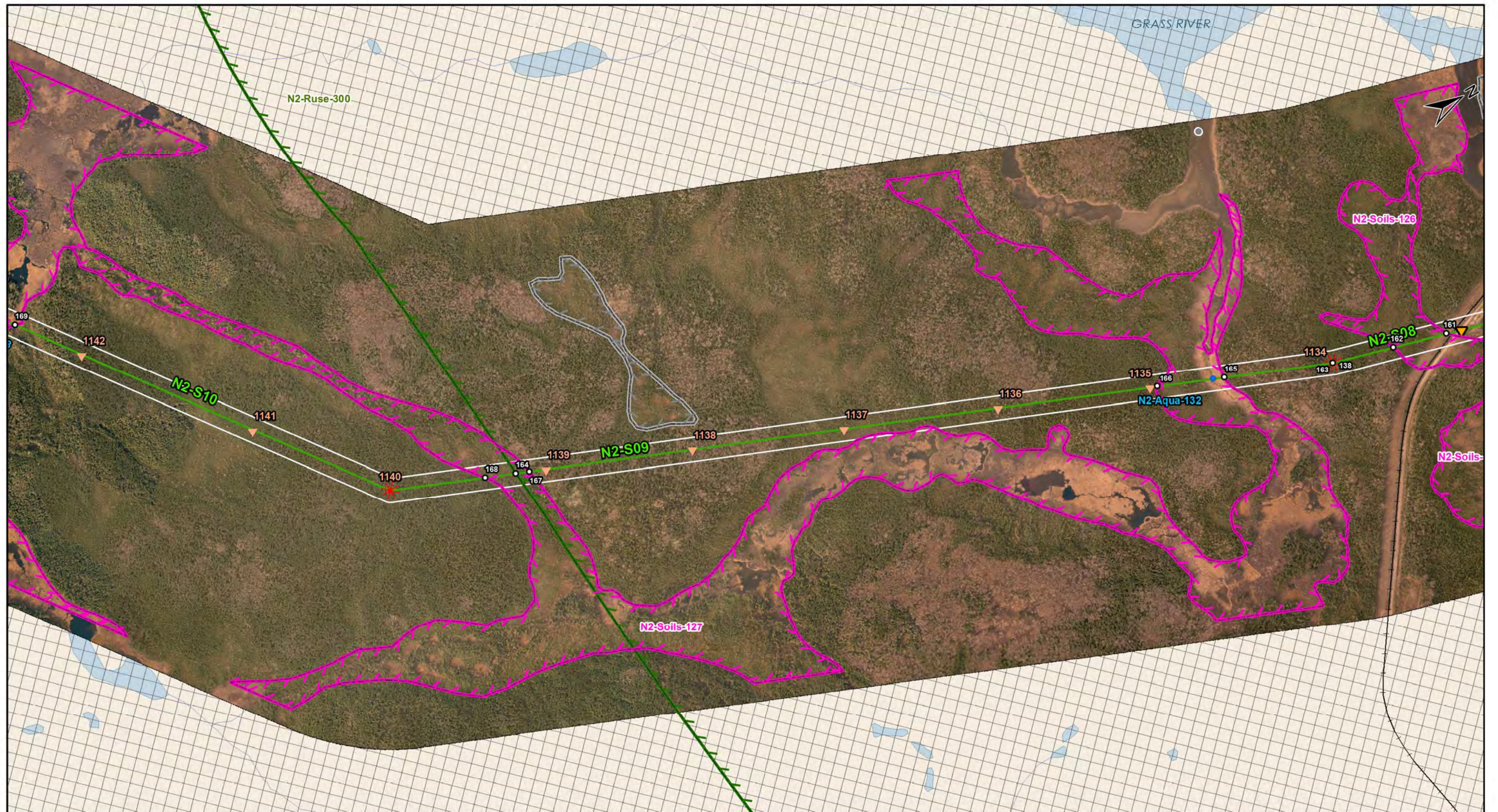
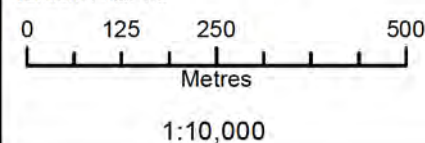




Coordinate System: UTM Zone 14N NAD83
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Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

*Towers are subject to change, and are only used as a rough guide

Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Water

- Water Crossing

Resource Use

- Forestry

Soils and Terrain

- Permafrost

Bipole III Transmission Project **Construction Environmental Protection Plan** **Construction Section N2** **Environmentally Sensitive Site Locations**

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S09	N2-Aqua-132	Unnamed Tributary into Partridge Crop Lake	591127	6156691	14N	9.6m	9.6m	Moderate	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Forestry

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S8	N2-RUse-300	ATK-91 Pikwitonei	Site: 137 to 138	E-593025 N-6163061	E-591254 N-6156993	14N	6320m
N2-S9	N2-RUse-300	ATK-91 Pikwitonei	Site: 163 to 164	E-591254 N-6156993	E-590387 N-6154935	14N	2233m

Potential Effects:

Potential to disrupt access to fuel wood area

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Avoid surface damage to and obstruction of access route
- Make fuel wood from ROW clearing available to local community where demand exists

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S8	N2-Soils-126	Permafrost	Site: 161 to 162	E-591343 N-6157298	E-591301 N-6157156	14N	148 m
N2-S9	N2-Soils-127	Permafrost	Site: 165 to 166	E-591139 N-6156721	E-591067 N-6156550	14N	184 m
N2-S9	N2-Soils-127	Permafrost	Site: 167 to 168	E-590402 N-6154969	E-590355 N-6154857	14N	121 m
N2-S10	N2-Soils-127	Permafrost	Site: 169 to 170	E-589353 N-6153971	E-589151 N-6153826	14N	248 m

Potential Effects:

Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S10	N2-Aqua-133	Unnamed Tributary into Partridge Crop Lake	589246	6153895	14N	239.1m	N/A	Moderate	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

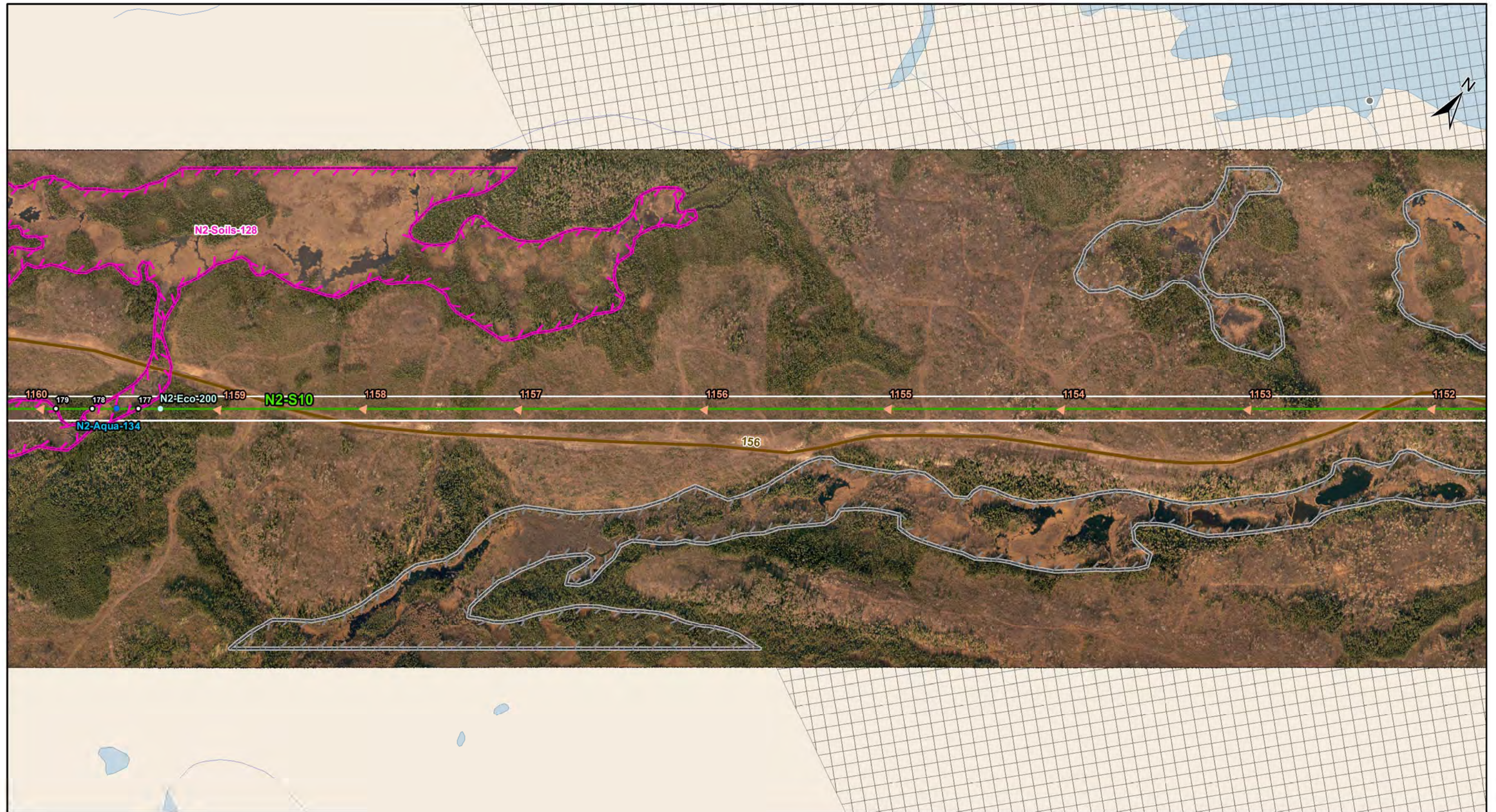
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S10	N2-Soils-127	Permafrost	Site: 169 to 170	E-589353 N-6153971	E-589151 N-6153826	14N	248m
N2-S10	N2-Soils-127	Permafrost	Site: 171 to 172	E-589062 N-6153763	E-588992 N-6153712	14N	86m
N2-S10	N2-Soils-127	Permafrost	Site: 173 to 174	E-588837 N-6153601	E-588518 N-6153372	14N	393m
N2-S10	N2-Soils-127	Permafrost	Site: 175 to 176	E-587333 N-6152522	E-587231 N-6152449	14N	125m

Potential Effects:

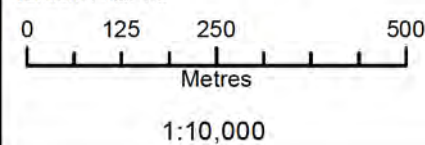
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



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Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

*Towers are subject to change, and are only used as a rough guide

Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Ecosystem

- Permafrost Monitoring Site

Water

- Water Crossing

Soils and Terrain

- Permafrost

Bipole III Transmission Project **Construction Environmental Protection Plan** **Construction Section N2** **Environmentally Sensitive Site Locations**

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S10	N2-Aqua-134	Unnamed Tributary into Partridge Crop Lake	583153	6149524	14N	N/A	N/A	Low	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S10	N2-Soils-128	Permafrost	Site: 177 to 178	E-583202 N-6149558	E-583100 N-6149485	14N	125m
N2-S10	N2-Soils-128	Permafrost	Site: 179 to 180	E-583021 N-6149428	E-582538 N-6149082	14N	594m

Potential Effects:

Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan

ESS Group: Research

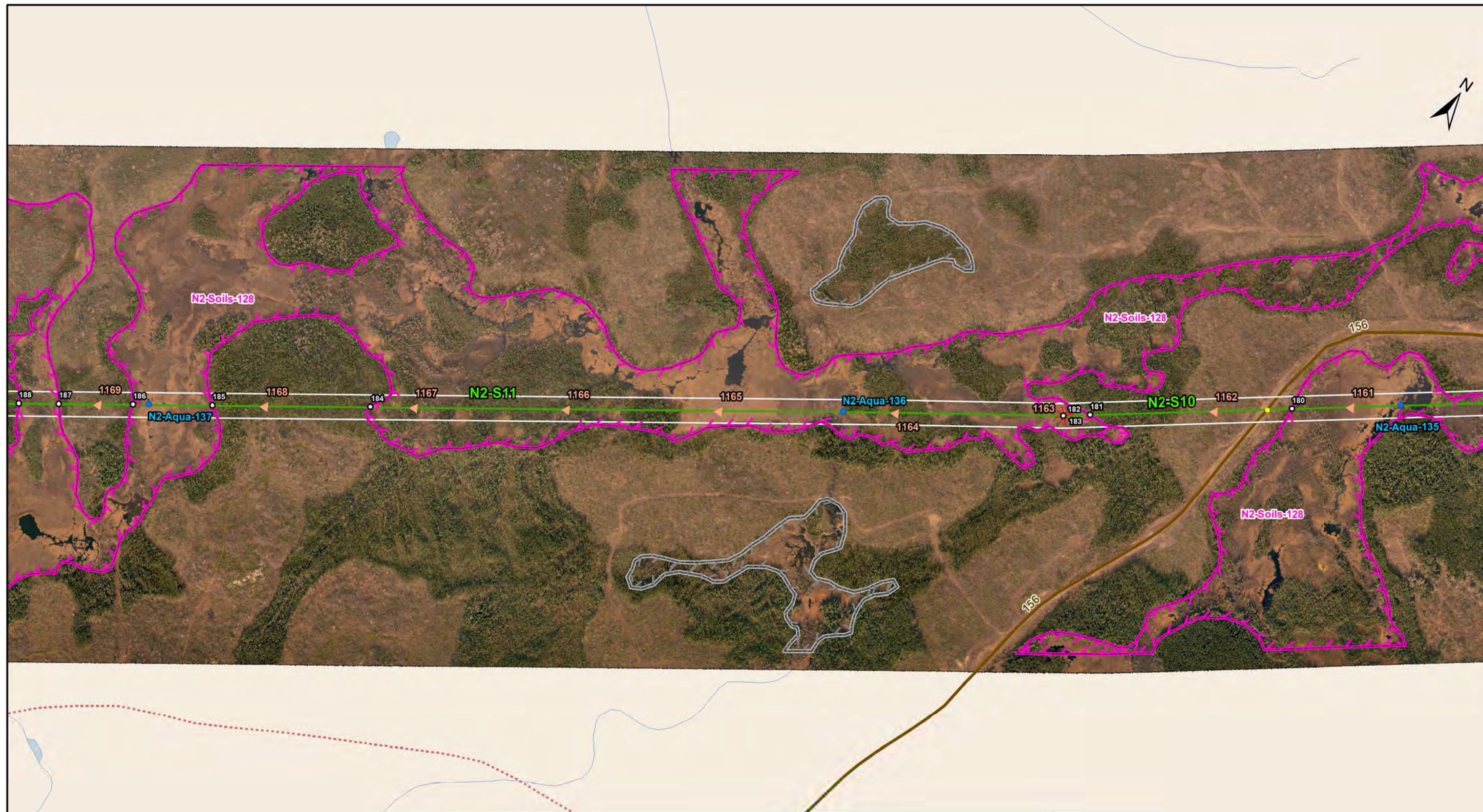
Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N2-S10	N2-Eco-200	Permafrost Monitoring Site	583249	6149591	14N

Potential Effects:

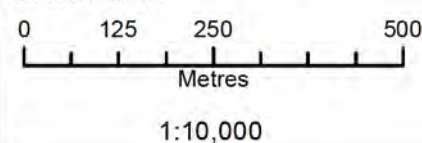
Permafrost monitoring site, buried thermistor is exposed 5-10cm at the surface and is susceptible to damage

Specific Mitigation:

- Identify and flag sensor's location to protect it damage
- Notify construction crews of sensor location



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Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

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Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Water

- Water Crossing

Soils and Terrain

- Permafrost

Bipole III Transmission Project Construction Environmental Protection Plan

Construction Section N2 Environmentally Sensitive Site Locations

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S10	N2-Aqua-135	Unnamed Tributary into Partridge Crop Lake	582777	6149254	14N	72.3m	72.3m	Moderate	Marginal
N2-S10	N2-Aqua-136	Unnamed Tributary into Partridge Crop Lake	581532	6148397	14N	32.8m	N/A	Moderate	Marginal
N2-S10	N2-Aqua-137	Unnamed Tributary into Partridge Crop Lake	579963	6147363	14N	5.03m	5.03m	Moderate	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

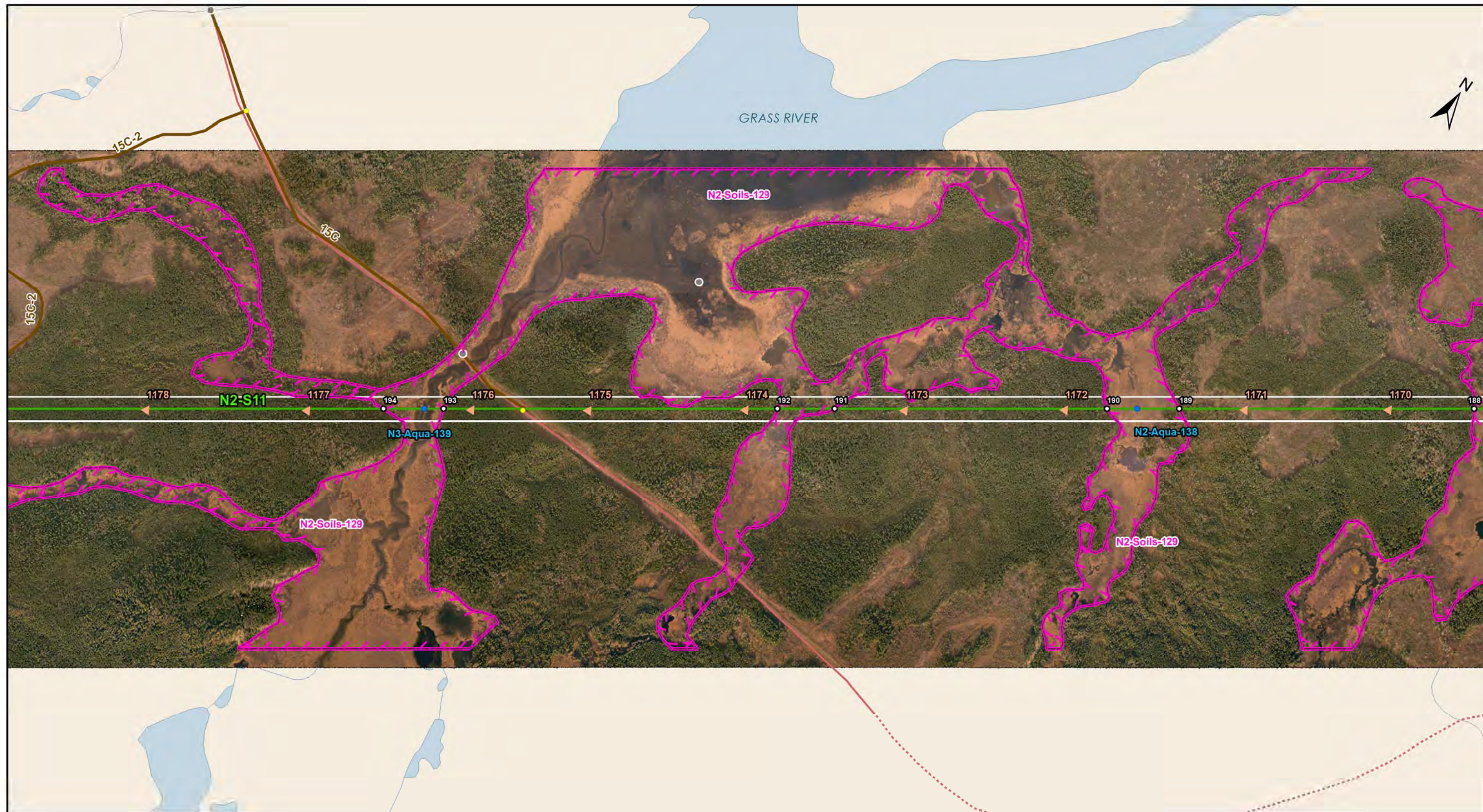
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S10	N2-Soils-128	Permafrost	Site: 179 to 180	E-583021 N-6149428	E-582538 N-6149082	14N	594m
N2-S10	N2-Soils-128	Permafrost	Site: 181 to 182	E-582092 N-6148763	E-582034 N-6148721	14N	71m
N2-S11	N2-Soils-128	Permafrost	Site: 183 to 184	E-582034 N-6148721	E-580465 N-6147693	14N	1876m
N2-S11	N2-Soils-128	Permafrost	Site: 185 to 186	E-580106 N-6147457	E-579927 N-6147339	14N	214m
N2-S11	N2-Soils-128	Permafrost	Site: 187 to 188	E-579760 N-6147229	E-579669 N-6147169	14N	108m

Potential Effects:

Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



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Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

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Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Water

- Water Crossing

Soils and Terrain

- Permafrost

Bipole III Transmission Project

Construction Environmental Protection Plan

Construction Section N2

Environmentally Sensitive Site Locations

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S11	N2-Aqua-138	Unnamed Tributary into Grass River	578905	6146667	14N	2.8m	2.8m	Moderate	Marginal
N2-S11	N2-Aqua-139	Unnamed Tributary into Grass River	577294	6145606	14N	47.7m	47.7m	Moderate	Important

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

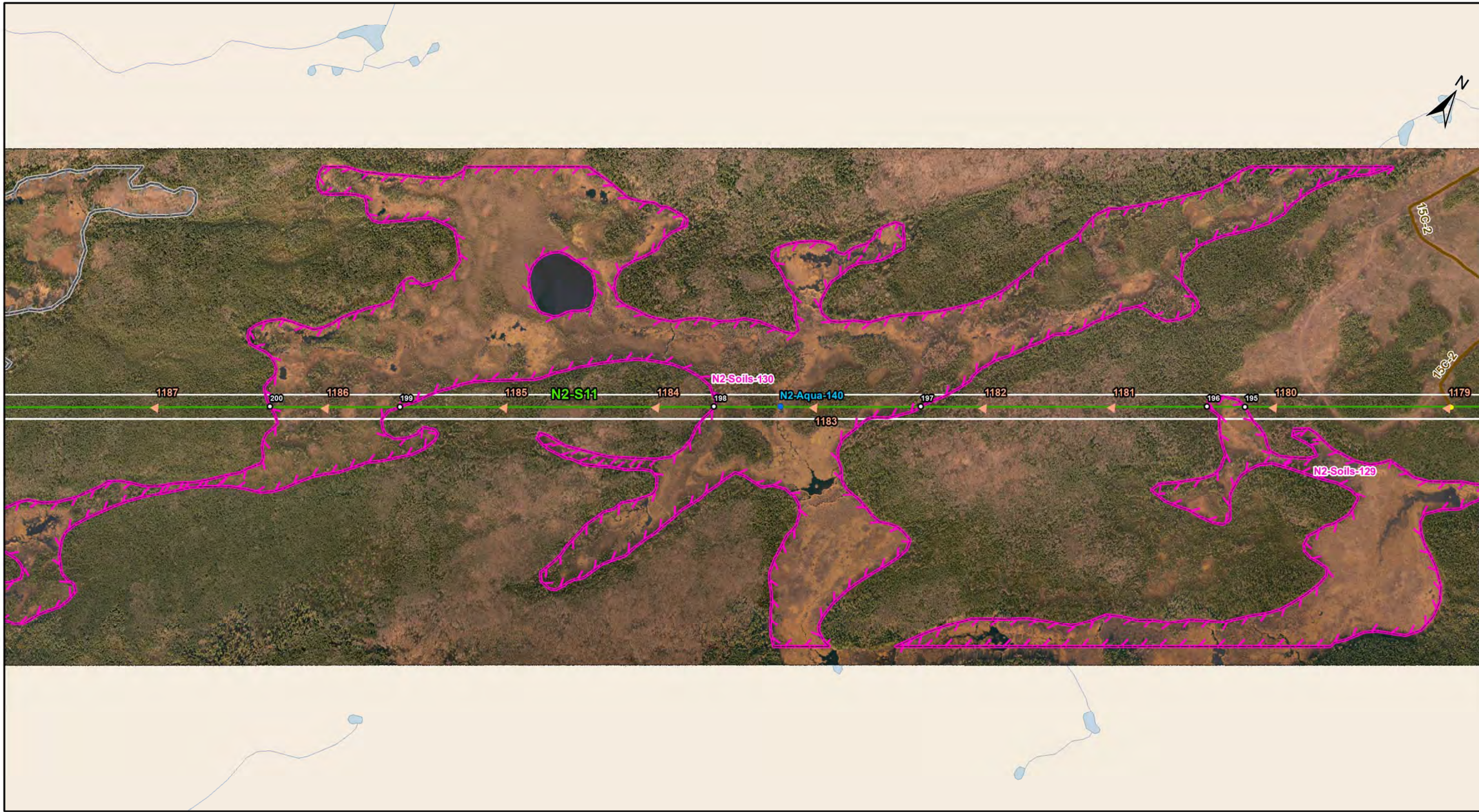
Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S11	N2-Soils-128	Permafrost	Site: 187 to 188	E-579760 N-6147229	E-579669 N-6147169	14N	108 m
N2-S11	N2-Soils-129	Permafrost	Site: 189 to 190	E-579002 N-6146730	E-578838 N-6146622	14N	197 m
N2-S11	N2-Soils-129	Permafrost	Site: 191 to 192	E-578223 N-6146217	E-578094 N-6146132	14N	155 m
N2-S11	N2-Soils-129	Permafrost	Site: 193 to 194	E-577338 N-6145634	E-577202 N-6145545	14N	162 m

Potential Effects:

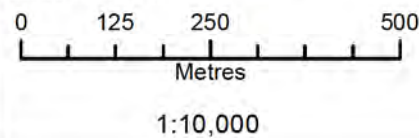
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
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- Land Base**
- Transmission Line
 - Highway
 - Major Road
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 - Railway (Operational)
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- Project Infrastructure**
- Angle Tower Locations*
 - Towers (Preliminary)*
 - BPIII Final Preferred Route
 - 66 m Right of Way
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- Sensitive Sites***
- Point Features
 - Linear Features
 - Area Features
- *Currently outside the Project footprint

- Points of Access***
- Proposed Access Point
 - Major Stream Crossing
 - Abandoned Rail Crossing
 - Rail Crossing
 - Transmission Line Crossing
 - Bypass Trails
 - Approved Access Route

- ESS Features**
- Water**
- Water Crossing
- Soils and Terrain**
- Permafrost

Bipole III Transmission Project
Construction Environmental Protection Plan
Construction Section N2
Environmentally Sensitive Site Locations

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S11	N2-Aqua-140	Unnamed Tributary into Partridge Crop Lake	574800	6143963	14N	1.86m	1.86m	Moderate	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S11	N2-Soils-129	Permafrost	Site: 195 to 196	E-575852 N-6144656	E-575766 N-6144599	14N	102 m
N2-S11	N2-Soils-130	Permafrost	Site: 197 to 198	E-575118 N-6144173	E-574649 N-6143864	14N	561 m
N2-S11	N2-Soils-130	Permafrost	Site: 199 to 200	E-573939 N-6143397	E-573645 N-6143203	14N	352 m

Potential Effects:

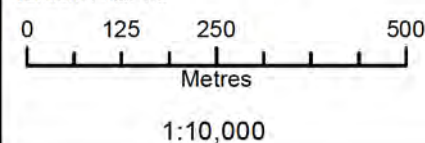
Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan



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Land Base

- Transmission Line
- Highway
- Major Road
- Local Road
- Winter Road
- Railway (Operational)
- Railway (Discontinued)
- Mining
- Provincial Park

Project Infrastructure

- Angle Tower Locations*
- Towers (Preliminary)*
- BPIII Final Preferred Route
- 66 m Right of Way

*Towers are subject to change, and are only used as a rough guide

Sensitive Sites*

- Point Features
- Linear Features
- Area Features

*Currently outside the Project footprint

Points of Access*

- Proposed Access Point
- Major Stream Crossing
- Abandoned Rail Crossing
- Rail Crossing
- Transmission Line Crossing
- Bypass Trails
- Approved Access Route

ESS Features

Heritage

- Archaeological

Water

- Water Crossing

Access

- RecUse

Soils and Terrain

- Permafrost

Bipole III Transmission Project **Construction Environmental Protection Plan** **Construction Section N2** **Environmentally Sensitive Site Locations**

ESS Group: Archaeological

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone
N2-S12	N2-Hert-102	ATK - Route b/w Thicket Portage & Paint Lk	572578	6142490	14N

Potential Effects:

potential disturbance to heritage Resources

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Identify and flag prior to start of work
- Conduct site investigation with Archaeologist post clearing and prior to construction
- Minimize surface disturbance around the site to the extent possible
- Inspect excavated materials or surface disturbance for heritage resources and report any finds to Environmental Inspector
- Implement additional mitigation from site investigation

ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
N2-S12	N2-Aqua-141	Unnamed Tributary into Teardrop Lake	571950	6141913	14N	4.74m	4.74m	Moderate	Marginal
N2-S12	N2-Aqua-142	Unnamed Tributary connecting Gordon Brown Lake and Wintering Lake	570109	6140220	14N	120m	60m	Moderate	Marginal

Potential Effects:

Habitat loss and contamination from structure foundations & installations; increased erosion & sedimentation of streams; Damage to stream banks; Loss of riparian vegetation; Fish habitat disturbances and impeded fish movement; Rutting of floodplain

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Use existing trails, roads or cut lines whenever possible as access routes
- Identify and flag buffer areas prior to start of work
- Riparian Buffers shall be a minimum of 30m and increase in size based on slope of land entering waterway. Within these buffers shrub and herbaceous understory veg will be maintained along with trees that do not violate MH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- No instream works or fording from April 1 - July 15

ESS Group: Intersection

Sec-Seg ID	ESS ID	Location	ESS Name	Crossing Coordinates	UTM Zone
N2-S12	N2-RecUse-101	C2	Winter Route	E-572578 N-6142489	14N

Potential Effects:

Loss of cultural and heritage resources. Fragmentation of access routes due to access road construction and ROW activities..

Specific Mitigation:

- Identify and flag prior to start of work
- Notify Manitoba Infrastructure and Transportation (MIT)/winter road operator and local authorities regarding construction activities and schedule, and address concerns prior to construction
- Avoid surface damage to and obstruction of access route
- Ensure that access road/trail are visible from RoW
- Provide warning signage for vehicle traffic and public safety

ESS Group: Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N2-S12	N2-Soils-131	Permafrost	Site: 201 to 202	E-571983 N-6141943	E-571917 N-6141882	14N	89 m
N2-S12	N2-Soils-132	Permafrost	Site: 203 to 204	E-570974 N-6141015	E-570665 N-6140731	14N	419 m
N2-S12	N2-Soils-132	Permafrost	Site: 205 to 206	E-570363 N-6140453	E-570136 N-6140244	14N	307 m

Potential Effects:

Melting or loss of permafrost due to disturbance of the active layer

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes
- Maintain shrub and herbaceous vegetation to the extent possible
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control Plan