						,	
	C2-Aqua-112			2 <u>+WIIb=107</u> C	2-507	22-Aqua-113	
		Rockton Droin					
Manitoba Hydro	Coordinate System: UTM Zone 14N NAD83 Data Source: MB Hydro, ProvMB, NRCAN Date Created: April 12, 2014 Version: Draft 0 125 250 500	Land Base → Transmission Line → Highway → Major Road → Local Road → Winter Road → Railway (Operational) ·-+ Railway (Discontinued)	Project Infrastructure Angle Tower Locations BPIII Final Preferred Route 66 m Right of Way	Points of Access*         Proposed Access Point         Major Stream Crossing         Abandoned Rail Crossing         Rail Crossing         Transmission Line Crossing	ESS Features Water Water Crossing Wildlife Birds and Habitat Wildlife Birds and Habitat Water		Cons

First Nation Mining Provincial Forest

Metres

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Proposed Access Route \*Labels correspond to BPIII Access Management Database

Water Crossing



# **Construction Section N4 Environmentally Sensitive Site Locations**

Draft: For Discussion Purposes Only

#### ESS Group: Birds and Habitat

Sec-Seg ID	ESS I D	ESS Name	Easting	Northing	UTM Zone
C2-S07	C2-Wild-107	Nearby great blue heron colony	504691	5625156	14N

#### **Potential Effects:**

Higher risk of wire collision, Disturbance during breeding and nesting, risk of wire collision is localized to the right-of-way while construction disturbance can affect colonies up to 1000 meters away

#### **Specific Mitigation:**

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- · Maintain applicable setback during nesting and breeding timing window
- · Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

#### ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S07	C2-Aqua- 112	Rocklan Drain	504265	5626110	14N	5m	N/A	Low	Marginal
C2-S07	C2-Aqua- 113	Drain	505009	5624444	14N	N/A	N/A	N/A	N/A

#### **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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

#### ESS Group: Birds and Habitat

Sec-Seg ID	ESS I D	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S07	C2-Wild-108	Waterfowl sensitivity area	Site: L15 to L16	E-505356 N-5623667	E-505709 N-5622877	14N	864m

#### **Potential Effects:**

Higher risk of wire collision, Risk of wire collision is localized to the right-of-way

#### Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

#### ESS Group: Water Crossing

Sec-Seg ID	ESS I D	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S07	C2-Aqua-114	Unnamed waterbody	Site: 31 to 32	E-505377 N-5623620	E-505516 N-5623310	14N	340m
C2-S07	C2-Aqua-114	Unnamed waterbody	Site: 33 to 34	E-505533 N-5623272	E-505674 N-5622955	14N	346m

#### **Potential Effects:**

Increased erosion and sedimentation; rutting of floodplains; loss of riparian vegetation

#### Specific Mitigation:

- 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.

## Version: Draft



Sec- Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S07	C2-Aqua- 115	Unnamed Creek	506477	5621163	14N	N/A	N/A	N/A	N/A
C2-S07	C2-Aqua- 116	Small, unnamed lake	506757	5620536	14N	N/A	N/A	Low	Marginal
C2-S07	C2-Aqua- 117	Small, unnamed lake	506873	5620277	14N	N/A	N/A	Low	Marginal
C2-S07	C2-Aqua- 118	Small, unnamed lake	506989	5620016	14N	N/A	204m	Low	No Fish Habitat

#### **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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

#### ESS Group: Birds and Habitat

Sec-Seg ID	ESS I D	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S07	C2-Wild-108	Waterfowl sensitivity area	Site: L15 to L16	E-505356 N-5623667	E-505709 N-5622877	14N	864m
C2-S07	C2-Wild-109	Waterfowl sensitivity area	Site: L17 to L18	E-506637 N-5620802	E-507106 N-5619755	14N	1147m

#### **Potential Effects:**

Higher risk of wire collision, Risk of wire collision is localized to the right-of-way

#### **Specific Mitigation:**

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- · Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

#### ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S07	C2-Aqua-114	Unnamed waterbody	Site: 33 to 34	E-505533 N-5623272	E-505674 N-5622955	14N	346m

### **Potential Effects:**

Increased erosion and sedimentation; rutting of floodplains; loss of riparian vegetation

#### Specific Mitigation:

- 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.

## Version: Draft



Sec- Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S07	C2-Aqua- 119	Unnamed road ditch	507943	5617883	14N	N/A	N/A	Low	Marginal
C2-S07	C2-Aqua- 120	Unnamed road ditch	507943	5617883	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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

#### ESS Group: Forestry

Sec-Seg ID	ESS I D	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S07	C2-RUse-309	Shelterbelt	Site: 35 to 36	E-507931 N-5617909	E-507937 N-5617894	14N	15m

#### **Potential Effects:**

Removal in area of ROW intersect

#### **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
- Burn clearing debris during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Where applicable, ensure compensation agreement is in place prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- · Limit all equipment to project footprint only, where possible

#### ESS Group: Birds and Habitat

Sec-Seg ID	ESS I D	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S07	C2-Wild-110	Waterfowl sensitivity area	Site: L19 to L20	E-508296 N-5617093	E-508609 N-5616392	14N	768m

#### **Potential Effects:**

Higher risk of wire collision, Risk of wire collision is localized to the right-of-way

#### Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

## Version: Draft

(August 1- April 30) ng window sures prior to transmission line stringing

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Robertson Lake C2-Aqua-12 37		C2-Wild-111	P-Aqua-1/22	<u>622-503</u>	Tower 116 E-509611, N-5613407	
Manitoba Hydro	Coordinate System: UTM Zone 14N NAD83 Data Source: MB Hydro, ProvMB, NRCAN Date Created: April 12, 2014 Version: Draft 0 125 250 500 Metres 1:10,000	Land Base ← Transmission Line Highway Major Road Local Road ··· Winter Road ← Railway (Operational) ··· F Railway (Discontinued) First Nation Mining Provincial Forest	<ul> <li>Project Infrastructure</li> <li>★ Angle Tower Locations</li> <li>BPIII Final Preferred Route</li> <li>⇒ 66 m Right of Way</li> </ul>	Points of Access*         Proposed Access Point         Major Stream Crossing         Abandoned Rail Crossing         Rail Crossing         Transmission Line Crossing         Proposed Access Route         *Labels correspond to BPII         Access Management Database	ESS Features Heritage Archaeological Water Water Crossing Wildlife Birds and Habitat Water Water Water Crossing	Const Draft: For L

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Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S08	C2-Aqua- 122	Drain	509212	5614604	14N	N/A	N/A	N/A	N/A

#### **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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

#### ESS Group: Water Crossing

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S08	C2-Aqua-121	Small, unnamed waterbody	Site: 37 to 38	E-508885 N-5615583	E-508887 N-5615576	14N	7m

#### **Potential Effects:**

Increased erosion and sedimentation; rutting of floodplains; loss of riparian vegetation

#### **Specific Mitigation:**

- 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.

#### ESS Group: Birds and Habitat

Sec-Seg ID	ESS I D	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S08	C2-Wild-111	Waterfowl sensitivity area	Site: L21 to L22	E-508964 N-5615345	E-509365 N-5614144	14N	1265m

#### **Potential Effects:**

Higher risk of wire collision, Risk of wire collision is localized to the right-of-way

#### Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

## Version: Draft

(August 1- April 30) ng window sures prior to transmission line stringing

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	C2-WC2-WI11-112 L23 C2-WC2-WI11-112 L24 C2-Aqua	123		22-Aqua-124 C2-WIId-113	
	Coordinate System: UTM Zone 14N NAD83 Data Source: MB Hydro, ProvMB, NRCAN Date Created: April 12, 2014 Version: Draft 0 125 250 500 Metres 1:10,000	Land Base → Transmission Line Highway Major Road → Local Road → Railway (Operational) + Railway (Discontinued) First Nation Mining Project Infrastructure ★ Angle Tower Locations BPIII Final Preferred Route = 66 m Right of Way	Points of Access*         ● Proposed Access Point         ● Major Stream Crossing         ▲ Abandoned Rail Crossing         ▲ Rail Crossing         ■ Transmission Line Crossing         ■ Proposed Access Route         *Labels correspond to BPIII         Access Management Database	ESS Features Water Water Crossing Wildlife Birds and Habitat	Cons Draft: For



Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S09	C2-Aqua- 123	Drain	510567	5611339	14N	N/A	N/A	N/A	N/A
C2-S09	C2-Aqua- 124	Unnamed Creek	511081	5610228	14N	N/A	N/A	N/A	N/A

#### **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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

#### ESS Group: Birds and Habitat

Sec-Seg I D	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S09	C2-Wild- 112	Waterfowl and yellow rail sensitivity area	Site: L23 to L24	E-510290 N-5611937	E-510492 N-5611500	14N	481m
C2-S09	C2-Wild- 113	Waterfowl sensitivity area	Site: L25 to L26	E-511033 N-5610330	E-511320 N-5609709	14N	684m

#### **Potential Effects:**

C2-Wild-113: Higher risk of wire collision, Risk of wire collision is localized to the right-of-way C2-Wild-112: Higher risk of wire collision, Disturbance during breeding and nesting, Risk of wire collision is localized to the right-of-way while construction disturbance can effect colonies up to 350 meters away

#### **Specific Mitigation:**

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain applicable setback during nesting and breeding timing window
- · Conduct priority assessment for bird diverters and other measures prior to transmission line stringing
- Install bird diverters or other measures at high priority sites

## Version: Draft

C2-Aqu	C2-Aqua-126					
Manitoba Hydro	Coordinate System: UTM Zone 14N NAD83 Data Source: MB Hydro, ProvMB, NRCAN Date Created: April 12, 2014 Version: Draft 0 125 250 500 L I I J J J J J Metres 1:10,000	Land Base Transmission Line Highway Major Road Local Road Ninter Road Railway (Operational) Hailway (Discontinued) First Nation Mining Provincial Forest	Project Infrastructure ★ Angle Tower Locations BPIII Final Preferred Route = 66 m Right of Way	Points of Access*         Proposed Access Point         Major Stream Crossing         Abandoned Rail Crossing         Rail Crossing         Transmission Line Crossing         Proposed Access Route         *Labels correspond to BPII         Access Management Database	ESS Features Heritage Archaeological Water Water Crossing	Cons Draft: For



## Bipole III Transmission Project struction Environmental Protection Plan Construction Section N4 Environmentally Sensitive Site Locations

Discussion Purposes Only

Sec-Seg I D	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S09	C2-Aqua- 125	Drain	510567	5611339	14N	N/A	N/A	N/A	N/A
C2-S09	C2-Aqua- 126	Drain	510567	5611339	14N	N/A	N/A	N/A	N/A
C2-S09	C2-Aqua- 127	Drain	513438	5605129	14N	N/A	N/A	N/A	N/A

#### **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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

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C2:Aqua-128				400	
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Manitoba	Coordinate System: UTM Zone 14N NAD83 Data Source: MB Hydro, ProvMB, NRCAN Date Created: April 12, 2014 Version: Draft	Land Base ← Transmission Line Highway Major Road Local Road ► Transmission Line ← Major Road ► 66 m Right of Way	e Points of Access* ions Proposed Access Point ed Route Major Stream Crossing Abandoned Rail Crossing	ESS Features Water Water Crossing Resource Use Forestry	Const
Hydro	0 125 250 500	Winter Road     Ailway (Operational)     ()    ()    (continued)     ()    ()    (continued)	<ul><li>Rail Crossing</li><li>Transmission Line Crossing</li></ul>		

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Railway (Operational) + Railway (Discontinued) First Nation	Transmission Line Crossing	Environmentally Sens
Mining Provincial Forest	*Labels correspond to BPIII Access Management Database	Draft: For Discussion Purposes Only



Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S09	C2-Aqua- 128	Drain	513589	5604803	14N	N/A	N/A	N/A	N/A
C2-S09	C2-Aqua- 129	Drain	515109	5601515	14N	N/A	N/A	N/A	N/A

#### **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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

#### ESS Group: Forestry

Sec-Seg ID	ESS I D	ESS Name	Location	Start	Stop	UTM Zone	Distance
C2-S09	C2-RUse-310	Windrows	Site: 39 to 40	E-514356 N-5603142	E-514416 N-5603012	14N	143m

#### **Potential Effects:**

Removal in area of ROW intersect

#### 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
- Burn clearing debris during winter months only and ensure that all fires are extinguished prior to spring break-up
- Notify landowner regarding construction activities and schedule, and address concerns prior to start of work
- Where applicable, ensure compensation agreement is in place prior to start of work
- Use existing access trails, roads or cut lines whenever possible as access routes
- · Limit all equipment to project footprint only, where possible

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	C2-Aqua-1	30- <b>C2-</b> Aqua-131 C	62:Aqua-133 32:Aqua-132			
	Coordinate System: UTM Zone 14N NAD83	Land Base	Project Infrastructure	Points of Access*	ESS Features	
A Manitoba Hydro	Data Source: MB Hydro, ProvMB, NRCAN Date Created: April 12, 2014 Version: Draft 0 125 250 500 Metres	Transmission Line     Highway     Major Road     Local Road     Winter Road     Railway (Operational)     First Nation     First Nation	<ul> <li>Angle Tower Locations</li> <li>BPIII Final Preferred Route</li> <li>66 m Right of Way</li> </ul>	<ul> <li>Proposed Access Point</li> <li>Major Stream Crossing</li> <li>Abandoned Rail Crossing</li> <li>Rail Crossing</li> <li>Transmission Line Crossing</li> <li>Proposed Access Route</li> </ul>	Water ● Water Crossing	Const
	1:10,000	Mining Provincial Forest		*Labels correspond to BPIII Access Management Database		Draft: For [



## Bipole III Transmission Project struction Environmental Protection Plan **Construction Section N4** Environmentally Sensitive Site Locations

Discussion Purposes Only

Sec-Seg ID	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S09	C2-Aqua- 130	Unnamed Creek	517211	5596969	14N	N/A	N/A	N/A	N/A
C2-S09	C2-Aqua- 131	Unnamed Creek	517290	5596797	14N	N/A	N/A	N/A	N/A
C2-S09	C2-Aqua- 132	Unnamed Creek	517394	5596572	14N	N/A	N/A	N/A	N/A
C2-S09	C2-Aqua- 133	Unnamed Creek	517427	5596503	14N	N/A	N/A	N/A	N/A
C2-S09	C2-Aqua- 134	Drain	518143	5594953	14N	N/A	N/A	N/A	N/A

#### 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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

## Version: Draft

			c2:Aqua-135	C2-Aqua-1936	
				LANGRUTH WILDLIFE MANAGEMEN	T AREA
Manitoba Hydro	Coordinate System: UTM Zone 14N NAD83 Data Source: MB Hydro, ProvMB, NRCAN Date Created: April 12, 2014 Version: Draft 0 125 250 500	Land Base ← Transmission Line Highway Major Road Local Road → Railway (Operational) ← Railway (Operational)	Points of Access*         Proposed Access Point         Major Stream Crossing         Abandoned Rail Crossing         Rail Crossing         Transmission Line Crossing	ESS Features Water • Water Crossing	Cons

- + Railway (Discontinued)

First Nation Mining Provincial Forest

Metres

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Proposed Access Route \*Labels correspond to BPIII Access Management Database

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# **Construction Section N4**

Environmentally Sensitive Site Locations

iscussion Purposes Only

Sec-Seg I D	ESS I D	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S09	C2-Aqua- 135	Drain	519660	5591673	14N	N/A	N/A	N/A	N/A
C2-S09	C2-Aqua- 136	Drain	519660	5591673	14N	N/A	N/A	N/A	N/A

#### **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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

## Version: Draft



Transmission Line Crossing

Proposed Access Route
 \*Labels correspond to BPIII
 Access Management Database

- + Railway (Discontinued)

First Nation Mining Provincial Forest

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## **Construction Section N4 Environmentally Sensitive Site Locations**

iscussion Purposes Only

Sec-Seg I D	ESS ID	ESS Name	Easting	Northing	UTM Zone	Channel Width	Wet Width	Fish Habitat Class	Habitat Sensitivity
C2-S09	C2-Aqua- 137	Unnamed Creek	520444	5590067	14N	N/A	N/A	N/A	N/A

#### 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.
- Adhere to Department of Fisheries and Oceans (DFO) Operational Statements for Temporary Stream Crossings, Ice Bridges and Snow Fills, and Overhead Line Construction

## Version: Draft