MAP NUMBER : 1

ESS Group : Conservation

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP</td>
<td>CP-LUse-100</td>
<td>Churchill Wildlife Management Area</td>
<td>Entire Extent of Map 1</td>
<td>-</td>
<td>-</td>
<td>14N</td>
</tr>
</tbody>
</table>

Potential Effects:
Within the Churchill Wildlife Management Area

Specific Mitigation:

- Must not place food for the purpose of attracting, feeding or holding polar bears
- All project staff must record all polar bears encountered/observed on a daily basis, any observations of polar bears or polar bear tracks must be reported to the MH Site Environmental Officer or MH Environmental Inspector
- All garbage must be stored in bear proof containers or within electric fencing and removed from Wildlife Management Area
- Clearing within the ROW will be kept to a minimum and with non-hazard trees removed. Any trees that are cleared must be cut, piled and burned under safe conditions
- Carry out construction activities on well frozen ground in wetlands

ESS Group : Species of Concern

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Eco-300</td>
<td>Species of Concern (plant)</td>
<td>817260</td>
<td>6295132</td>
<td>14N</td>
</tr>
<tr>
<td>KW</td>
<td>KW-Eco-301</td>
<td>Species of Concern (plant)</td>
<td>817314</td>
<td>6295085</td>
<td>14N</td>
</tr>
</tbody>
</table>

Potential Effects:
Loss of plants of conservation concern from clearing and construction activities.

Specific Mitigation:

- Non-mitigable due to complete removal of all vegetation cover for site.

ESS Group : Water Crossing

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>Channel Width (m)</th>
<th>Wet Width (m)</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Aqua-100</td>
<td>Unnamed Tributary of Nelson River</td>
<td>-</td>
<td>-</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>KW</td>
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<td>Unnamed Tributary of Nelson River</td>
<td>-</td>
<td>-</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Potential Effects:
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 vegetation will be maintained along with trees that do not violate Manitoba Hydro Vegetation 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
MAP NUMBER : 2

ESS Group : Conservation

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP</td>
<td>CP-LUse-100</td>
<td>Churchill Wildlife Management Area</td>
<td>Entire Extent of Map 2</td>
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<td>-</td>
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</tr>
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</table>

Potential Effects:
CP-LUse-100: Within the Churchill Wildlife Management Area

Specific Mitigation:
• Must not place food for the purpose of attracting, feeding or holding polar bears
• All project staff must record all polar bears encountered/observed on a daily basis, any observations of polar bears or polar bear tracks must be reported to the MH Site Environmental Officer or MH Environmental Inspector
• All garbage must be stored in bear proof containers or within electric fencing and removed from Wildlife Management Area
• Clearing within the ROW will be kept to a minimum and with non-hazard trees removed. Any trees that are cleared must be cut, piled and burned under safe conditions
• Carry out construction activities on well frozen ground in wetlands

ESS Group : Species of Concern

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Eco-302</td>
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<td>Species of Concern (plant)</td>
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<tr>
<td>KW</td>
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<tr>
<td>KW</td>
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<td>Species of Concern (plant)</td>
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<tr>
<td>KW</td>
<td>KW-Eco-306</td>
<td>Species of Concern (plant)</td>
<td>816139</td>
<td>6293400</td>
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<tr>
<td>KW</td>
<td>KW-Eco-307</td>
<td>Species of Concern (plant)</td>
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<tr>
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<td>KW</td>
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<td>KW</td>
<td>KW-Eco-311</td>
<td>Species of Concern (plant)</td>
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<td>KW</td>
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</tr>
</tbody>
</table>

Potential Effects:
Loss of plants of conservation concern from clearing and construction activities.

Specific Mitigation:
• Non-mitigable due to complete removal of all vegetation cover for site.

ESS Group : Water Crossing

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>Channel Width (m)</th>
<th>Wet Width (m)</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Aqua-101</td>
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<td>KW</td>
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<td>N/A</td>
<td>N/A</td>
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</tbody>
</table>

Potential Effects:
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 vegetation will be maintained along with trees that do not violate Manitoba Hydro Vegetation 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

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>Channel Width (m)</th>
<th>Wet Width (m)</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Aqua-103</td>
<td>Unnamed Tributary of Nelson River</td>
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<td>N/A</td>
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</tbody>
</table>

Potential Effects:
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:
• 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 vegetation will be maintained along with trees that do not violate Manitoba Hydro Vegetation Clearance Requirements.
• 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing
**ESS Group : Wetland**

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
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<th>Northing</th>
<th>Channel Width (m)</th>
<th>Wet Width (m)</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
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</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Aqua-300</td>
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<tr>
<td>KW</td>
<td>KW-Aqua-301</td>
<td>Unnamed wetland</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Potential Effects:**

Loss of riparian vegetation, rutting, altered surface water flows.

**Specific Mitigation:**

- Carry out construction activities on frozen ground to minimize surface damage, rutting and erosion
- Provide 30 m vegetated (shrub and herbaceous) buffer around site
- Remove trees by low-disturbance methods within buffer
- The application of herbicides is prohibited within buffer

**ESS Group : Water Crossing**

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>Channel Width (m)</th>
<th>Wet Width (m)</th>
<th>Fish Habitat Class</th>
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<td>KW</td>
<td>KW-Aqua-104</td>
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</tbody>
</table>

**Potential Effects:**

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 vegetation will be maintained along with trees that do not violate Manitoba Hydro Vegetation 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
- No instream works or fording from April 15 - July 15

**ESS Group : Water Crossing**

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>Channel Width (m)</th>
<th>Wet Width (m)</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Aqua-105</td>
<td>Fourteen Creek</td>
<td>-</td>
<td>-</td>
<td>N/A</td>
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<td>N/A</td>
<td>Marginal</td>
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</tbody>
</table>

**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:**

- 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 vegetation will be maintained along with trees that do not violate Manitoba Hydro Vegetation Clearance Requirements
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing
### Potential Effects:

Within the Churchill Wildlife Management Area

### Specific Mitigation:

- Must not place food for the purpose of attracting, feeding or holding polar bears
- All project staff must record all polar bears encountered/observed on a daily basis, any observations of polar bears or polar bear tracks must be reported to the MH Site Environmental Officer or MH Environmental Inspector
- All garbage must be stored in bear proof containers or within electric fencing and removed from Wildlife Management Area
- Carry out construction activities on well frozen ground in wetlands

### ESS Group : Archaeological

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Hert-100</td>
<td>Registered Archaeological Site</td>
<td>Entire Extent of Map 3</td>
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<td>KW</td>
<td>KW-Hert-101</td>
<td>Registered Archaeological Site</td>
<td>Entire Extent of Map 3</td>
<td>-</td>
<td>-</td>
<td>14N</td>
</tr>
</tbody>
</table>

Potential Effects:

Potential disturbance to Heritage Resource

### Specific Mitigation:

- Permanent fences will be established to protect the site
- 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

### ESS Group : Species of Concern

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Eco-313</td>
<td>Species of Concern (plant)</td>
<td>Entire Extent of Map 3</td>
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<td>KW</td>
<td>KW-Eco-314</td>
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<tr>
<td>KW</td>
<td>KW-Eco-315</td>
<td>Species of Concern (plant)</td>
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<td>-</td>
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</tr>
<tr>
<td>KW</td>
<td>KW-Eco-316</td>
<td>Species of Concern (plant)</td>
<td>Entire Extent of Map 3</td>
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<td>-</td>
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</tr>
</tbody>
</table>

Potential Effects:

Loss of plants of conservation concern from clearing and construction activities.
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 vegetation will be maintained along with trees that do not violate Manitoba Hydro Vegetation 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.
- No in-stream works or fording from April 15 - July 15.

ESS Group: Water Crossing

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>Channel Width (m)</th>
<th>Wet Width (m)</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>KW</td>
<td>KW-Aqua-108</td>
<td>Unnamed Tributary of Goose Creek</td>
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<td>-</td>
<td>N/A</td>
<td>N/A</td>
<td>Important</td>
<td>Moderate</td>
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</tbody>
</table>

Potential Effects:

- Infilling of fish habitat; increased erosion and sedimentation of streams from construction of station.
- 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 vegetation will be maintained along with trees that do not violate Manitoba Hydro Vegetation 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.
- No instream works or fording from April 15 - July 15.
MAP NUMBER : 4
ESS Group : Conservation

Sec ID  | ESS ID    | ESS Name                      | Location     | Easting | Northing | UTM Zone
-------|-----------|-------------------------------|--------------|---------|----------|-----------
CP     | CP-LUse-100 | Churchill Wildlife Management Area | Entire Extent of Map 4 | -       | -        | 14N

Potential Effects:
CP-LUse-100: Within the Churchill Wildlife Management Area

Specific Mitigation:
- Must not place food for the purpose of attracting, feeding or holding polar bears
- All project staff must record all polar bears encountered/observed on a daily basis, any observations of polar bears or polar bear tracks must be reported to the MH Site Environmental Officer or MH Environmental Inspector
- All garbage must be stored in bear proof containers or within electric fencing and removed from Wildlife Management Area
- Clearing within the ROW will be kept to a minimum and with non -non-hazard trees removed. Any trees that are cleared must be cut, piled and burned under safe conditions
- Carry out construction activities on well frozen ground in wetlands

ESS Group : Species of Concern

Sec ID  | ESS ID    | ESS Name                      | Easting | Northing | UTM Zone
-------|-----------|-------------------------------|---------|----------|-----------
KW     | KW-Eco-317 | Species of Concern (plant)   |          |          | 14N
KW     | KW-Eco-318 | Species of Concern (plant)   |          |          | 14N

Potential Effects:
Loss of plants of conservation concern from clearing and construction activities.

Specific Mitigation:
- Identify and flag prior to start of work
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Provide 5m vegetated (shrub and herbaceous) buffer around site
- Remove trees by hand or other low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible

ESS Group : Wetland

Sec ID  | ESS ID    | ESS Name                      | Channel Width (m) | Wet Width (m) | Fish Habitat Class | Habitat Sensitivity
-------|-----------|-------------------------------|-------------------|-------------------|---------------------|---------------------
KW     | KW-Aqua- 302 | Unnamed wetland              | N/A               | N/A              | N/A                 | N/A

Potential Effects:
Loss of riparian vegetation, rutting, altered surface water flows, contamination.

ESS Group : Water Crossing

Sec ID  | ESS ID    | ESS Name                      | Channel Width (m) | Wet Width (m) | Fish Habitat Class | Habitat Sensitivity
-------|-----------|-------------------------------|-------------------|-------------------|---------------------|---------------------
KW     | KW-Aqua- 110 | Tiny Creek                   | N/A               | N/A              | Important           | Moderate
KW     | KW-Aqua- 111 | Tributary of Nelson River    | N/A               | N/A              | Marginal            | Moderate

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 vegetation will be maintained along with trees that do not violate Manitoba Hydro Vegetation 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
- No instream works or fording from April 15 - July 15
MAP NUMBER: 5

ESS Group: Conservation

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>CP</td>
<td>CP-LUse-100</td>
<td>Churchill Wildlife Management Area</td>
<td>Entire Extent of Map 5</td>
<td>-</td>
<td>-</td>
<td>14N</td>
</tr>
</tbody>
</table>

Potential Effects:
CP-LUse-100: Within the Churchill Wildlife Management Area

Specific Mitigation:
- Must not place food for the purpose of attracting, feeding or holding polar bears
- All project staff must record all polar bears encountered/observed on a daily basis, any observations of polar bears or polar bear tracks must be reported to the MH Site Environmental Officer or MH Environmental Inspector
- All garbage must be stored in bear proof containers or within electric fencing and removed from Wildlife Management Area
- Clearing within the ROW will be kept to a minimum and with non-hazard trees removed. Any trees that are cleared must be cut, piled and burned under safe conditions
- Carry out construction activities on well frozen ground in wetlands

ESS Group: Water Crossing

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Channel Width (m)</th>
<th>Wet Width (m)</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
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<td>KW</td>
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</tbody>
</table>

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 vegetation will be maintained along with trees that do not violate Manitoba Hydro Vegetation 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
- No instream works or fording from April 15 - July 15

ESS Group: Species of Concern

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
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Potential Effects:
Loss of plants of conservation concern from clearing and construction activities.

Specific Mitigation:
- Identify and flag prior to start of work
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Provide 5m vegetated (shrub and herbaceous) buffer around site
- Remove trees by hand or other low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
**ESS Group : Species of Concern**

<table>
<thead>
<tr>
<th>Sec ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
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</tbody>
</table>

**Potential Effects:**

*Loss of plants of conservation concern from clearing and construction activities.*

**Specific Mitigation:**

- Non-mitigable due to complete removal of all vegetation cover for site.