**ESS Group: Archaeological**

<table>
<thead>
<tr>
<th>Sec-Seg 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>C1-S06</td>
<td>C1-Hert-116</td>
<td>Bigstone Creek</td>
<td>412838</td>
<td>5736927</td>
<td>14N</td>
</tr>
<tr>
<td>C1-S06</td>
<td>C1-Hert-117</td>
<td>Bigstone Creek</td>
<td>413649</td>
<td>5735551</td>
<td>14N</td>
</tr>
</tbody>
</table>

**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 findings to Environmental Inspector
- Implement additional mitigation from site investigation

**ESS Group: Water Crossing**

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S06</td>
<td>C1-Aqua-115</td>
<td>Unnamed tributary of Wellburns Creek</td>
<td>412814</td>
<td>5736966</td>
<td>14N</td>
<td>11m</td>
<td>N/A</td>
<td>Moderate</td>
<td>Marginal</td>
</tr>
<tr>
<td>C1-S06</td>
<td>C1-Aqua-116</td>
<td>Unnamed tributary of Wellburns Creek</td>
<td>413660</td>
<td>5735532</td>
<td>14N</td>
<td>N/A</td>
<td>N/A</td>
<td>Low</td>
<td>Marginal</td>
</tr>
</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 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
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
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- Implement additional mitigation from site investigation

ESS Group: Water Crossing

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 or dry ground to minimize surface damage, rutting and erosion
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- 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
No specific mitigation measures for this map, page intentionally left blank.
No specific mitigation measures for this map, page intentionally left blank.
No specific mitigation measures for this map, page intentionally left blank.
**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
- If burning of clearing debris is required it must be conducted 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
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber
ESS Group: Groundwater

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S07</td>
<td>C1-Aqua-202</td>
<td>Freshwater artesian areas</td>
<td>Site: 47 to 48</td>
<td>E-427715</td>
<td>E-439055</td>
<td>14N</td>
<td>12612 m</td>
</tr>
</tbody>
</table>

Potential Effects:
Wetting the surficial environment near potential discharge from tower foundation drill hole (ground saturation); Also, potential level drop in the aquifer.

Specific Mitigation:

- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for wetting/grounding and pumping will be implemented as required.
- Follow up inspections of installed foundations will be undertaken to monitor for excess moisture.

ESS Group: Residential

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S07</td>
<td>C1-Luse-202</td>
<td>Remote Cottage – Crown land encumbrance</td>
<td>Site: 49 to 50</td>
<td>E-429045</td>
<td>E-429829</td>
<td>14N</td>
<td>868 m</td>
</tr>
<tr>
<td>C1-S07</td>
<td>C1-Luse-203</td>
<td>Fish Camp – Crown land encumbrance</td>
<td>Site: 51 to 52</td>
<td>E-429849</td>
<td>E-430655</td>
<td>14N</td>
<td>893 m</td>
</tr>
</tbody>
</table>

Potential Effects:
Potential disruption to resource/recreational use activities

Specific Mitigation:

- Notify Manitoba Conservation, local authorities and operator regarding construction activities and schedule, and address concerns prior to construction.
- Observe municipal and local by-laws and protocols including noise and work scheduling.
- Minimize noise, dust and other emissions from work activities and maintain clean and aesthetic appearance of work site.
- Provide warning signage for vehicle traffic and public safety.
ESS Group: Archaeological

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
<th>Site</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S07</td>
<td>C1-Hert-119</td>
<td>High elevation</td>
<td>432809</td>
<td>57188664</td>
<td>14N</td>
<td></td>
</tr>
</tbody>
</table>

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
- Remove 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

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S07</td>
<td>C1-Aqua-118</td>
<td>Unnamed small lake</td>
<td>431879</td>
<td>5719109</td>
<td>14N</td>
<td>N/A</td>
<td>N/A</td>
<td>Low</td>
<td>No Fish Habitat</td>
</tr>
</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 veg will be maintained along with trees that do not violate NH Veg Clearance Requirements.
- 7m no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.

ESS Group: Groundwater

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S07</td>
<td>C1-Aqua-202</td>
<td>Freshwater artesian areas</td>
<td>Site: 47 to 88</td>
<td>E-427715</td>
<td>E-439055</td>
<td>14N</td>
<td>12612 m</td>
</tr>
</tbody>
</table>

Potential Effects:
Wetting the surficial environment near potential discharge from tower foundation drill hole (ground saturation). Also, potential level drop in the aquifer.

Specific Mitigation:
- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for sealing/grading and pumping will be implemented as required.
- Follow up inspections of installed foundations will be undertaken to monitor for excess moisture.

ESS Group: Groundwater

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S07</td>
<td>C1-Aqua-203</td>
<td>Aquifers Vulnerable to contamination</td>
<td>Site: 55 to 55</td>
<td>E-432794</td>
<td>E-434241</td>
<td>14N</td>
<td>1604 m</td>
</tr>
</tbody>
</table>

Potential Effects:
Potential groundwater contamination from a contingency event (e.g., spill)

Specific Mitigation:
- Marshalling yards will be located on upland sites where possible.
- An Emergency Preparedness and Spill Response Plan will be developed and an emergency response spill kit will be kept on-site at all times in case of fluid leaks or spills from machinery.
- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for sealing/grading and pumping will be implemented as required.
ESS Group: Residential

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-507</td>
<td>C1-Use-293</td>
<td>Fish Camp - Crown land encumbrance</td>
<td>Site: 51 to 52</td>
<td>E-429649 N-5720079</td>
<td>E-430655 N-5719693</td>
<td>14N</td>
<td>893m</td>
</tr>
</tbody>
</table>

Potential Effects:
Potential disruption to resource/recreational use activities

Specific Mitigation:
- Notify Manitoba Conservation, local authorities and operator regarding construction activities and schedule, and address concerns prior to construction
- Observe municipal and local by-laws and protocols including noise and work scheduling
- Minimize noise, dust and other emissions from work activities and maintain clean and aesthetic appearance of work site
- Provide warning signage for vehicle traffic and public safety

ESS Group: Forestry

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-507</td>
<td>C1-Use-306</td>
<td>Shelterbelt</td>
<td>Site: 53 to 54</td>
<td>E-432731 N-5718791</td>
<td>E-432737 N-5718698</td>
<td>14N</td>
<td>7 m</td>
</tr>
</tbody>
</table>

Potential Effects:
Removal in area of ROW interface

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
- If burning of clearing debris is required it must be conducted 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
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage of Vegetation on the edge of the Right o' Way
- No pushing debris into adjacent timber
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**ESS Group: Archaeological**

<table>
<thead>
<tr>
<th>Sec-SEG 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>C1-507</td>
<td>C1-Hert-120</td>
<td>Mossey River</td>
<td>434121</td>
<td>5718038</td>
<td>14N</td>
</tr>
<tr>
<td>C1-507</td>
<td>C1-Hert-121</td>
<td>Robinson Creek</td>
<td>435447</td>
<td>5717404</td>
<td>14N</td>
</tr>
</tbody>
</table>

**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: Historic**

<table>
<thead>
<tr>
<th>Sec-SEG ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-507</td>
<td>C1-Hert-129</td>
<td>Gruber Townsite</td>
<td>Site: 60A to 60B</td>
<td>E-435879 N-5717198</td>
<td>E-435880 N-5717196</td>
<td>14N</td>
<td>4 m</td>
</tr>
</tbody>
</table>

**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
- Access trail should be routed around site. Should equipment travel through the area be unavoidable construction (i.e. stringing) matting will be placed to protect it.
- 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: Water Crossing**

<table>
<thead>
<tr>
<th>Sec-SEG ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-507</td>
<td>C1-Aqua-119</td>
<td>Mossey River</td>
<td>434154</td>
<td>5718022</td>
<td>14N</td>
<td>50m</td>
<td>50m</td>
<td>Low</td>
<td>Important</td>
</tr>
<tr>
<td>C1-507</td>
<td>C1-Aqua-120</td>
<td>Robinson Creek</td>
<td>435438</td>
<td>5717406</td>
<td>14N</td>
<td>N/A</td>
<td>N/A</td>
<td>Low</td>
<td>Marginal</td>
</tr>
</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 or dry 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**

<table>
<thead>
<tr>
<th>Sec-SEG ID</th>
<th>ESS ID</th>
<th>Location</th>
<th>ESS Name</th>
<th>Crossing Coordinates</th>
<th>UTM Zone</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-507</td>
<td>C1-Recluse-106</td>
<td>C7</td>
<td>Canoe Route</td>
<td>E-434166 N-5718015</td>
<td>14N</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Potential aesthetic concerns with the presence of canoe route traffic; disruption from operational activities

**Specific Mitigation:**
- Where possible carry out construction activities during frozen ice conditions to avoid conflict with canoe route traffic
- If construction is to take place during the summer months post warning markers and signs upstream and downstream of the crossing

**MAP NUMBER:** 229
### Groundwater

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
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<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S07</td>
<td>C1-Aqua-202</td>
<td>Freshwater artesian area</td>
<td>Site: 47 to 48</td>
<td>E-427715 N-5721099</td>
<td>E-439095 N-5715699</td>
<td>14N</td>
<td>12612 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**

Wetting the surficial environment near potential discharge from tower foundation drill hole (ground saturation); Also, potential level drop in the aquifer.

**Specific Mitigation:**

- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for sealing/grouting and pumping will be implemented as required.
- Follow up inspections of installed foundations will be undertaken to monitor for excess moisture.

### Groundwater

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<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S07</td>
<td>C1-Aqua-203</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 55 to 56</td>
<td>E-432794 N-5718671</td>
<td>E-434241 N-5717979</td>
<td>14N</td>
<td>1604 m</td>
</tr>
</tbody>
</table>

**Potential Effects:**

Potential groundwater contamination from a contingency event (e.g., spill)

**Specific Mitigation:**

- Marshalling yards will be located on upland sites where possible.
- An Emergency Preparedness and Spill Response Plan will be developed and an emergency response spill kit will be kept on-site at all times in case of fluid leaks or spills from machinery.
- Qualified driller with appropriate experience will be contracted to work in areas affected by artesian conditions.
- Emergency response plans for sealing/grouting and pumping will be implemented as required.

### Forestry

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<tr>
<th>Sec-Seg ID</th>
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<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S07</td>
<td>C1-RUse-307</td>
<td>Shelterbelt</td>
<td>Site: 57 to 58</td>
<td>E-434119 N-5718037</td>
<td>E-434135 N-5718030</td>
<td>14N</td>
<td>17 m</td>
</tr>
<tr>
<td>C1-S07</td>
<td>C1-RUse-308</td>
<td>Shelterbelt</td>
<td>Site: 59 to 60</td>
<td>E-434119 N-5718004</td>
<td>E-434135 N-5717995</td>
<td>14N</td>
<td>21 m</td>
</tr>
<tr>
<td>C1-S07</td>
<td>C1-RUse-309</td>
<td>Shelterbelt</td>
<td>Site: 61 to 62</td>
<td>E-437187 N-5716571</td>
<td>E-437196 N-5716567</td>
<td>14N</td>
<td>10 m</td>
</tr>
</tbody>
</table>

**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.
- If burning of clearing debris is required it must be conducted during winter months only and ensure that all fires are extinguished prior to spring breakup.
- Notify landowner regarding construction activities and schedule, and address concerns 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.
- No damage to Vegetation on the edge of the Right of Way.
- No pushing debris into adjacent timber.
This page is intentionally left blank.
ESS Group: Archaeological

<table>
<thead>
<tr>
<th>Sec-Seq 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>C1-501</td>
<td>C1-Hert-122</td>
<td>Unnamed Tributary of Cork Cliff Creek</td>
<td>438531</td>
<td>5715930</td>
<td>14N</td>
</tr>
<tr>
<td>C1-501</td>
<td>C1-Hert-123</td>
<td>Abandoned Building</td>
<td>439083</td>
<td>5715666</td>
<td>14N</td>
</tr>
</tbody>
</table>

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 fix 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

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<thead>
<tr>
<th>Sec-Seq ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>Channel Width</th>
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<th>Fish Habitat Class</th>
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<tbody>
<tr>
<td>C1-501</td>
<td>C1-Aqua-121</td>
<td>Unnamed Tributary of Cork Cliff Creek</td>
<td>438520</td>
<td>5715935</td>
<td>2m</td>
<td>Low</td>
<td>Marginal</td>
<td></td>
</tr>
<tr>
<td>C1-501</td>
<td>C1-Aqua-122</td>
<td>Cork Cliff Creek</td>
<td>439146</td>
<td>5715620</td>
<td>4m</td>
<td>Moderate</td>
<td>Important</td>
<td></td>
</tr>
</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 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 farding from April 1 - July 15
ESS Group: Archaeological

<table>
<thead>
<tr>
<th>Sec-Seg 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>C1-S09</td>
<td>C1-Hert-124</td>
<td>Unnamed Tributary</td>
<td>441106</td>
<td>5714203</td>
<td>14N</td>
</tr>
<tr>
<td>C1-S10</td>
<td>C1-Hert-125</td>
<td>Unnamed Tributary of Lake Winnipegosis</td>
<td>441568</td>
<td>5713717</td>
<td>14N</td>
</tr>
</tbody>
</table>

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: Forestry

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S10</td>
<td>C1-RUse-310</td>
<td>Shelterbelt</td>
<td>Site: 65 to 66</td>
<td>E-442342</td>
<td>N-5713108</td>
<td>14N</td>
<td>8 m</td>
</tr>
<tr>
<td>C1-S10</td>
<td>C1-RUse-311</td>
<td>Shelterbelt</td>
<td>Site: 67 to 68</td>
<td>E-442402</td>
<td>N-5713061</td>
<td>14N</td>
<td>12 m</td>
</tr>
<tr>
<td>C1-S10</td>
<td>C1-RUse-312</td>
<td>Shelterbelt</td>
<td>Site: 69 to 70</td>
<td>E-443165</td>
<td>N-5712475</td>
<td>14N</td>
<td>10 m</td>
</tr>
<tr>
<td>C1-S10</td>
<td>C1-RUse-313</td>
<td>Shelterbelt</td>
<td>Site: 71 to 72</td>
<td>E-443147</td>
<td>N-5712122</td>
<td>14N</td>
<td>24 m</td>
</tr>
<tr>
<td>C1-S10</td>
<td>C1-RUse-314</td>
<td>Shelterbelt</td>
<td>Site: 73 to 74</td>
<td>E-443881</td>
<td>N-5711880</td>
<td>14N</td>
<td>11 m</td>
</tr>
</tbody>
</table>

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
- If burning of clearing debris is required it must be conducted 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
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to vegetation on the edge of the right-of-way
- No pushing debris into adjacent timber

ESS Group: Water Crossing

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S10</td>
<td>C1-Aquar-124</td>
<td>Unnamed Tributary of Lake Winnipegosis</td>
<td>441570</td>
<td>5713715</td>
<td>14N</td>
<td>4m</td>
<td>N/A</td>
<td>Low</td>
<td>Marginal</td>
</tr>
</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 fluvial plain

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 MI Veg Clearance Requirements.
- 3m 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

MAP NUMBER: 231
ESS Group: Archaeological

<table>
<thead>
<tr>
<th>Sec-Seg 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>C1-S10</td>
<td>C1-Hert-126</td>
<td>German Creek</td>
<td>443999</td>
<td>5711807</td>
<td>14N</td>
</tr>
</tbody>
</table>

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
- Engage excavated material or surface disturbance for heritage resources and report any finds to Environmental Inspector
- Implement additional mitigation from site investigation

ESS Group: Forestry

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
<th>ESS Name</th>
<th>Location</th>
<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S10</td>
<td>C1-Ruse-314</td>
<td>Shelterbelt</td>
<td>Site: 73 to 74</td>
<td>E-443692</td>
<td>E-443901</td>
<td>N-5711890</td>
<td>N-5711883</td>
</tr>
</tbody>
</table>

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
- If burning of clearing debris is required it must be conducted 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
- Use existing access trails, roads or cut lines whenever possible as access routes
- Limit all equipment to project footprint only, where possible
- No damage to Vegetation on the edge of the Right of Way
- No pushing debris into adjacent timber

ESS Group: Water Crossing

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
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<th>ESS Name</th>
<th>Easting</th>
<th>Northing</th>
<th>UTM Zone</th>
<th>Channel Width</th>
<th>Wet Width</th>
<th>Fish Habitat Class</th>
<th>Habitat Sensitivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S10</td>
<td>C1-Aqua-125</td>
<td>German Creek</td>
<td>444003</td>
<td>5711804</td>
<td>14N</td>
<td>N/A</td>
<td>2m</td>
<td>Low</td>
<td>Important</td>
</tr>
</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
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- 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 Mit Veg Clearance Requirements.
- 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: Habitat

<table>
<thead>
<tr>
<th>Sec-Seg ID</th>
<th>ESS ID</th>
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<th>Start</th>
<th>Stop</th>
<th>UTM Zone</th>
<th>Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-S11</td>
<td>C1-Eco-100</td>
<td>Dry Upland Prairie</td>
<td>Site: 75 to 76</td>
<td>E-44642</td>
<td>E-446176</td>
<td>N-5709508</td>
<td>N-5709527</td>
</tr>
</tbody>
</table>

Potential Effects:

Potential loss of plants of conservation concern and grassland species/populations from clearing, construction, maintenance and decommissioning activities.

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion
- Use existing access roads and trails to the extent possible
- Remove trees by low-disturbance methods
- Confining vehicle traffic to established trails to the extent possible
- Stabilize sites immediately after construction and re-vegetate disturbed areas in accordance with site Rehabilitation Plan