### 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>S2-520</td>
<td>S2-Recuse-103</td>
<td>C7</td>
<td>Snowmobile Trail</td>
<td>E-6457579 N-5488578</td>
<td>14N</td>
</tr>
<tr>
<td>S2-521</td>
<td>S2-Recuse-104</td>
<td>Lb</td>
<td>Snowmobile Trail</td>
<td>E-460871 N-5488577</td>
<td>14N</td>
</tr>
</tbody>
</table>

**Potential Effects:**
Potential interference with snowmobilers; safety issues

**Specific Mitigation:**
- Identify and flag prior to start of work
- Avoid surface damage to and obstruction of access route
- Post warning markers and signs at snowmobile trail location
- Notify snowmobile club/users and local authorities regarding construction activities and schedule, and address concerns prior to construction

### 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>S2-519</td>
<td>S2-Aqua-203</td>
<td>Freshwater artesian areas</td>
<td>Site: 35 to 38</td>
<td>E-639571 N-5488410</td>
<td>E-645717 N-5488578</td>
<td>14N</td>
<td>6147 m</td>
</tr>
<tr>
<td>S2-520</td>
<td>S2-Aqua-202</td>
<td>Freshwater artesian areas</td>
<td>Site: 47 to 52</td>
<td>E-645717 N-5488578</td>
<td>E-646290 N-5488575</td>
<td>14N</td>
<td>491 m</td>
</tr>
<tr>
<td>S2-521</td>
<td>S2-Aqua-202</td>
<td>Freshwater artesian areas</td>
<td>Site: 58 to 60</td>
<td>E-646209 N-5488575</td>
<td>E-646519 N-5488657</td>
<td>14N</td>
<td>320 m</td>
</tr>
<tr>
<td>S2-522</td>
<td>S2-Aqua-202</td>
<td>Freshwater artesian areas</td>
<td>Site: 64 to 69</td>
<td>E-649319 N-5488657</td>
<td>E-650376 N-5488761</td>
<td>14N</td>
<td>3858 m</td>
</tr>
</tbody>
</table>

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

**Specific Mitigation:**
- Marshaling 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.

### 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>S2-522</td>
<td>S2-Ruse-302</td>
<td>Shelterbelt</td>
<td>Site: 71 to 72</td>
<td>E-540944 N-5488669</td>
<td>E-646964 N-5488669</td>
<td>14N</td>
<td>19 m</td>
</tr>
<tr>
<td>S2-522</td>
<td>S2-Ruse-303</td>
<td>Shelterbelt</td>
<td>Site: 73 to 74</td>
<td>E-647350 N-5488661</td>
<td>E-647369 N-5488661</td>
<td>14N</td>
<td>19 m</td>
</tr>
<tr>
<td>S2-522</td>
<td>S2-Ruse-304</td>
<td>Shelterbelt</td>
<td>Site: 75 to 76</td>
<td>E-648590 N-5488714</td>
<td>E-648609 N-5488715</td>
<td>14N</td>
<td>19 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 wherever 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.

**MAP NUMBER:** 325
ESS Group: Species of Concern

<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>S2-519</td>
<td>S2-Eco-300</td>
<td>Species of Concern (plant)</td>
<td>Site: 36 to 37</td>
<td>E-639571</td>
<td>N-5488410</td>
<td>14N</td>
<td>6147 m</td>
</tr>
<tr>
<td>b12-b2u</td>
<td>b12-eco-su</td>
<td>Species of Concern (plant)</td>
<td>Site: 3u to 31</td>
<td>E-643717</td>
<td>N-5488579</td>
<td>14N</td>
<td>491 m</td>
</tr>
<tr>
<td>S2-521</td>
<td>S2-Eco-300</td>
<td>Species of Concern (plant)</td>
<td>Site: 56 to 61</td>
<td>E-664209</td>
<td>N-5488579</td>
<td>14N</td>
<td>320 m</td>
</tr>
<tr>
<td>S2-522</td>
<td>S2-Eco-300</td>
<td>Species of Concern (plant)</td>
<td>Site: 63 to 67</td>
<td>E-6646519</td>
<td>N-5488657</td>
<td>14N</td>
<td>3226 m</td>
</tr>
<tr>
<td>S2-519</td>
<td>S2-Eco-301</td>
<td>Species of Concern (plant)</td>
<td>Site: 39 to 40</td>
<td>E-640472</td>
<td>N-5488432</td>
<td>14N</td>
<td>5246 m</td>
</tr>
<tr>
<td>S2-520</td>
<td>S2-Eco-301</td>
<td>Species of Concern (plant)</td>
<td>Site: 48 to 54</td>
<td>E-640472</td>
<td>N-5488579</td>
<td>14N</td>
<td>491 m</td>
</tr>
<tr>
<td>S2-521</td>
<td>S2-Eco-301</td>
<td>Species of Concern (plant)</td>
<td>Site: 55 to 59</td>
<td>E-646209</td>
<td>N-5488579</td>
<td>14N</td>
<td>320 m</td>
</tr>
<tr>
<td>S2-522</td>
<td>S2-Eco-301</td>
<td>Species of Concern (plant)</td>
<td>Site: 66 to 70</td>
<td>E-66519</td>
<td>N-5488657</td>
<td>14N</td>
<td>3858 m</td>
</tr>
</tbody>
</table>

Potential Effects:
Potential loss of previously known plants of conservation concern 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

MAP NUMBER: 325
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### ESS Group: Watercrossing

#### Sec-Seg ID | ESS ID | ESS Name | Location | Start | Stop | UTM Zone | Distance
--- | --- | --- | --- | --- | --- | --- | ---
S2-S23 | S2-Aqua-203 | Freshwater artesian areas | Site: 78 to 90 | E-650376 N-5488761 | E-650933 N-5488771 | 14N | 557 m
S2-S24 | S2-Aqua-203 | Freshwater artesian areas | Site: 87 to 99 | E-650593 N-5488771 | E-651524 N-5488794 | 14N | 990 m
S2-S25 | S2-Aqua-203 | Freshwater artesian areas | Site: 93 to 99 | E-651924 N-5488794 | E-651908 N-5489309 | 14N | 2713 m

**Potential Effects:**
- Increased erosion and sedimentation; rutting of floodplains; loss of riparian vegetation

**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
- Use riparian 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.

### ESS Group: Groundwater

#### Sec-Seg ID | ESS ID | ESS Name | Location | Start | Stop | UTM Zone | Distance
--- | --- | --- | --- | --- | --- | --- | ---
S2-S22 | S2-Aqua-203 | Aquifers vulnerable to contamination | Site: 64 to 69 | E-646519 N-5488657 | E-650376 N-5488761 | 14N | 3858 m
S2-S23 | S2-Aqua-203 | Aquifers vulnerable to contamination | Site: 79 to 89 | E-650376 N-5488657 | E-650933 N-5488771 | 14N | 3858 m
S2-S24 | S2-Aqua-203 | Aquifers vulnerable to contamination | Site: 85 to 90 | E-650933 N-5488771 | E-651924 N-5488794 | 14N | 2713 m
S2-S25 | S2-Aqua-203 | Aquifers vulnerable to contamination | Site: 91 to 100 | E-651924 N-5488794 | E-651845 N-5491500 | 14N | 990 m

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

**Specific Mitigation:**
- Marshaling 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.

### ESS Group: Species of Concern

#### Sec-Seg ID | ESS ID | ESS Name | Location | Start | Stop | UTM Zone | Distance
--- | --- | --- | --- | --- | --- | --- | ---
S2-S22 | S2-Eco-300 | Species of Concern (plant) | Site: 63 to 68 | E-646519 N-5488657 | E-649744 N-5488745 | 14N | 3226 m
S2-S23 | S2-Eco-301 | Species of Concern (plant) | Site: 66 to 79 | E-646519 N-5488657 | E-650376 N-5488761 | 14N | 3858 m
S2-S24 | S2-Eco-301 | Species of Concern (plant) | Site: 77 to 92 | E-650933 N-5488771 | E-651924 N-5488794 | 14N | 990 m
S2-S25 | S2-Eco-301 | Species of Concern (plant) | Site: 96 to 99 | E-651924 N-5488794 | E-651908 N-5489309 | 14N | 516 m
S2-S22 | S2-Eco-302 | Species of Concern (plant) | Site: 63 to 78 | E-646519 N-5488657 | E-650376 N-5488761 | 14N | 3858 m
S2-S23 | S2-Eco-302 | Species of Concern (plant) | Site: 78 to 90 | E-650376 N-5488761 | E-650933 N-5488771 | 14N | 557 m
S2-S24 | S2-Eco-302 | Species of Concern (plant) | Site: 87 to 99 | E-650933 N-5488771 | E-651924 N-5488794 | 14N | 990 m
S2-S25 | S2-Eco-302 | Species of Concern (plant) | Site: 93 to 99 | E-651924 N-5488794 | E-651908 N-5489309 | 14N | 516 m

**Potential Effects:**
Potential loss of previously known plants of conservation concern 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
- Confine 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
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 impacted fish movement; flooding of floodplain.

Specific Mitigation:

- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion. If wet conditions, one time flooding is permitted
- Use existing trails, roads or cut lines whenever possible as access routes
- Where no machine zone will restrict equipment in close proximity to the waterbody except at the trail crossing.
- Limit machinery fording of the watercourse to a one-time event (over and back) only if no alternative crossing method is available. If repeated crossings of the watercourse are necessary prior approval from the MA Environmental Inspector is required
- Locate crossings perpendicular to the bank, whenever possible.
- Immediately stabilize shoreline or banks disturbed by any activity associated with the project to prevent erosion and/or sedimentation, preferably through re-vegetation with native species suitable for the site.

Potential Effects:

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

Specific Mitigation:

- Marshaling 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 artisanal conditions.
- Emergency response plans for sealing/grouting and pumping will be implemented as required.
Potential Effects:

Potential loss of previously known plants of conservation concern 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
- Confine 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
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### ESS Group: Water Crossing

<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>S2-S26</td>
<td>S2-Aqua-202</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 104 to 105</td>
<td>E-651845 N-5491506</td>
<td>E-654222 N-5491545</td>
<td>14N</td>
<td>2377 m</td>
</tr>
<tr>
<td>S2-S27</td>
<td>S2-Aqua-202</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 108 to 110</td>
<td>E-654222 N-5491545</td>
<td>E-654176 N-5491651</td>
<td>14N</td>
<td>418 m</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. If wet conditions, one time fording is permitted
- Use existing trails, roads or cut lines whenever possible as access routes
- For no machine, non-contact equipment in class proximity to the waterbody except at the trail crossing
- Limit machinery fording of the watercourse to a one-time event (over and back) only if no alternative crossing method is available. If repeated crossings of the watercourse are necessary prior approval from the MH Environmental Inspector is required
- Locate crossings perpendicular to the bank, whenever possible
- Immediately stabilize shoreline or banks disturbed by any activity associated with the project to prevent erosion and/or sedimentation, preferably through re-vegetation with native species suitable for the site

### 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>S2-S26</td>
<td>S2-Aqua-202</td>
<td>Freshwater artesian areas</td>
<td>Site: 103 to 106</td>
<td>E-651845 N-5491506</td>
<td>E-654222 N-5491545</td>
<td>14N</td>
<td>5377 m</td>
</tr>
<tr>
<td>S2-S27</td>
<td>S2-Aqua-202</td>
<td>Freshwater artesian areas</td>
<td>Site: 107 to 109</td>
<td>E-654222 N-5491545</td>
<td>E-654176 N-5491651</td>
<td>14N</td>
<td>418 m</td>
</tr>
<tr>
<td>S2-S28</td>
<td>S2-Aqua-202</td>
<td>Freshwater artesian areas</td>
<td>Site: 111 to 113</td>
<td>E-654176 N-5491961</td>
<td>E-655866 N-5492041</td>
<td>14N</td>
<td>5410 m</td>
</tr>
</tbody>
</table>

### Potential Effects:
Wetting the surficial environment near potential discharge from tower foundation drill hole (ground saturation); also, potential level drops 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
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. If wet conditions, one time fording is permitted
- Use existing trails, roads or cut lines whenever possible as access routes
- If no machinery, use will restrict equipment in close proximity to the waterbody except at the trail crossing
- Limit machinery fording of the watercourse to a one-time event (over and back) only if no alternative crossing method is available. If repeated crossings of the watercourse are necessary, prior approval from the NH Environmental Inspector is required
- Locate crossings perpendicular to the bank, whenever possible.
- Immediately stabilize shoreline or banks disturbed by any activity associated with the project to prevent erosion and/or sedimentation, preferably through re-vegetation with native species suitable for the site.

ESS Group: Groundwater

### 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.
- 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.

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### Tables

#### 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>S2-S28</td>
<td>S2-Aqua-132</td>
<td>Choriltz Drain</td>
<td>657878</td>
<td>5492013</td>
<td>14N</td>
<td>N/A</td>
<td>8m</td>
<td>Low</td>
<td>Marginal</td>
</tr>
<tr>
<td>S2-S28</td>
<td>S2-Aqua-133</td>
<td>Unnamed Drain</td>
<td>659237</td>
<td>5492033</td>
<td>14N</td>
<td>N/A</td>
<td>N/A</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

#### 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>S2-S28</td>
<td>S2-Aqua-202</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 112 to 114</td>
<td>E-654176</td>
<td>E-659586</td>
<td>14N</td>
<td>5410 m</td>
</tr>
<tr>
<td>S2-S29</td>
<td>S2-Aqua-202</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 116 to 118</td>
<td>E-659586</td>
<td>E-659411</td>
<td>14N</td>
<td>6689 m</td>
</tr>
</tbody>
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MAP NUMBER: 329
ESS Group: Archaeological

Potential Effects:
Potential disturbance to heritage resources.

Specific Mitigation:
- Project Archaeologist is required to be on site during geotechnical investigations and/or foundation installation
- 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 as required by Project Archaeologist
- The presence of the Project Archaeologist is required to monitor the excavation of tower footings at tower #7217 and #7218

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; Ruffling of floodplain

Specific Mitigation:
- Carry out construction activities on frozen or dry ground to minimize surface damage, rutting and erosion. If wet conditions, one time fording permitted
- 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.
- Locate crossings perpendicular to the bank, whenever possible.
- Immediately stabilize shoreline or banks disturbed by any activity associated with the project to prevent erosion and/or sedimentation, preferably through re-vegetation with native species suitable for the site.

ESS Group: Groundwater

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.
**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>S2-S29</td>
<td>S2-Ruse-306</td>
<td>Shelterbelt</td>
<td>Site: 119 to 120</td>
<td>E-659453</td>
<td>N-5497111</td>
<td>14N</td>
<td>8m</td>
</tr>
</tbody>
</table>

**Potential Effects:**

Removal in area of ROW intersect.

**Specific Mitigations:**

- 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 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>S2-S29</td>
<td>S2-Aqua-203</td>
<td>Freshwater artesian areas</td>
<td>Site: 115 to 117</td>
<td>E-659586</td>
<td>N-5499264</td>
<td>14N</td>
<td>6689 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 Mitigations:**

- 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.
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>Potential Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>S2-S329</td>
<td>S2-Aqua-137</td>
<td>Unnamed Drain</td>
<td>659414</td>
<td>5498659</td>
<td>14N</td>
<td>None</td>
</tr>
<tr>
<td>S2-S331</td>
<td>S2-Aqua-139</td>
<td>Youville Drain</td>
<td>659462</td>
<td>5500717</td>
<td>14N</td>
<td>None</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 archaeological personnel 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

<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>S2-S329</td>
<td>S2-Aqua-137</td>
<td>Youville Drain</td>
<td>659462</td>
<td>5500717</td>
<td>14N</td>
<td>11m</td>
<td>6m</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

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 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 fending from April 1 - July 15

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>S2-S329</td>
<td>S2-Aqua-203</td>
<td>Freshwater artesian areas</td>
<td>Site: 115 to 117</td>
<td>E-659411</td>
<td>N-54929728</td>
<td>14N</td>
<td>6689m</td>
</tr>
<tr>
<td>S2-S330</td>
<td>S2-Aqua-203</td>
<td>Freshwater artesian areas</td>
<td>Site: 122 to 127</td>
<td>E-659514</td>
<td>N-5499235</td>
<td>14N</td>
<td>517m</td>
</tr>
<tr>
<td>S2-S331</td>
<td>S2-Aqua-203</td>
<td>Freshwater artesian areas</td>
<td>Site: 126 to 127</td>
<td>E-659514</td>
<td>N-5499235</td>
<td>14N</td>
<td>933m</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

MAP NUMBER: 331
### ESS Groups: 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>S2-529</td>
<td>S2-Aqua-202</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 116 to 118</td>
<td>E-659566</td>
<td>N-5492041</td>
<td>14N</td>
<td>6689 m</td>
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<tr>
<td>S2-530</td>
<td>S2-Aqua-202</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 121 to 124</td>
<td>E-659411</td>
<td>N-5498728</td>
<td>14N</td>
<td>517 m</td>
</tr>
<tr>
<td>S2-531</td>
<td>S2-Aqua-202</td>
<td>Aquifers vulnerable to contamination</td>
<td>Site: 125 to 128</td>
<td>E-659514</td>
<td>N-5499235</td>
<td>14N</td>
<td>8504 m</td>
</tr>
</tbody>
</table>

### Potential Effects:

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

### Specific Mitigation:

- Harshaling 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.