

MAP NUMBER : 113

ESS Group : Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S01	N3-Eco-100	Patterned Fen	Site: 9 to 10	E-496745 N-6058134	E-495151 N-6057551	14N	1697m
N3-S01	N3-Eco-100	Patterned Fen	Site: 11 to 12	E-495049 N-6057514	E-494738 N-6057400	14N	331m
N3-S01	N3-Eco-100	Patterned Fen	Site: 13 to 14	E-494383 N-6057270	E-494738 N-6057400	14N	1867m

Potential Effects:

Potential loss of species 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 ٠
- Provide 5 m vegetated (shrub and herbaceous) buffer around site .
- Remove trees by low-disturbance methods
- Confine vehicle traffic to established trails to the extent possible
- Install erosion protection and sediment control measures in accordance with Erosion/Sediment Control Plan

ESS Group : Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S01	N3-Soils-101	Permafrost	Site: 5 to 6	E- 500444 N- 6059487	E-492274 N-6056499	14N	8699m

Potential Effects:

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

Specific Mitigation:

- Carry out construction activities on frozen ground to minimize surface damage and rutting.
- Use existing trails, roads or cut lines whenever possible as access routes.
- Avoid organic soils containing permafrost to the extent possible ٠
- Maintain shrub and herbaceous vegetation to the extent possible ٠
- Remove trees by low-disturbance methods .
- Confine vehicle traffic to established trails to the extent possible
- Implement erosion protection before commencing construction in accordance with Erosion/Sediment Control ٠ Plan

ESS Group : Birds and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S01	N3-Wild- 100	Waterfowl and yellow rail sensitivity area	Site: L1 to L2	E-493367 N-6056898	E-493178 N-6056829	14N	201m

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 effect colonies up to 350 meters away

Specific Mitigation:

- Adhere to reduced risk timing windows for protection of birds (August 1- April 30)
- Maintain setback during 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
- Monitor bird density and mortality/injury in accordance with Biophysical Monitoring Plan and adjust mitigation accordingly

ESS Group : Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S01	N3-Wild-200	Sensitive Caribou Range	Site: 3 to 4	E-501860 N-6060005	E-491200 N-6056106	14N	11351m

Potential Effects:

Potential disturbance to and loss of sensitive caribou habitat

Specific Mitigation:

- Harvest within caribou range boundary will not include shear blading except for access, conductor stringing trails, and tower footprints.
- No shear blading to clear the right of way (ROW) in the sensitive range. Selective cutting methods will only be used to remove danger trees, vegetation within tower footprint, access route, and helicopter access points, to maintain low tree, shrub and herb plant communities on the ROW. Use existing access roads and trails to the extent possible
- Maintenance trails to be maintained to reduce line of sight for hunters and predators. Remove trees by low-disturbance methods
- Annual ground inspection of towers to occur late in winter season to avoid creating packed snow trails • that facilitate predator use of the ROW.
- Any Manitoba Hydro constructed or improved access routes used to access the ROW for construction that will not be needed for future maintenance will be decommissioned on completion of construction. Any culverts or road improvements will be removed and the first 100 m from of the trail dug up to the extent possible. Available slash <1 m in height will also be evenly distributed over the access route to reduce the possibility of use by ATV traffic.



MAP NUMBER : 114

ESS Group : Permafrost

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S01	N3-Soils-101	Permafrost	Site: 5 to 6	E- 500444 N- 6059487	E-492274 N-6056499	14N	8699m
N3-S02	N3-Soils-102	Permafrost	Site: 15 to 16	E-491336 N-6056155	E-491200 N-6056106	14N	144m

Potential Effects:

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

Specific Mitigation:

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

ESS Group : Intersection

Sec-Seg ID	ESS ID	ESS Name	Location	Easting	Northing	UTM Zone
N3-S01	N3-Acss-100	Snowmobile Trail	Site: C1	491837	6056338	14N

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 : Mammals and Habitat

Sec-Seg ID	ESS ID	ESS Name	Location	Start	Stop	UTM Zone	Distance
N3-S01	N3-Wild-200	Sensitive Caribou Range	Site: 3 to 4	E-501860 N-6060005	E-491200 N-6056106	14N	11351m
N3-S02	N3-Wild-200	Sensitive Caribou Range	Site: 17 to 18	E-491200 N-6056106	E-484798 N-6053008	14N	7112m

Potential Effects:

Potential disturbance to and loss of sensitive caribou habitat

Specific Mitigation:

- Harvest within caribou range boundary will not include shear blading except for access, conductor stringing trails, and tower footprints.
- No shear blading to clear the right of way (ROW) in the sensitive range. Selective cutting methods
 will only be used to remove danger trees, vegetation within tower footprint, access route, and
 helicopter access points, to maintain low tree, shrub and herb plant communities on the ROW. Use
 existing access roads and trails to the extent possible
- Maintenance trails to be maintained to reduce line of sight for hunters and predators. Remove trees by low-disturbance methods
- Annual ground inspection of towers to occur late in winter season to avoid creating packed snow trails that facilitate predator use of the ROW.
- Any Manitoba Hydro constructed or improved access routes used to access the ROW for construction that will not be needed for future maintenance will be decommissioned on completion of construction. Any culverts or road improvements will be removed and the first 100 m from of the trail dug up to the extent possible. Available slash <1 m in height will also be evenly distributed over the access route to reduce the possibility of use by ATV traffic.