

12.0 MONITORING AND COMMITMENTS

Monitoring

The Project has been designed to incorporate impact management measures to minimize the potential for environmental effects. An effective monitoring program provides results to indicate if the assumptions used in the assessment were correct and if impact management measures are effective. An effective monitoring program also identifies unforeseen problems so they can be addressed in a timely manner by Wataynikaneyap.

The proposed monitoring programs for the Project are presented in Table 12.0-1. Details will be finalized during permitting processes. Monitoring programs are presented according to the environmental components considered in the assessment.

Monitoring programs proposed include both compliance monitoring and effects monitoring. Compliance monitoring assesses if the Project has been constructed and operated according to the commitments made in the environmental assessment and the conditions of the *Environmental Assessment Act* approval. Effects monitoring is focused on assessing the environmental effects of the Project and this requirement will be determined as part of the conditions for approval.

Commitments

This section summarizes the commitments made by Wataynikaneyap in the Final EA Report to limit the potential for the Project to generate adverse effects. Commitments focus on impact management measures and monitoring programs. Table 12.0-2 summarizes the commitments made, where in the Final EA Report the commitment is mentioned and when each commitment will be fulfilled. These commitments are in addition or supplement the various environmental and social management plans presented in Section 9.0.

Table 12.0-1: Monitoring Programs

Criteria	Objective	Method	Timing/Frequency
Construction Stage			
Surface water	To verify effectiveness and to implement sediment and erosion control measures to minimize sediment mobilization from disturbed areas to waterbodies and wetlands.	Erosion and Sediment Management Monitoring - Monitoring/inspections of all erosion and sediment management measures, bank stabilization features and coffer dams during construction.	During construction while erosion and sediment management measures are in place.
	To monitor the effectiveness of the construction procedures and impact management measures to minimize potential effects to surface water and fish and fish habitat.	<p>Instream Monitoring Program – Monitoring will be conducted during instream construction (e.g., installation and removal of culverts) by a qualified Environmental Monitor to observe implementation and report on the effectiveness of the construction procedures and impact management measures for minimizing potential effects to surface water. The program will include:</p> <ul style="list-style-type: none"> ■ Monitoring of turbidity and/or total suspended solids (TSS), coupled with monitoring of streamflow rates and/or water levels, at all waterbody crossings targeted for instream works to verify effectiveness of construction procedures and impact management measures including dam and pump/diversion activities associated with the removal and/or installation of temporary or permanent crossing structures. ■ Monitoring of surface water quantity and quality parameters at water taking or discharge locations to satisfy the conditions/requirements of water discharge plans related to applicable Permits To Take Water (PTTWs), Environmental Compliance Approvals (ECAs) or Environmental Activity and Sector Registry (EASR). 	During construction when instream work occurs.

Table 12.0-1: Monitoring Programs

Criteria	Objective	Method	Timing/Frequency
Construction Stage			
Surface water	To monitor effectiveness of design features and impact management measures related to new, permanent waterbody crossings.	<ul style="list-style-type: none"> ■ Waterbody Crossing Monitoring Program – Monitoring will be conducted at new, permanent waterbody crossings to verify that erosion and sediment control measures have been successful (e.g., bank restoration and re-vegetation). The post-construction monitoring will occur within one full growing season after the completion of construction, but timing may be extended if needed. The integrity of the permanent crossing structures will be inspected annually in the spring for the life of the Project. Any changes to the morphology of the waterbody channel will be identified and addressed, as needed. At culverts, monitoring will be conducted to identify and remove blockages (e.g., ice, woody debris), as needed, that would otherwise lead to scouring and effects to channel morphology and fish habitat, and potentially interfere with fish passage. ■ Monitoring of turbidity and/or TSS, and streamflow rates will also occur on a twice annual basis at new and permanent waterbody crossings during the early stages of the operation and maintenance stage until pre-existing conditions are reached (to verify the effectiveness of reclamation measures). To the extent possible, the monitoring will be carried out during a period of high flows (e.g., spring) and low flows (e.g., mid- to late summer) in an effort to assess water quality conditions under a wide range of flow conditions. 	During construction and annually during operation and maintenance.
Groundwater	To monitor groundwater quantity and quality	<ul style="list-style-type: none"> ■ Groundwater Well Monitoring Program – Prior to construction, Wataynikaneyap will identify shallow domestic groundwater wells ■ If domestic groundwater wells are identified, Wataynikaneyap will provide the option to groundwater well owners to participate in a well monitoring program to determine pre-construction groundwater quality and quantity. ■ Wataynikaneyap will monitor groundwater quantity and quality during and post-construction, to compare to the pre-construction survey. 	During construction and annually during operation and maintenance.

Table 12.0-1: Monitoring Programs

Criteria	Objective	Method	Timing/Frequency
Construction Stage			
Vegetation and wetlands	To monitor for incidental sensitive features and implement site specific impact management measures if required.	Incidental Vegetation and Wildlife Monitoring – The development footprint will be monitored during construction for incidental sensitive features (e.g., rare vegetation communities, Significant Wildlife Habitat, and bat hibernacula) that have not previously been identified on or near the anticipated footprint. In the event that a sensitive feature is suspected, the Rare Plant Management Plan (Section 9.3.1.6) and Wildlife Management Plan (Section 9.3.1.8) will be implemented.	During construction.
	To minimize the establishment of invasive weed species.	Soil topsoil piles will be monitored for weeds. The Invasive Species Management Plan (Section 9.3.1.7) will be implemented which will include an annual monitoring program for 3 years to identify and prioritize weeds for removal.	Annually during construction and into operation and maintenance stage for 3 years.
	To confirm soil reclamation success.	Conduct an appropriately designed soil assessment program during non-frozen soil conditions after one full growing season following clean-up to confirm reclamation success and determine if any soils issues persist in areas affected by construction (e.g., compaction, admixing, stoniness, contour restoration, and erosion). Where issues are identified through this assessment, implement remedial measures as soon as feasible and repeat soil assessment the following year to confirm reclamation success. Soil reclamation assessments should be repeated annually until no issues are identified.	During construction and into operation and maintenance stage (annually until no issues are identified).
	To confirm vegetation reclamation success.	Conduct annual vegetation monitoring when vegetation is mature enough for accurate identification and evaluation after the first full growing season following clean-up to confirm reclamation success and determine if any vegetation issues persist in areas affected by construction (e.g., weed infestations, poor vegetation establishment). Vegetation monitoring will be completed for three consecutive years to assess the longer-term success of the reclamation. Conduct additional soils assessments, if warranted, to identify the cause of vegetation issues, if any. Where issues are identified through this assessment, implement remedial measures as soon as feasible.	Annually during construction and into operation and maintenance stage for 3 years.

Table 12.0-1: Monitoring Programs

Criteria	Objective	Method	Timing/Frequency
Construction Stage			
Vegetation and wetlands	To confirm wetland reclamation success.	Annual monitoring for three consecutive years will be completed for wetlands that are effected during construction to evaluate reclamation success and implement appropriate remedial measures if required. Determine if additional monitoring is required and complete additional follow-up until it is determined that effects have been appropriately mitigated.	Annually during construction and into operation and maintenance for 3 years
Fish and Fish Habitat	To monitor the effectiveness of the construction procedures and impact management measures to minimize potential effects to fish and fish habitat	<p>Instream Monitoring Program – Monitoring will be conducted during instream construction (e.g., installation and removal of culverts) by a qualified Environmental Monitor to observe implementation and report on the effectiveness of the construction procedures and impact management measures for minimizing potential effects to fish and fish habitat. The program will include:</p> <ul style="list-style-type: none"> Monitoring of turbidity and/or total suspended solids (TSS), coupled with monitoring of streamflow rates and/or water levels, at all waterbody crossings targeted for instream works to verify effectiveness of construction procedures and impact management measures including dam and pump/diversion activities associated with the removal and/or installation of temporary or permanent crossing structures. 	During construction when instream work occurs.
Wildlife	To monitor for incidental sensitive features and implement site specific impact management measures if required.	Incidental Vegetation and Wildlife Monitoring (as described above).	During construction.

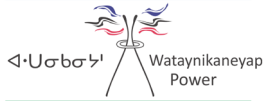
Table 12.0-1: Monitoring Programs

Criteria	Objective	Method	Timing/Frequency
Construction Stage			
Socio-economics	To monitor potential effects to temporary accommodation in LSA communities.	<p>As part of the Social Management Plan, a monitoring program is proposed, to track the following information prior to and during the peak construction period:</p> <ul style="list-style-type: none"> ■ the number of local versus non-local hires; ■ the number of workers residing at each camp; ■ the percentage of construction workers who live in camps compared to commuting or staying in hotel or motel accommodation; and ■ potential changes in Project schedule that could influence the timing of peak construction. <p>This monitoring information will be shared with temporary accommodation providers and local government representatives from LSA communities, to help track temporary accommodation needs and assist in addressing any capacity constraints on local temporary accommodation during construction.</p>	During construction.

Table 12.0-1: Monitoring Programs

Criteria	Objective	Method	Timing/Frequency
Operation and Maintenance Stage			
Biophysical criteria	To monitor the Project throughout its life for maintenance and environmental issues.	Routine Inspections - Monitor the ROW and access roads on an annual basis for the life of the Project. Environmental issues that will be monitored are related to slope or bank erosion or wind and water erosion.	Annual inspections of the ROW and access roads will typically occur by helicopter, in addition to less frequent ground patrols to carry out a detailed inspection of the structures, insulators and conductors.
Fish and fish habitat	Monitor to provide feedback on the effectiveness of design features and impact management measures	Post-construction monitoring will be conducted at equipment waterbody crossings to verify that erosion and sediment control measures have been successful (e.g., bank restoration and re-vegetation) and that the stability of each waterbody crossing is maintained (i.e., the channel has not washed-out).	Monitoring will occur within one full growing season after the completion of construction, but timing may be extended if needed
Visual Aesthetics	Monitor if predicted visual effects have occurred and identify unforeseen effects.	A visual audit will be conducted by a suitably qualified landscape design practitioner would occur at the commencement of operations to establish that predicted visual effects have occurred, to identify unforeseen effects and assess compliance with proposed impact management measures already in place. Additional monitoring throughout reclamation of temporary components would occur to confirm impact management measures are being established appropriately.	During operation and maintenance

ECAs = Environmental Compliance Approvals; EASR = Environmental Activity and Sector Registry; LSA = local study area; MOECC = Ontario Ministry of the Environment and Climate Change; PTTWs = Permits To Take Water; ROW = right-of-way; TSS = total suspended solids.



**ENVIRONMENTAL ASSESSMENT REPORT FOR THE PHASE 1 NEW TRANSMISSION LINE TO
PICKLE LAKE PROJECT
SECTION 12.0: MONITORING AND COMMITMENTS**

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Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-001	After the EA stage, there will be continued design efforts to achieve final detailed design of the Project.	Section 3.3
P1-EA-002	The Project will be designed and constructed according to standard industry design codes and guidelines applicable to transmission projects.	Section 3.4.1
P1-EA-003	Wataynikaneyap will inspect the transmission line on a semi-annual to annual basis. Typically, these inspections will be completed using a helicopter. During these inspections, the effects of climatic events (e.g., sign of physical damage, general condition of the equipment) will be noted and repairs or equipment replacement will be conducted as necessary. Wataynikaneyap will also monitor extreme weather events and have emergency response plans in place to address the effects of these events on the Project.	Section 3.4.1
P1-EA-004	An approximately 40-m-wide transmission line alignment ROW will be cleared of non-compatible vegetation within the 2-km-wide corridor.	Section 3.4.2
P1-EA-005	Conductor clearance over ground (i.e., the distance between the ground and the closest point of the transmission line span) road crossing and river crossings will meet CSA Standard C22.3 No. 1 10 Table 2 (Overhead System). Wood poles will comply with CSA Standard O15-05 (Wood Utility Poles and Reinforcing Stubs) and CSA Standard O80 Series 08 (Wood Preservation). Appropriate aerial marking for aviation and boating safety will comply with Canadian Aviation Regulations (CAR) Standard 621 – Obstruction Marking and Lighting. The transmission structures will be designed and constructed to withstand loadings associated with a 50-year return period meteorological event (i.e., a wind or icing event that is statistically expected to occur every 50 years).	Section 3.4.2
P1-EA-006	The insulators will meet the requirements of CSA Standard C411.1-10 (Electrical Engineering Standards, AC Suspension Insulators) (CSA 2010b).	Section 3.4.2
P1-EA-007	The transmission line will be designed and constructed to operate 230 kV AC overhead transmission line standards.	Section 3.4.2
P1-EA-008	The CF site will be fenced, include a small pre-fabricated galvanized steel building, buried grounding conductors or other required grounding means, and have lightning protection.	Section 3.4.3
P1-EA-009	The switching stations will include the equipment required to meet Independent Electricity System Operator (IESO) and Hydro One requirements such as, but not limited to, motor operated switches, one or more circuit breakers, electrical protection and control equipment, batteries, and communication and monitoring equipment.	Section 3.4.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-010	The precise location of the TS will be finalized during the detailed design stage, after engagement with potentially affected landowners and after acquisition of all necessary permits and authorizations.	Section 3.4.4
P1-EA-011	The TS area will be graded, fenced, include grounding conductors or other required means of grounding, and will be equipped with lightning protection.	Section 3.4.4
P1-EA-012	Approximately 30% of access roads and trails will remain in place to provide access for operation and maintenance activities. All others will be decommissioned and rehabilitated using applicable and appropriate methods and standards. Waterbody crossings will be removed and sediment and erosion control measures will be installed prior to their removal. Upon removal of waterbody crossings, the waterbody banks will be returned to a stable condition if necessary.	Section 3.5.1; Section 7.3.6; Section 8.9.2
P1-EA-013	Additional access roads or trails will be required along the transmission corridors. The specific number, location and characteristics of all new access roads or trails for the Project will be finalized as part of ongoing Project engineering and design, and will be planned and developed in compliance with applicable legislation, regulations and requirements identified in permits and authorizations.	Section 3.5.1
P1-EA-014	Aggregate will be sourced from local First Nation owned quarries or gravel pits; however if local pits are not available then borrow pits may be required at a few locations along the transmission corridor and/or purchased from local suppliers. If required, all borrow pits will be identified, established and decommissioned in accordance with applicable regulatory requirements.	Section 3.5.1; Section 5.1.6
P1-EA-015	All surface infrastructures will be removed from the temporary staging and laydown areas. All in-ground infrastructures will be decommissioned in accordance with applicable regulatory requirements.	Section 3.5.1
P1-EA-016	All temporary construction camps and offices will be decommissioned upon completion of Project construction. All buildings will be removed. Water and sewer systems, and all in-ground infrastructure will be decommissioned in accordance with applicable regulatory requirements.	Section 3.5.1
P1-EA-017	All vehicle movement on Project access roads or trails will be in accordance with applicable regulations and guidelines.	Section 3.5.1
P1-EA-018	All waste will be appropriately stored, transported and disposed of according to applicable provincial and federal laws and regulations.	Section 3.5.1
P1-EA-019	Temporary construction camp facilities will comply with the <i>Ontario Occupational Health and Safety Act</i> .	Section 3.5.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-020	Clean-up and rehabilitation will be conducted after temporary construction infrastructure has been decommissioned and removed. These activities will include, but not be limited to, removing refuse, grading disturbed areas, contouring disturbed slopes to a stable profile, and re-establishing natural drainage patterns. Rehabilitation will also include site-specific measures to promote the natural revegetation of disturbed areas. All waste disposal/recycling, including hazardous and excavated materials, will comply with applicable regulations and disposed of at authorized facilities.	Section 3.5.1
P1-EA-021	Clearing will consist of cutting tree trunks parallel to, and within 15 cm of the ground or lower, as well as the removal of all shrubs, debris and other such materials. Grubbing may be required along the length of the 40-m-wide transmission line alignment ROW. Clearing of the 40-m-wide transmission line alignment ROW will take into consideration: <ul style="list-style-type: none"> ■ widths of waterbodies; ■ location of wetlands; ■ locations of known archaeological and cultural heritage sites; ■ areas of commercial timber and the method of cutting and storing commercial timber; and ■ required riparian buffer zones (e.g., for waterbodies and other sensitive natural features). 	Section 3.5.1
P1-EA-022	Construction activities will typically occur during one 10-hour shift per day, with normal working hours of 07:00 to 18:00. Night-time work is not anticipated. In the event construction will occur beyond the daytime period, Wataynikaneyap will review impact management measure requirements.	Section 3.5.1; Section 5.5.7; Section 7.3.6; Section 7.6.6
P1-EA-023	Construction materials will be distributed from the temporary laydown areas using trucks, or other appropriate equipment as dictated by the terrain or other environmental considerations.	Section 3.5.1 Section 7.3.6
P1-EA-024	New access roads or trails will be designed and constructed in accordance with the Ontario Ministry of Natural Resources and Forestry (MNRF) Environmental Guidelines for Access Roads and Water Crossings (1990).	Section 3.5.1; Section 5.1.6; Section 7.6.6

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-025	Construction water sources, methods of accessing water and volume of water for concrete production is not known at this stage of Project planning, but will be conducted in accordance with applicable regulatory requirements. Water used for dust suppression will be brought to the site by tanker truck. Permits for this will be acquired, if necessary. Washwater from the cleaning of mixers, mixer trucks, and concrete delivery systems will flow into closed system aggregate rinsing settling basins. In the event that water from the closed settling system is intended for release, it will be tested first for parameters related to concrete additives, pH, and total suspended solids, and will meet Ontario Provincial Water Quality Objectives (PWQO) and CCME Canadian Water Quality Guidelines (CWQG) for the Protection of Aquatic Life prior to discharge.	Section 3.5.1
P1-EA-026	Temporary crossing materials, if used, will be removed immediately following the completion of construction activities. Sediment and erosion control measures will be installed prior to commencing construction activities. Upon removal of the temporary crossing materials, the waterbody banks will be returned to their original profile if needed and disturbed areas will be stabilized, as necessary, to prevent soil erosion.	Section 3.5.1; Section 5.1.6.1.2; Section 6.2.6; Section 7.4.6; Section 8.8
P1-EA-027	Crossing over frozen waterbodies will only be carried out as necessary under safe conditions.	Section 3.5.1
P1-EA-028	During construction, existing access roads or trails will be used as much as possible to limit disturbance resulting from construction of new access roads and trails. Existing culverts will be repaired or replaced as appropriate. Where the construction of new access infrastructure for the Project will involve waterbody crossings, these will be minimized to the extent practical.	Section 3.5.1 Section 5.1.6; Section 6.1; Section 6.2.6; Section 6.2.6.1.2; Section 6.3.7; Section 7.3.6; Section 7.5; Section 7.6.6
P1-EA-029	During construction, fuel will be transported by tanker trucks, in drums, or other approved containers. Fuelling areas will be established at laydown areas and/or temporary construction camps, with self-dyked steel above ground storage tanks (AST). The largest on-site fuel storage tank is anticipated to hold no more than 5,000 litres (L). A fuelling truck may also be used for refuelling vehicles and equipment and filling fuel tanks in construction camps. All ASTs will be registered under, and in compliance with, applicable federal and provincial legislation. Aboveground storage tanks will meet the Canadian Council of Ministers of the Environment (CCME) Environmental Code of Practice for Above ground Storage Tank Systems Containing Petroleum Products (1994).	Section 3.5.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-030	Electricity will be supplied to the camps using temporary diesel generators where there are no rural distribution powerlines. The diesel generators will be operated in compliance with applicable regulations and guidelines, including acquiring any necessary permits and approvals. For a camp of approximately 150 people, typically the electricity requirements would be supplied by a 250 kW diesel genset and there may be a second unit of the same size for backup.	Section 3.5.1; Section 7.3.6
P1-EA-031	Following the 40-m-wide transmission line alignment ROW clearing, field survey crews will physically mark (i.e., stake) the specific locations of the structures, foundations and guy anchors using Global Positioning System (GPS) technology, data from the LiDAR survey, and detailed design.	Section 3.5.1
P1-EA-032	Fuelling areas at laydown areas and temporary construction camps may include drainage controls. Drainage will be retained in a sump where hydrocarbons can be captured and separated prior to the release of any rainwater run-off, as appropriate. Equipment with reduced mobility, such as heavy lift cranes and excavators, will have fuel delivered by a mobile tank and re-fuelling will take place on-site. All fuel transfers will follow safety procedures to prevent leaks and drips, and spill response kits will be available on all vehicles used to transport fuel. Generally, vehicles will be fueled at the camp; however, if fuelling of vehicles and other mobile equipment is required at the site then fuelling will not be permitted within 30 m of a waterbody, unless a spill prevention plan is in place.	Section 3.5.1
P1-EA-033	Grey water will be discharged to leaching beds constructed at the temporary construction camps. All required permits and authorizations will be acquired for construction and operation of the leaching beds. Leaching beds will be designed and constructed according to R.R.O 1990, Reg. 358: Sewage Systems design requirements.	Section 3.5.1; Section 5.1.6; Section 7.3.6; Section 7.6.6
P1-EA-034	If concrete is required, it may be prepared on-site or locally sourced and delivered to the preferred corridor using ready-mix trucks.	Section 3.5.1; Section 7.3.6
P1-EA-035	If culverts are installed as a contingency, culvert selection will consider site-specific conditions such as the width of the waterbody crossing, fish habitat characteristics, substrate type, and hydrologic characteristics of the waterbody. Culverts will be sized to handle peak flow, and aligned parallel to the waterbody channel on a straight section of uniform gradient. Installation and removal practices will follow DFO's advice on erosion and sediment control to avoid causing serious harm to fish and fish habitat (DFO 2016).	Section 3.5.1; Section 6.2.6.1.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-036	If required, all borrow pits will be decommissioned as work is completed in that area if opened by Wataynikaneyap constructing the transmission line. Decommissioning will include, but not be limited to, the replacement of unused excavated material, the replacement of topsoil, and installation of erosion control structures, as appropriate.	Section 3.5.1
P1-EA-037	Laydown areas will be used to receive and temporarily store materials and equipment during construction. Material will be transported to the corridor using line trucks and flatbed transport trucks where possible. Off-road track units will be used where trucks cannot drive if possible.	Section 3.5.1
P1-EA-038	Material will be stored in warehouses or storage areas established in local towns that have access to highways, such as Pickle Lake, Sioux Lookout, Dinorwic, and Ignace. The material will be transported by truck to laydown areas or to structure locations on the 40-m-wide transmission line alignment ROW where possible. Wataynikaneyap may choose to transport materials by helicopter to structure locations not accessible by ground vehicle. Existing sites with appropriate land use designations that can accommodate the Project requirements will be identified as priority locations for the storage areas. All appropriate permits and authorizations will be acquired prior to use.	Section 3.5.1
P1-EA-039	A recycling program will be implemented at all temporary construction camps to reduce the amount of solid waste generated as a requirement of the construction contract with Wataynikaneyap and their contractor(s).	Section 3.5.1 Section 7.3.6
P1-EA-040	Permanent access roads or trails will be constructed from aggregate, wood chips or logs using bulldozers and gravel trucks. Geo textile material will be used for temporary access roads or trails that are to be removed following construction. Dust control may be required for the access roads and trails and will likely be in the form of water spraying. An access trail be established within the 40-m-wide transmission line alignment corridor for permanent use during operation and maintenance. The equipment waterbody crossings along the access trail will be temporary. Approximately 30% of the equipment waterbody crossings along the access roads may be permanent and some of these permanent equipment waterbody crossings may be located beside the 40 m wide transmission line alignment ROW where the routes are parallel. The access trail will be located, for the most part, within the cleared 40 m wide transmission line alignment ROW.	Section 3.5.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-041	Wataynikaneyap with their contractor(s) will prepare and implement a Post-construction environmental Monitoring Plan after the completion of the construction activities and continue into the operation and maintenance stage and will include such activities such as examining and documenting the success of revegetation and rehabilitation measures. An overview of the Post-construction Monitoring Plan is provided in Section 9.3.2.1.	Section 3.5.1
P1-EA-042	Potable water for work sites, temporary construction camps and laydown areas will be obtained from local suppliers via water tank trucks. Domestic effluent will be taken by tanker truck for disposal to an existing municipal wastewater treatment facility authorized to accept this type of waste. All permits and authorizations will be acquired for transport and disposal. Wells may be drilled at the temporary construction camps if this option is more feasible.	Section 3.5.1 Section 5.1.6; Section 5.1.6.1.2 Section 7.3.6
P1-EA-043	Project infrastructure will be inspected prior to commissioning the system.	Section 3.5.1
P1-EA-044	Slash and debris will be chipped and spread over the ROW, or will be burned with other organic debris in accordance with provincial <i>Forest Fires Prevention Act</i> and the Regulation 207/96 Outdoor Fires under this Act. Diseased or damaged trees located at the edge of the 40-m-wide transmission line alignment ROW that may fall onto the overhead line conductors or structures will also be removed.	Section 3.5.1
P1-EA-045	In some cases it may be more practical to burn cleared wood, and all required permits and authorizations will be acquired prior to burning. The remaining timber will be de-limbed, cut into lengths and stacked along the edge of the 40-m-wide transmission line alignment ROW in neat piles for short term storage.	Section 3.5.1
P1-EA-046	Structure foundations including guy anchors will be designed and constructed to meet structure load requirements for soil conditions at the structure locations.	Section 3.5.1
P1-EA-047	Temporary bridges (e.g., rig mats) will be no greater than one lane in width and no part of the structure will be placed within the wetted portion of the waterbody.	Section 3.5.1
P1-EA-048	Temporary laydown areas will be established within or just outside the transmission corridor to receive and temporarily store materials and equipment during construction.	Section 3.5.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-049	Wataynikaneyap will establish construction offices and warehouses with access to all weather roads and communications. The exact locations and number will be determined by Wataynikaneyap. Typically these facilities are leased or rented and may be located in Pickle Lake, Sioux Lookout, Dinorwic or Ignace. Wataynikaneyap will choose sites with adequate space for offices and material storage.	Section 3.5.1
P1-EA-050	Construction material may be sourced from Ontario, Canada or internationally depending on economics and availability. Expendables will be sourced locally to the extent possible.	Section 3.5.1
P1-EA-051	Wataynikaneyap will be required to request a permit before conducting any re-clearing effort on access roads or trails.	Section 3.5.1
P1-EA-052	The access roads or trails will use locally sourced material (i.e., gravel pits) where practical to create a stable surface for travel (e.g., cleared wood, logs and swamp mats may be used as a base for travel across wetlands, bogs and/or low-lying areas). Crushed rock is not expected to be placed on the trail surface, but may be required for specific purposes, such as sanding trails in the winter for traction.	Section 3.5.1
P1-EA-053	The transportation, storage and handling of fuels will be meet the <i>Ontario Technical Standards and Safety Act, 2000</i> (Government of Ontario 2010) and Canada's <i>Transportation of Dangerous Goods Act</i> (Government of Canada 1992). The transport vehicles will be licensed and maintained according to safety requirements.	Section 3.5.1; Section 5.1; Section 6.2; Section 7.3; Section 7.6
P1-EA-054	Vegetation will be cleared using mechanical harvesters to remove the timber. Chainsaws may be used for small scale clearings (e.g., tree removal adjacent to a waterbody), as required.	Section 3.5.1
P1-EA-055	Wataynikaneyap will contact Aboriginal communities, Aboriginal land users and landowners, and non-Aboriginal landowners along the transmission line corridor during the detailed design stage and final 40-m-wide transmission line alignment ROW selection and prior to construction to inform them of construction schedule and general procedure. Communication will continue until after the Project construction has been completed.	Section 3.5.1
P1-EA-056	Wataynikaneyap will incorporate the Fisheries and Ocean Canada (DFO) and MNRF guidance for overhead line construction and temporary and permanent equipment waterbody crossings during construction to the extent practical. If there is any circumstance under which this cannot be met, DFO and MNRF will be contacted to discuss next required steps.	Section 3.5.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-057	Buffer zones of 30 m will be maintained around waterbodies, and clearing of riparian vegetation will be limited to the extent practical and to the requirement of the access road and alignment clearing width only. Clearing at waterbody crossings along the 40-m-wide transmission line alignment ROW will generally be limited to a 6-m-wide ROW for equipment access to waterbody crossing structures (e.g., temporary bridges).	Section 3.5.1; Section 5.1; Section 6.2; Section 7.4; Section 7.6; Section 8.8.
P1-EA-058	Helicopters may be used to transport material, equipment and personnel in areas that are difficult to access by ground vehicle.	Section 3.5.1; Section 7.3
P1-EA-059	Organic solid waste disposal at the camps will be in compliance with applicable guidelines and regulatory requirements.	Section 3.5.1; Section 7.3
P1-EA-060	Organic solid waste may be temporarily stored in bear-proof containers before being transported to an approved waste disposal site.	Section 3.5.1; Section 7.3
P1-EA-061	Known sensitive ecological features would be clearly marked (e.g., wetlands and significant wildlife habitat) with associated setbacks.	Section 3.5.1; Section 6.1; Section 6.3; Section 7.4
P1-EA-062	Wataynikaneyap understands that additional engagement may be required to complete permitting requirements and commits to undertake any required engagement for the permit.	Section 3.5.1.2
P1-EA-063	Decommissioning of temporary locations is likely to occur as soon as practicable following ceased use of the location.	Section 3.5.1.2
P1-EA-064	Any field servicing will be conducted a minimum of 30 m from any waterbody or wetland, unless otherwise approved or in the event of an emergency.	Section 3.5.2
P1-EA-065	Emergency maintenance will be carried out in the most time sensitive manner while recognizing the need to notify landowners and acquire the necessary permits, if required. Spare parts and poles will be stored in case emergency maintenance is required. The quantity of this material and storage location will be determined by the operator.	Section 3.5.2
P1-EA-066	Equipment maintenance will be conducted in accordance with manufacturer's requirements and will be completed on-site. All maintenance and repair activities will be undertaken in compliance with applicable environmental rules and regulations.	Section 3.5.2
P1-EA-067	Maintenance activities will include regular inspection of the transmission line and associated infrastructure, and any necessary repairs and mechanical vegetation management along the 40-m-wide transmission line alignment ROW. All operation and maintenance activities will be conducted in accordance with permits and regulations.	Section 3.5.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-068	The electrical equipment and facility systems will be remotely monitored and controlled using a Supervisory Control and Data Acquisition (SCADA)/Operational Data System.	Section 3.5.2
P1-EA-069	The transmission line will be designed and constructed to minimize corona noise by proper selection of the conductor and associated hardware (CSA-C108.3.1 – Limits and Measurements Method or Electromagnetic Noise from AC Power System). Interference complaints from the public will be tracked and investigated by Wataynikaneyap, and repairs will be made as needed to resolve the interference.	Section 3.5.2
P1-EA-070	The 40-m-wide transmission line alignment ROW will be patrolled once each year to identify any trees that could pose a risk to the line. Annual patrols will make sure that trees that could grow into or fall into the line are identified and removed or pruned before they could cause a potential power outage.	Section 3.5.2
P1-EA-071	The transmission line will be inspected on a semi-annual to annual basis. Typically, these inspections will be completed using a helicopter but some inspection will be undertaken using the available access roads and trails.	Section 3.5.2
P1-EA-072	The TS and CF will undergo a visual inspection program that will include monthly site visits, a detailed annual visual inspection and thermography to identify heated elements. Breakers will undergo a number of tests on a regular interval of approximately four to six years that include timing checks, micro-ohm test, SF6 quality and operating mechanism diagnostics and test operations. The frequency of testing may vary depending on the practices of the transmitter or as regulatory requirements change. Switches will be test operated with timing checks on an approximately five year interval. The transformer will require oil and gas testing annually and electrical testing on an approximately six year interval.	Section 3.5.2
P1-EA-073	Mechanical vegetation management will commence within the first three years of commissioning the transmission line, and will be conducted every five to eight years during Project operation, or as required for safety purposes. The timing for mechanical vegetation management will also be dependent on the conditions within the 40-m-wide transmission line alignment ROW such as terrain, vegetation type and the management techniques chosen.	Section 3.5.2
P1-EA-074	Vegetation that exceeds 2 m in height at maturity along the 40-m-wide transmission line alignment ROW will be removed or pruned because it could encroach on the transmission line clearance and could affect maintenance crew access. Vegetation will be controlled by manual cutting. Mechanical vegetation management will also be applied at the CF and TS, as required.	Section 3.5.2; Section 7.5

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-075	Waste oil will be collected and stored in drums (clearly marked as waste oil) inside a dyked area and will be regularly shipped for disposal. Waste oils, lubricants and other used oil will be disposed of at authorized disposal sites.	Section 3.5.2
P1-EA-076	The Project is predicted to be operated for an indeterminate time period and retirement (or decommissioning) is not anticipated. Should decommissioning activities eventually be considered for some or all Project components, decommissioning will be planned and conducted in accordance with the relevant standards and regulatory requirements of the day. This will include the development of a decommissioning plan that considers environmental planning and impact management measures, socio-economic impact management measures, and public health and safety procedures. A decommissioning plan will be submitted to the relevant regulatory authorities for approval prior to implementation.	Section 3.5.3
P1-EA-077	Project personnel will receive applicable training in health and safety and emergency response. Wataynikaneyap will identify potential safety, health and environmental concerns related to all Project stages. Prevention measures and response procedures will be described in a Health and Safety Plan and a Spill Prevention and Emergency Response Plan (Section 9.3.1.13).	Section 3.6.1 Section 7.3
P1-EA-078	The design, construction, operation and decommissioning of the proposed 230 kV transmission line shall not adversely affect the safety, operation or usability of the Pickle Lake Airport. In order to achieve the above the detailed design and surveys may revise the 40-m-wide transmission line alignment ROW within the 2-km-wide corridor.	Section 3.6.2
P1-EA-079	The following forms will be completed prior to the construction and operation and maintenance stages: <ul style="list-style-type: none"> ■ NAV CANADA Land Use Proposal Submission Form; and ■ Transport Canada Obstruction Clearance Form. 	Section 3.6.2
P1-EA-080	The following stakeholders will be engaged during detailed design of the transmission line: the Ontario Ministry of Transportation as the Airport owner/operator; NAV CANADA as the authority responsible for air navigation; and Transport Canada as the regulatory authority.	Section 3.6.2
P1-EA-081	The transmission line will be designed, constructed, and maintained in accordance with the Ontario <i>Occupational Health and Safety Act, 1990</i> (Government of Ontario 1990) and other relevant regulations (codes and standards stated above), which establishes clearances from other man-made and natural structures as well as tree-trimming requirements to reduce or avoid fire hazards and associated accidents.	Section 3.6.3 Section 7.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-082	Wataynikaneyap will maintain the 40-m-wide transmission line alignment ROW and immediate area in accordance with existing regulations and accepted industry practices that will include identification and abatement of any fire hazards.	Section 3.6.3 Section 7.3
P1-EA-083	Wataynikaneyap will be required to comply with <i>Occupational Health and Safety Act, 1990</i> (Government of Ontario 1990) and any other provincial safety requirements. Wataynikaneyap will also be required to have a Health and Safety Plan in place.	Section 3.7 Section 7.3
P1-EA-084	To the extent possible, Wataynikaneyap will source the workforce locally for the construction of the Project. Staffing for the Project will be the responsibility of Wataynikaneyap. If the necessary labour skills for construction cannot be sourced locally, labour will need to be sourced from other areas in Ontario or outside of Ontario, if required. However, opportunities for employment of nearby residents are possible if the appropriate training and qualifications are obtained in time to meet the construction schedule.	Section 3.7.1
P1-EA-085	Wataynikaneyap will adhere to all required permits and other authorizations that are required for Project construction and operation and maintenance.	Section 3.9
P1-EA-086	Wataynikaneyap will be continuing with its technical analysis during detailed design of the selected preferred transmission corridor.	Section 3.9
P1-EA-087	Monitoring of surface water quantity and quality parameters at water taking or discharge locations to satisfy the conditions/requirements of water discharge plans related to applicable PTTWs, ECAs or EASR.	Section 5.1
P1-EA-088	Monitoring of turbidity and/or TSS, and streamflow rates will be carried out on a twice annual basis at new and permanent waterbody crossings during the early stages of the operation and maintenance stage (to verify the effectiveness of reclamation measures). To the extent possible, the monitoring will be carried out during a period of high flows (e.g., spring) and low flows (e.g., mid- to late summer) in an effort to assess water quality conditions under a wide range of flow conditions.	Section 5.1
P1-EA-089	Monitoring of turbidity and/or TSS, coupled with monitoring of streamflow rates and/or water levels, at all waterbody crossings targeted for in stream works during construction to verify effectiveness of construction procedures and impact management measures including dam and pump/diversion activities associated with the removal and/or installation of temporary or permanent crossing structures.	Section 5.1
P1-EA-090	Monitoring/inspections of all erosion and sediment management measures, bank stabilization features and coffer dams during construction to verify effectiveness.	Section 5.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-091	Monitoring/inspections of all new permanent waterbody crossing structures and roadside drainage features (on a twice annual basis for the first two years following post-construction and then annually thereafter) for physical function and condition.	Section 5.1
P1-EA-092	Water taking will be in compliance with O. Reg. 387/04 as amended by O. Reg. 64/16 (pertaining to permits, data and reporting, and water transfers), where applicable, and good industry practice.	Section 5.1
P1-EA-093	Wataynikaneyap with their contractor(s) will prepare and implement a Blasting Management Plan that describes specific measures that would be implemented if blasting is required. An overview of this plan is provided in Section 9.3.1.15.	Section 5.1; Section 5.2; Section 6.2; Section 7.6
P1-EA-094	Wataynikaneyap with their contractor(s) will prepare and implement Waste Management Plans (Sections 9.3.1.10, 9.3.1.11, and 9.3.1.12) that describe the appropriate management of solid, liquid and hazardous waste, including: <ul style="list-style-type: none"> ■ construction related garbage, debris, and surplus materials; ■ hazardous materials such as used oil, filter and grease cartridges, lubrication containers; and ■ domestic garbage and camp waste (i.e., food and grey water) 	Section 5.1; Section 5.2; Section 6.3; Section 7.3; Section 7.6
P1-EA-095	Temporary construction camps, laydown areas and other Project activities will be located a minimum of 30 m away from the ordinary high water mark of a waterbody.	Section 5.1; Section 6.2
P1-EA-096	Multi-stage drainage and sediment controls to collect and treat stormwater runoff from Project components will be employed at work sites as appropriate.	Section 5.1;
P1-EA-097	Removed vegetation will be immediately transported outside a waterbody buffer zone (30 m), and above its high water mark.	Section 5.1; Section 7.6
P1-EA-098	Temporary access roads and trails, construction camps, turn-around areas, waterbody crossings, and temporary laydown areas will be reclaimed at the end of construction.	Section 5.1; Section 6.1; Section 6.2; Section 6.3; Section 7.5
P1-EA-099	Re-fueling, service and maintenance of vehicles and equipment will generally be carried out in designated areas at temporary construction camps and temporary laydown areas a minimum of 30 m from waterbodies. Designated areas will be designed and constructed to collect and contain minor leaks and spill. Appropriate practices will be employed to prevent minor leaks and spills. If re-fueling within 30 m of a waterbody cannot be avoided, a spill prevention plan will be implemented.	Section 5.1; Section 6.2; Section 7.6

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-100	Have equipment for containing spills on-site. Spill response kits will be provided in fuel and hazardous materials storage and handling facilities at temporary construction camps and temporary laydown areas, in on-site work areas and/or in vehicles and equipment, and personnel will be trained in spill response practices and procedures. Spills and leaks will be contained and cleaned up as soon as possible following incidents.	Section 5.1; Section 6.2; Section 6.3; Section 7.6
P1-EA-101	Stripped soil will be stored outside waterbody buffers. Stripped soils will not be placed in surface drainage channel or wetland.	Section 5.1; Section 7.6
P1-EA-102	Temporary waterbody crossings will be reclaimed at the end of construction. The reclamation will involve removal of temporary waterbody crossing structures (if constructed), restoration and stabilization of waterbody banks, and other disturbed areas when the crossing is no longer required.	Section 5.1; Section 6.2; Section 7.6
P1-EA-103	Vehicle speeds at work sites and on access roads will be limited.	Section 5.1; Section 7.6; Section 6.3
P1-EA-104	Vehicles and equipment will be regularly serviced, maintained and inspected for leaks.	Section 5.1; Section 5.3; Section 6.3; Section 7.6
P1-EA-105	Wash water will be collected in closed-loop recycle systems, or contained and hauled to existing municipal Waste Water Treatment Plants (WWTPs).	Section 5.1; Section 7.6
P1-EA-106	Wataynikaneyap with their contractor(s) will prepare and implement a Spill Prevention and Emergency Response Plan (Section 9.3.1.13) that describes specific measures that would be implemented if a spill occurred.	Section 5.1; Section 5.2; Section 6.2; Section 6.3
P1-EA-107	Machinery and equipment is to arrive on site in a clean condition and will be inspected and maintained routinely to avoid fluid leaks.	Section 5.1; Section 6.2; Section 6.3;
P1-EA-108	Fuel and hazardous materials will be transported in approved containers in licensed vehicles.	Section 5.1; Section 7.3; Section 7.6
P1-EA-109	Aggregate will be sourced from local First Nation owned quarries or gravel pits; however if local pits are not available then borrow pits may be required at a few locations along the transmission corridor and/or purchased from local suppliers. If required, all borrow pits will be identified, established and decommissioned in accordance with applicable regulatory requirements.	Section 5.1; Section 7.6

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-110	Install, monitor, and manage appropriate erosion and sedimentation control measures to minimize or avoid sediment mobilization to drainages, or waterbodies. Adequate and appropriate erosion and sedimentation control materials shall be on-site and available prior to commencement of construction.	Section 5.1 Section 6.2; Section 7.4; Section 7.6
P1-EA-111	Temporary construction camps are anticipated to be located in communities with existing wastewater collection and disposal systems.	Section 5.1; Section 7.6
P1-EA-112	Construction water will be discharged in compliance with O. Reg. 387/04 as amended by O. Reg. 64/16 and/or O. Reg. 63/16 where applicable, and good industry practice.	Section 5.1; Section 7.6
P1-EA-113	Disturbed areas will be stabilized (e.g., cover exposed areas with erosion control blankets or tarps to keep the soil in place and prevent erosion). Such areas will be covered with mulch to prevent erosion.	Section 5.1; Section 6.1; Section 7.6
P1-EA-114	Domestic effluent will be removed from temporary construction camps by approved disposal trucks and disposed of at municipal wastewater treatment plants with authorization and capacity to accept this waste.	Section 5.1; Section 7.3; Section 7.6
P1-EA-115	Dust control practices (e.g., wetting with water) will be employed at concrete batch plants, work sites and on access roads near residential areas.	Section 5.1; Section 5.3; Section 7.6
P1-EA-116	Wataynikaneyap will use explosives if excavation to remove materials for foundation systems and roads is not feasible.	Section 5.1; Section 5.2; Section 6.2; Section 6.3; Section 7.6
P1-EA-117	Wataynikaneyap will work with both Aboriginal communities and forest management units to manage merchantable timber cleared by the Project.	Section 3.5.1 Section 5.1; Section 6.1; Section 7.4; Section 7.6; Section 8.0
P1-EA-118	Multi-passenger vehicles will be used to transport personnel, where practical.	Section 5.1; Section 5.3; Section 5.4; Section 6.2; Section 7.3; Section 7.6
P1-EA-119	For vehicles and equipment owned/rented by Wataynikaneyap only properly functioning vehicles and equipment will be operated.	Section 5.1; Section 7.6
P1-EA-120	Personnel will be trained in proper solid waste handling and management procedures.	Section 5.1; Section 7.6

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-121	Personnel will be trained in spill avoidance, clean-up and reporting procedures.	Section 5.1; Section 7.6
P1-EA-122	Progressive reclamation of disturbed areas will be practised. Natural recovery is the preferred method over seeding of reclamation on level terrain where erosion is not expected. If seeding is required, seed erosion prone areas with a native cover crop and certified seed mix approved by the applicable regulatory agency, as soon as feasible after construction. Seeding will follow as close as possible to final cleanup and topsoil material replacement pending seasonal or weather conditions.	Section 5.1; Section 5.2; Section 6.1; Section 6.3; Section 7.4; Section 7.6; Section 8.8
P1-EA-123	Slash and debris will be chipped and spread over the ROW, or will be burned accordance with provincial Forest Fires Prevention Act and in compliance with O. Reg. 207/96.	Section 5.1; Section 7.6
P1-EA-124	Soil and aggregate materials will be transported wetted or under cover.	Section 5.1; Section 7.6
P1-EA-125	Soil stockpiles will be vegetated, where appropriate (e.g., if soils are prone to wind erosion).	Section 5.1.6; Section 6.3; Section 7.3; Section 7.6
P1-EA-126	Solid waste handling and storage facilities at construction camps will be provided with drainage controls.	Section 5.1; Section 7.6
P1-EA-127	Solid waste handling and storage facilities at construction camps will be sited outside a minimum 30 m buffer around waterbodies.	Section 5.1; Section 7.6
P1-EA-128	Solid waste will be managed and disposed of in compliance with O. Reg. 347 as amended by O. Reg. 86/16 under the <i>Environmental Protection Act</i> .	Section 5.1; Section 7.6
P1-EA-129	Temporary laydown areas and construction camps will be constructed on existing disturbed areas and/or at reasonably flat areas with stable soil sites, where possible.	Section 5.1; Section 7.6
P1-EA-130	Topsoil handling will be suspended during high wind conditions, where practical and as required.	Section 5.1; Section 7.6
P1-EA-131	Vegetation will be managed according to clearance-to-ground levels to allow for increased vegetation height.	Section 5.1; Section 7.6
P1-EA-132	Waterbody crossings will be designed and constructed in accordance with the MNR's Environmental Guidelines for Access Roads and Water Crossings (1990).	Section 5.1; Section 6.2; Section 7.6
P1-EA-133	Waterbody crossings will be constructed in compliance with MNR regulatory permits and approvals, as applicable	Section 5.1; Section 6.2
P1-EA-134	Waterbody crossings will be designed and constructed in compliance with O. Reg. 180/06 as amended by O. Reg. 63/13 and O. Reg. 454/96, as applicable.	Section 5.1; Section 7.6

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-135	Ammonium nitrate and fuel oil will not be used. Explosives will be in emulsion form, to mitigate potential dissolution and poor explosive performance in the presence of water, noting that emulsion type explosives are highly water resistant.	Section 5.1
P1-EA-136	Blasting wastes may include discarded explosives and packaging containing chemical residues (classified as hazardous wastes), as well as waste rock. Discarded explosives will either be detonated on-site as part of the blast with explosives packaging on a day-to-day basis, or temporarily stored in the explosives magazine and returned to the explosives distributor. With the application of proper loading techniques, waste rock is expected to be free of residues and will be disposed of by spreading it over the preferred corridor ROW.	Section 5.1
P1-EA-137	Where applicable, treatment and disposal of wastewater from any such concrete batch plants will be in compliance with ECAs issued by the MOECC under the <i>Environmental Protection Act</i> .	Section 5.1; Section 7.3
P1-EA-138	Domestic wastewater from construction camps and work sites will be disposed of in one of two ways. Wastewater from toilets at construction camps and portable sanitation facilities at work sites will be collected in approved vehicles and hauled to existing municipal WWTPs authorized to accept this type of waste. Greywater will be discharged to leaching beds constructed at the construction camps, approved under the Ontario Building Code 2012. The treatment unit (e.g., septic tank system) shall be connected to a leaching bed constructed in accordance with the requirements of Section 8.7 of the Ontario Building Code. In compliance with the Code, leaching beds will be sited a minimum of 15 m away from any waterbody.	Section 5.1
P1-EA-139	If a PTTW is required for construction dewatering, Wataynikaneyap Power LP (Wataynikaneyap) will plan and execute water taking and discharge activities to avoid adverse environmental effects or interference with other water users. Water taking plans will be developed that consider the quantity, timing and location of water discharges, water quality conditions, and erosion and sedimentation processes/controls at the point of water return. If an Environmental Compliance Approval (ECA) is required, Wataynikaneyap will plan and execute the discharge of water from sewage works in accordance with the <i>Environmental Protection Act</i> .	Section 5.1
P1-EA-140	If the total of groundwater and stormwater taken for construction dewatering amounts to 50,000 L/d or less, Wataynikaneyap will, at a minimum, discharge via a filter bag to a vegetated area at least 30 m away from any waterbody or where not possible at the greatest distance possible.	Section 5.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-141	Portable, secure, solid waste receptacles will be provided on work sites, temporary laydown areas and temporary construction camps and periodically emptied.	Section 5.1; Section 7.6
P1-EA-142	Explosives will be transported in vehicles with valid Natural Resources Canada (NRC) permits, and stored in properly sited and secured magazines licensed by the NRC.	Section 5.1
P1-EA-143	Wash water from cleaning concrete mixing equipment and delivery systems, as well as vehicles and equipment, will be collected in closed-loop recycle systems, or contained and hauled to an existing municipal wastewater treatment plant (WWTP). Closed-loop recycle systems will be non-discharging systems where wash water is recycled until a certain level of contamination is reached, when it will be disposed of to an existing municipal WWTP. Wash water will be passed through a treatment system (e.g., an oil-water separator fitted with a grit-settling chamber) prior to reuse. Separated solids will be tested, and contaminated material will be temporarily stored in containers, then hauled and disposed of at an approved landfill.	Section 5.1
P1-EA-144	Wataynikaneyap will employ only qualified persons, with appropriate training and experience, to carry out the transportation and handling of explosives. Good housekeeping practices will be observed during loading of explosives with a plan to immediately clean up spills and detonate in the blast. Proper loading techniques will be applied to minimize the use of excess explosives and the potential for spillage. Waste rock (from the construction of tower foundations) and aggregates (from quarrying activities) are expected to be free of blasting residues.	Section 5.1
P1-EA-145	Water taking for construction dewatering purposes between 50,000 L/d and 400,000 L/d will be registered on the Environmental Activity and Sector Registry (EASR), recognizing that the following conditions will be satisfied to minimize the effects of discharge waters on the surface water environment: <ul style="list-style-type: none"> ■ a discharge plan will be prepared by a qualified person; ■ the discharge plan will identify appropriate erosion sedimentation control measures; ■ there will be no visible petroleum hydrocarbon film or sheen present in the water; and ■ water will be discharged to an approved sewage works, a municipal sanitary or storm sewer, or to land. 	Section 5.1
P1-EA-146	Minimize dust-generating activities, as practical and where required, during periods of high wind to limit dust emissions and spread.	Section 5.1; Section 5.3; Section 6.2; Section 7.6

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-147	Access roads and waterbody crossings will be constructed in accordance with MNR's Environmental Guidelines for Access Roads and Water Crossings (1990), where feasible. The Ontario Ministry of Natural Resource and Forestry provides comprehensive guidance with respect to sound design and construction practices to mitigate environmental effects. Where applicable, waterbody crossings will also be constructed in compliance with MNR's approvals issued under O. Reg. 454/96 and the Lakes and Rivers Improvement Act. In accordance with these approvals, Wataynikaneyap will be required to complete construction along waterbody shorelines as well as in-water works in a manner that minimizes adverse environmental effects such as increased flooding, waterbody and shoreline erosion, and sediment loads.	Section 5.1
P1-EA-148	Carrying out construction activities without any permanent in-water works or fording (no alteration of the bed of the watercourses) are anticipated;	Section 5.1
P1-EA-149	Clearing of the 40-m-wide transmission line alignment ROW will take into consideration: <ul style="list-style-type: none"> ■ widths of watercourses; ■ location of wetlands; ■ locations of known archaeological and heritage sites; ■ areas of timber storage and the method of cutting and storing timber; and ■ required buffer zones (e.g., for watercourses). 	Section 5.1
P1-EA-150	Constructing waterbody crossings in compliance with MOECC specified conditions and MNR's approvals, if required.	Section 5.1
P1-EA-151	Constructing waterbody crossings over a relatively short time period, and under low water conditions (during the winter and/or summer seasons) where possible.	Section 5.1
P1-EA-152	Designing the infrastructure at waterbody crossings to pass peak flows and maintain sufficient flow conveyance in such a way that no discernible effects on stream hydraulics occur;	Section 5.1
P1-EA-153	Limiting the number of waterbody crossings installed simultaneously on a single waterbody, where more than one waterbody crossing on the waterbody is required;	Section 5.1; Section 6.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-154	<p>The amended regulation also provides exemption, under specified conditions, for active dewatering for construction, repair, alteration, extension or replacement of a waterbody crossing (i.e., the diversion of water by means of a pump). EASR registration or the requirement for a PTTW will not be required for these activities, recognizing the following conditions (and others) will be met to minimize the potential environmental effects:</p> <ul style="list-style-type: none"> ■ water pumped from the waterbody will be returned to the same waterbody at a location immediately downstream of the construction area; ■ measures will be implemented to control the rate of water taking and the flow rate of the returned water to minimize changes to water quantity and quality conditions upstream or downstream of the work area; and ■ erosion and sediment control measures will be used to during the return of the water to the waterbody to minimize changes to water quantity and quality conditions downstream of the work area. 	Section 5.1
P1-EA-155	<p>The amended regulation clarifies that the passive diversion of water in a waterbody, for the purpose of creating or maintaining a dewatered work site within the waterbody, is not considered a water taking and therefore does not require registration on the EASR or a PTTW if the activity meets the following conditions:</p> <ul style="list-style-type: none"> ■ the water levels upstream and downstream of the work area are not affected by the diversion; and ■ the water that is diverted is not removed from the waterbody, or the water is removed from the waterbody without the use of a pump and is returned to the same waterbody. 	Section 5.1
P1-EA-156	<p>The 40-m-wide transmission line alignment ROW preparation will be carried out in accordance with standard utility practices and procedures and will involve the mechanical clearing of all incompatible vegetation that exceeds 2 m at maturity.</p>	Section 5.1
P1-EA-157	<p>Overall, water taking for construction purposes will be in compliance with the applicable legislation and regulations and good industry practice, while water taking for domestic purposes will be from existing permitted sources.</p>	Section 5.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-158	Water taking for other construction purposes (e.g., to supply concrete batch plants, for earthworks and for washing vehicles and equipment) will be in compliance with the approval conditions of the PTTW (if the water taking is greater than 50,000 L/d) and/or carried out in a manner that avoids unacceptable adverse environmental effects or interference with other water users. Construction water sources and volume of water for concrete production is not known at this stage of Project planning, but will be conducted in accordance with applicable regulatory requirements. Water used for dust suppression will be brought to the site by tanker truck.	Section 5.1
P1-EA-159	Water taking for the purposes of road construction and construction site dewatering will be registered on the EASR, assuming that the water taking is greater than 50,000 litres per day (L/d), the source waterbody represents one of the applicable surface water features (i.e., permanent and third order watercourse or greater, a lake with a surface area greater than ten hectares (ha), or a pond that it is not connected to watercourse), and the following conditions are met: <ul style="list-style-type: none"> ■ the instantaneous rate of water taking from a watercourse will not exceed five per cent of the streamflow rate at the point of water taking; and ■ water taking will not involve a transfer from a water basin. 	Section 5.1
P1-EA-160	Where disturbed and exposed areas are externally draining, multiple stages of drainage, erosion and sediment controls will be employed, as appropriate, consistent with good industry practice. Controls may include seeding, surface roughening (scarification), lockdown netting, straw bales, straw and/or wood fibre logs, rock check dams, silt fences, sediment traps/basins, diversion swales/dykes and collection ditching. Similar to the clearing of vegetation, earthworks will take into consideration buffer zones around waterbodies where feasible. Re-vegetation of work areas will be initiated at the first opportunity, where appropriate, to stabilize disturbed and exposed ground.	Section 5.1
P1-EA-161	Engagement with nearby water well owners that could be affected during pumping. If issues arise, determine the source of the issue and, if Project related, take appropriate action.	Section 5.2
P1-EA-162	Minimize Project footprint.	Section 5.2
P1-EA-163	Remove temporary road building material and fill material (e.g., gravel, shipped rock) and geotextile membrane after construction, if used.	Section 5.2
P1-EA-164	Some fractures created from blasting adjacent to the foundation may be filled with grout.	Section 5.2
P1-EA-165	To the extent practical blasting will not be conducted within 50 m of water wells.	Section 5.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-166	De-compact subsoils, temporary access trails and soils damaged during wet weather.	Section 5.2; Section 6.1
P1-EA-167	Selectively cut vegetation and restrict grubbing within areas with steep slopes or soils with risk of erosion.	Section 5.2; Section 6.1
P1-EA-168	Use clearing equipment that minimizes surface disturbance, soil compaction and topsoil loss (e.g., equipment with low ground pressure tracks or tires, blade shores and brush), where feasible.	Section 5.2; Section 6.1
P1-EA-169	A Phase I Environmental Site Assessment (ESA) was completed at the proposed Pickle Lake TS location that is suspected of having contamination issues. Based on the results of the Phase I ESA, a Phase II ESA was completed. Wataynikaneyap is currently considering a course of action regarding the TS location. Once the location is confirmed, Wataynikaneyap will engage with agencies, potentially effects Aboriginal communities and interested stakeholders. The proposed location will avoid, to the extent possible, sensitive environmental features.	Section 5.2; Section 7.6
P1-EA-170	Use of explosives for foundation excavations and access roads will be limited to the extent possible.	Section 5.2; Section 7.6
P1-EA-171	If groundwater contamination is identified during construction then an investigation will be completed and the water will be managed and disposed of as per appropriate regulations and the ESMP (Section 9.0).	Section 5.2; Section 7.6
P1-EA-172	If water withdrawal or dewatering is required to install foundations and anchors or for any minor batch plant operations, obtain a permit to take water from MOECC if more than 50,000 L/d is to be withdrawn.	Section 5.2; Section 7.6
P1-EA-173	Well water will be tested before being used at temporary construction camps.	Section 5.2; Section 7.6
P1-EA-174	Dewatering of an excavation for a concrete foundation could require a pumping rate of approximately 43,000 L/day based on these conservative assumptions. A more detailed assessment of the requirements for concrete foundations can be made once the geotechnical investigation is completed.	Section 5.2
P1-EA-175	Prior to construction, Wataynikaneyap will identify shallow domestic groundwater well owners within 120 m of the excavations in the selected corridor and 250 metres of blasting locations to provide the option to participate in a water well monitoring program to determine pre-construction groundwater quality and quantity.	Section 5.2
P1-EA-176	There may be surface water and natural environment features located directly adjacent to the construction camps that may be affected by a change in the groundwater table. The construction camp water wells may need to be located outside the camp footprint to be sufficiently far away from these features.	Section 5.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-177	Filling of drilled or blasted holes with grout is proposed on a case-by-case basis to mitigate this effect. This may lead to some penetration of the grout into cracks, which may seal fractures that were previously open to groundwater flow.	Section 5.2
P1-EA-178	The potential receptors located within 100 m of the Project footprint of the preferred corridor will be verified for the air quality assessment and if confirmed, removed as a receptor as part of the Project detailed design.	Section 5.3
P1-EA-179	Wataynikaneyap with their contractor(s) will prepare and implement a Dust/Air Quality Management Plan prior to construction. An overview of this plan can be found in Section 9.3.1.1	Section 5.3; Section 6.2; Section 7.3; Section 7.4; Section 7.6
P1-EA-180	Where reasonable and practical, vehicles and equipment will be turned off when not in use, unless weather and/or safety conditions dictate the need for them to remain turned on and in a safe operating condition.	Section 5.1; Section 5.3; Section 5.4; Section 5.5; Section 6.2; Section 7.3; Section 7.4; Section 7.6
P1-EA-181	Slash pile burning will be subject to agreements with Aboriginal communities, landowners, and to permits and approvals by appropriate regulatory agencies. Slash piles will be burned in compliance with O. Reg. 207/96.	Section 5.3; Section 5.4; Section 7.6
P1-EA-182	This regulation aligns engine certification values to those of U.S. EPA Tier 2, Tier 3 and Tier 4 standards (US EPA 2010). Vehicle exhaust emissions were conservatively prepared, assuming vehicles comply with U.S. EPA Tier 3 emission standards. Tier 3 emission standards are the minimum emission standards that vehicle exhausts are required to meet in Ontario on equipment purchased after 2010. New equipment is typically designed to meet more stringent Tier 4 emission standards that can be less than 10% of Tier 3 emission standards.	Section 5.3
P1-EA-183	Wataynikaneyap will keep equipment well-maintained to maximize fuel efficiency.	Section 5.4
P1-EA-184	Wataynikaneyap with their contractor(s) will prepare and implement a Greenhouse Gas Management Plan (Section 9.3.1.2) prior to construction	Section 5.4
P1-EA-185	Due to the sound characteristic expected with an implosion cable splicing method (i.e., impulsive) additional advance communication and necessary approvals with regard to the cable splicing schedule shall be provided to potentially effected residents.	Section 5.5; Section 7.6

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-186	In jurisdictions where noise levels are expected to be elevated for a limited time, notification will be provided (e.g., by mail).	Section 5.5
P1-EA-187	Notify Aboriginal communities and municipalities along the corridor of the planned construction schedule before the start of construction.	Section 5.5; Section 7.4; Section 7.6; Section 8.8
P1-EA-188	Wataynikaneyap or their contractor will check that noise abatement equipment on machinery is properly maintained and in good working order.	Section 5.5; Section 7.3; Section 7.4; Section 7.6
P1-EA-189	Comply with local municipal noise by-laws and the MOECC Model Municipal Noise Control Bylaw (i.e., NPC-115).	Section 5.5; Section 7.3; Section 7.4; Section 7.6
P1-EA-190	Address noise concerns as they arise through a complaint resolution mechanism (Section 9.4.4.2) whereby persons can contact Wataynikaneyap with their contractor(s) if there are perceived noise issues.	Section 5.5; Section 7.3; Section 7.4; Section 7.6; Section 8.8
P1-EA-191	Design access roads to minimize reversing, which is expected to minimize use of backup beepers where possible.	Section 5.5; Section 7.3; Section 7.4; Section 7.6
P1-EA-192	Operate vehicles and equipment such that impulsive noise are minimized, where possible.	Section 5.5; Section 7.3; Section 7.4; Section 7.6
P1-EA-193	Transformer station and connection facility will operate in accordance with an Environmental Compliance Approval or EASR, as applicable	Section 5.5; Section 7.6
P1-EA-194	Wataynikaneyap with their contractor(s) will prepare and implement a Noise Management Plan prior to construction. An overview of this plan is provided in Section 9.3.1.3.	Section 5.5; Section 7.3
P1-EA-195	Construction blasting is normally carried out in compliance with the Ontario Provincial Standard Specification 120 (OPSS 120). The OPSS 120 details items such as vibration limits, protective measures, pre-blast surveys and notification to nearby owners and tenants. All blasts, which might impact local structures or disrupt humans, should be monitored for ground and air vibrations. In order to mitigate the impact from airborne debris (flyrock), blasts should be covered with blasting mats. Blasts carried out in compliance with the OPSS 120 are expected to prevent damage to structures and result in negligible, if any, impact on humans.	Section 5.5

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-196	Install a 5 m tall noise barrier, or acoustically equivalent, on the north and west sides of the transformer station.	Section 5.5
P1-EA-197	Allow compatible vegetation in the ROW, including in riparian areas, to grow back to a maximum height of 2 m	Section 6.1
P1-EA-198	Avoid burning slash piles when a fire hazard is present.	Section 6.1
P1-EA-199	Avoid locating slash burn piles in peat rich areas where residual fires could persist after construction.	Section 6.1
P1-EA-200	Consider propagating species or component species, in the case of rare vegetation communities, via vegetative or reproductive means (e.g., harvesting of seed, salvaging and transplanting portions of sod and surrounding vegetation or collecting of cuttings).	Section 6.1
P1-EA-201	If construction cannot avoid wetlands and 30 m setback, MNRF will be notified as soon as possible. Work may not be conducted unless approval is obtained from the appropriate regulatory agencies.	Section 6.1
P1-EA-202	If timber and brush are disposed of by mechanical means (i.e., mulching or chipping), the material must be dispersed in a way to avoid accumulation of flammable material and comply with the <i>Forest Fires Prevention Act</i> .	Section 6.1
P1-EA-203	<p>Wataynikaneyap with their contractor(s) will prepare and implement the Invasive Species Management Plan (Section 9.3.1.7), that describes the appropriate management of construction materials and equipment to prevent the infiltration and spread of weeds, including:</p> <ul style="list-style-type: none"> ■ cleaning and inspection of vehicles and equipment prior to Project site entry; ■ re-cleaning vehicles and equipment if an area of weed infestation is encountered on the Project Site (i.e., Project footprint), prior to advancing to a weed free area; ■ locating and management of vehicle and equipment cleaning locations on the Project footprint; and ■ for areas requiring re-vegetation following the completion of the Project, use seed mixes and/or tree saplings of native species of plants which are adapted to the local climate and conditions that will further enhance the plant community. 	Section 6.1; Section 6.3
P1-EA-204	Wataynikaneyap will prepare the Rare Plant Management Plan (9.3.1.6). In the event a rare plant species or a rare vegetation community are suspected or encountered unexpectedly, or cannot be avoided, the Rare Plant Management Plan will be implemented.	Section 6.1; Section 6.3
P1-EA-205	Limit to the extent practical the construction of temporary (e.g., access road, travel lane) and permanent (tower foundations) structures in wetlands or within 30 m setback from a wetland.	Section 6.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-206	Minimize disturbance to and access restrictions on trapping and hunting areas where possible during the construction stage and during the infrequent periods for operation and maintenance activities for safety reasons.	Section 6.1; Section 6.2; Section 6.3; Section 8.0
P1-EA-207	Minimize burning of slash piles within 100 m of a waterbody to the extent practical.	Section 6.1
P1-EA-208	On Crown land, allow for natural regeneration or use certified native seed in engagement with appropriate Land Administrator.	Section 6.1
P1-EA-209	Proposed locations of temporary construction camps and laydown areas will be field-verified to avoid wetlands including bogs and fens, where feasible. Where possible, schedule work activities in wet areas during frozen conditions.	Section 6.1
P1-EA-210	Retain snags (i.e., standing or partially fallen dead trees) to provide wildlife habitat, where practical.	Section 6.1
P1-EA-211	Selective clearing and retention of shrub vegetation, trees, wildlife trees, and coarse woody debris in environmentally sensitive areas as much as practicable.	Section 6.1
P1-EA-212	Strip the topsoil at burn locations to prevent sterilization of the soil.	Section 6.1
P1-EA-213	Under non-frozen conditions and where regulatory approvals allow, install mats (e.g., rig mats, swamp mats or access mats) to limit effects to waterbodies and wetlands, if warranted and surface conditions require.	Section 6.1
P1-EA-214	Use natural recovery in wetlands.	Section 6.1
P1-EA-215	When required, follow the appropriate impact management measures listed in the Soil Handling Management Plan (Section 9.3.1.4).	Section 6.1
P1-EA-216	Re-contour disturbed areas to restore drainage patterns and the approximate preconstruction profile.	Section 6.1; Section 6.2
P1-EA-217	Wataynikaneyap with their contractor(s) will implement an Invasive Species Management Plan (Section 9.3.1.7) to avoid and minimize the introduction and spread of noxious and invasive plants during construction and operation and maintenance as a result of the Project, which will include an annual monitoring program for 3 years to identify and prioritize weeds for removal.	Section 6.1; Section 6.3
P1-EA-218	Erosion and sedimentation will be minimized in critical LV associations (e.g. alluvial/fluvial soils).	Section 6.1
P1-EA-219	A vegetated buffer will be maintained around critical LV associations (e.g. alluvial/fluvial soils).	Section 6.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-220	Construct waterbody crossings in consideration of DFO's Measures to Avoid Causing Harm to Fish and Fish Habitat Including Aquatic Species at Risk (DFO 2016a), MNRF's Environmental Guidelines for Access Roads and Water Crossings (1990), and Forest Management Guide for Conserving Biodiversity at the Stand and Site Scales (2010a), and its associated Background Rationale document (2010b).	Section 6.2
P1-EA-221	Avoid bank grading to accommodate temporary bridges where possible. Restrictions on grading may be required as part of waterbody crossing permits.	Section 6.2
P1-EA-222	Avoid construction during a fish and fish habitat restricted activity timing window. Work may not be conducted during the restricted activity timing window, or within a setback unless approval is obtained from the appropriate regulatory agencies, where required.	Section 6.2
P1-EA-223	Before construction, confirm that all waterbodies crossed by the 40-m-wide transmission line alignment ROW and access roads and trails have been identified and are on the waterbody crossing lists (Appendix 6.2A: Tables 6.2A-1A and B, 6.2A-2A and B, and 6.2A-3A and B). If unidentified waterbodies are encountered, engage an Aquatics Specialist to determine the appropriate crossing methods, restricted activity timing window, and approvals or permits required.	Section 6.2
P1-EA-224	Blasting operations will follow DFO's Measures to Avoid Causing Harm to Fish and Fish Habitat Including Aquatic Species at Risk (DFO 2016a) and Guidelines for the Use of Explosives in or Near Canadian Fisheries Waters (Wright and Hopky 1998) including: <ul style="list-style-type: none"> ■ for setback distances from fish-bearing waterbodies; and ■ avoiding use of explosives in or near water. 	Section 6.2; Section 7.4
P1-EA-225	Complete instream activity in the shortest timeframe practical to minimize the duration and severity of disturbance.	Section 6.2
P1-EA-226	If necessary, a Road Management Strategy will be prepared and implemented for the Project that describes decommissioning of roads and equipment waterbody crossings in a manner that protects fish habitat. If necessary, the Road Management Strategy will be developed through engagement with the MNRF, forest companies, and Aboriginal communities.	Section 6.2
P1-EA-227	Complete instream construction in isolation of flowing water (i.e., use isolation methods for the installation and removal of culverts where surface water exists at the time of construction).	Section 6.2
P1-EA-228	Construct or install waterbody crossings in a manner that protects the banks from erosion, maintains downstream flows in the waterbody and follows permits or authorizations issued for the Project from the appropriate regulatory agencies.	Section 6.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-229	Develop and maintain surface water management and erosion control infrastructure to minimize potential for changes to infiltration rates.	Section 6.2
P1-EA-230	For diversions during isolations, appropriately screen water intakes or pumps will be appropriately screened to prevent entrainment or impingement of fish (DFO 2016a); follow measures for design and installation of intake end-of-pipe-fish screens will be followed to protect fish (DFO 1995, 2016).	Section 6.2
P1-EA-231	For isolations/diversions, maintain 100% downstream flow. Pump intakes should not disturb the bed.	Section 6.2
P1-EA-232	For the waterbody crossing structures, the restricted activity timing windows are not applicable if all work is completed above the high water mark, if the waterbody is frozen and an ice bridge/snow fill is constructed, or when using the waterbody crossing structures.	Section 6.2
P1-EA-233	For the waterbody crossing structures, the restricted activity timing windows are not applicable when using the waterbody crossing structures.	Section 6.2
P1-EA-234	Install, maintain, remove, decommission, and rehabilitate waterbody crossing structures (e.g., bridges, ice bridges/snow fills, rig mats) using best management practices and following environmental approval conditions, permits, or authorizations issued for the Project from the appropriate regulatory agencies. If culverts are installed, they would be installed as per the previous.	Section 6.2
P1-EA-235	Monitor turbidity and total suspended solids according to permit requirements.	Section 6.2
P1-EA-236	Obtain regulatory approval from the appropriate regulator, as applicable, and have qualified professionals rescue and relocate fish within the isolated workspace prior to construction in the isolated workspace.	Section 6.2
P1-EA-237	Obtain regulatory approvals from applicable regulatory agencies to install waterbody crossings.	Section 6.2
P1-EA-238	Wataynikaneyap will develop a policy for non-Aboriginal Project personnel while on shift or at camp in regards to any hunting, fishing or trapping activities.	Section 6.2; Section 7.4 Section 8.0
P1-EA-239	Register aboveground storage tanks under, and in compliance with, applicable federal and provincial legislation.	Section 6.2
P1-EA-240	Regularly inspect and maintain culverts to prevent blockages from forming and causing ponding or backwater effects. Where culverts are installed at fish-bearing waterbodies, debris removal activities will follow DFO's guidance (i.e., gradual removal such that flooding downstream, extreme flows downstream, release of suspended sediment, and fish stranding can be avoided).	Section 6.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-241	Store fuel and other materials for the machinery in such a way to prevent any deleterious substances from entering a waterbody (DFO 2016a).	Section 6.2
P1-EA-242	Train individuals working on-site and handling hazardous materials about best practices for the transportation of dangerous goods to avoid adversely affecting fish and fish habitat by introducing hazardous materials into the environment (Section 9.3.1.11).	Section 6.2
P1-EA-243	Use mechanical or manual methods to clear vegetation; herbicide use is not permitted.	Section 6.2
P1-EA-244	Use waterbody crossing structures that will not adversely affect fish and fish habitat (e.g., clear-span bridges, rig mats) where possible.	Section 6.2
P1-EA-245	Wash, refuel, and service machinery in such a way to prevent any deleterious substances from entering a waterbody (DFO 2016a).	Section 6.2
P1-EA-246	To the extent practical and while complying with all appropriate impact management measures, complete work below the high water mark as quickly as possible to shorten the duration of disturbance.	Section 6.2
P1-EA-247	Fording of a waterbody is not permitted for construction or clearing, unless approved by the appropriate regulatory agencies.	Section 6.2; Section 6.3
P1-EA-248	Install equipment waterbody crossing structures using best management practices and following environmental approval conditions	Section 6.2; Section 6.3
P1-EA-249	Postpone in-stream construction if excessive flows or flood conditions are present or anticipated. Resume activities when water levels have subsided or equipment/techniques suitable for conditions are deployed.	Section 6.2; Section 6.3
P1-EA-250	Temporary erosion control measures to be: <ul style="list-style-type: none"> ■ properly installed; ■ installed before or immediately after initial disturbance; and ■ inspected and properly maintained (e.g., repaired, replaced or supplemented with functional materials) throughout construction until permanent erosion control is established or reclamation is complete. 	Section 6.2; Section 7.4; Section 7.6

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-251	The use of explosives will be limited to Project construction and to specific geological conditions that do not allow for an alternative method of removing material. All applicable DFO recommended measures to avoid causing harm to fish from the use of explosives will be considered for the Project (DFO 2016a). The DFO guidelines for the use of explosives in or near fish-bearing waters (Wright and Hopky 1998) provide a maximum allowable limit for overpressure (100 kilopascals [kPa]) and peak particle velocity (13 millimetres per second [mm/s]) and suggested setback distances from waterbodies to avoid effects to fish and effects to incubating eggs. Blasting will occur on land and with consideration of the recommended setback distances to nearby fish-bearing waterbodies.	Section 6.2
P1-EA-252	Instream construction, if required for the installation of culverts (contingency only) or bridge supports, will follow best management practices and environmental approval conditions, permits or authorizations issued for the Project.	Section 6.2
P1-EA-253	If spills occur, they will be contained and either disposed of through site waste handling systems or removed for disposal in approved facilities.	Section 6.2
P1-EA-254	Where required, instream construction will be completed in isolation of flowing water (i.e., isolation methods will be used for the installation and removal of culverts where surface water exists at the time of construction). For isolations, temporary diversions may be used (i.e., isolation construction techniques such as flumes, instream diversions, or pumps) to divert the water flow around the isolated workspace. Where diversions are used, pumping will be monitored and adjusted as necessary to maintain downstream flow. Fish within the isolated workspace will be rescued (i.e., salvaged and relocated) by qualified professionals prior to construction in the isolated workspace.	Section 6.2
P1-EA-255	All necessary permits and approvals will be acquired prior to crossing construction, with adherence to all terms and conditions. DFO's self-assessment and request for review process will be followed in the permitting stage of the Project, along with MNR regulatory requirements.	Section 6.2
P1-EA-256	All waterbody crossing structures will be constructed, operated, removed, decommissioned, and rehabilitated, if appropriate, following best management practices and environmental approval conditions, including MNR guidelines for access roads or trails (MNR 1990, 2010a,b) and DFO's Measures to Avoid Causing Harm to Fish and Fish Habitat Including Aquatic Species at Risk (DFO 2016a).	Section 6.2
P1-EA-257	Clear-span bridges and rig mats will be placed above the high water mark (i.e., no work will occur below the high water mark during construction or operation and maintenance).	Section 6.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-258	If culverts are installed as a contingency, installation and removal practices will follow DFO's advice on erosion and sediment control to avoid causing serious harm to fish and fish habitat (DFO 2016a).	Section 6.2
P1-EA-259	Open bottom culverts (i.e., arch structure culverts with no bottom that does not disturb the bed of a waterbody) may be considered for waterbody crossings with high value fish habitat.	Section 6.2
P1-EA-260	Culverts will also be regularly inspected and maintained to prevent blockages from forming and causing ponding or backwater effects.	Section 6.2
P1-EA-261	Culverts will be regularly inspected and maintained during construction and operation to allow for fish passage. Where culverts are to be installed at fish-bearing waterbodies, debris removal activities will follow DFO's guidance (i.e., gradual removal such that flooding downstream, extreme flows downstream, release of suspended sediment, and fish stranding can be avoided).	Section 6.2
P1-EA-262	Environmental Inspectors will be on site during construction to monitor the installation, use, and removal of temporary equipment waterbody crossing structures. Turbidity and total suspended solids monitoring may be required at a subset of crossings to meet regulatory requirements.	Section 6.2
P1-EA-263	If fording is used, it will be limited to a one-time event (over and back) and will occur only if an existing crossing at another location is not available or practical to use. If repeated crossings of the waterbody are required, a temporary crossing structure will be installed.	Section 6.2
P1-EA-264	Impact management measures have been included in the Project design to limit changes to hydrology, and include installing waterbody crossings using best management practices and following environmental approval conditions.	Section 6.2
P1-EA-265	In addition, where possible, work will be completed from either side of a waterbody.	Section 6.2
P1-EA-266	Installation and removal of the waterbody crossing structures where work is completed below the high water mark (i.e., installation or removal of a culvert with fill or supports below the high water mark) will occur outside of the restricted activity timing windows, unless approval from regulatory authorities is obtained. If excessive flows or flood conditions are present, instream construction will be postponed until water levels have subsided.	Section 6.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-267	Sediment and erosion control measures will be implemented during transmission line and equipment waterbody crossings construction activities to minimize potential for changes in sediment yield. This includes stabilizing and re-vegetating banks and restoring the bed and banks of the waterbody to their original contour and gradient.	Section 6.2
P1-EA-268	Timing of in water work is a key impact management measure to reduce or avoid potential effects to fish at a local scale; therefore, periods when in-water work should be avoided were identified for each waterbody (Appendix 6.2A: Tables 6.2A-1B, 6.2A-2B, and 6.2A-3B). Restricted activity timing windows are designed to protect fish during spawning migrations and other critical life history stages (i.e., spawning, egg incubation, and fry emergence).	Section 6.2
P1-EA-269	To minimize downstream sediment effects, isolation methods will be used for the installation and removal of culverts where surface water exists at the time of construction. For isolation, temporary diversions may be used (i.e., isolation construction techniques such as flumes, instream diversions, or bypass pumps) to divert the water flow around the isolated workspace. Where diversions are used, bypass pumping will be monitored and adjusted as necessary to maintain downstream flow.	Section 6.2
P1-EA-270	Where appropriate, clear-span bridges or rig mats will be used for equipment waterbody crossings. Clear-span bridges and rig mats will be appropriately sized and installed such that they do not require fill below the high water mark, limiting the potential for changes in channel morphology. Where culverts are used, the culvert will be appropriately designed for the waterbody and installed such that the channel is not constricted and to minimize potential for scour and erosion.	Section 6.2
P1-EA-271	If culverts are used, the culvert will be designed and installed in fish bearing waterbodies to allow for fish movement as appropriate to meet MNR guidelines for access roads or trails (MNR 1990, 2010a,b) and DFO guidelines (DFO 2016a).	Section 6.2
P1-EA-272	Where possible during winter construction, ice bridges/snow fills will be used as temporary crossing structures. For ice bridges/snow fills, any work below the high water mark will involve the placement of clean snow fill only.	Section 6.2
P1-EA-273	Where possible, access road construction in areas of potential spawning habitat will take place outside the restricted activity timing windows.	Section 6.2
P1-EA-274	Use erosion resistant fill material below the high water level within the floodplain of a waterbody	Section 6.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-275	Prepare and implement a Vegetation Management Plan (Section 9.3.2.2) to keep vegetation from interfering with the safe and reliable operation and maintenance of the transmission line. Maintenance of vegetation height for operational safety will be completed using mechanical methods (no chemicals/herbicides).	Section 6.3
P1-EA-276	Clearing activities during construction for the Project will be managed so that mechanical vegetation removal will occur outside of the maternal roosting period (June 1 to July 31) for bats.	Section 6.3
P1-EA-277	If barn swallow nests or nest scars are found in a culvert or on a temporary construction camp building, an alternate nesting structure will be set up within 1 km of the culvert in suitable habitat for barn swallow, unless there is a suitable structure already present within 1 km of the building or culvert.	Section 6.3
P1-EA-278	If mechanical vegetation clearing or other construction activities that may result in the incidental take of birds is required during the nesting season, activities will be managed to comply with the SARA (Government of Ontario 2002) and the MBCA (Government of Canada 1994). In the event that a nest is found, the MNRF and ECCC will be contacted to determine appropriate impact management measures.	Section 6.3
P1-EA-279	Implement a restricted timing window (October 1 to April 30) for any construction within 200 m of potential bat hibernacula.	Section 6.3
P1-EA-280	Bird deterrents or visibility enhancements (e.g., spinning reflectors) will be installed on the transmission line in areas of concern (e.g., near waterbodies known to represent staging areas).	Section 6.3
P1-EA-281	Check the blast zone for wildlife before a blast as described in the Blasting Management Plan (Section 9.3.1.15).	Section 6.3
P1-EA-282	Limit the duration of disturbance from construction as practical.	Section 6.3
P1-EA-283	Contour terrain in the reclaimed landscape to achieve variation of slope steepness, slope length, aspect, and shape to create terrain diversity suitable for the establishment of varied plant communities.	Section 6.3
P1-EA-284	Drivers have standard safety training and are provided with environmental awareness and sensitivity training.	Section 6.3
P1-EA-285	Employees in vehicles encountering large mammals (e.g., caribou, moose, black bear, and wolf) on roads are required to communicate the presence of wildlife on and near roads to other employees working in the area.	Section 6.3
P1-EA-286	Enforce speed limits on access roads.	Section 6.3
P1-EA-287	Environmental training will be provided to Project employees and contractors.	Section 6.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-288	Erosion control practices would limit wind and water erosion on coversoil and overburden stockpiles (e.g., vegetation, erosion mats).	Section 6.3
P1-EA-289	Follow best management practices for the installation, maintenance, removal and reclamation of ice bridges.	Section 6.3
P1-EA-290	If active dens sites observed during this period at or near the Project construction area, work will stop and the MNRF will be notified. If work is to continue during this period, Project activities will need to be 500 m from the identified den.	Section 6.3
P1-EA-291	If mechanical vegetation removal cannot be avoided during nesting period, pre-construction nest searches will be completed.	Section 6.3
P1-EA-292	Implement a policy that prohibits feeding wildlife to minimize habituation.	Section 6.3
P1-EA-293	Industry standards to avoid electrocutions would be incorporated in tower design (spacing of conductors).	Section 6.3
P1-EA-294	Management of nests during the non-breeding season, such as trimming nest materials, insulating conductors, moving nests to alternate structures, and removing unoccupied nests, can minimize the risk of avian mortality from electrocution (APLIC 2006).	Section 6.3
P1-EA-295	Manage attractants (e.g., bear-proof containers, garbage removed frequently) to limit interactions between people and wildlife.	Section 6.3
P1-EA-296	Manage, to the extent possible, the incremental removal of vegetation so that removal occurs outside of the migratory bird nesting period of April 20 to August 31 of each year to avoid disturbing active migratory bird nests (Environment Canada 2014).	Section 6.3
P1-EA-297	Monitor waste management practices for improvement through adaptive management, when necessary.	Section 6.3
P1-EA-298	Post signs warning drivers of high use wildlife areas.	Section 6.3
P1-EA-299	If mechanical vegetation removal cannot be avoided during the wolverine denning period, then engage with MNRF and Aboriginal communities for knowledge of active denning sites that have not been identified in the SAR Report. If active dens sites observed during this period at or near the Project construction area, work will stop and the MNRF will be notified. If work is to continue during this period, Project activities will need to be 500 m from the identified den.	Section 6.3
P1-EA-300	Provide environmental awareness and sensitivity training to staff and contractors to reinforce the importance of not feeding wildlife and carrying out proper waste management practices.	Section 6.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-301	Restrict Project vehicle use to designated roads and prohibit recreational off-road use of vehicles by Project personnel.	Section 6.3 Section 7.4; Section 8.8
P1-EA-302	Re-slope and roughen surface to provide irregular surfaces that would promote seed retention and vegetative establishment by creating microsites that offer varied moisture and temperature regimes, and protection from wind.	Section 6.3
P1-EA-303	Selective clearing and retention of shrub vegetation, trees, wildlife trees, and coarse wood debris in environmentally sensitive areas as much as practicable.	Section 6.3
P1-EA-304	Selective mechanical clearing and retention of shrub vegetation, trees, wildlife trees, and coarse woody debris in areas where safe operation practices can still be achieved. Known sensitive ecological features would be clearly marked (e.g., wetlands and significant wildlife habitat) with associated setbacks.	Section 6.3
P1-EA-305	Speed limits will be applied to limit fugitive dust.	Section 6.3
P1-EA-306	Spills will be contained locally and disposed of at an approved industrial waste disposal facility.	Section 6.3
P1-EA-307	Storage facilities for hazardous materials and waste will meet regulatory requirements and would be designed to protect the environment and workers from exposure, per the Hazardous Waste and Non-Hazardous Waste Management Plans (Section 9.3.1.11 and 9.3.1.12).	Section 6.3
P1-EA-308	The minimum span between the lines would be approximately 2.3 m eliminating the threat of electrocutions.	Section 6.3
P1-EA-309	Train individuals working on-site and handling hazardous materials about best practices for the transportation of dangerous goods to avoid adversely affecting wildlife by introducing hazardous materials into the environment (Section 9.3.1.11).	Section 6.3
P1-EA-310	Transmission lines will be designed, constructed, and maintained so that during dry conditions they will minimize corona-related sound.	Section 6.3
P1-EA-311	Use of existing access roads to minimize additional linear development and habitat conversion.	Section 6.3
P1-EA-312	Use of existing access roads will limit the area disturbed and minimize the quantity of new sensory disturbances.	Section 6.3
P1-EA-313	Watering of haul roads to reduce dust.	Section 6.3
P1-EA-314	Wildlife always have the right-of-way.	Section 6.3
P1-EA-315	Wildlife-vehicle collisions would be monitored and reported, which provides feedback for adaptive management.	Section 6.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-316	<p>Within a caribou range, avoid vegetation clearing and sensory disturbance within 10 km of known high use areas during sensitive periods:</p> <ul style="list-style-type: none"> ■ Nursery areas: May 1 to September 15 (low tolerance). ■ Winter use areas: December 1 to March 31. ■ Travel corridors: April and November. 	Section 6.3
P1-EA-317	<p>Wataynikaneyap with their contractor(s) will prepare and implement a Clean-up and Reclamation Plan (Section 9.3.1.17). Natural recovery is the preferred method of reclamation on Crown land, preferably with conifer dominated vegetation to be consistent with adjacent vegetation communities. Where necessary, conifer seedling planting will occur to improve reclamation success. These methods consider requirements to return the area to woodland caribou habitat. Effectiveness of reclamation efforts will be monitored and managed post-construction, including confirmation that vegetation communities that naturally regenerate (or were planted) on the 40-m-wide transmission line ROW are similar to adjacent vegetation communities. If required, adaptive management will be employed to modify or enhance any reclamation efforts.</p>	Section 6.3 Section 9.3.1.17
P1-EA-318	Pre-construction nest searches would include completing point count surveys for songbirds.	Section 6.3
P1-EA-319	Engage with applicable government agency (Ministry of Natural Resources and Forestry and Environment and Climate Change Canada) if sensitive ecological features are encountered or cannot be avoided.	Section 6.3
P1-EA-320	Salvage/rescue cut timber; disturbance to other areas; employ tree protection measures.	Section 6.3
P1-EA-321	Postpone in stream construction if excessive flows or flood conditions are present	Section 6.3
P1-EA-322	Progressive reclamation of disturbed areas will be practised.	Section 6.3
P1-EA-323	Prepare and implement a Vegetation Management Plan (Section 9.3.2.2) to keep vegetation from interfering with the safe and reliable operation and maintenance of the transmission line, or prohibit access to the transmission line structures.	Section 6.3
P1-EA-324	Wildlife always have the right-of-way to traffic	Section 6.3
P1-EA-325	Deterrent markers where the line is in areas with no vegetation cover and within one kilometre of large waterbodies.	Section 6.3
P1-EA-326	If nest sites are detected, MNR and ECCC will be contacted to discuss appropriate impact management measures	Section 6.3
P1-EA-327	Manage, to the extent possible, the incremental removal of vegetation so that removal occurs outside of the wolverine denning period of January 1 to March 30 of each year to avoid disturbing denning wolverine.	Section 6.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-328	Hibernation period: Avoid construction between potential hibernacula and a boundary being the lesser of: a 200-m radius of contiguously-treed area, or the distance to the nearest existing road ROW	Section 6.3
P1-EA-329	Wataynikaneyap will develop a policy for non-Aboriginal hunting, fishing and trapping	Section 6.3
P1-EA-330	Wataynikaneyap with its contractor(s) will prepare and implement a Spill Prevention and Emergency Response Plan (Section 9.3.1.13) and Soil Handling Management Plan (Section 9.3.1.4) to avoid exposure of wildlife to harmful substances.	Section 6.3
P1-EA-331	Collection of archaeological resources by Project personnel is prohibited. Project personnel will be provided guidance prior to construction	Section 7.1
P1-EA-332	Completion of marine archaeological assessment on preferred corridor required if effects to areas below the high water mark are anticipated.	Section 7.1
P1-EA-333	Completion of Stage 2 (and Stage 3 and 4 if required) to determine whether archaeological sites are present within LSA and to recommend appropriate impact management measures should archaeological resources be identified.	Section 7.1
P1-EA-334	Identified archaeological resources near the Project footprint and their associated setbacks will be staked or flagged. <ul style="list-style-type: none"> ■ Project personnel will avoid areas that are flagged or fenced and abide by restrictions on in/out privileges that are implemented in areas requiring special protection due to environmentally sensitive features. ■ No clearing or construction activity within flagged or fenced areas that contain archaeological resources. 	Section 7.1
P1-EA-335	The Project footprint will be surveyed and marked before construction to limit activities to the designated areas of the Project.	Section 7.1; Section 7.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-336	<p>Wataynikaneyap with their contractor(s) will prepare and implement an Archaeology Management Plan (Section 9.3.1.18) prior to construction to provide direction in the event that archaeological resources not previously identified are encountered.</p> <ul style="list-style-type: none"> ■ In the event that a previously unidentified archaeological resource is suspected or encountered, Wataynikaneyap will bring in a resource specialist and contact the potentially affected Aboriginal community and the MTCS. ■ Suspend activity at that location. Work at that location will not resume until permission is granted by Wataynikaneyap in engagement with appropriate regulators as required. ■ The resource specialist may deem it necessary to visit the site and will, regardless of whether a site visit is required, develop an appropriate impact management measures plan in engagement with Wataynikaneyap and, if necessary, the appropriate regulatory agencies. 	Section 7.1
P1-EA-337	<p>Archaeological sites identified in the LSAs through the completion of the Stage 2 archaeological assessment will be subject to avoidance and protection measures to avoid loss of, or damage to, archaeological resources, or assessed and mitigated by excavation per the Standards and Guidelines for Consultant Archaeologists (MTCS 2011) and in engagement with Aboriginal communities (e.g., as required for Stage 3 and 4, but with best practices having engagement at each Stage of the archaeological process).</p>	Section 7.1
P1-EA-338	<p>The location of known archaeological resources is protected by MTCS and cannot be released to the public.</p>	Section 7.1
P1-EA-339	<p>Heritage resources studies will be completed, the heritage resource sites identified and the associated impact management measures identified prior to construction.</p>	Section 7.2
P1-EA-340	<p>In the event that a previously unidentified heritage or archaeological resource is suspected or encountered, Wataynikaneyap will contact the applicable First Nation, heritage or archaeology resource specialist, municipality and provincial Ministry of Tourism, Culture and Sport, as applicable</p>	Section 7.2
P1-EA-341	<p>Wataynikaneyap with their contractor(s) will prepare and implement a Built Heritage Management Plan (Section 9.3.1.19) prior to construction to provide direction in the event that heritage resources not previously identified are suspected or encountered unexpectedly during construction.</p>	Section 7.2
P1-EA-342	<p>Project personnel will be made aware when working near identified potential heritage resources and avoid areas that are flagged or fenced, and abide by restrictions on in/out privileges.</p>	Section 7.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-343	Suspend activity at that location if it has the potential to damage or affect feature. Work at that location will not resume until permission is granted by Wataynikaneyap in engagement with appropriate regulators as required.	Section 7.2
P1-EA-344	The resource specialist may deem it necessary to visit the site and will, regardless of whether a site visit is required, develop an appropriate impact management measures plan in engagement with Wataynikaneyap, applicable First Nation and the MTCS.	Section 7.2
P1-EA-345	If Project design changes, known and potential heritage resources identified in this report will be avoided to the extent practical. Should impact management measures additional to those identified above be required, these will be discussed with applicable First Nation communities, municipalities and regulatory agencies.	Section 7.2
P1-EA-346	Once the preferred corridor is selected, field survey, research, and evaluation as part of a CHER will be completed to determine if any of the identified potential heritage resources are of cultural heritage value or interest and if other, not previously documented heritage resources are present in the LSA. The CHER will characterize the potential heritage resources and also confirm the geographic extent of the potential resources in the LSA that could be affected by vibrations from project activities, for example there may be additional features related to the resources that could be affected by the Project that are not documented and are closer to the Project footprint than currently documented. If any potential heritage resources are evaluated as being of cultural heritage value or interest, a HIA will be required to identify the specific effects the Project may have on the heritage attributes of newly identified built heritage resources or cultural heritage landscapes, and recommend impact management measures to ensure the heritage attributes of the resources are conserved. The CHER (and HIA, if necessary) will be submitted to the MTCS for approval. A compliance letter for the Project under the Ontario Heritage Act will be obtained from the MTCS prior to construction, and the impact management measures specified in the compliance letter will be adhered to.	Section 7.2
P1-EA-347	Wataynikaneyap will provide Aboriginal communities and local construction firms with requests for proposal related to the procurement of goods and services for the Project.	Section 7.3
P1-EA-348	Each temporary construction camp will be constructed and operated as the construction of the transmission line progresses and will be decommissioned when construction ceases.	Section 7.3
P1-EA-349	Wataynikaneyap will also implement a Project construction schedule so peak construction does not take place during the peak tourism season where possible (i.e., July and August).	Section 7.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-350	Wataynikaneyap will consider scaling up the capacity of one or all of the construction camps as necessary to meet housing demand	Section 7.3
P1-EA-351	To proactively address this potential cumulative effect, Wataynikaneyap will work with the LSA communities to develop a housing management plan to support non-local construction direct and indirect workers to obtain suitable accommodation when units are not available at the construction camps.	Section 7.3
P1-EA-352	Wataynikaneyap will share this monitoring information with temporary accommodation providers and local government representatives from LSA communities, to help track temporary accommodation needs and assist in addressing any capacity constraints on local temporary accommodation during construction.	Section 7.3
P1-EA-353	A Project-specific Emergency Response Plan for construction would delineate roles and responsibilities, contingency plans, emergency response procedures, and required training in hazard identification. The plan will be shared with regional emergency health service providers, such as the Kenora District Service Board Land Ambulance, local hospitals, and fire response personnel for their review and input. Health and emergency response training would also be implemented, including first aid training for identified on site personnel.	Section 7.3
P1-EA-354	As much of the construction workforce will be housed at the Project construction camps and any non-local workers not housed at the construction camp would only require short-term accommodation (section 7.3.11), the Project is not anticipated to result in measurable change in population (either temporary or permanent) in the services and infrastructure LSA communities.	Section 7.3
P1-EA-355	Construction materials would be required from outside the services and infrastructure LSA and it is expected that the bulk of out of area construction freight will be transported by road and helicopter.	Section 7.3
P1-EA-356	For the Preliminary Proposed Corridor, the southern portion of the transmission corridor near Dinorwic and Ignace will be accessed via Highway 17; the central portion of the Preliminary Proposed Corridor will be accessed via Highway 516, Slate Falls Road, and Vermilion River Road. The corridor alternatives will primarily be accessed along Highway 599 (Figure 7.3-3).	Section 7.3
P1-EA-357	It is expected that solid and liquid waste and potable water services will be procured from local providers in various identified LSA communities, including local landfills, and water treatment facilities	Section 7.3
P1-EA-358	Materials will generally be transported to the corridor using line trucks and flatbed transport trucks.	Section 7.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-359	Measure will include the implementation of temporary no unauthorized access areas to prevent public access in active construction areas as well as requirements for appropriate signage, and public communications on safety near potentially hazardous areas within the Project footprint	Section 7.3
P1-EA-360	Off-road track units will be used where conditions are not suitable for trucks.	Section 7.3
P1-EA-361	Out of area workers, and some equipment and materials will be flown on commercial flights routed to Sioux Lookout, Pickle lake and potentially, Dryden Airport, and transported either by air to Pickle Lake Airport. Helicopters may be used to transport material, equipment and personnel in areas that are difficult to access by ground vehicle.	Section 7.3
P1-EA-362	As indicated in Section 7.3.5.7, the Project will also establish a service agreement with the Kenora District Service Board provide Emergency Medical Services (EMS) to the Project on an as needed basis during the construction stage.	Section 7.3
P1-EA-363	The Project will have an Occupational Health and Safety Plan (Section 9.4.6) and first aiders on the construction sites and at the temporary construction camps to address non-emergency health and safety issues.	Section 7.3
P1-EA-364	The service agreements will identify a payment rate to local service providers such as the District of Thunder Bay and District of Kenora, in the event that emergency services are used by the Project to offset any financial burden that the Project may place on local government revenues.	Section 7.3
P1-EA-365	Wataynikaneyap intends to prioritize qualified local First Nations candidates for direct employment opportunities and will support local and First Nation hiring and procurement where the required skills and experience match Project requirements.	Section 7.3
P1-EA-366	Wataynikaneyap will communicate with the local airports used by the Project (and with CPR and CN rail if used) to inform them of proposed Project schedules, and to confirm service capacity, siding availability, schedules and any potential interactions with existing air and rail users, and operations.	Section 7.3
P1-EA-367	Wataynikaneyap will provide private, on site security to address any security related concerns, however local police would be called to address any criminal behaviour.	Section 7.3
P1-EA-368	Consider the use of localized shielding (i.e., temporary acoustic barriers, stockpiles, project buildings) if required.	Section 7.3
P1-EA-369	Design access routes and work spaces such that noise is minimized where practical (e.g., maximize separation distance).	Section 7.3
P1-EA-370	Wataynikaneyap will review and approve an environmental and safety orientation program, to be implemented by the Contractor.	Section 7.3; Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-371	Domestic effluent will be removed from construction camps by approved disposal trucks and disposed of at municipal wastewater treatment plants with authorization and capacity to accept this waste.	Section 7.3
P1-EA-372	Due to the temporary nature of construction employment opportunities, most of the temporary workers from out of area are expected to be housed in temporary construction camps.	Section 7.3
P1-EA-373	During worker and contractor orientation sessions, the requirement for respectful use of community facilities and the need for respectful behavior will be stressed.	Section 7.3
P1-EA-374	Establish user agreements with transportation service providers with sufficient capacity to supply both the Project and their existing and anticipated user base.	Section 7.3
P1-EA-375	Given the location of the Project and size of temporary construction camp, a portion of the construction workforce will be housed in local community rental housing and accommodation.	Section 7.3
P1-EA-376	Hold workers to both a Worker Code of Conduct and an Occupational Health and Safety Management Plan (Section 9.4.7).	Section 7.3
P1-EA-377	Wataynikaneyap with their contractor(s) will prepare and implement a Traffic/Road Management Plan (Section 9.4.5) for Project traffic.	Section 7.3
P1-EA-378	Wataynikaneyap with their contractor(s) will prepare and implement the following management plans to limit public exposure to hazards: <ul style="list-style-type: none"> ■ Material Storage and Handling Plan (Section 9.3.1.9); ■ Liquid Waste Management Plan (Section 9.3.1.10); ■ Hazardous Waste Management Plan (Section 9.3.1.11); ■ Non-Hazardous Waste Management Plan (Section 9.3.1.12); ■ Spill Prevention and Emergency Response Plan (Section 9.3.1.13); ■ Clean-up and Reclamation Plan (Section 9.3.1.17); ■ Traffic/Road Management Plan (Section 9.4.5); and ■ Occupational Health and Safety Plan (Section 9.4.6). 	Section 7.3
P1-EA-379	Wataynikaneyap with their contractor(s) will be required to comply with the Ontario Occupational Health and Safety Act, 1990 (Government of Ontario 1990) and other legislated safety requirements. Wataynikaneyap will also be required to have a HASP in place.	Section 7.3
P1-EA-380	Maintain a zero tolerance policy towards workers being under the influence of drugs or alcohol while working, or while travelling to and from work.	Section 7.3
P1-EA-381	Maintain drug-free temporary construction camps and worksites.	Section 7.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-382	Minimize the frequency of the transport of goods and equipment, to the extent possible.	Section 7.3
P1-EA-383	Notify access road users (e.g., those dependent on Project-affected roads for access to businesses or residences) of construction activities and planned access restrictions and detours.	Section 7.3
P1-EA-384	Project construction, operation, and maintenance activities will be undertaken with appropriate safety measures in place.	Section 7.3
P1-EA-385	Provide first aid stations at temporary construction camps and job sites.	Section 7.3
P1-EA-386	Provide private security at the construction camps	Section 7.3
P1-EA-387	Solid waste disposal services, including hazardous and non-hazardous waste, will be provided on-site at construction camps	Section 7.3
P1-EA-388	Store construction and hazardous waste in a manner compliant with legislation and health and safety guidelines.	Section 7.3
P1-EA-389	Support First Nations and local hiring of qualified personnel where appropriate.	Section 7.3
P1-EA-390	Support First Nations, local, and regional procurement where practical.	Section 7.3
P1-EA-391	Support qualified local hiring and procurement where possible to minimize size of workforce hired from outside the services and infrastructure LSA.	Section 7.3
P1-EA-392	The majority of temporary workers hired from out of the criterion-specific LSAs will be housed in temporary construction camps or other existing temporary accommodation establishments.	Section 7.3
P1-EA-393	Train employees in standard first aid-	Section 7.3
P1-EA-394	Use appropriate road signage during construction activities.	Section 7.3
P1-EA-395	Wataynikaneyap will communicate employment requirements to Aboriginal communities in the labour market and economic development LSA.	Section 7.3
P1-EA-396	Workers are not expected to permanently relocate themselves or their families to services and infrastructure LSA communities	Section 7.3
P1-EA-397	Workers are not expected to relocate themselves or their families to temporary accommodation LSA communities permanently, but may relocate to existing temporary accommodation establishments for a short period of time during the construction period.	Section 7.3
P1-EA-398	Workers will be required to adhere to an Employee and Contractor Code of Conduct that outlines appropriate behavior at the worksite, temporary construction camps, in community wellbeing LSA communities, and while travelling to and from work rotations.	Section 7.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-399	Provide a phone number or other public feedback mechanism for noise related concerns.	Section 7.3
P1-EA-400	<p>Wataynikaneyap is committed to recruiting and training that maximizes employment opportunities available to Aboriginal people and local residents. To support this commitment, Wataynikaneyap will develop a Skills Development and Training Plan to support general work readiness and skill development of the local labour force and enhance local and Aboriginal participation in the Project, as well as other projects in the region. This plan could include the following aspects:</p> <ul style="list-style-type: none"> ■ Wataynikaneyap with their contractor(s) will work with local and Aboriginal communities to identify training requirements for the Project during all construction stages. ■ Post and communicate qualification and skill requirements for construction workers to communities in advance of construction activities. ■ Identifying potential shortage of workers with specific skill requirements and work with economic development departments and corporations of local Aboriginal communities to identify local training and educational facilities and programs that can provide development and upgrade of skills in advance of Project construction. ■ Implement agreements with prime contractors to support on the job apprenticeships for Aboriginal workers, in specialized areas requiring apprenticeship hours. ■ Potential funding to support Aboriginal skills training bursaries to local and regional training institutes and trades training programs. 	Section 7.3
P1-EA-401	For goods and services that may be sourced locally, the Project has committed to prioritising employment and procurement in Aboriginal communities.	Section 7.3
P1-EA-402	The Project will advertise all publicly available contracts, which will be open to all qualified businesses including local ventures and First Nations.	Section 7.3
P1-EA-403	The Project will procure a range of construction materials such as heavy equipment, fences, fuel, and concrete. Quantities of materials will be confirmed during the detail design stage, and choice of suppliers will be determined during the procurement stage of the Project.	Section 7.3
P1-EA-404	The Project will procure services pertaining to management and operation of the three construction camps (such as catering, cleaning, security, private waste and water services and first aid and/or medics), as well as transportation, forestry-related services (i.e., timber removal and ROW clearing), storage, vehicle and machine operation, drilling and blasting and others.	Section 7.3

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-405	As presented in Table 7.4-50, Wataynikaneyap will meet all regulatory requirements and address potential effects to commercial industrial users (including tenure holders) by engaging, negotiating, and developing mutually beneficial agreements that address potential effects, including compensation, where relevant.	Section 7.4
P1-EA-406	Wataynikaneyap will work with parks administrators to implement appropriate restriction protocols during maintenance activities in the park.	Section 7.4
P1-EA-407	Adhere to all of the requirements and impact management measures described within the Traffic/Road Management Plan (Section 9.4.5).	Section 7.4
P1-EA-408	Adhere to all impact management measures are identified in the ESMP for this Project (Section 9.0) related to topsoil salvage and grading, backfill, and clean-up and reclamation.	Section 7.4
P1-EA-409	Arrange for landowners/lessees to harvest crops prior to construction, if practical, along the Project footprint.	Section 7.4
P1-EA-410	Avoid blasting and the storage of materials and equipment within parks and protected areas where possible.	Section 7.4
P1-EA-411	Clear merchantable timber by hand in the riparian area of a waterbody. Minimal encroachment may be required to harvest large trees. The merchantable timber will be winched outside the riparian area	Section 7.4
P1-EA-412	Confine vehicular traffic to approved rights-of-way, workspace and access roads or trails;	Section 7.4
P1-EA-413	Consider areas of commercial timber and the method of cutting and storing commercial timber during the clearing of the 40-m-wide transmission line alignment ROW.	Section 7.4
P1-EA-414	Continue to engage with mining claim holders, forest management unit license holders and aggregate license holders and, where appropriate, develop mutually beneficial agreements with the affected tenure holders.	Section 7.4
P1-EA-415	Continue to engage with the MNR, Ontario Parks and trail associations, and canoe route operators to develop appropriate strategies to minimize potential effects to park users.	Section 7.4
P1-EA-416	Continue to engage with trapline area license holders, and, where appropriate, develop mutually beneficial agreements with the affected tenure holders.	Section 7.4
P1-EA-417	Design construction routes so as to avoid key access roads / entrances to commercial industry operations/areas of activity where feasible, in engagement with commercial industry land use tenure holders.	Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-418	Design construction routes so as to avoid key access roads / entrances to parks and protected areas, tourism establishment areas, campsites, boat launches and caches, aquatic access points, and trailheads.	Section 7.4
P1-EA-419	Design construction routes to avoid key access roads / entrances to parks and protected areas where feasible, in engagement with parks and protected area administrators.	Section 7.4
P1-EA-420	During peak traffic periods of the construction stage, plan Project activities such that traffic to and from the Project is spread out through the day to the extent feasible and allowed by the final construction schedule.	Section 7.4
P1-EA-421	Engage with BMA and BHA license holders, and, where appropriate, develop mutually beneficial agreements with the affected tenure holders.	Section 7.4
P1-EA-422	Engage with guided outfitters in the outdoor tourism and recreation operating in Project footprint, and, where appropriate, develop mutually beneficial agreements with the affected tenure holders.	Section 7.4
P1-EA-423	Engage with potentially affected stakeholders about the placement of permanent fencing as applicable.	Section 7.4
P1-EA-424	Engage with property owners about the placement of permanent fencing as applicable.	Section 7.4
P1-EA-425	Make sure that equipment used are well maintained and operated so as not to exceed the Health Canada Noise Guidance and MOECC NPC-300 noise guideline on ambient noise levels.	Section 7.4
P1-EA-426	Establish codes of conduct for drivers employed or contracted by the Project specifying that speed limits and other rules of the road and rules of the sea be observed.	Section 7.4
P1-EA-427	Establish crossings for vehicles and, where applicable, livestock for commercial industry land and resource use activities during the construction stage to allow mining, aggregate, forestry and agricultural operations to proceed outside of the Project footprint, as applicable.	Section 7.4
P1-EA-428	Establish signage to notify road users of road closures, lane closures, and other disturbances to local roadways.	Section 7.4
P1-EA-429	Flag site-specific commercial industrial land use features of concern, so that subsequent traffic can avoid these areas to the extent feasible.	Section 7.4
P1-EA-430	Wataynikaneyap with their contractor(s) will prepare and implement a Clean-up and Reclamation Plan (Section 9.3.1.17). Work with parks administrators to implement appropriate restriction protocols during maintenance activities.	Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-431	<p>Implement the measures outlined in the Traffic/Road Management Plan (Section 9.4.5) to mitigate potential Project effects on park access due to increased traffic, including:</p> <ul style="list-style-type: none"> ■ during peak traffic periods, plan activities such that traffic to and from the Project is spread out through the day to the extent feasible and allowed by the final construction schedule; ■ obey all local traffic laws, signs and speed limits; all vehicle movement on Project access roads or trails will be in accordance with applicable regulations and guidelines; ■ establish codes of conduct for drivers employed or contracted by the Project specifying that speed limits and other rules of the road and rules of the sea must be observed; ■ make sure all Project vehicle operators comply with their company's Project-approved environment, health and safety plans; and ■ flag site-specific features of concern so that traffic can avoid these areas; and ■ during construction, existing roads and trails will be used as much as possible to limit disturbance resulting from construction of new access roads and trails. 	Section 7.4
P1-EA-432	<p>Wataynikaneyap with their contractor(s) will prepare and implement a Vegetation Management Plan will be prepared and implemented. An overview of this plan is provided in Section 9.3.2.2.</p>	Section 7.4
P1-EA-433	<p>Make sure all Project vehicle operators are fully aware of, and in compliance with, their company's Project-approved environment, health and safety plans.</p>	Section 7.4
P1-EA-434	<p>Make sure traffic on the rights-of-way follow the posted speed limits, which may vary depending on site-specific conditions.</p>	Section 7.4
P1-EA-435	<p>Notify affected parties where applicable as per crossing agreements and third party agreements. The list of crossing agreements and third party agreements will be determined prior to construction.</p>	Section 7.4
P1-EA-436	<p>Notify all landowners, lessees and license holders and claims holders within the 2 km corridor of the intended Project schedule before the beginning of construction to prevent or reduce effects to their operations or activities.</p>	Section 7.4
P1-EA-437	<p>Notify applicable federal and provincial regulatory agencies and interested municipal officials of the Project as warranted, and continue to engage throughout the planning process.</p>	Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-438	Notify landowners, guided outfitters, tourism establishment area operators, parks and protected area administrators, registered trappers, the Ontario Federation of Anglers and Hunters, registered BMA and BHA license holders, local trail associations, boating clubs and snowmobile clubs within the 2 km corridor of the planned construction schedule before the start of construction.	Section 7.4
P1-EA-439	Place warning signs 150 m in either direction from terrestrial trail closures during construction, in engagement with trail authorities. Should affected trails be considered to be key trail resource for access to other areas, Wataynikaneyap will develop an alternate trail route to allow land users to navigate around the temporary construction-based trail closure.	Section 7.4
P1-EA-440	Plan the development of upgraded existing and new access roads in engagement with industrial land users (e.g., forestry, mining and agricultural users/operators) and in compliance with applicable legislation, regulations and requirements identified in permits and authorizations.	Section 7.4
P1-EA-441	Prohibit recreational and after-hours use of all-terrain vehicles by project personnel.	Section 7.4
P1-EA-442	Project personnel will avoid areas that are flagged or fenced and abide by restrictions on in/out privileges that are implemented in areas requiring special protection due to environmentally sensitive features.	Section 7.4
P1-EA-443	Project vehicles must obey all local traffic laws, signs and speed limits.	Section 7.4
P1-EA-444	Provide advance notice of construction activities to park users through formal notification in local newspapers and at park locations (e.g., park entrances).	Section 7.4
P1-EA-445	Reduce indirect effects on commercial industry land and resource use by implementing the impact management measures applied to biophysical criteria as described in other sections of this EA (i.e., Section 5.3 Air Quality, Section 5.5 Noise, Section 6.1 Vegetation and Wetlands, Section 7.3 Socio-economics, and Section 7.5 Visual Aesthetics).	Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-446	Reduce indirect effects on commercial industry land and resource use by implementing the impact management measures identified in Sections 9.3.1 and 9.3.2 of the ESMP under the Dust/Air Quality Management Plan (Section 9.3.1.1), Noise Management Plan (Section 9.3.1.3), Timber Salvage Plan (Section 9.3.1.5), Spill Prevention and Emergency Response Plan (Section 9.3.1.13), Clean-up and Reclamation Plan (Section 9.3.1.17), Archaeology Management Plan (Section 9.3.1.18), Built Heritage Management Plan (Section 9.3.1.19), Post-construction Monitoring Plan (Section 9.3.2.1) and Vegetation Management Plan (Section 9.3.2.2).	Section 7.4
P1-EA-447	Reduce indirect effects on outdoor tourism and recreational land and resource use by implementing the impact management measures applied to biophysical criteria as described in other sections of this EA (i.e., Sections 5.1 Surface Water, 6.1 Vegetation and Wetlands, Section 6.3 Wildlife, Section 6.2 Fish and Fish habitat, Section 5.3 Air Quality, Section 5.5 Noise, and Section 7.5 Visual Aesthetics).	Section 7.4; Section 8.8
P1-EA-448	Reduce indirect effects on outdoor tourism and recreational land and resource use by implementing the impact management measures identified in Section 9.3.1 of the ESMP under the Dust/Air Quality Management Plan (Section 9.3.1.1), Noise Management Plan (Section 9.3.1.3), Soil Handling Management Plan (Section 9.3.1.4), Rare Plant Management Plan (section 9.3.1.6), Invasive Species Management Plan (Section 9.3.1.7), Material Storage and Handling Plan (Section 9.3.1.9), Liquid Waste Management Plan (Section 9.3.1.10), Hazardous Waste Management Plan (Section 9.3.1.11), Non-Hazardous Solid Waste Management Plan (Section 9.3.1.12), Spill Prevention and Emergency Response Plan (Section 9.3.1.13), Sediment and Erosion Control Plan (Section 9.3.1.14) and Blasting Management Plan (Section 9.3.15).	Section 7.4
P1-EA-449	Reduce indirect effects on outdoor tourism and recreational land and resource use by implementing the impact management measures identified in Sections 9.3.1 and 9.3.2 of the ESMP under the Dust/Air Quality Management Plan (Section 9.3.1.1), Noise Management Plan (Section 9.3.1.3), Spill Prevention and Emergency Response Plan (Section 9.3.1.13), Clean-up and Reclamation Plan (Section 9.3.1.17), Post-construction Monitoring Plan (Section 9.3.2.1) and Vegetation Management Plan (Section 9.3.2.2).	Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-450	Reduce indirect effects on outdoor tourism and recreational land and resource use by implementing the impact management measures applied to biophysical criteria as described in other sections of this EA (i.e., Sections 5.1 Surface Water, Section 5.3 Air Quality, Section 5.5 Noise, 6.1 Vegetation and Wetlands, Section 6.2 Fish and Fish Habitat, Section 6.3 Wildlife, and Section 7.5 Visual Aesthetics).	Section 7.4; Section 8.8
P1-EA-451	Reduce indirect effects on parks and protected areas by implementing the impact management measures identified in Section 9.3.1 of the ESMP under the Dust/Air Quality Management Plan (Section 9.3.1.1), Noise Management Plan (Section 9.3.1.3), Soil Handling Management Plan (Section 9.3.1.4), Rare Plant Management Plan (Section 9.3.1.6), Invasive Species Management Plan (Section 9.3.1.7), Material Storage and Handling Plan (Section 9.3.1.9), Liquid Waste Management Plan (Section 9.3.1.10), Hazardous Waste Management Plan (Section 9.3.1.11), Non-Hazardous Solid Waste Management Plan (Section 9.3.1.12), Spill Prevention and Emergency Response Plan (Section 9.3.1.13), Sediment and Erosion Control Plan (Section 9.3.1.14) and Blasting Management Plan (Section 9.3.1.15).	Section 7.4
P1-EA-452	Reduce indirect effects on parks and protected areas by implementing the impact management measures identified in Sections 9.3.1 and 9.3.2 of the ESMP under the Dust/Air Quality Management Plan (Section 9.3.1.1), Noise Management Plan (Section 9.3.1.3), Rare Plant Management Plan (Section 9.3.1.6), Invasive Species Management Plan (Section 9.3.1.7), Clean-up and Reclamation Plan (Section 9.3.1.17), Post-construction Monitoring Plan (Section 9.3.2.1) and Vegetation Management Plan (Section 9.3.2.2).	Section 7.4
P1-EA-453	Narrow the 40-m-wide transmission line alignment right-of-way (ROW) and minimize construction activity in the Project footprint in provincial parks where possible to avoid or to minimize potential effects to natural, cultural and recreational values.	Appendix 3.10A; Section 7.4
P1-EA-454	Reduce the transmission line alignment ROW width (to 30 m) by installing new towers on edge of existing ROW so that cleared ROW areas of transmission lines overlap each other in provincial parks.	Appendix 3.10A; Section 7.4
P1-EA-455	Mark known site-specific features clearly (e.g., rare vegetation communities, wetlands, significant wildlife habitat) and associated setbacks.	Appendix 3.10A; Section 7.4
P1-EA-456	Install signs on the ROW indicating park boundaries and to the extent practical, indicate alternate access points.	Section 7.4
P1-EA-457	To the extent practical, towers will be installed to blend in with landscape to mitigate visual effects.	Appendix 3.10A; Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-458	Confine construction activities to the surveyed and marked areas.	Appendix 3.10A; Section 7.4
P1-EA-459	Stage construction activities in provincial parks to avoid or minimize potential effects on ecologically sensitive areas, life cycle periods, cultural activities, to the extent practical. Schedule work activities in wet areas during frozen conditions, where possible.	Appendix 3.10A; Section 7.4
P1-EA-460	Schedule work activities in wet areas during frozen conditions, where possible.	Section 7.4
P1-EA-461	Minimize the number of towers in the provincial parks by spacing them at the maximum distance possible.	Appendix 3.10A; Section 7.4
P1-EA-462	Install all new towers in provincial parks by helicopter so that access roads for construction are not needed.	Appendix 3.10A; Section 7.4
P1-EA-463	Install self-supporting towers to minimize Project footprint in provincial parks.	Appendix 3.10A; Section 7.4
P1-EA-464	Clean equipment before moving it between provincial parks and conservation reserves and other non protected area land.	Section 7.4
P1-EA-465	Consider burying lines in parks and protected areas where effects to visual aesthetics is a concern.	Section 7.4
P1-EA-466	Avoid blasting and the storage of materials and equipment within provincial parks where possible.	Appendix 3.10A; Section 7.4
P1-EA-467	Undertake mechanical clearing only.	Appendix 3.10A; Section 7.4
P1-EA-468	Prevent temporary laydown areas or temporary construction camps in dedicated protected area.	Appendix 3.10A; Section 7.4
P1-EA-469	Project personnel will avoid areas that are flagged or fenced and abide by restrictions on in/out privileges that are implemented in areas requiring special protection due to environmentally sensitive features including those of natural, cultural and recreational value. Notify applicable federal and provincial regulatory agencies and interested community officials of the Project as warranted, and continue to engage throughout the planning process.	Appendix 3.10A; Section 7.4
P1-EA-470	Notify applicable federal and provincial regulatory agencies and interested municipal officials of the Project as warranted, and continue to engage throughout the planning process.	Section 7.4
P1-EA-471	Work with the MNRF within existing provincial park management plans and conservation reserve management statements.	Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-472	Engage with parks administrators to implement appropriate restriction protocols during construction and maintenance activities around specific natural, cultural and recreational values transected by the Project footprint in English River Provincial Park, Minnitaki Kames Provincial Park, Cat Lake Slate Falls community based LUP DPA, and Sandbar Lake and Sandbar Lake Provincial Park. Continue to consult with the MNRF and/or trail and canoe route operators to develop appropriate strategies to facilitate continued, uninterrupted use and access to parks and protected areas.	Section 7.4
P1-EA-473	Provide advance notice of construction activities to park users through formal notification in local newspapers and at park locations (e.g., park entrances).	Section 7.4
P1-EA-474	Acquire of applicable permits for construction and operation within parks and protected areas and adhere to applicable and adherence to conditions throughout the Project lifecycle.	Section 7.4
P1-EA-475	Develop the environmental and safety orientation program to be implemented by Wataynikaneyap with their contractor, including information about wildlife and species at risk awareness.	Appendix 3.10A; Section 7.4
P1-EA-476	Construct waterbody crossing structures according to the crossing method identified in Section 6.2 Fish and Fish Habitat; or modifications to the crossing requirements specified in approvals will be approved by Wataynikaneyap before construction begins.	Appendix 3.10A; Section 7.4
P1-EA-477	Clean construction equipment prior to crossing water waterbodies as necessary.	Appendix 3.10A; Section 7.4
P1-EA-478	Mark equipment or structures that may temporarily impede or be a hazard to navigation during the construction phase with yellow flashing warning lights or other similar warning signals. To minimize the duration and severity of disturbance, complete instream activity in the shortest timeframe practical.	Appendix 3.10A; Section 7.4
P1-EA-479	Place warning signs 150 meters (m) upstream and 100 m downstream of water crossings on scheduled waterways during construction (and maintain signage during operation) where required.	Appendix 3.10A; Section 7.4
P1-EA-480	Complete instream activity in the shortest timeframe practical to minimize the duration and severity of disturbance.	Appendix 3.10A; Section 7.4
P1-EA-481	Remove crossing materials following the completion of construction activities.	Appendix 3.10A; Section 7.4
P1-EA-482	Implement any additional impact management measures for waterbody crossings described in Section 5.1.7, Table 5.1-14 and Section 6.2, Table 6.2 15.	Appendix 3.10A; Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-483	<ul style="list-style-type: none"> ■ make sure temporary erosion control measures are properly installed; ■ installed before or immediately after initial disturbance; and ■ inspect and properly maintained (e.g., repaired, replaced or supplemented with functional materials) throughout construction until permanent erosion control is established or reclamation is complete; and ■ design construction routes to avoid key access roads / entrances to provincial parks to the extent practical, in engagement with dedicated and protected area administrators. 	Appendix 3.10A; Section 7.4
P1-EA-484	Implement erosion and sedimentation control measures to prevent sediment from reaching waterbodies prior to and during construction. Undertake specific impact management measures such as the use of berms, sediment fences and seeding as required to prevent the onset of erosion.	Appendix 3.10A; Section 7.4
P1-EA-485	Use native seed mix only in areas where erosion is a concern, otherwise use on-site plants (native trees, shrubs and ground cover) for revegetation.	Appendix 3.10A; Section 7.4
P1-EA-486	Seed erosion prone areas with a native cover crop and certified seed mix approved by the applicable regulatory agency, as soon as feasible after construction, wherever possible.	Appendix 3.10A; Section 7.4
P1-EA-487	Use seed following as close as possible to final cleanup and topsoil material replacement pending seasonal or weather conditions.	Appendix 3.10A; Section 7.4
P1-EA-488	Stabilize erodible soils as soon as practical by seeding, spreading mulch or installing erosion control blankets.	Appendix 3.10A; Section 7.4
P1-EA-489	Avoid burning merchantable timber as an impact management measure in the provincial park.	Appendix 3.10A; Section 7.4
P1-EA-490	No chemical vegetation control anywhere in the provincial park.	Appendix 3.10A; Section 7.4
P1-EA-491	Avoid grubbing/stripping of soil anywhere in the provincial park unless necessary in travel lanes in the ROW.	Appendix 3.10A; Section 7.4
P1-EA-492	Planting (not natural regeneration) laydown areas near provincial parks where visual aesthetics is a concern or where involvement to Crown land camping areas is not desired.	Appendix 3.10A; Section 7.4
P1-EA-493	Use existing roads and trails as much as possible to limit disturbances resulting from the construction of new access roads and trails.	Appendix 3.10A; Section 7.4
P1-EA-494	Establish signage to notify road users of road closures, lane closures, and other disturbances to local roadways.	Appendix 3.10A; Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-495	<p>Implement the measures outlined in the Traffic/Road Management Plan (Section 9.4.5) to mitigate potential Project effects on park access due to increased traffic, including (but not limited to):</p> <ul style="list-style-type: none"> ■ during peak traffic periods, plan activities such that traffic to and from the Project is spread out through the day to the extent feasible and allowed by the final construction schedule; ■ obey all local traffic laws, signs and speed limits; all vehicle movement on Project access roads or trails will be in accordance with applicable regulations and guidelines; ■ establish codes of conduct for drivers employed or contracted by the Project specifying that speed limits and other rules of the road and rules of the sea must be observed; ■ make sure all Project vehicle operators comply with their company's Project-approved environment, health and safety plans; and ■ flag site-specific features of concern so that traffic can avoid these areas Gate/ditch/berm/fence new travel lanes (assuming these are used for line maintenance, not for line construction) to limit travel to construction traffic and to prevent unplanned/undesired recreational access during operation/maintenance. 	Appendix 3.10A; Section 7.4
P1-EA-496	Allow for the boat launch near Highway 599 to remain available during construction, health and safety considerations permitting.	Appendix 3.10A; Section 7.4
P1-EA-497	Reduce indirect effects on dedicated and protected areas or provincial parks by implementing the impact management measures applied to all biophysical criteria as described in other sections of this EA (i.e., Section 6.1 Vegetation and Wetlands, Section 6.3 Wildlife, Section 6.2 Fish and Fish Habitat, Section 5.3 Air Quality, Section 5.5 Noise, Section 7.1 Archaeology, Section 7.2 Heritage Resources and Section 7.5 Visual Aesthetics).	Appendix 3.10A; Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-498	Reduce indirect effects on the dedicated protected area or provincial park by implementing the impact management measures identified in Section 9.3.1 of the ESMP under the Dust/Air Quality Management Plan (Section 9.3.1.1), Noise Management Plan (Section 9.3.1.3), Soil Handling Management Plan (Section 9.3.1.4), Rare Plant Management Plan (Section 9.3.1.6), Invasive Species Management Plan (Section 9.3.1.7), Material Storage and Handling Plan (Section 9.3.1.9), Liquid Waste Management Plan (Section 9.3.1.10), Hazardous Waste Management Plan (Section 9.3.1.11), Non-Hazardous Solid Waste Management Plan (Section 9.3.1.12), Spill Prevention and Emergency Response Plan (Section 9.3.1.13), Sediment and Erosion Control Plan (Section 9.3.1.14), Archaeology Management Plan (Section 9.3.1.18), Built Heritage Management Plan (Section 9.3.1.19) and Blasting Management Plan (Section 9.3.1.15).	Appendix 3.10A; Section 7.4
P1-EA-499	Prepare and implement a Clean-up and Reclamation Plan (Section 9.3.1.17). Work with park administrators to implement appropriate restriction protocols during maintenance activities in provincial parks.	Appendix 3.10A; Section 7.4
P1-EA-500	Acquire permits for operation within the provincial parks and adherence to conditions throughout the Project lifecycle.	Appendix 3.10A; Section 7.4
P1-EA-501	As required, notify applicable Aboriginal communities, provincial regulatory agencies, and interested community officials of the Project as warranted, and continue to engage throughout the operation stage.	Appendix 3.10A; Section 7.4
P1-EA-502	Use existing roads and trails where possible.	Appendix 3.10A; Section 7.4
P1-EA-503	Develop an environmental and safety orientation program to be implemented by Wataynikaneyap with their contractor(s), including information about wildlife and species at risk awareness.	Appendix 3.10A; Section 7.4
P1-EA-504	Avoid burning brush as a impact management measure in the dedicated protected area or provincial park.	Appendix 3.10A; Section 7.4
P1-EA-505	Avoid chemical vegetation control anywhere in Provincial Parks.	Appendix 3.10A; Section 7.4
P1-EA-506	Avoid grubbing/stripping of soil anywhere in provincial parks	Appendix 3.10A; Section 7.4
P1-EA-507	Install, monitor and manage erosion and sedimentation control measures at waterbody crossings to prevent erosion.	Appendix 3.10A; Section 7.4
P1-EA-508	Schedule work activities in wet areas during frozen conditions, where possible.	Appendix 3.10A; Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-509	Install berming, ditching, access gates etc. on travel lanes to make sure that mechanized traffic is minimized following the construction phase.	Appendix 3.10A; Section 7.4
P1-EA-510	Clean equipment before moving it between provincial parks.	Appendix 3.10A; Section 7.4
P1-EA-511	Engage with parks administrators to implement appropriate restriction protocols during maintenance activities around specific natural, cultural and recreational values transected by the Project footprint in English River Provincial Park, Minnitaki Kames Provincial Park, Cat Lake Slate Falls community based LUP DPA, and Sandbar Lake and Sandbar Lake Provincial Park.	
P1-EA-512	Engage with Aboriginal communities, MNRF and/or trail and canoe route operators to develop appropriate strategies to facilitate continued, uninterrupted use and access to provincial parks.	Appendix 3.10A; Section 7.4
P1-EA-513	Provide advance notice of maintenance activities to park users through formal notification in local newspapers and Community bulletin boards.	Appendix 3.10A; Section 7.4
P1-EA-514	Work with the MNRF within existing provincial park management plans and conservation reserve management statements.	
P1-EA-515	Mark equipment or structures that may temporarily impede or be a hazard to navigation during Project maintenance with yellow flashing warning lights or other similar warning signals to minimize the duration and severity of disturbance, complete instream activity in the shortest timeframe practical.	Appendix 3.10A; Section 7.4
P1-EA-516	Place warning signs 150 m upstream and 100 m downstream of water crossings on scheduled waterways during maintenance activities where required.	Appendix 3.10A; Section 7.4
P1-EA-517	Reduce indirect effects by implementing the impact management measures applied to biophysical criteria as described in other sections of this EA (i.e., Section 5.3 Air Quality, Section 5.5 Noise, Section 6.1 Vegetation and Wetlands, Section 6.2 Fish and Fish Habitat, Section 6.3 Wildlife, Section 7.1 Archaeological Resources, Section 7.2 Heritage Resources and Section 7.5 Visual Aesthetics).	Appendix 3.10A; Section 7.4
P1-EA-518	Reduce indirect effects by implementing the impact management measures identified in Sections 9.3.1 and 9.3.2 of the ESMP under the Dust/Air Quality Management Plan (Section 9.3.1.1), Noise Management Plan (Section 9.3.1.3), Rare Plant Management Plan (Section 9.3.1.6), Invasive Species Management Plan (Section 9.3.1.7), Clean-up and Reclamation Plan (Section 9.3.1.17), Archaeology Management Plan (Section 9.3.1.18), Built Heritage Management Plan (Section 9.3.1.19), Post-construction Monitoring Plan (Section 9.3.2.1) and Vegetation Management Plan (Section 9.3.2.2).	Appendix 3.10A; Section 7.4

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-519	Report wildlife sightings, issues and incidents with wildlife or nuisance wildlife as soon as it is safe to do so, and determine corrective and/or emergency action to be taken in the field.	Section 7.4; Section 8.8
P1-EA-520	Require all Project drivers to be properly licensed and trained according to specific vehicle type and operating conditions in addition to the hazards of the materials being transported.	Section 7.4
P1-EA-521	Resolve inconsistencies between conditions of different licenses, permits, approvals, certificates, plans and by-laws prior to construction, in engagement with relevant municipal, provincial and federal bodies.	Section 7.4
P1-EA-522	Stage construction activities in parks and protected areas to avoid or minimize potential effects on ecologically sensitive areas, life cycle periods, and peak visitor periods, where feasible.	Section 7.4
P1-EA-523	Supplement ground access for materials, equipment and personnel distribution may also be supplemented by helicopter transport.	Section 7.4
P1-EA-524	<p>Wataynikaneyap will use best practices to minimize effects to nearby potential claim holders, license holders and other tenure holders to the extent practicable. These measures will include, but are not limited to:</p> <ul style="list-style-type: none"> ■ respect of property boundaries; ■ pursuit of synergies with other companies for cost advantages, such as exchange of information for mutual benefit; ■ sharing of common interests such as emergency crews, and mine rescue teams that can benefit both parties; and ■ effective use of local physical and human resources. 	Section 7.4
P1-EA-525	Narrow the ROW and minimize construction activity in the Project footprint in parks and protected areas where possible to avoid natural, cultural and recreational values.	Section 7.4
P1-EA-526	Avoid and minimize disturbance to and implement access restrictions on trapline areas where possible.	Section 7.4; Section 8.8
P1-EA-527	Confine Project construction activities to surveyed and marked areas.	Section 7.4; Section 8.8
P1-EA-528	Place warning signs 150 m upstream and 100 m downstream of water crossings on navigable waterways during construction (and maintain signage during operation should navigation be impeded during the operation and maintenance stage).	Section 7.4; Section 8.8
P1-EA-529	Prohibit the harassment or feeding of wildlife by Project personnel.	Section 7.4; Section 8.8
P1-EA-530	Prohibited Project personnel from carrying firearms on the Project footprint, except for safety reasons, and from being accompanied by domestic animals (e.g., dogs).	Section 7.4; Section 8.8

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-531	Repair and rehabilitate trails affected by Project construction.	Section 7.4; Section 8.8
P1-EA-532	While most areas will only be restricted using signage, laydown areas will be fenced.	Section 7.4; Section 8.8
P1-EA-533	Moreover, the temporary access restrictions experienced during the 18 to 24-month construction stage will not be continuously in nature (as construction across the alignment will be completed using a staged approach, but rather, for a few weeks to a few months within the larger construction schedule, as Project construction progresses along the ROW.	Section 7.4; Section 8.8
P1-EA-534	Access restrictions to these zones and features during the operation and maintenance stage would be limited to infrequent, periodic maintenance activities; otherwise, the ROW will remain open and accessible to outdoor tourism and recreational users, and is expected to be actively used, in reviewing other Project experiences in the Northern Ontario context	Section 7.4; Section 8.8
P1-EA-535	This section identifies any recommended effects monitoring to verify the prediction of the effects assessment and to verify the effectiveness of the impact management measures and compliance monitoring to evaluate whether the Project has been constructed, implemented, and operated in accordance with the commitments made in the Final EA Report. No monitoring program for non-Aboriginal land and resource use is proposed.	Section 7.4
P1-EA-536	Consider adjusting locations of structures along the 40-m-wide transmission line alignment ROW to reduce effects to visual quality, where possible.	Section 7.5
P1-EA-537	Site final transmission line alignment to take advantage of existing screening offered by topography and/or vegetation.	Section 7.5
P1-EA-538	Use of predominantly H-Frame transmission structures to reduce contrast and visibility.	Section 7.5
P1-EA-539	ongoing engagement with the MNO R1CC, who have not had the opportunity to provide information on Métis citizen harvesting in the LSA;	Section 8.11
P1-EA-540	Wataynikaneyap will continue to engage with Mishkeegogamang First Nation, Eabametoong First Nation LDMLFN and MNO R1CC to collect TLRU data and information, understand potential effects to Aboriginal and Treaty Rights; and to consider these potential effects in Project design.	Section 8.11
P1-EA-541	During operation and maintenance, there will be no restriction of access or use along the ROW, except for brief periods during maintenance to ensure worker and public safety.	Section 8.3
P1-EA-542	During operation and maintenance, 40-m-wide transmission line alignment ROW will be maintained, where low lying vegetation is permitted.	Section 8.8

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-543	Temporary access restrictions will only be put in place for a few weeks to a few months in segmented areas within the larger construction schedule, as Project construction progresses along the ROW.	Section 8.8
P1-EA-544	Wataynikaneyap will work with Aboriginal communities to implement appropriate restriction protocols during maintenance activities.	Section 8.8
P1-EA-545	Continue to engage with First Nations trappers and trapline area license holders, and, where appropriate, develop mutually beneficial agreements with the affected license holders and trappers.	Section 8.8
P1-EA-546	Decommission and rehabilitate non-permanent access roads using applicable and appropriate methods and standards.	Section 8.8
P1-EA-547	Design construction routes so as to avoid key access roads/entrances to campsites, boat launches, and aquatic access points.	Section 8.8
P1-EA-548	Develop the environmental and safety orientation program, to be implemented by Wataynikaneyap with their contractor(s). The orientation program will include details on the expectation that noise levels will be minimized and maintained at minimal levels when working near Aboriginal communities engaged in harvesting activities.	Section 8.8
P1-EA-549	Wataynikaneyap will work with Aboriginal communities to encourage indigenous species for ongoing use (e.g. berries, wild rice).	Section 8.8
P1-EA-550	Access restrictions to access features during the operation and maintenance stage would be limited to infrequent, periodic maintenance activities; otherwise, traditional land and resource use area within the Project footprint for each proposed corridor will remain open and accessible to traditional land and resource users.	Section 8.9
P1-EA-551	Temporary access restrictions will only be put in place for a few weeks to a few months within the larger construction schedule, as Project construction progresses along the ROW.	Section 8.9
P1-EA-552	Annual monitoring for three consecutive years will be completed for wetlands that are effected during construction to evaluate reclamation success and implement appropriate remedial measures if required. Determine if additional monitoring is required and complete additional follow-up until it is determined that effects have been appropriately mitigated.	Section 12.0; Table 12.0-1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-553	<p>As part of the Social Management Plan, a monitoring program is proposed, to track the following information prior to and during the peak construction period:</p> <ul style="list-style-type: none"> ■ the number of local versus non-local hires; ■ the number of workers residing at each camp; ■ the percentage of construction workers who live in camps compared to commuting or staying in hotel or motel accommodation; and ■ potential changes in Project schedule that could influence the timing of peak construction. <p>This monitoring information will be shared with temporary accommodation providers and local government representatives from LSA communities, to help track temporary accommodation needs and assist in addressing any capacity constraints on local temporary accommodation during construction.</p>	Section 12.0; Table 12.0-1
P1-EA-554	<p>Conduct an appropriately designed soil assessment program during non-frozen soil conditions after one full growing season following clean-up to confirm reclamation success and determine if any soils issues persist in areas affected by construction (e.g., compaction, admixing, stoniness, contour restoration, and erosion). Where issues are identified through this assessment, implement remedial measures as soon as feasible and repeat soil assessment the following year to confirm reclamation success. Soil reclamation assessments should be repeated annually until no issues are identified.</p>	Section 12.0; Table 12.0-1
P1-EA-555	<p>Conduct annual vegetation monitoring when vegetation is mature enough for accurate identification and evaluation after the first full growing season following clean-up to confirm reclamation success and determine if any vegetation issues persist in areas affected by construction (e.g., weed infestations, poor vegetation establishment). Vegetation monitoring will be completed for three consecutive years to assess the longer-term success of the reclamation. Conduct additional soils assessments, if warranted, to identify the cause of vegetation issues, if any. Where issues are identified through this assessment, implement remedial measures as soon as feasible.</p>	Section 12.0; Table 12.0-1
P1-EA-556	<p>Erosion and Sediment Management Monitoring - Monitoring/inspections of all erosion and sediment management measures, bank stabilization features and coffer dams during construction.</p>	Section 12.0; Table 12.0-1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-557	Incidental Vegetation and Wildlife Monitoring – The development footprint will be monitored during construction for incidental sensitive features (e.g., rare vegetation communities, Significant Wildlife Habitat, and bat hibernacula) that have not previously been identified on or near the anticipated footprint. In the event that a sensitive feature is suspected, the Rare Plant Management Plan (Section 9.3.1.6) and Wildlife Management Plan (Section 9.3.1.8) will be implemented.	Section 12.0; Table 12.0-1
P1-EA-558	<p>Instream Monitoring Program – Monitoring will be done during instream construction (e.g., installation and removal of culverts) by a qualified Environmental Inspector to observe implementation and report on the effectiveness of the construction procedures and impact management measures for minimizing potential effects to surface water, fish and fish habitat. The program will include:</p> <ul style="list-style-type: none"> ■ Monitoring of turbidity and/or total suspended solids (TSS), coupled with monitoring of streamflow rates and/or water levels, at all waterbody crossings targeted for in stream works to verify effectiveness of dam and pump/diversion activities associated with the removal and/or installation of temporary or permanent crossing structures. ■ Monitoring of one or more surface water quantity and quality parameters at water taking or discharge locations to satisfy the conditions/requirements of water discharge plans related to applicable Permits To Take Water (PTTWs), Environmental Compliance Approvals (ECAs) or Environmental Activity and Sector Registry (EASR). 	Section 12.0; Table 12.0-1
P1-EA-559	Routine Inspections - Monitor the ROW and access roads on a annual basis for the life of the Project. Environmental issues that will be monitored are related to slope or bank erosion or wind and water erosion.	Section 12.0; Table 12.0-1
P1-EA-560	Soil topsoil piles will be monitored for weeds. The Invasive Species Management Plan (Section 9.3.1.7) will be implemented.	Section 12.0; Table 12.0-1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-561	Waterbody Crossing Monitoring Program –Monitoring will be conducted at new, permanent waterbody crossings to verify that erosion and sediment control measures have been successful (e.g., bank restoration and re-vegetation). The post-construction monitoring will occur within one full growing season after the completion of construction, but timing may be extended if needed. The integrity of the permanent crossing structures will be inspected annually in the spring for the life of the Project. Any changes to the morphology of the waterbody channel will be identified and addressed, as needed. At culverts, monitoring will be conducted annually to identify and remove blockages (e.g., ice, woody debris), as needed, that would otherwise lead to scouring and effects to channel morphology and fish habitat, and potentially interfere with fish passage. Monitoring of TSS and streamflow rates will also occur on a twice annual basis during the early stages of the operation and maintenance stage until pre-existing conditions are reached (to verify the effectiveness of reclamation measures).	Section 12.0; Table 12.0-1
P1-EA-562	<ul style="list-style-type: none"> ■ Groundwater Well Monitoring Program – Prior to construction, Wataynikaneyap will identify shallow domestic groundwater wells ■ If domestic groundwater wells are identified, Wataynikaneyap will provide the option to groundwater well owners to participate in a well monitoring program to determine pre-construction groundwater quality and quantity. ■ Wataynikaneyap will monitor groundwater quantity and quality during and post-construction, to compare to the pre-construction survey. 	Section 12.0; Table 12.0-1
P1-EA-563	Post-construction monitoring will be conducted at equipment waterbody crossings to verify that erosion and sediment control measures have been successful (e.g., bank restoration and re-vegetation) and that the stability of each waterbody crossing is maintained (i.e., the channel has not washed-out).	Section 12.0; Table 12.0-1
P1-EA-564	A visual audit will be conducted by a suitably qualified landscape design practitioner would occur at the commencement of operations to establish that predicted visual effects have occurred, to identify unforeseen effects and assess compliance with proposed impact management measures already in place. Additional monitoring throughout reclamation of temporary components would occur to confirm impact management measures are being established appropriately.	Section 12.0; Table 12.0-1
P1-EA-565	Should the EA be approved, ongoing discussions with Aboriginal communities, Aboriginal groups, and stakeholders will continue following the completion of the EA and through Project construction and operation and maintenance stages.	Section 9.4.4.1

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-566	Wataynikaneyap will establish a complaint resolution mechanism, to manage any instances where people feel they have grounds for complaint.	Section 9.4.4.2
P1-EA-567	Compliance monitoring will include monitoring of the implementation of the impact management measures throughout the Project lifecycle that are identified in the ESMP.	Section 9.5.1
P1-EA-568	Audits will be undertaken of the ESMP by an appropriately qualified person.	Section 7.3
P1-EA-569	Where available, FRI data will be used to map suitable habitat for this species to help focus pre-construction surveys.	Section 6.3;
P1-EA-570	No heavy development (e.g., road construction, clearing) should occur within 1,000 m of great blue heron colonies (if identified) from April 1 to August 15;	Section 6.3; Section 9.3.1.8
P1-EA-571	Avoid heavy development activities (e.g., construction, forest removal, and mining) within 800 m of an active osprey nest from April 15 to September 1.	Section 6.3; Section 9.3.1.8
P1-EA-572	Avoid construction within 200 m of a bald eagle nest year-round, where feasible.	Section 6.3; Section 9.3.1.8
P1-EA-573	Avoid construction within 400 m of active (i.e., used for reproduction) bald eagle nests between February 15 and August 15.	Section 3,0 Section 6.3; Section 9.3.1.8
P1-EA-574	Where applicable, management of wastewater will be in compliance with ECAs issued by the MOECC under the <i>Environmental Protection Act</i> for the following situations: <ul style="list-style-type: none"> ■ If groundwater taken for construction dewatering is contaminated, treatment might be required before it is discharged and in such case a sewage ECA needs to be obtained. ■ If vehicle and equipment washing water is collected and temporarily contained prior to disposal, a sewage ECA needs to be obtained for holding tanks and/or containers. ■ If the theoretical daily flows for domestic wastewater and grey water are more than 10,000 L/day, a sewage ECA needs to be obtained for the leaching beds. Additionally, a sewage ECA may need to be obtained for the management of storm water drainage from the spill containment area of the Transformer Station in the event of a spill (collection and temporary containment of water prior to disposal).	Section 5.1
P1-EA-575	For temporary waterbody crossings (i.e., waterbody crossings required for a limited period of time restricted to the Construction stage of the Project), a first order hydraulic analysis is considered appropriate, such as Manning's approach and/or MTO design standards and methodology, will be completed to verify flow conveyance conditions under the design event.	Section 5.1 Section 6.2

Table 12.0-2: Commitments for the Phase 1 New Transmission Line to Pickle Lake

Commitment ID	Commitment	Location in the EA Report
P1-EA-576	Wataynikaneyap employees and contractors will be informed of provincial parks boundaries; and where access to specific parks is permitted/prohibited and any special rules that apply to minimize potential effects to parks and protected areas.	Section 7.4
P1-EA-577	Wataynikaneyap will adhere to the timing restrictions during the operation and maintenance stage and during mechanical vegetation management. If Wataynikaneyap cannot adhere to these restrictions under emergency circumstances, Wataynikaneyap will engage with the relevant agencies.	Section 14.0, MNRFPD-44