



**ENVIRONMENTAL ASSESSMENT REPORT FOR THE PHASE 1
NEW TRANSMISSION LINE TO PICKLE LAKE PROJECT
SECTION 5.0: PHYSICAL ENVIRONMENT BASELINE
CHARACTERIZATION AND EFFECTS ASSESSMENT**

APPENDIX 5.1C

Surface Water Data

Table 5.1C-1: Active Permits to Take Surface Water and Groundwater

Permit No.	Permit Holder	Source Name	Latitude	Longitude	UTM Zone	Easting (m)	Northing (m)	Source Type	Water Taking Category	Water Taking Purpose	Maximum Volume per Day (L/day)	Maximum Days per Year (days/year)	Maximum Hours per Day (hours/day)	Maximum Rate (L/min)	Date Permit Issued	Date Permit Expires	Municipality Where Permit Source is Located
3606-6UJQ5L	The Corporation of the Municipality of Sioux Lookout	Pelican Lake	50.09115	-91.9231	15	577029	5549320	Surface Water	Water Supply	Municipal	5,475,000	365	24	3,802	10/13/2006	10/13/2016	Sioux Lookout
6767-ADCPXH	The Corporation of the Municipality of Sioux Lookout	Pelican Lake	50.09113	-91.9231	15	577031	5549318	Surface Water	Water Supply	Municipal	5,475,000	365	24	3,802	09/01/2016	09/01/2026	Sioux Lookout
4702-9K GK7U	Ontario Infrastructure and Lands Corporation	MNRF Fire Attack Station Well #3 (Main)	51.44897	-90.2192	15	693221	5703422	Ground Water	Water Supply	Communal	64,800	365	24	45	05/27/2014	05/15/2024	Pickle Lake
4702-9K GK7U	Ontario Infrastructure and Lands Corporation	MNRF Fire Attack Station Well #2 (Back Up)	51.44834	-90.2192	15	693223	5703352	Ground Water	Water Supply	Communal	25,920	365	24	18	05/27/2014	05/15/2024	Pickle Lake
0386-A27PHJ	The Corporation of the Township of Pickle Lake	Well 1	51.47052	-90.1866	15	695392	5705905	Ground Water	Water Supply	Municipal	1,987,200	365	24	1,380	09/29/2015	09/30/2025	Pickle Lake
0386-A27PHJ	The Corporation of the Township of Pickle Lake	Well 2	51.47052	-90.1866	15	695392	5705905	Ground Water	Water Supply	Municipal	1,382,400	365	24	960	09/29/2015	09/30/2025	Pickle Lake

Notes:

L/day = litres per day; L/min = litres per minute; MNRF = Ontario Ministry of Natural Resources.

Table 5.1C-2: Disturbed Area in Catchments to Selected Surface Water Assessment Points

Assessment Point	Watercrossing ID	Assessment Point Location	UTM Zone	Latitude	Longitude	Stream Order	Drainage Area (km ²)	Disturbed Area (km ²)	Disturbed Area (%)	Primary Surficial Geology	Tertiary Watershed ID	Tertiary Watershed Name	Waterbody Name	Corridor
AP1	10.0-WC-P-R	Access Road	15N	540726.7	5498615	1	5.28	0.030	0.6%	Glaciomarine deposits	5QC	Wabigoon	Unnamed Watercourse	Preferred Corridor
AP2	70.0-WC-P	ROW	15N	549380.8	5504272	1	0.30	0.0074	2.4%	Bedrock	5QC	Wabigoon	Unnamed watercourse	Preferred Corridor
AP3	80.0-WC-P	ROW	15N	550462.3	5504890	1	0.48	0.021	4.3%	Bedrock	5QC	Wabigoon	Melgund Creek	Preferred Corridor
AP4	120.0-WC-P-R	Access Road	15N	549244.9	5505133	1	0.42	0.0020	0.5%	Bedrock	5QC	Wabigoon	McHuch Creek	Preferred Corridor
AP5	30.0-WC-P-R	Access Road	15N	538505.4	5505187	3	68.3	0.40	0.6%	Bedrock	5QC	Wabigoon	Hebden Brook	Preferred Corridor
AP6	90.0-WC-P	ROW	15N	551522.6	5505475	1	2.10	0.025	1.2%	Glaciofluvial ice-contact deposits	5QC	Wabigoon	Unnamed watercourse	Preferred Corridor
AP7	340.0-WC-P-R	Access Road	15N	562405.8	5513538	4	121.7	0.67	0.6%	Bedrock	5QA	Upper English	Suzanne River	Preferred Corridor
AP8	360.0-WC-P-R	Access Road	15N	563655	5513703	1	0.68	0	0	Glaciofluvial outwash deposits	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP9	390.0-WC-P-R	Access Road	15N	565777.5	5514197	2	2.04	0.085	4.2%	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP10	190.0-WC-P	ROW	15N	567838.9	5515536	2	3.92	0.10	2.6%	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP11	440.0-WC-P-R	Access Road	15N	569608	5516872	1	0.59	0.090	15.3%	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP12	520.0-WC-P-R	Access Road	15N	586740.4	5527152	1	0.89	0	0	Glaciofluvial ice-contact deposits	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP13	370.0-WC-P	ROW	15N	588588.2	5528083	1	1.48	0.061	4.1%	Organic deposits	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP14	380.0-WC-P	ROW	15N	589721.2	5529732	1	1.11	0.024	2.2%	Glaciomarine deposits	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP15	400.0-WC-P	ROW	15N	590447.2	5531414	>4	7,272	n/a ^(a)	negligible	Bedrock	5QA	Upper English	English River	Preferred Corridor
AP16	410.0-WC-P	ROW	15N	590569	5531744	1	0.29	0.019	6.6%	Glaciomarine deposits	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP17	420.0-WC-P	ROW	15N	590926.6	5532711	2	9.19	0.078	0.9%	Glaciofluvial outwash deposits	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP18	430.0-WC-P	ROW	15N	592050.9	5535752	4	176.9	0.057	0.03%	Bedrock	5QA	Upper English	Minnikau Creek	Preferred Corridor
AP19	440.0-WC-P	ROW	15N	592877.3	5537987	1	0.028	0.0049	17.6%	Organic deposits	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP20	450.0-WC-P	ROW	15N	593836.8	5540582	1	0.067	0.0046	6.8%	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP21	670.0-WC-P-R	Access Road	15N	593806.1	5544553	2	11.29	0.204	1.8%	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP22	480.0-WC-P	ROW	15N	596180.8	5546653	1	0.24	0.018	7.6%	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP23	490.0-WC-P	ROW	15N	596299.2	5546929	2	1.00	0.0070	0.7%	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP24	500.0-WC-P	ROW	15N	596825.7	5548154	1	0.53	0.020	3.7%	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP25	560.0-WC-P	ROW	15N	602824.6	5558886	>4	4,417	n/a ^(a)	negligible	Bedrock	5QA	Upper English	Sturgeon River	Preferred Corridor

Table 5.1C-2: Disturbed Area in Catchments to Selected Surface Water Assessment Points

Assessment Point	Watercrossing ID	Assessment Point Location	UTM Zone	Latitude	Longitude	Stream Order	Drainage Area (km ²)	Disturbed Area (km ²)	Disturbed Area (%)	Primary Surficial Geology	Tertiary Watershed ID	Tertiary Watershed Name	Waterbody Name	Corridor
AP26	710.0-WC-P-R	Access Road	15N	598921.1	5559573	1	0.29	0	0	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP27	570.0-WC-P	ROW	15N	601494.6	5561045	2	7.17	0.089	1.2%	Bedrock	5QA	Upper English	Unnamed Watercourse	Preferred Corridor
AP28	640.0-WC-P	ROW	15N	598386.9	5567160	4	127.6	0.24	0.2%	Bedrock	5QB	Central English - Lac Seul	Bindo Lake	Preferred Corridor
AP29	650.0-WC-P	ROW	15N	598278.2	5567511	1	1.61	0.013	0.8%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP30	660.0-WC-P	ROW	15N	597843.2	5567763	1	1.42	0.037	2.6%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP31	670.0-WC-P	ROW	15N	597523.5	5568833	1	0.55	0.022	3.9%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP32	680.0-WC-P	ROW	15N	597583.7	5570084	4	36.94	0.026	0.1%	Bedrock	5QB	Central English - Lac Seul	Lip Creek	Preferred Corridor
AP33	20.0-WC-P-LA	Laydown Area	15N	597397	5570316	1	n/a ^(b)	n/a ^(b)	20%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP34	694.0-WC-P	ROW	15N	597303.5	5570767	1	n/a ^(b)	n/a ^(b)	3%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP35	700.0-WC-P	ROW	15N	597050.6	5571384	2	1.17	0.011	0.9%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP36	710.0-WC-P	ROW	15N	596227.6	5573855	3	3.70	0.074	2.0%	Bedrock	5QB	Central English - Lac Seul	Thorsten Lake	Preferred Corridor
AP37	760.0-WC-P-R	Access Road	15N	595356.2	5573941	1	0.068	0	0	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP38	770.0-WC-P-R	Access Road	15N	593153.9	5576007	1	n/a ^(c)	0	0	Till	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP39	790.0-WC-P-R	Access Road	15N	594492.1	5576011	1	0.65	0	0	Till	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP40	780.0-WC-P-R	Access Road	15N	594398.3	5576021	1	n/a ^(c)	0	0	Till	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP41	810.0-WC-P-R	Access Road	15N	594789.8	5576337	4	49.57	0.12	0.2%	Till	5QB	Central English - Lac Seul	Holger Creek	Preferred Corridor
AP42	820.0-WC-P-R	Access Road	15N	597409	5579501	3	5.87	0.088	1.5%	Glaciomarine deposits	5QB	Central English - Lac Seul	Per Creek	Preferred Corridor
AP43	30.0-WC-P-LA	Laydown Area	15N	598310.5	5580287	>4	821.7	1.08	0.1%	Bedrock	5QB	Central English - Lac Seul	Vermilion River	Preferred Corridor
AP44	900.0-WC-P	ROW	15N	602250.6	5590187	1	0.02	0.007	31.8%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP45	890.0-WC-P-R	Access Road	15N	603675	5599346	3	7.95	0.075	0.9%	Bedrock	5QB	Central English - Lac Seul	Tully Creek	Preferred Corridor
AP46	940.0-WC-P-R	Access Road	15N	605088.5	5602267	2	2.47	0.065	2.6%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP47	1020.0-WC-P	ROW	15N	606170	5603593	1	1.26	0.013	1.1%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP48	1030.0-WC-P	ROW	15N	606161	5604172	2	3.31	0.040	1.2%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor

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Assessment Point	Watercrossing ID	Assessment Point Location	UTM Zone	Latitude	Longitude	Stream Order	Drainage Area (km ²)	Disturbed Area (km ²)	Disturbed Area (%)	Primary Surficial Geology	Tertiary Watershed ID	Tertiary Watershed Name	Waterbody Name	Corridor
AP49	1050.0-WC-P	ROW	15N	606100	5606592	1	1.34	0.023	1.7%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP50	1060.0-WC-P	ROW	15N	605630.6	5609793	2	2.86	0.020	0.7%	Till	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP51	1070.0-WC-P	ROW	15N	605577.4	5612252	1	6.28	0.032	0.5%	Till	5QB	Central English - Lac Seul	Ecar Creek	Preferred Corridor
AP52	1080.0-WC-P	ROW	15N	605995.7	5614337	1	1.35	0.014	1.1%	Bedrock	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP53	1090.0-WC-P	ROW	15N	606159.7	5615154	1	0.67	0.021	3.2%	Glaciomarine deposits	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP54	1110.0-WC-P	ROW	15N	606447.3	5616588	1	0.21	0.024	11.4%	Glaciomarine deposits	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP55	1120.0-WC-P	ROW	15N	606550.2	5617100	1	0.44	0.0087	2.0%	Glaciomarine deposits	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP56	1130.0-WC-P	ROW	15N	606650.3	5617599	1	0.77	0.011	1.4%	Glaciomarine deposits	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP57	1140.0-WC-P	ROW	15N	606943.3	5619212	1	1.28	0.027	2.1%	Glaciomarine deposits	5QB	Central English - Lac Seul	Unnamed Watercourse	Preferred Corridor
AP58	1150.0-WC-P	ROW	15N	606859.3	5619576	>4	13,087	n/a ^(a)	negligible	Bedrock	5QB	Central English - Lac Seul	Root River	Preferred Corridor
AP59	1442.0-WC-P	ROW	15N	627773.6	5675325	1	1.18	0.19	16.3%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Preferred Corridor
AP60	1470.0-WC-P	ROW	15N	641862.8	5677163	3	39.11	0.29	0.7%	Till	4FA	Otoskwin	Kawinogans River	Preferred Corridor
AP61	1480.0-WC-P	ROW	15N	642055.5	5677227	2	2.23	0.068	3.1%	Till	4FA	Otoskwin	Unnamed Watercourse	Preferred Corridor
AP62	1500.0-WC-P	ROW	15N	647649.7	5678933	1	1.99	0.066	3.3%	Till	4FA	Otoskwin	Unnamed Watercourse	Preferred Corridor
AP63	1510.0-WC-P	ROW	15N	648087.9	5679067	2	31.97	0.041	0.1%	Till	4FA	Otoskwin	Unnamed Watercourse	Preferred Corridor
AP64	1520.0-WC-P	ROW	15N	654592.5	5680278	3	35.78	0.16	0.4%	Till	4FA	Otoskwin	Duffell Creek	Preferred Corridor
AP65	1090.0-WC-P-R	Access Road	15N	662647.5	5687028	1	5.54	0.14	2.4%	Bedrock	4FA	Otoskwin	Unnamed Watercourse	Preferred Corridor
AP66	1101.0-WC-P-R	Access Road	15N	670920.1	5695338	1	0.57	0.005	0.8%	Till	4FA	Otoskwin	Unnamed Watercourse	Preferred Corridor
AP67	1610.0-WC-P	ROW	15N	673888.7	5695751	4	297.1	0.27	0.1%	Till	4FA	Otoskwin	Carpenter River	Preferred Corridor
AP68	1630.0-WC-P	ROW	15N	678078.6	5697946	1	2.51	0.054	2.1%	Glaciofluvial ice-contact deposits	4FA	Otoskwin	Unnamed Watercourse	Preferred Corridor
AP69	1150.0-WC-P-R	Access Road	15N	688380.5	5702704	1	0.79	0.0022	0.3%	Till	4FA	Otoskwin	Unnamed Watercourse	Preferred Corridor
AP70	1140.0-WC-P-R	Access Road	15N	687796.6	5702966	4	54.10	0.45	0.8%	Till	4FA	Otoskwin	Unnamed Watercourse	Preferred Corridor
AP71	10.0-WC-A	ROW	15N	579913.2	5480093	3	28.22	0.17	0.6%	Bedrock	5QC	Wabigoon	Little Wabigoon River	Corridor Alternative through and around Mishkeegogamang

Table 5.1C-2: Disturbed Area in Catchments to Selected Surface Water Assessment Points

Assessment Point	Watercrossing ID	Assessment Point Location	UTM Zone	Latitude	Longitude	Stream Order	Drainage Area (km ²)	Disturbed Area (km ²)	Disturbed Area (%)	Primary Surficial Geology	Tertiary Watershed ID	Tertiary Watershed Name	Waterbody Name	Corridor
AP72	80.0-WC-A	ROW	15N	593042.6	5480909	4	170.0	0.35	0.2%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP73	90.0-WC-A	ROW	15N	595220.6	5480948	1	4.45	0.0027	0.1%	Glaciofluvial outwash deposits	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP74	120.0-WC-A	ROW	15N	596616.8	5481307	2	3.38	0.024	0.7%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP75	130.0-WC-A	ROW	15N	596850.2	5481630	1	2.07	0.0060	0.3%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP76	140.0-WC-A	ROW	15N	597202.6	5482117	4	287.4	0.60	0.2%	Bedrock	5QA	Upper English	Agimak River	Corridor Alternative through and around Mishkeegogamang
AP77	290.0-WC-A	ROW	15N	612236	5489412	1	1.18	0.018	1.5%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP78	300.0-WC-A	ROW	15N	613382.6	5490991	1	1.42	0.011	0.7%	Till	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP79	301.0-WC-A	ROW	15N	613527.3	5491190	1	0.98	0.042	4.3%	Till	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP80	310.0-WC-A	ROW	15N	617396.8	5496518	>4	4,224	n/a ^(a)	negligible	Bedrock	5QA	Upper English	English River	Corridor Alternative through and around Mishkeegogamang
AP81	170.0-WC-A-R	Access Road	15N	620637.7	5501107	4	165.7	0.28	0.2%	Bedrock	5QA	Upper English	Crystal River	Corridor Alternative through and around Mishkeegogamang
AP82	360.0-WC-A	ROW	15N	624496.7	5506293	1	0.21	0.025	12.3%	Bedrock	5QA	Upper English	Unnamed Lake/Pond	Corridor Alternative through and around Mishkeegogamang
AP83	370.0-WC-A	ROW	15N	625189.4	5507247	1	0.75	0.040	5.3%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP84	380.0-WC-A	ROW	15N	626086.2	5508482	2	3.82	0.080	2.1%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP85	390.0-WC-A	ROW	15N	627468.2	5510385	1	1.65	0.0057	0.3%	Glaciomarine deposits	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP86	400.0-WC-A	ROW	15N	627738.8	5510757	1	0.14	0.012	8.8%	Glaciomarine deposits	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP87	410.0-WC-A	ROW	15N	628115.1	5511275	1	2.03	0.013	0.7%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang

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Assessment Point	Watercrossing ID	Assessment Point Location	UTM Zone	Latitude	Longitude	Stream Order	Drainage Area (km ²)	Disturbed Area (km ²)	Disturbed Area (%)	Primary Surficial Geology	Tertiary Watershed ID	Tertiary Watershed Name	Waterbody Name	Corridor
AP88	420.0-WC-A	ROW	15N	628528.6	5511845	3	5.17	0.071	1.4%	Glaciomarine deposits	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP89	440.0-WC-A	ROW	15N	630836.6	5515188	1	0.72	0.0074	1.0%	Glaciofluvial ice-contact deposits	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP90	450.0-WC-A	ROW	15N	630813.2	5516635	1	0.55	0.034	6.1%	Glaciofluvial outwash deposits	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP91	490.0-WC-A	ROW	15N	632201.2	5525704	2	1.28	0.012	1.0%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP92	510.0-WC-A	ROW	15N	632281.1	5527343	1	1.92	0.046	2.4%	Glaciomarine deposits	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP93	240.0-WC-A-R	Access Road	15N	631817	5528651	1	1.40	0.046	3.3%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP94	630.0-WC-A	ROW	15N	651866.7	5548662	1	0.84	0.036	4.3%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP95	640.0-WC-A	ROW	15N	653338.5	5549252	>4	1,548	n/a ^(a)	negligible	Bedrock	5QA	Upper English	Sturgeon River	Corridor Alternative through and around Mishkeegogamang
AP96	660.0-WC-A	ROW	15N	656536.7	5553796	1	4.40	0.078	1.8%	Bedrock	5QA	Upper English	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP97	670.0-WC-A	ROW	15N	656758.6	5554278	2	1.40	0.029	2.1%	Bedrock	5QA	Upper English	Unnamed Lake/Pond	Corridor Alternative through and around Mishkeegogamang
AP98	930.0-WC-A	ROW	15N	669711.6	5590205	>4	141.2	0.97	0.7%	Bedrock	5QA	Upper English	Marchington River	Corridor Alternative through and around Mishkeegogamang
AP99	1070.0-WC-A	ROW	15N	668966.1	5601705	1	0.26	0.016	6.1%	Bedrock	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP100	20.0-WC-A-CC	Construction Camp	15N	669796.8	5601820	3	6.97	0.25	3.7%	Bedrock	4GA	Upper Albany - Cat	Unnamed Lake/Pond	Corridor Alternative through and around Mishkeegogamang
AP101	1080.0-WC-A	ROW	15N	668920.3	5602413	4	6.84	0.022	0.3%	Bedrock	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP102	1090.0-WC-A	ROW	15N	668904.2	5603548	1	0.01	0.0038	29.5%	Bedrock	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP103	1100.0-WC-A	ROW	15N	668925.6	5605140	1	0.04	0.0024	6.4%	Organic deposits	4GA	Upper Albany - Cat	Unnamed Lake/Pond	Corridor Alternative through and around Mishkeegogamang

Table 5.1C-2: Disturbed Area in Catchments to Selected Surface Water Assessment Points

Assessment Point	Watercrossing ID	Assessment Point Location	UTM Zone	Latitude	Longitude	Stream Order	Drainage Area (km ²)	Disturbed Area (km ²)	Disturbed Area (%)	Primary Surficial Geology	Tertiary Watershed ID	Tertiary Watershed Name	Waterbody Name	Corridor
AP104	1180.0-WC-A	ROW	15N	674133.9	5624086	2	4.92	0.14	2.9%	Bedrock	4GA	Upper Albany - Cat	Unnamed Lake/Pond	Corridor Alternative through and around Mishkeegogamang
AP105	1200.0-WC-A	ROW	15N	675289.1	5626583	1	0.74	0.031	4.2%	Bedrock	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP106	40.0-WC-A-CC	Construction Camp	15N	676493.4	5626759	1	0.13	0.052	38.6%	Bedrock	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP107	1220.0-WC-A	ROW	15N	676476.4	5634239	4	170.0	0.63	0.4%	Bedrock	4GA	Upper Albany - Cat	Little Pashkokogan River	Corridor Alternative through and around Mishkeegogamang
AP108	1230.0-WC-A	ROW	15N	676124.6	5635211	1	0.56	0.010	1.8%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP109	1250.0-WC-A	ROW	15N	679486.9	5644904	1	1.60	0.049	3.1%	Till	4GA	Upper Albany - Cat	Unnamed Lake/Pond	Corridor Alternative through and around Mishkeegogamang
AP110	1260.0-WC-A	ROW	15N	680477.3	5647023	1	0.10	0.013	12.5%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP111	1266.0-WC-A	ROW	15N	681434.3	5648407	1	n/a ^(b)	n/a ^(b)	20.00%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative through and around Mishkeegogamang
AP112	1270.0-WC-A	ROW	15N	681835.7	5649521	3	144.3	0.21	0.1%	Till	4GA	Upper Albany - Cat	Payne River	Corridor Alternative through and around Mishkeegogamang
AP113	1280.0-WC-A	ROW	15N	681944	5649807	1	1.09	0.084	7.7%	Glaciofluvial ice-contact deposits	4GA	Upper Albany - Cat	Unnamed Lake/Pond	Corridor Alternative through and around Mishkeegogamang
AP114	10.0-WC-AT	ROW	15N	682559.7	5651156	2	4.69	0.14	3.0%	Till	4GA	Upper Albany - Cat	Unnamed Lake/Pond	Corridor Alternative Through Mishkeegogamang
AP115	20.0-WC-AT	ROW	15N	682607.4	5652716	1	n/a ^(b)	n/a ^(b)	10%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative Through Mishkeegogamang
AP116	70.0-WC-AT	ROW	15N	690736.3	5661250	3	26.69	0.33	1.2%	Till	4GA	Upper Albany - Cat	Eric Lake	Corridor Alternative Through Mishkeegogamang
AP117	100.0-WC-AT	ROW	15N	695183	5666034	1	2.37	0.024	1.0%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative Through Mishkeegogamang
AP118	160.0-WC-AT	ROW	15N	694142.1	5676564	1	3.03	0.099	3.3%	Till	4GA	Upper Albany - Cat	Unnamed Lake/Pond	Corridor Alternative Through Mishkeegogamang
AP119	60.0-WC-AT-R	Access Road	15N	691999.1	5686021	1	5.36	0.10	1.9%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative Through Mishkeegogamang

Table 5.1C-2: Disturbed Area in Catchments to Selected Surface Water Assessment Points

Assessment Point	Watercrossing ID	Assessment Point Location	UTM Zone	Latitude	Longitude	Stream Order	Drainage Area (km ²)	Disturbed Area (km ²)	Disturbed Area (%)	Primary Surficial Geology	Tertiary Watershed ID	Tertiary Watershed Name	Waterbody Name	Corridor
AP120	210.0-WC-AT	ROW	15N	692036.3	5689682	1	2.69	0.0046	0.2%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative Through Mishkeegogamang
AP121	220.0-WC-AT	ROW	15N	692096.6	5689964	1	3.91	0.043	1.1%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative Through Mishkeegogamang
AP122	240.0-WC-AT	ROW	15N	692718.3	5692815	1	0.27	0.022	8.1%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative Through Mishkeegogamang
AP123	10.0-WC-AA	ROW	15N	681541.5	5651140	1	2.96	0.046	1.5%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative Through Mishkeegogamang
AP124	130.0-WC-AA	ROW	15N	680309.1	5662795	4	376.4	1.64	0.4%	Till	4GA	Upper Albany - Cat	Lake St. Joseph	Corridor Alternative Through Mishkeegogamang
AP125	160.0-WC-AA	ROW	15N	684447.8	5672135	4	301.5	1.56	0.5%	Till	4GA	Upper Albany - Cat	Doghole River	Corridor Alternative Through Mishkeegogamang
AP126	170.0-WC-AA	ROW	15N	684119.7	5673069	1	3.16	0.040	1.3%	Till	4GA	Upper Albany - Cat	Unnamed Watercourse	Corridor Alternative Through Mishkeegogamang
AP127	190.0-WC-AA	ROW	15N	683480.1	5674885	1	n/a ^(b)	n/a ^(b)	2.0%	Till	4GA	Upper Albany - Cat	Unnamed Lake/Pond	Corridor Alternative Through Mishkeegogamang
AP128	10.0-WC-R	Access Road	15N	697203.8	5702983	3	63.97	0.96	1.5%	Till	4FA	Otoskwin	Fault Creek	All three corridors
AP129	30.0-WC	ROW	15N	697462.7	5706257	1	9.21	0.036	0.4%	Till	4FA	Otoskwin	Unnamed Watercourse	All three corridors

Notes:

a) Disturbed area was not measured due to large size of the watershed and visual assessment that disturbed area would be negligible.

b) Ontario Flow Assessment Tool (OFAT) was unable to delineate a waterbody at this location; disturbed area determined through visual estimation.

c) Watercrossing at existing road. No new project infrastructure exists within this watershed, therefore these areas were not measured.

n/a = not applicable; > = greater than; km² = square kilometres; A = Corridor Alternative Around Mishkeegogamang and Corridor Alternative Through Mishkeegogamang; AA = Corridor Alternative Around Mishkeegogamang; AT = Corridor Alternative Through Mishkeegogamang; CC = Construction Camp; DS = Downstream; LA = Laydown Area; P = Preliminary Proposed Corridor; R = road or trail; ROW = right-of-way; UTM = Universal Transverse Mercator; WC = waterbody crossing.