

# **APPENDIX 7-I**

## **Surface Water Data**

## APPENDIX 7-I SURFACE WATER DATA

Table 7-I-1: Characteristics of River Systems Crossed by the Project

River System Name	Tertiary Watershed ID	Tertiary Watershed Name	Stream Order <sup>(a)</sup>	Watershed Area (km <sup>2</sup> ) <sup>(b)</sup>	Shape Factor	Length of Main Channel (km)	Topographic Relief (m)	Channel Slope (%)	Open Water Area (km <sup>2</sup> )	Wetland Area (km <sup>2</sup> )	Total Water Area (km <sup>2</sup> )	Annual Precipitation (mm) <sup>(b)</sup>
Unnamed Creek 1	2AC	Black Sturgeon	2	1.71	7.7	3.63	181	5.00	0.00	0.04	0.04	697
Unnamed Creek 2	2AC	Black Sturgeon	1	1.03	7.2	2.72	135	4.96	0.00	0.04	0.04	697
Wild Goose Creek	2AC	Black Sturgeon	4	14.04	14.1	14.07	340	2.41	0.21	0.59	0.80	697
Blind Creek	2AC	Black Sturgeon	3	11.15	9.8	10.44	283	2.71	0.17	0.76	0.93	697
Unnamed Creek 3	2AC	Black Sturgeon	1	3.35	7.3	4.94	184	3.74	0.03	0.12	0.15	675
Unnamed Creek 4	2AC	Black Sturgeon	1	1.70	8.8	3.86	160	4.14	0.00	0.13	0.13	675
Unnamed Creek 5	2AC	Black Sturgeon	1	1.69	8.5	3.80	159	4.17	0.00	0.13	0.13	675
Unnamed Creek 6	2AC	Black Sturgeon	1	3.66	6.1	4.73	143	3.03	0.01	0.17	0.19	675
Unnamed Creek 7	2AC	Black Sturgeon	1	2.84	5.3	3.89	135	3.47	0.00	0.00	0.00	675
Mackenzie River	2AC	Black Sturgeon	6	365.54	8.2	54.80	341	0.62	8.78	15.07	23.85	711
Unnamed Creek 8	2AC	Black Sturgeon	2	1.68	9.6	4.01	117	2.92	0.02	0.05	0.06	675
Unnamed Creek 9	2AC	Black Sturgeon	1	2.43	7.7	4.31	151	3.50	0.00	0.12	0.12	678
Unnamed Creek 10	2AC	Black Sturgeon	2	3.46	8.2	5.31	155	2.92	0.02	0.37	0.39	697
Unnamed Creek 11	2AC	Black Sturgeon	1	6.36	10.2	8.07	140	1.74	0.08	0.66	0.74	697
Unnamed Creek 12	2AC	Black Sturgeon	1	3.33	9.5	5.63	145	2.57	0.01	0.35	0.36	695
Coldwater Creek	2AC	Black Sturgeon	4	136.69	16.5	47.45	248	0.52	3.72	8.99	12.71	706
Wolf River	2AC	Black Sturgeon	5	729.30	15.0	104.48	344	0.33	43.33	19.50	62.83	700
Unnamed Creek 13	2AC	Black Sturgeon	2	136.69	16.5	47.45	248	0.52	3.72	8.99	12.71	706
Morrow Creek	2AC	Black Sturgeon	2	7.83	14.7	10.72	169	1.57	0.15	0.59	0.74	706
Unnamed Creek 14	2AC	Black Sturgeon	2	10.27	21.2	14.74	177	1.20	0.15	3.09	3.23	735
Unnamed Creek 15	2AC	Black Sturgeon	3	20.49	12.1	15.73	175	1.11	0.40	7.80	8.19	709
Unnamed Creek 16	2AC	Black Sturgeon	3	49.33	14.9	27.09	259	0.96	0.30	12.17	12.47	728
Black Sturgeon River	2AC	Black Sturgeon	6	2,630.96	25.1	256.80	286	0.11	214.71	84.46	299.17	694
North Trout Creek	2AC	Black Sturgeon	4	71.77	17.7	35.66	342	0.96	1.01	9.60	10.62	731
Nipigon River <sup>(c)</sup>	2AD	Nipigon	8	25,023.30	3.4	291.29	147	0.05	6,131.43	932.94	7,064.37	734
Ruby Creek	2AE	Jackpine	2	43.38	5.1	14.87	200	1.35	1.58	13.04	14.62	751
Fire Hill Creek	2AE	Jackpine	2	9.28	8.2	8.70	206	2.37	0.76	0.60	1.36	756
Unnamed Creek 17	2AE	Jackpine	2	3.22	5.9	4.35	106	2.44	0.02	0.35	0.37	756

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**Table 7-I-1: Characteristics of River Systems Crossed by the Project**

River System Name	Tertiary Watershed ID	Tertiary Watershed Name	Stream Order <sup>(a)</sup>	Watershed Area (km <sup>2</sup> ) <sup>(b)</sup>	Shape Factor	Length of Main Channel (km)	Topographic Relief (m)	Channel Slope (%)	Open Water Area (km <sup>2</sup> )	Wetland Area (km <sup>2</sup> )	Total Water Area (km <sup>2</sup> )	Annual Precipitation (mm) <sup>(b)</sup>
Jackfish River	2AE	Jackpine	5	446.91	13.7	78.17	363	0.46	18.57	11.82	30.39	793
Unnamed Creek 18	2AE	Jackpine	1	19.48	8.2	12.66	80	0.63	0.01	0.34	0.35	773
Ozone Creek	2AE	Jackpine	3	52.71	10.4	23.46	222	0.95	0.70	1.22	1.93	799
Unnamed Creek 19	2AE	Jackpine	1	2.89	12.2	5.94	343	5.77	0.00	0.00	0.00	795
Unnamed Creek 20	2AE	Jackpine	2	4.86	10.8	7.25	342	4.72	0.05	0.01	0.06	795
Unnamed Creek 21	2AE	Jackpine	2	5.14	15.1	8.82	314	3.57	0.14	0.03	0.16	795
Jackpine River	2AE	Jackpine	5	284.41	16.2	67.87	330	0.49	13.31	5.34	18.65	819
Dublin Creek	2AE	Jackpine	3	22.58	16.6	19.38	368	1.90	0.50	0.29	0.79	815
Unnamed Creek 22	2AE	Jackpine	2	10.86	12.9	11.84	242	2.05	0.05	0.09	0.15	815
MacInnes Creek	2AE	Jackpine	2	10.78	13.6	12.10	271	2.24	0.10	0.15	0.26	786
Unnamed Creek 23	2AE	Jackpine	1	4.15	5.6	4.84	247	5.10	0.00	0.00	0.00	786
Cypress River	2AE	Jackpine	4	164.68	18.1	54.53	297	0.55	10.83	1.75	12.57	819
Little Cypress River	2AE	Jackpine	2	9.99	11.5	10.73	273	2.54	0.04	0.23	0.27	786
Unnamed Creek 24	2AE	Jackpine	2	2.34	8.6	4.48	266	5.93	0.00	0.00	0.00	789
Unnamed Creek 25	2AE	Jackpine	2	3.82	6.5	4.98	213	4.29	0.03	0.05	0.08	789
Little Gravel River	2AE	Jackpine	4	42.27	11.7	22.23	303	1.37	2.97	0.35	3.31	789
Gravel River	2AE	Jackpine	5	624.56	21.6	116.11	270	0.23	47.95	7.16	55.10	830
Unnamed Creek 26	2AE	Jackpine	2	4.48	7.0	5.62	262	4.67	0.09	0.01	0.10	819
Wesley Creek	2AE	Jackpine	2	8.13	12.9	10.25	303	2.95	0.03	0.08	0.11	786
Little Pays Plat Creek	2BA	Little Pic	3	19.35	9.5	13.53	308	2.28	0.75	0.08	0.83	825
Pays Plat River	2BA	Little Pic	5	404.85	9.0	60.41	288	0.48	32.66	6.00	38.67	839
Willie Whites Creek	2BA	Little Pic	1	3.73	6.1	4.76	235	4.93	0.06	0.00	0.06	809
Unnamed Creek 27	2BA	Little Pic	3	5.81	6.5	6.16	242	3.93	0.25	0.35	0.59	809
McLean's Creek	2BA	Little Pic	4	38.08	9.0	18.51	267	1.44	2.71	0.32	3.02	821
Unnamed Creek 28	2BA	Little Pic	2	2.93	8.0	4.82	202	4.18	0.15	0.07	0.23	821
Hewitson River	2BA	Little Pic	4	134.20	9.9	36.43	372	1.02	12.93	1.74	14.66	846
Blind Creek	2BA	Little Pic	3	14.65	8.9	11.40	282	2.47	0.83	0.00	0.83	808
Unnamed Creek 29	2BA	Little Pic	3	14.65	8.9	11.40	282	2.47	0.83	0.00	0.83	808

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Aguasabon River <sup>(d)</sup>	2BA	Little Pic	6	933.05	4.1	61.87	108	0.17	77.99	10.22	88.21	803
Unnamed Creek 30	2BA	Little Pic	1	3.84	5	4.4	115	2.6	0.00	0.00	0.00	795
Blackbird Creek	2BA	Little Pic	4	63.71	9.5	24.54	126	0.52	2.76	0.30	3.06	840
Unnamed Creek 31	2BA	Little Pic	1	1.71	6.2	3.24	134	4.14	0.25	0.01	0.26	813
(Outlet Channel of) Jackfish Lake	2BA	Little Pic	3	40.09	4.8	13.86	299	2.16	4.29	0.03	4.31	838
Steel River	2BA	Little Pic	6	1,192.18	30.7	191.31	284	0.15	99.98	10.92	110.90	833
Unnamed Creek 32	2BA	Little Pic	3	12.19	8.3	10.04	192	1.91	0.35	0.00	0.35	803
Prairie River	2BA	Little Pic	5	248.72	26.1	80.50	197	0.24	14.60	3.12	17.73	830
Ripple Creek	2BA	Little Pic	3	6.99	6.3	6.62	247	3.74	0.29	0.00	0.29	797
Unnamed Creek 33	2BA	Little Pic	2	2.74	7.6	4.55	148	3.25	0.22	0.02	0.24	797
Unnamed Creek 34	2BA	Little Pic	1	0.94	5.9	2.35	71	3.03	0.00	0.00	0.00	797
Dead Horse Creek	2BA	Little Pic	4	54.97	16.9	30.43	196	0.64	1.64	0.60	2.24	835
Unnamed Creek 35	2BA	Little Pic	1	0.45	5.5	1.58	107	6.78	0.04	0.00	0.04	835
Unnamed Creek 36	2BA	Little Pic	2	1.27	7.5	3.08	134	4.37	0.10	0.02	0.12	835
Unnamed Creek 37	2BA	Little Pic	2	2.28	10.0	4.78	239	4.99	0.03	0.03	0.05	835
Little Pic River	2BA	Little Pic	6	1,352.20	33.0	211.10	264	0.13	94.27	27.68	121.95	828
Unnamed Creek 38	2BA	Little Pic	2	4.47	7.3	5.69	304	5.35	0.00	0.00	0.00	835
Neys Creek	2BA	Little Pic	3	15.88	4.5	8.49	303	3.57	0.67	0.00	0.67	828
Unnamed Creek 39	2BA	Little Pic	1	1.62	4.8	2.78	232	8.33	0.06	0.00	0.06	789
Mink Creek	2BA	Little Pic	4	52.40	10.5	23.40	315	1.35	2.43	0.01	2.43	828
Little Red Sucker Creek	2BA	Little Pic	2	7.36	10.0	8.59	204	2.37	0.28	0.00	0.28	828
Craddock Creek	2BA	Little Pic	3	10.07	10.6	10.36	340	3.28	0.63	0.00	0.63	837
Unnamed Creek 40	2BA	Little Pic	2	5.68	5.9	5.77	324	5.62	0.19	0.00	0.19	837
Hare Creek	2BA	Little Pic	4	45.12	6.7	17.37	254	1.47	4.58	0.36	4.94	837
Angler Creek	2BA	Little Pic	2	10.77	13.7	12.16	204	1.68	0.04	0.02	0.06	837
Unnamed Creek 41	2BA	Little Pic	2	10.61	10.1	10.37	200	1.93	0.22	0.00	0.22	837
Pic River	2BB	Pic	7	6,707.94	12.9	293.79	107	0.04	353.22	362.41	715.63	814

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River System Name	Tertiary Watershed ID	Tertiary Watershed Name	Stream Order <sup>(a)</sup>	Watershed Area (km <sup>2</sup> ) <sup>(b)</sup>	Shape Factor	Length of Main Channel (km)	Topographic Relief (m)	Channel Slope (%)	Open Water Area (km <sup>2</sup> )	Wetland Area (km <sup>2</sup> )	Total Water Area (km <sup>2</sup> )	Annual Precipitation (mm) <sup>(b)</sup>
White River	2BC	White	7	5,191.84	17.2	298.77	317	0.11	466.12	363.52	829.64	822
Pukaskwa River	2BC	White	6	1,093.80	11.9	114.12	399	0.35	39.25	43.24	82.48	905
Dog River	2BD	Michipicoten - Magpie	6	1224.50	14.7	134.11	321	0.24	126.07	79.20	205.27	924
Makwa River	2BD	Michipicoten - Magpie	4	175.07	11.3	44.46	314	0.71	3.61	7.04	10.65	952
Doré River	2BD	Michipicoten - Magpie	5	230.51	17.8	63.99	327	0.51	7.71	11.12	18.82	962
Unnamed Creek 42	2BD	Michipicoten - Magpie	3	18.05	11.2	14.25	197	1.38	0.41	0.68	1.09	965
Unnamed Creek 43	2BD	Michipicoten - Magpie	1	0.64	7.7	2.23	98	4.38	0.01	0.04	0.05	974
Unnamed Creek 44	2BD	Michipicoten - Magpie	1	0.65	6.3	2.02	106	5.23	0.00	0.00	0.00	974
Unnamed Creek 45	2BD	Michipicoten - Magpie	1	1.17	12.7	3.85	128	3.33	0.00	0.01	0.01	965
Unnamed Creek 46	2BD	Michipicoten - Magpie	1	0.31	4.3	1.15	96.9	8.41	0.00	0.00	0.00	974
Unnamed Creek 47	2BD	Michipicoten - Magpie	2	3.67	5.4	4.44	134	3.02	0.02	0.27	0.29	974
Michipicoten River	2BD	Michipicoten - Magpie	7	7,360.35	6.9	224.55	349	0.16	841.25	454.95	1,296.20	927

a) Estimated based on Strahler method.

b) Estimated based on OFAT.

c) Data for Nipigon River excludes the Ogoki River diversion.

d) Data for Aguasabon River excludes the Kenogami River diversion.

ID = identification; km<sup>2</sup> = square kilometres; km = kilometre; m = metre; % = percent; mm = millimetre

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-2: Active Permits to Take Water for Surface Water Sources and Surface Water and Groundwater Sources**

Permit No.	Permit Holder	Source Name	Latitude (°N)	Longitude (°W)	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	Tertiary Watershed ID	Tertiary Watershed Name	River System Name
0031-7M5KQ3	Mount Baldy Ski Area Limited	Dugout Pond	48.528730	88.992529	16	352895	5376986	Surface water	Commercial	Snowmaking	95,040	35	24	66	11-Dec-2008	10-Dec-2018	2AC	Black Sturgeon	Unnamed Creek 5
1712-7JKJLR	Ministry of Natural Resources	Main Station Head Pond	48.840115	88.602819	16	382393	5410921	Surface water	Commercial	Aquaculture	39,277,000	365	24	27,276	17-Sep-2008	14-Sep-2018	2AC	Black Sturgeon	Coldwater Creek
4516-7JKPFQ	Ministry of Natural Resources	Wolf River	48.839954	88.579972	16	384069	5410868	Surface water	Commercial	Aquaculture	11,808,000	365	24	8,200	10-Oct-2008	17-Sep-2018	2AC	Black Sturgeon	Wolf River
1712-7JKJLR	Ministry of Natural Resources	Sub-Station Head Pond	48.838665	88.579495	16	384101	5410724	Surface water	Commercial	Aquaculture	15,120,000	365	24	10,500	17-Sep-2008	14-Sep-2018	2AC	Black Sturgeon	Wolf River
7681-9WVRWS	Teranorth Construction & Engineering Limited	14 Watercourses at Culverts - Red Rock Twp.	48.932807	88.367915	16	399814	5420888	Surface and Groundwater	Dewatering Construction	Construction	82,944,000	78	24	57,600	09-Jun-2015	31-Aug-2020	2AC	Black Sturgeon	North Trout Creek
7681-9WVRWS	Teranorth Construction & Engineering Limited	South Trout Creek (Sta. 13+560) - Consumptive	48.950975	88.350628	16	401116	5422885	Surface and Groundwater	Construction	Road Building	250,000	244	24	174	09-Jun-2015	31-Aug-2020	2AC	Black Sturgeon	North Trout Creek
7681-9WVRWS	Teranorth Construction & Engineering Limited	2 Excavations at South Trout Creek Bridge - West B	48.950914	88.350531	16	401123	5422878	Surface and Groundwater	Dewatering Construction	Construction	4,536,000	180	24	3,159	09-Jun-2015	31-Aug-2020	2AC	Black Sturgeon	North Trout Creek
7681-9WVRWS	Teranorth Construction & Engineering Limited	Fen Pond Drainage	48.988659	88.335188	16	402320	5427054	Surface and Groundwater	Dewatering Construction	Construction	5,184,000	289	24	3,600	09-Jun-2015	31-Aug-2020	2AC	Black Sturgeon	North Trout Creek
1157-97ZK2A	BOT Construction (Ontario) Limited	West Abutment - Stage 1	49.019370	88.252726	16	408409	5430365	Surface and Groundwater	Dewatering Construction	Construction	400,000	60	24	278	07-Aug-2013	31-Dec-2017	2AD	Nipigon	Nipigon River
1157-97ZK2A	BOT Construction (Ontario) Limited	West Abutment - Stage 2	49.019370	88.252726	16	408409	5430365	Surface and Groundwater	Dewatering Construction	Construction	400,000	60	24	278	07-Aug-2013	31-Dec-2017	2AD	Nipigon	Nipigon River
1157-97ZK2A	BOT Construction (Ontario) Limited	Pier - Stage 1	49.019593	88.251227	16	408519	5430388	Surface and Groundwater	Dewatering Construction	Construction	1,418,659	150	24	985	07-Aug-2013	31-Dec-2017	2AD	Nipigon	Nipigon River
1157-97ZK2A	BOT Construction (Ontario) Limited	Pier - Stage 2	49.019593	88.251227	16	408519	5430388	Surface and Groundwater	Dewatering Construction	Construction	1,322,264	150	24	918	07-Aug-2013	31-Dec-2017	2AD	Nipigon	Nipigon River
4635-A4DHHW	The Corporation of the Township of Nipigon	Nipigon River	49.018690	88.250685	16	408557	5430287	Surface water	Water Supply	Municipal	2,191,000	365	24	1,520	24-Nov-2015	01-Dec-2025	2AD	Nipigon	Nipigon River
1157-97ZK2A	BOT Construction (Ontario) Limited	Nipigon River	49.019647	88.250421	16	408578	5430393	Surface and Groundwater	Construction	Road Building	250,000	365	24	34,702	07-Aug-2013	31-Dec-2017	2AD	Nipigon	Nipigon River
1157-97ZK2A	BOT Construction (Ontario) Limited	East Abutment - Stage 1	49.019865	88.249374	16	408655	5430416	Surface and Groundwater	Dewatering Construction	Construction	400,000	60	24	278	07-Aug-2013	31-Dec-2017	2AD	Nipigon	Nipigon River
1157-97ZK2A	BOT Construction (Ontario) Limited	East Abutment - Stage 2	49.019865	88.249374	16	408655	5430416	Surface and Groundwater	Dewatering Construction	Construction	400,000	60	24	278	07-Aug-2013	31-Dec-2017	2AD	Nipigon	Nipigon River
6660-83SQ79	The Corporation of the Township of Schreiber	Cooks Lake	48.826162	87.264385	16	480595	5408165	Surface water	Water Supply	Municipal	4,579,000	365	24	3,180	25-Mar-2010	20-Mar-2020	2BA	Little Pic	Unnamed Creek 29
7018-7GFKMB	The Corporation of the Town of Marathon	Duncan Creek	48.738545	86.371841	16	546185	5398582	Surface water	Commercial	Golf Course Irrigation	620,000	137	7	1,476	11-Jul-2008	01-Oct-2018	2BA	Little Pic	Unnamed Creek 41
7163-AK2Q2K	Williams Operating Corporation	Pond 300	48.701378	85.934400	16	578405	5394808	Surface Water	Industrial	Other - Industrial	8,640,000	365	24	6,000	04-May-17	04-May-2027	2BB	Pic	Pic River

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SURFACE WATER DATA**

**Table 7-I-2: Active Permits to Take Water for Surface Water Sources and Surface Water and Groundwater Sources**

Permit No.	Permit Holder	Source Name	Latitude (°N)	Longitude (°W)	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	Tertiary Watershed ID	Tertiary Watershed Name	River System Name
8801-A3ZKAL	The Corporation of the Municipality of Wawa	Wawa Lake	47.995816	84.766958	16	666584	5318248	Surface water	Water Supply	Municipal	25,000,000	365	24	17,460	24-Nov-2015	01-Dec-2025	2BD	Michipicoten-Magpie	Michipicoten River

Source: MOECC (Ministry of Environment and Climate Change). 2013. Permit to Take Water Data Catalogue, published November 16, 2013 and updated quarterly. Date Stamp 2017-08-01T15:19:45. Accessed December 7, 2017. <https://www.ontario.ca/data/permit-take-water>.

°N = degrees North; °W = degrees West; m = metre; l/day = litres per day

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-3: Disturbed Area in Catchments to Selected Surface Water Assessment Points**

Assessment Point ID	Water Body Name	General Description of Assessment Point Location	UTM Zone	Easting	Northing	Stream Order <sup>(a)</sup>	Total Drainage Area (km <sup>2</sup> ) <sup>(b)</sup>	Proportion of Disturbed Area (km <sup>2</sup> ) <sup>(c)</sup>	Proportion of Disturbed Area (%) <sup>(c)</sup>	Tertiary Watershed ID	Tertiary Watershed Name	River System Name
AP1	Unnamed watercourse	Outlet to Lake Superior at Unnamed Creek 2	16	346383	5372772	1	0.941	0.039	4.2%	2AC	Black Sturgeon	Unnamed Creek 2
AP2	Blind Creek	Canadian Pacific Rail crossing	16	348737	5374880	2	4.144	0.109	2.6%	2AC	Black Sturgeon	Blind Creek
AP3	Unnamed watercourse	TransCanada Highway crossing at Unnamed Creek 3	16	350845	5375829	1	0.199	0.006	2.8%	2AC	Black Sturgeon	Unnamed Creek 3
AP4	Beck Creek	Confluence with west tributary	16	360919	5385185	3	21.663	0.507	2.3%	2AC	Black Sturgeon	Mackenzie River
AP5	Unnamed watercourse	Confluence with Beck Creek	16	362563	5387599	1	2.073	0.103	5.0%	2AC	Black Sturgeon	Mackenzie River
AP6	Unnamed watercourse	Confluence with Beck Creek	16	361234	5386693	1	1.687	0.165	9.8%	2AC	Black Sturgeon	Mackenzie River
AP7	Unnamed watercourse	Unnamed lake outlet	16	362896	5394662	2	1.309	0.196	14.9%	2AC	Black Sturgeon	Mackenzie River
AP8	Unnamed watercourse	Confluence with north tributary	16	364330	5398714	1	0.948	0.132	13.9%	2AC	Black Sturgeon	Mackenzie River
AP9	Unnamed watercourse	Confluence with west tributary	16	371206	5402453	1	1.049	0.174	16.5%	2AC	Black Sturgeon	Coldwater Creek
AP10	Unnamed watercourse	Confluence of two forks	16	375316	5406943	2	1.180	0.122	10.3%	2AC	Black Sturgeon	Coldwater Creek
AP11	Coldwater Creek	Confluence with west tributary	16	378123	5402165	4	47.053	0.988	2.1%	2AC	Black Sturgeon	Coldwater Creek
AP12	Unnamed watercourse	Confluence with Wolf River	16	382207	5413582	1	0.757	0.028	3.7%	2AC	Black Sturgeon	Wolf River
AP13	Unnamed watercourse	Raymore Lake outlet	16	385779	5415912	3	4.505	0.274	6.1%	2AC	Black Sturgeon	Black Sturgeon River
AP14	Unnamed watercourse	Just below ROW crossing	16	388403	5416015	1	0.909	0.039	4.2%	2AC	Black Sturgeon	Morrow Creek
AP15	Unnamed watercourse	Confluence with North Trout Creek	16	401479	5426826	1	0.183	0.038	20.9%	2AC	Black Sturgeon	North Trout Creek
AP16	Unnamed watercourse	Confluence with Southeast tributary	16	403557	5427225	2	1.822	0.092	5.0%	2AD	Nipigon	Nipigon River
AP17	Unnamed watercourse	Confluence with Stillwater Creek	16	407008	5426426	1	7.820	0.244	3.1%	2AD	Nipigon	Nipigon River
AP18	Unnamed watercourse	Confluence with a north tributary	16	413720	5428939	1	3.691	0.118	3.2%	2AE	Jackpine	Ruby Creek
AP19	Unnamed watercourse	Confluence with West Little Ruby Creek	16	414583	5428031	2	14.224	0.148	1.0%	2AE	Jackpine	Ruby Creek
AP20	Unnamed watercourse	Confluence of two forks	16	419398	5429451	1	1.362	0.075	5.5%	2AE	Jackpine	Unnamed Creek 17
AP21	Unnamed watercourse	Confluence with Dublin Creek	16	431341	5426063	1	1.614	0.142	8.8%	2AE	Jackpine	Dublin Creek
AP22	Unnamed watercourse	At selected location on unnamed watercourse	16	440630	5421883	1	0.137	0.029	21.2%	2AE	Jackpine	Unnamed Creek 24
AP23	Unnamed watercourse	Confluence with north tributary	16	442365	5420729	1	1.688	0.111	6.5%	2AE	Jackpine	Unnamed Creek 25
AP24	Unnamed watercourse	Confluence with Gravel River	16	449048	5418732	1	0.756	0.149	19.7%	2AE	Jackpine	Gravel River
AP25	Unnamed watercourse	Confluence with Unnamed Creek 28	16	450418	5416963	1	1.367	0.058	4.2%	2AE	Jackpine	Unnamed Creek 26
AP26	Wesley Creek	Confluence with north tributary	16	458181	5414880	2	6.919	0.254	3.7%	2AE	Jackpine	Wesley Creek
AP27	Willie White's Creek	Outlet to Lake Superior	16	460154	5413954	1	3.731	0.240	6.4%	2BA	Little Pic	Willie White's Creek
AP28	Elbow Lake Outlet	Elbow Lake outlet	16	463932	5414261	1	0.956	0.182	19.0%	2BA	Little Pic	McLeans Creek
AP29	Unnamed watercourse	McLean's Lake inlet	16	465692	5413593	2	5.417	0.145	2.7%	2BA	Little Pic	McLeans Creek
AP30	Unnamed watercourse	Whitesand Lake inlet	16	470910	5413074	1	1.383	0.010	0.7%	2BA	Little Pic	Hewitson River
AP31	Unnamed watercourse	Confluence with Jason Lake inlet	16	474847	5410312	1	0.490	0.071	14.6%	2BA	Little Pic	Hewitson River
AP32	Unnamed watercourse	Cook Lake outlet	16	480593	5408138	3	6.304	0.142	2.3%	2BA	Little Pic	Unnamed Creek 29
AP33	Unnamed watercourse	Confluence of two tributary channels	16	484032	5408893	2	1.858	0.134	7.2%	2BA	Little Pic	Aguasabon River
AP34	Unnamed watercourse	Confluence with a west tributary	16	486243	5409414	1	0.283	0.033	11.6%	2BA	Little Pic	Aguasabon River
AP35	Unnamed watercourse	Confluence with Moberley Lake	16	499594	5407469	1	1.067	0.083	7.8%	2BA	Little Pic	Blackbird Creek
AP36	Unnamed watercourse	Lake outlet at Unnamed Creek 31	16	501784	5406965	1	1.185	0.067	5.7%	2BA	Little Pic	Unnamed Creek 31
AP37	Santoy Creek	Unnamed lake outlet	16	506495	5407064	3	8.090	0.171	2.1%	2BA	Little Pic	Steel River
AP38	Unnamed watercourse	Confluence with south tributary	16	511916	5406299	1	0.497	0.067	13.5%	2BA	Little Pic	Steel River
AP39	Unnamed watercourse	Confluence with Prairie River	16	515929	5406160	1	0.804	0.088	10.9%	2BA	Little Pic	Prairie River
AP40	Ripple Creek	Ripple Lake inlet	16	520118	5406223	1	0.449	0.057	12.7%	2BA	Little Pic	Unnamed Creek 35



**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-3: Disturbed Area in Catchments to Selected Surface Water Assessment Points**

Assessment Point ID	Water Body Name	General Description of Assessment Point Location	UTM Zone	Easting	Northing	Stream Order <sup>(a)</sup>	Total Drainage Area (km <sup>2</sup> ) <sup>(b)</sup>	Proportion of Disturbed Area (km <sup>2</sup> ) <sup>(c)</sup>	Proportion of Disturbed Area (%) <sup>(c)</sup>	Tertiary Watershed ID	Tertiary Watershed Name	River System Name
AP41	Unnamed watercourse	Lake outlet at Unnamed Creek 36	16	524997	5405032	2	1.085	0.065	6.0%	2BA	Little Pic	Unnamed Creek 36
AP42	Unnamed watercourse	Upstream of confluence of two unnamed watercourses	16	530405	5403563	2	3.387	0.248	7.3%	2BA	Little Pic	Unnamed Creek 39
AP43	Little Red Sucker Creek	Outlet to Lake Superior	16	537767	5402754	2	7.361	0.136	1.8%	2BA	Little Pic	Little Red Sucker Creek
AP44	Angler Creek	Outlet to Lake Superior	16	542744	5400342	2	10.770	0.177	1.6%	2BA	Little Pic	Angler Creek
AP45	Unnamed watercourse	Outlet to Lake Superior at Unnamed Creek 41	16	545120	5397952	2	10.602	0.380	3.6%	2BA	Little Pic	Unnamed Creek 41
AP46	Unnamed watercourse	Upstream of confluence with Camp 14 Creek	16	553645	5395040	1	0.183	0.023	12.6%	2BB	Pic	Pic River
AP47	Unnamed watercourse	Upstream of confluence with Swede Creek	16	557186	5394181	1	0.315	0.036	11.3%	2BB	Pic	Pic River
AP48	Unnamed watercourse	Upstream of confluence with Black River	16	558164	5392740	1	0.593	0.058	9.7%	2BB	Pic	Pic River
AP49	Unnamed watercourse	Upstream of confluence of two unnamed watercourses	16	565484	5394470	2	3.016	0.229	7.6%	2BB	Pic	Pic River
AP50	Unnamed watercourse	Unnamed lake inlet	16	575076	5395125	1	0.465	0.010	2.3%	2BB	Pic	Pic River
AP51	Unnamed watercourse	Upstream of confluence with Cedar Creek	16	580409	5394837	4	1.361	0.048	3.5%	2BB	Pic	Pic River
AP52	Kenel Creek	Upstream of confluence with unnamed watercourse	16	583783	5394707	2	10.571	0.281	2.7%	2BB	Pic	Pic River
AP53	Alder Creek	Upstream of confluence with unnamed watercourse	16	593707	5397961	3	20.318	0.423	2.1%	2BB	Pic	Pic River
AP54	Unnamed watercourse	Upstream of confluence with White Lake	16	601356	5398301	2	1.456	0.068	4.7%	2BC	White	White River
AP55	Unnamed watercourse	Upstream of confluence with White Lake	16	601314	5397790	2	2.697	0.097	3.6%	2BC	White	White River
AP56	Unnamed watercourse	Upstream of confluence with Elora Lake	16	604629	5396540	1	3.109	0.143	4.6%	2BC	White	White River
AP57	Unnamed watercourse	Inlet to unnamed lake	16	605538	5397398	2	6.371	0.252	4.0%	2BC	White	White River
AP58	Unnamed watercourse	Outlet of unnamed lake	16	605857	5396615	3	7.367	0.285	3.9%	2BC	White	White River
AP59	Unnamed watercourse	Upstream of confluence with Bertrand Creek	16	607556	5396548	2	4.403	0.098	2.2%	2BC	White	White River
AP60	Unnamed watercourse	Upstream of confluence with White River	16	609927	5394799	1	1.243	0.055	4.4%	2BC	White	White River
AP61	Unnamed watercourse	Upstream of confluence with White River	16	612226	5394249	1	1.466	0.109	7.4%	2BC	White	White River
AP62	Unnamed watercourse	Upstream of confluence with unnamed lake	16	623674	5383222	1	1.814	0.075	4.1%	2BC	White	White River
AP63	Whitehead's Creek	Upstream of confluence with White River	16	626175	5382020	4	59.297	0.618	1.0%	2BC	White	White River
AP64	Unnamed watercourse	Inlet to Perry's Lake	16	620035	5374989	2	2.143	0.116	5.4%	2BC	White	White River
AP65	Unnamed watercourse	Upstream of confluence with unnamed watercourse	16	619638	5370516	2	6.455	0.211	3.3%	2BC	White	White River
AP66	Doss Creek	Doss Lake outlet	16	623807	5367997	3	26.487	0.342	1.3%	2BC	White	White River
AP67	Unnamed watercourse	Upstream of confluence with Doss Lake	16	621765	5365845	2	7.576	0.112	1.5%	2BC	White	White River
AP68	Unnamed watercourse	Gibson Lake outlet	16	623874	5354392	2	7.055	0.161	2.3%	2BC	White	Pukaskwa River
AP69	Unnamed watercourse	Unnamed lake outlet	16	618401	5342101	2	3.652	0.125	3.4%	2BC	White	Pukaskwa River
AP70	Unnamed watercourse	Unnamed lake outlet	16	622121	5339743	1	1.184	0.074	6.2%	2BC	White	Pukaskwa River
AP71	Unnamed watercourse	Upstream of confluence with unnamed watercourse	16	632360	5332295	3	5.870	0.044	0.8%	2BD	Michipicoten-Magpie	Dog River
AP72	Unnamed watercourse	Upstream of confluence with unnamed watercourse	16	635305	5331596	2	3.313	0.156	4.7%	2BD	Michipicoten-Magpie	Dog River
AP73	Unnamed watercourse	Unnamed lake outlet	16	638131	5329946	1	1.364	0.140	10.3%	2BD	Michipicoten-Magpie	Dog River
AP74	Makwa River	Upstream of confluence with unnamed watercourse	16	644045	5323640	4	109.751	0.852	0.8%	2BD	Michipicoten-Magpie	Makwa River
AP75	Unnamed watercourse	Upstream of confluence with unnamed watercourse	16	650729	5320111	3	15.240	0.364	2.4%	2BD	Michipicoten-Magpie	Dore River

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-3: Disturbed Area in Catchments to Selected Surface Water Assessment Points**

Assessment Point ID	Water Body Name	General Description of Assessment Point Location	UTM Zone	Easting	Northing	Stream Order <sup>(a)</sup>	Total Drainage Area (km <sup>2</sup> ) <sup>(b)</sup>	Proportion of Disturbed Area (km <sup>2</sup> ) <sup>(c)</sup>	Proportion of Disturbed Area (%) <sup>(c)</sup>	Tertiary Watershed ID	Tertiary Watershed Name	River System Name
AP76	Unnamed watercourse	Dore Lake inlet	16	653685	5318605	4	26.340	0.517	2.0%	2BD	Michipicoten-Magpie	Dore River
AP77	Unnamed watercourse	Dore Lake inlet	16	654094	5318849	1	0.894	0.040	4.4%	2BD	Michipicoten-Magpie	Dore River
AP78	Unnamed watercourse	Upstream of confluence with Trout Creek	16	664904	5311153	2	1.727	0.130	7.5%	2BD	Michipicoten-Magpie	Michipicoten River
AP79	Unnamed watercourse	Upstream of confluence with Firesand River	16	671975	5309762	1	1.921	0.090	4.7%	2BD	Michipicoten-Magpie	Michipicoten River
AP80	Unnamed watercourse	Upstream of confluence with Michipicoten River	16	673467	5308488	2	5.612	0.241	4.3%	2BD	Michipicoten-Magpie	Michipicoten River
AP81	Unnamed watercourse	Upstream of confluence with Anjigami Lake outlet	16	681314	5306676	6	2.077	0.161	7.7%	2BD	Michipicoten-Magpie	Michipicoten River

a) Stream order estimated based on Strahler method.

b) Total drainage area estimated based on OFAT.

c) Calculated assuming transmission line ROW width of 64 m, and access road ROW width of 20 m.

ID = identification; ROW = right-of-way; UTM = Universal Transverse Mercator; km<sup>2</sup> = square kilometres; % = percent

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
10.00-WC	16	345373	5374363	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 1	Watercourse	Permanent	1	<1	-(d)	Mafic metavolcanic and metasedimentary rocks	Cobble	Protected	Protected
20.00-WC	16	345564	5374520	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 1	Watercourse	Permanent	1	<1	-(d)	Metasedimentary rocks	Silt	Protected	Protected
30.00-WC	16	346164	5374714	Unnamed watercourse	2AC	Black Sturgeon	Wild Goose Creek	Watercourse	Permanent	1	<1	-(d)	Mafic to intermediate metavolcanic rocks	Detritus	-(e)	-(e)
40.00-WC	16	346643	5374869	Unnamed watercourse	2AC	Black Sturgeon	Wild Goose Creek	Watercourse	Ephemeral	1 <sup>(g)</sup>	5.4	-(d)	Mafic to intermediate metavolcanic rocks	Fines	Protected	Protected
50.00-WC	16	346886	5374948	Wild Goose Creek	2AC	Black Sturgeon	Wild Goose Creek	Watercourse	Permanent	4	7	-(d)	Mafic to intermediate metavolcanic rocks	Boulder	Protected	Protected
59.00-WC	16	348025	5375316	Unnamed watercourse	2AC	Black Sturgeon	Blind Creek	Watercourse	Permanent	1	100	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
60.00-WC	16	348077	5375333	Unnamed watercourse	2AC	Black Sturgeon	Blind Creek	Watercourse	Permanent	2	110	-(d)	Massive granodiorite to granite	Organics	Protected	Protected
70.00-WC	16	348853	5375584	Blind Creek	2AC	Black Sturgeon	Blind Creek	Watercourse	Permanent	2	100	-(d)	Mafic to intermediate metavolcanic rocks	Fines	Protected	Protected
80.00-WC	16	351432	5376474	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 4	Watercourse	Permanent	1	38	-(d)	Metasedimentary rocks	Clay	Vulnerable	Vulnerable
90.00-WC	16	351594	5376571	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 4	Watercourse	Permanent	2	1.8	-(d)	Metasedimentary rocks	Sand	Vulnerable	Vulnerable
100.00-WC	16	352924	5377458	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 5	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.5	-(d)	Massive granodiorite to granite	Detritus	Vulnerable	Vulnerable
110.00-WC	16	353071	5377556	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 5	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.6	-(d)	Massive granodiorite to granite	Boulder	Vulnerable	Vulnerable
120.00-WC	16	356434	5379799	Mackenzie River	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	6	30	-(d)	Massive granodiorite to granite	Boulder	Protected	Protected
130.00-WC	16	356743	5380005	Mackenzie River	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	10	-(d)	Massive granodiorite to granite	Boulder	Protected	Protected
140.00-WC	16	356813	5380052	Mackenzie River	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	16	-(d)	Massive granodiorite to granite	Boulder	Protected	Protected
150.00-WC	16	356828	5380062	Mackenzie River	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	17	-(d)	Massive granodiorite to granite	Boulder	Protected	Protected
160.00-WC	16	356982	5380164	Mackenzie River	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	7	-(d)	Massive granodiorite to granite	Boulder	Vulnerable	Vulnerable
170.00-WC	16	357018	5380189	Mackenzie River	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	15	-(d)	Massive granodiorite to granite	Boulder	Protected	Protected
180.00-WC	16	358006	5380871	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.3	-(d)	Felsic to intermediate metavolcanic rocks	Detritus	Protected	Protected
190.00-WC	16	358648	5381364	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<5	-(d)	Mafic and ultramafic rocks	Detritus	-(e)	-(e)
200.00-WC	16	360331	5382727	Mackenzie River	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	5	23	-(d)	Metasedimentary rocks	(Cobble, gravel, fines 1 km US)	(Protected 1 km US)	(Protected 1 km US)
210.00-WC	16	360480	5383086	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	2	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
220.00-WC	16	361436	5384902	Beck Creek	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	4	12	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
221.00-WC	16	361695	5386838	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
230.00-WC	16	362038	5391100	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<5	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
240.00-WC	16	362121	5392135	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<3	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
250.00-WC	16	361960	5390132	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(g)</sup>	<1	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
260.00-WC	16	362218	5393341	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(g)</sup>	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
270.00-WC	16	362306	5394442	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
280.00-WC	16	362357	5395070	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
290.00-WC	16	362406	5395680	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	3	6	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
300.00-WC	16	362484	5396654	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<3	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
301.00-WC	16	362505	5396916	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
310.00-WC	16	362525	5397160	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<3	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
320.00-WC	16	363497	5398054	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	74	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
330.00-WC	16	364152	5398509	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	4	7	-(d)	Mafic and ultramafic rocks	-(e)	-(e)	-(e)
340.00-WC	16	364233	5398565	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	2	<3	-(d)	Mafic and ultramafic rocks	-(e)	-(e)	-(e)
350.00-WC	16	365098	5399166	Unnamed lake/pond	2AC	Black Sturgeon	Mackenzie River	Lake/Pond	Permanent	1	<2	12,000	Mafic and ultramafic rocks	-(e)	-(e)	-(e)
360.00-WC	16	365209	5399243	Unnamed lake/pond	2AC	Black Sturgeon	Mackenzie River	Lake/Pond	Permanent	1	40	12,000	Mafic and ultramafic rocks	-(e)	-(e)	-(e)
370.00-WC	16	365919	5399736	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	-(d)	Mafic and ultramafic rocks	-(e)	-(e)	-(e)
380.00-WC	16	366119	5399874	Hades Lake	2AC	Black Sturgeon	Mackenzie River	Lake/Pond	Permanent	2	200	141,960	Mafic and ultramafic rocks	-(e)	-(e)	-(e)
390.00-WC	16	366237	5399956	Hades Lake	2AC	Black Sturgeon	Mackenzie River	Lake/Pond	Permanent	2	48	141,960	Mafic and ultramafic rocks	-(e)	-(e)	-(e)
400.00-WC	16	367005	5400489	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(g)</sup>	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
410.00-WC	16	367692	5400966	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
420.00-WC	16	368522	5401542	Beaver Lake	2AC	Black Sturgeon	Mackenzie River	Lake/Pond	Permanent	2	65	233,920	Metasedimentary rocks	-(e)	-(e)	-(e)
430.00-WC	16	368871	5401784	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	2	3	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
440.00-WC	16	369318	5402120	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	2	<3	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
450.00-WC	16	369425	5402202	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<1	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
460.00-WC	16	369659	5402381	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
470.00-WC	16	369789	5402480	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
480.00-WC	16	370023	5402660	Unnamed lake/pond	2AC	Black Sturgeon	Coldwater Creek	Lake/Pond	Permanent	1	5	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
490.00-WC	16	370885	5403297	Granite Lake	2AC	Black Sturgeon	Coldwater Creek	Lake/Pond	Permanent	1	50	35,760	Massive granodiorite to granite	-(e)	-(e)	-(e)
500.00-WC	16	371853	5404007	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	1	<3	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
510.00-WC	16	373650	5405325	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	2	12	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
520.00-WC	16	374005	5405585	Unnamed lake/pond	2AC	Black Sturgeon	Coldwater Creek	Lake/Pond	Permanent	1	87	15,750	Massive granodiorite to granite	-(e)	-(e)	-(e)
521.00-WC	16	374773	5406303	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
530.00-WC	16	374838	5406380	Coldwater Creek	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	3	4	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
540.00-WC	16	375319	5406944	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	2	<1	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
541.00-WC	16	376529	5408365	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
550.00-WC	16	376560	5408401	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<3	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
560.00-WC	16	376635	5408488	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	2	10	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	Protected	Protected
570.00-WC	16	376709	5408575	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	3	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
580.00-WC	16	378760	5410169	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	2	-(d)	Sedimentary rocks	Organics	Protected	Protected
590.00-WC	16	379534	5410709	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	2	<1	-(d)	Sedimentary rocks	-(e)	Protected	Protected
600.00-WC	16	379894	5410959	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	50	-(d)	Sedimentary rocks	Organics	-(e)	-(e)
601.00-WC	16	379965	5411009	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	80	-(d)	Sedimentary rocks	-(e)	-(e)	-(e)
610.00-WC	16	381718	5413402	Wolf River	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	5	33	-(d)	Massive granodiorite to granite	-(e)	Protected	Protected
620.00-WC	16	382138	5413932	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<5	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	Protected	Protected
630.00-WC	16	382562	5414077	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<2	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Organics	Protected	Protected
640.00-WC	16	383386	5414359	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<5	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	Protected	Protected
650.00-WC	16	384335	5414684	Unnamed watercourse	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	1	<1	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	Protected	Protected
660.00-WC	16	384897	5414876	Unnamed watercourse	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	2	<1	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Cobble	Protected	Protected
670.00-WC	16	385963	5415241	Unnamed watercourse	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	1	2	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Organics	Vulnerable	Vulnerable
680.00-WC	16	386039	5415267	Raymore Lake	2AC	Black Sturgeon	Black Sturgeon River	Lake/Pond	Permanent	2	110	59480	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	Vulnerable	Protected
690.00-WC	16	386336	5415368	Unnamed watercourse	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	1	<1	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	Protected	Protected
700.00-WC	16	388391	5416071	Unnamed watercourse	2AC	Black Sturgeon	Morrow Creek	Watercourse	Permanent	1	<1	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	Protected	Protected
701.00-WC	16	389907	5416590	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 14	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
710.00-WC	16	390040	5416636	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 14	Watercourse	Permanent	2	<1	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	Protected	Protected
720.00-WC	16	391487	5417045	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 15	Watercourse	Permanent	2	30	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Organics	Protected	Protected
721.00-WC	16	391677	5417098	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 15	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
730.00-WC	16	393076	5417484	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 16	Watercourse	Permanent	2	1.2	-(d)	Sedimentary rocks	Sand	Vulnerable	Vulnerable
740.00-WC	16	394763	5418213	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 16	Watercourse	Permanent	2	3	-(d)	Sedimentary rocks	Clay	Protected	Protected
750.00-WC	16	395014	5418434	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 16	Watercourse	Permanent	1	0.6	-(d)	Sedimentary rocks	Clay	Vulnerable	Vulnerable
760.00-WC	16	395248	5418641	Unnamed lake/pond	2AC	Black Sturgeon	Unnamed Creek 16	Lake/Pond	Permanent	1	42	2780	Sedimentary rocks	Fines	-(e)	-(e)
770.00-WC	16	397643	5421029	Black Sturgeon River	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	6	44	-(d)	Sedimentary rocks	-(e)	Protected	Protected
780.00-WC	16	397850	5421330	Unnamed watercourse	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	1	0.4	-(d)	Sedimentary rocks	Detritus	Vulnerable	Vulnerable
790.01-WC	16	398041	5421689	Moseau Creek	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	3	8	-(d)	Sedimentary rocks	Cobble	Protected	Protected
800.01-WC	16	398381	5422157	Moseau Creek	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	3	10	-(d)	Sedimentary rocks	Cobble	Vulnerable	Vulnerable
810.00-WC	16	399382	5423454	Unnamed watercourse	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	1	0.8	-(d)	Metasedimentary rocks	Fines	Eroding	Eroding
820.00-WC	16	399814	5424059	Unnamed lake/pond	2AC	Black Sturgeon	North Trout Creek	Lake/Pond	Permanent	1 <sup>(g)</sup>	15	1730	Metasedimentary rocks	Fines	Vulnerable	Vulnerable
830.00-WC	16	400114	5424478	Unnamed watercourse	2AC	Black Sturgeon	North Trout Creek	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.8	-(d)	Metasedimentary rocks	Clay	Vulnerable	Vulnerable
840.00-WC	16	400244	5424660	South Trout Creek	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	3	8	-(d)	Metasedimentary rocks	Boulder	Protected	Protected
850.00-WC	16	401517	5426442	North Trout Creek	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	2	7	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Gravel	Protected	Protected
860.00-WC	16	401821	5426862	Unnamed watercourse	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	1	2	-(d)	Metasedimentary rocks	Clay	Vulnerable	Vulnerable
870.00-WC	16	402283	5427164	Unnamed watercourse	2AC	Black Sturgeon	North Trout Creek	Watercourse	Ephemeral	1 <sup>(g)</sup>	<1	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
880.00-WC	16	403336	5427311	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	1	1	-(d)	Metasedimentary rocks	Organics	Vulnerable	Vulnerable
890.00-WC	16	403588	5427308	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	2	<1	-(d)	Metasedimentary rocks	Organics	Protected	Protected
900.00-WC	16	404503	5427284	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	2	32	-(d)	Metasedimentary rocks	Organics	Vulnerable	Vulnerable
901.00-WC	16	404510	5427285	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	2	32	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
910.00-WC	16	405063	5427320	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	2	5	-(d)	Metasedimentary rocks	Sand	Eroding	Eroding
920.00-WC	16	405932	5427374	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	1	1.5	-(d)	Metasedimentary rocks	-(e)	Protected	Protected
930.00-WC	16	406326	5427399	Stillwater Creek	2AD	Nipigon	Nipigon River	Watercourse	Permanent	3	5.5	-(d)	Metasedimentary rocks	Sand	Protected	Protected
940.00-WC	16	406842	5427432	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	1	1	-(d)	Metasedimentary rocks	Sand	Protected	Protected
950.00-WC	16	407967	5427619	Nipigon River	2AD	Nipigon	Nipigon River	Watercourse	Permanent	8	358	-(d)	Metasedimentary rocks	Sand	Protected	-(e)
951.00-WC	16	410362	5428672	Unnamed lake/pond	2AE	Jackpine	Ruby Creek	Lake/Pond	Permanent	1 <sup>(g)</sup>	<3	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
960.00-WC	16	411330	5428866	Ivan Lake	2AE	Jackpine	Ruby Creek	Lake/Pond	Permanent	1	273	46600	Metasedimentary rocks	Organics	Vulnerable	Vulnerable
961.00-WC	16	411376	5428871	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	1	75	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
970.00-WC	16	413283	5429107	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	1	3	-(d)	Metasedimentary rocks	Silt	Vulnerable	Protected
980.00-WC	16	413691	5429157	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	2	2.5	-(d)	Metasedimentary rocks	Sand	Protected	Protected
990.00-WC	16	414055	5429202	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Ephemeral	1 <sup>(g)</sup>	1.5	-(d)	Metasedimentary rocks	Fines	-(e)	-(e)
1000.00-WC	16	414371	5429241	West Little Ruby Creek	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	1	<1	-(d)	Metasedimentary rocks	Organics	Protected	Protected
1010.00-WC	16	414497	5429257	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	1 <sup>(g)</sup>	1.1	-(d)	Metasedimentary rocks	Clay	Protected	Protected
1020.00-WC	16	414653	5429276	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.8	-(d)	Metasedimentary rocks	Sand	Vulnerable	Protected

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
1030.00-WC	16	415028	5429322	East Little Ruby Creek	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	1	1.5	-(d)	Metasedimentary rocks	Detritus	Protected	Protected
1040.00-WC	16	418152	5429708	Fire Hill Creek	2AE	Jackpine	Fire Hill Creek	Watercourse	Permanent	2	6	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Sand	Protected	Protected
1050.00-WC	16	419454	5429869	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 17	Watercourse	Permanent	1	1.5	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Boulder	Protected	Protected
1060.00-WC	16	419613	5429889	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 17	Watercourse	Permanent	1	1	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Detritus	Protected	Protected
1070.00-WC	16	420526	5430002	Unnamed watercourse	2AE	Jackpine	Jackfish River	Watercourse	Ephemeral	1 <sup>(g)</sup>	1	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Sand	Eroding	Eroding
1080.00-WC	16	420821	5430039	Jackfish River	2AE	Jackpine	Jackfish River	Watercourse	Permanent	1	26	-(d)	Sedimentary rocks	Clay	Vulnerable	Vulnerable
1090.00-WC	16	421026	5430064	Unnamed watercourse	2AE	Jackpine	Jackfish River	Watercourse	Permanent	1	1.75	-(d)	Metasedimentary rocks	Sand	Vulnerable	Vulnerable
1100.00-WC	16	421268	5430094	Unnamed watercourse	2AE	Jackpine	Jackfish River	Watercourse	Permanent	1	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
1110.00-WC	16	423060	5430070	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 18	Watercourse	Permanent	1	6	-(d)	Metasedimentary rocks	-(e)	Protected	Protected
1120.00-WC	16	423174	5430056	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 18	Watercourse	Permanent	1	6	-(d)	Metasedimentary rocks	-(e)	Protected	Protected
1130.00-WC	16	423906	5429964	Ozone Creek	2AE	Jackpine	Ozone Creek	Watercourse	Permanent	3	20	-(d)	Metasedimentary rocks	-(e)	Protected	Protected
1140.00-WC	16	424578	5429880	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 19	Watercourse	Permanent	1	2	-(d)	Metasedimentary rocks	Fines	Vulnerable	Vulnerable
1150.00-WC	16	426726	5429233	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 20	Watercourse	Permanent	2	7	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Cobble	Protected	Protected
1160.00-WC	16	428058	5428330	Unnamed lake/pond	2AE	Jackpine	Unnamed Creek 21	Lake/Pond	Permanent	2	100	46060	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Boulder	Protected	Protected
1170.00-WC	16	429002	5427743	Jackpine River	2AE	Jackpine	Jackpine River	Watercourse	Permanent	5	22	-(d)	Sedimentary rocks	Cobble	Protected	Protected
1180.00-WC	16	430190	5427004	Unnamed watercourse	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	1	2	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	-(e)	Protected	Protected
1190.00-WC	16	431153	5426418	Dublin Creek	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	3	5	-(d)	Metasedimentary rocks	Cobble	Protected	Protected
1200.00-WC	16	431720	5426139	Unnamed watercourse	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	1	1	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Cobble	Protected	Protected
1210.00-WC	16	433899	5425103	Unnamed watercourse	2AE	Jackpine	MacInnes Creek	Watercourse	Permanent	1 <sup>(g)</sup>	0.7	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Cobble	Protected	Protected
1220.00-WC	16	434085	5425015	Unnamed watercourse	2AE	Jackpine	MacInnes Creek	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.7	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Fines	Vulnerable	Vulnerable
1230.00-WC	16	434824	5424661	Unnamed watercourse	2AE	Jackpine	MacInnes Creek	Watercourse	Permanent	2	2.2	-(d)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Boulder	Protected	Protected
1240.00-WC	16	437303	5423544	Unnamed watercourse	2AE	Jackpine	Cypress River	Watercourse	Permanent	3	4	-(d)	Metasedimentary rocks	Gravel	Protected	Protected
1250.00-WC	16	438095	5423198	Cypress River	2AE	Jackpine	Cypress River	Watercourse	Permanent	4	12	-(d)	Metasedimentary rocks	Cobble	Vulnerable	Protected
1260.00-WC	16	438482	5423029	Unnamed watercourse	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1	1.5	-(d)	Metasedimentary rocks	-(e)	Protected	Protected

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
1270.00-WC	16	439139	5422743	Little Cypress River	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1	137	-(d)	Metasedimentary rocks	Detritus	Protected	Protected
1271.00-WC	16	439152	5422737	Unnamed watercourse	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1	15	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
1280.00-WC	16	439222	5422706	Little Cypress River	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1	4.5	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
1290.00-WC	16	439240	5422698	Little Cypress River	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1	1.6	-(d)	Metasedimentary rocks	-(e)	Protected	Protected
1291.00-WC	16	439513	5422579	Unnamed watercourse	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1 <sup>(g)</sup>	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
1300.00-WC	16	440052	5422344	Unnamed watercourse	2AE	Jackpine	Little Cypress River	Watercourse	Ephemeral	1 <sup>(g)</sup>	2	-(d)	Metasedimentary rocks	-(e)	Protected	Protected
1310.00-WC	16	440707	5422060	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 24	Watercourse	Permanent	1	0.4	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)
1320.00-WC	16	442453	5421417	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 25	Watercourse	Permanent	1	2.7	-(d)	Gneissic tonalite suite	Bedrock	Protected	Protected
1330.00-WC	16	443215	5421143	Unnamed watercourse	2AE	Jackpine	Little Gravel River	Watercourse	Permanent	3	7.3	-(d)	Mafic and ultramafic rocks	Cobble	Protected	Protected
1340.00-WC	16	445006	5420501	Unnamed watercourse	2AE	Jackpine	Little Gravel River	Watercourse	Permanent	1	1.5	-(d)	Massive granodiorite to granite	Sand	Eroding	Eroding
1350.00-WC	16	445057	5420482	Little Gravel River	2AE	Jackpine	Little Gravel River	Watercourse	Permanent	1	5.2	-(d)	Massive granodiorite to granite	Sand	Eroding	Deposition Zone
1360.00-WC	16	445793	5420218	Paddy Creek	2AE	Jackpine	Gravel River	Watercourse	Permanent	2	4.3	-(d)	Massive granodiorite to granite	Sand	Vulnerable	Vulnerable
1370.00-WC	16	445840	5420201	Paddy Creek	2AE	Jackpine	Gravel River	Watercourse	Permanent	2	3.6	-(d)	Massive granodiorite to granite	Sand	Vulnerable	Protected
1380.00-WC	16	445875	5420189	Paddy Creek	2AE	Jackpine	Gravel River	Watercourse	Permanent	2	3	-(d)	Massive granodiorite to granite	Sand	Eroding	Eroding
1390.00-WC	16	448970	5419081	Gravel River	2AE	Jackpine	Gravel River	Watercourse	Permanent	5	32	-(d)	Massive granodiorite to granite	Boulder	Protected	Protected
1400.00-WC	16	450542	5418519	Claire Lake	2AE	Jackpine	Unnamed Creek 26	Lake/Pond	Permanent	1	155	47540	Massive granodiorite to granite	Detritus	Protected	Protected
1410.00-WC	16	451126	5418311	Hydro Lake	2AE	Jackpine	Unnamed Creek 26	Lake/Pond	Permanent	1	75	42260	Massive granodiorite to granite	Boulder	Protected	Protected
1420.00-WC	16	451718	5418102	Cavers Lake	2AE	Jackpine	Gravel River	Lake/Pond	Permanent	1	33	88250	Massive granodiorite to granite	-(e)	Protected	Protected
1430.00-WC	16	451752	5418090	Unnamed watercourse	2AE	Jackpine	Gravel River	Watercourse	Permanent	1	<5	-(d)	Massive granodiorite to granite	-(e)	Protected	Protected
1440.00-WC	16	451783	5418079	Unnamed watercourse	2AE	Jackpine	Gravel River	Watercourse	Permanent	1	<5	-(d)	Massive granodiorite to granite	-(e)	Protected	Protected
1450.00-WC	16	451910	5418034	Unnamed lake/pond	2AE	Jackpine	Gravel River	Lake/Pond	Permanent	1	150	5280	Massive granodiorite to granite	Detritus	Protected	Protected
1460.00-WC	16	453218	5417571	Unnamed lake/pond	2AE	Jackpine	Gravel River	Lake/Pond	Permanent	1	150	13150	Massive granodiorite to granite	Detritus	Protected	Protected
1470.00-WC	16	453486	5417476	Nishin Lake	2AE	Jackpine	Gravel River	Lake/Pond	Permanent	2	63	352510	Massive granodiorite to granite	Detritus	Protected	Protected
1480.00-WC	16	453686	5417405	Nishin Lake	2AE	Jackpine	Gravel River	Lake/Pond	Permanent	2	200	352510	Massive granodiorite to granite	Boulder	Protected	Protected
1481.00-WC	16	453740	5417386	Nishin Lake	2AE	Jackpine	Gravel River	Lake/Pond	Permanent	2	250	352510	Massive granodiorite to granite	-(e)	-(e)	-(e)



**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
1490.00-WC	16	454189	5417227	Unnamed watercourse	2AE	Jackpine	Gravel River	Watercourse	Permanent	1 <sup>(g)</sup>	0.6	-(d)	Massive granodiorite to granite	Detritus	Vulnerable	Vulnerable
1500.00-WC	16	455515	5416758	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1	2.5	-(d)	Massive granodiorite to granite	Boulder	Vulnerable	Vulnerable
1510.00-WC	16	455768	5416668	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1	2	-(d)	Massive granodiorite to granite	Clay	Vulnerable	Vulnerable
1520.00-WC	16	456122	5416543	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1	10	-(d)	Massive granodiorite to granite	Fines	Vulnerable	Vulnerable
1521.00-WC	16	457205	5416164	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
1530.00-WC	16	458344	5415765	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1	<2	-(d)	Sedimentary rocks	-(e)	-(e)	-(e)
1540.00-WC	16	458872	5415581	Little Pays Plat Creek	2BA	Little Pic	Little Pays Plat Creek	Watercourse	Permanent	3	7.4	-(d)	Massive granodiorite to granite	Cobble	Vulnerable	Vulnerable
1550.00-WC	16	459251	5415449	Pays Plat River	2BA	Little Pic	Pays Plat River	Watercourse	Permanent	5	33	-(d)	Massive granodiorite to granite	Sand	Eroding	-(e)
1560.00-WC	16	459335	5415419	Pays Plat River	2BA	Little Pic	Pays Plat River	Watercourse	Permanent	5	30	-(d)	Massive granodiorite to granite	Detritus	-(e)	-(e)
1570.00-WC	16	459396	5415398	Pays Plat River	2BA	Little Pic	Pays Plat River	Watercourse	Permanent	5	37	-(d)	Massive granodiorite to granite	Detritus	-(e)	-(e)
1580.00-WC	16	459460	5415376	Pays Plat River	2BA	Little Pic	Pays Plat River	Watercourse	Permanent	5	50	-(d)	Massive granodiorite to granite	Detritus	-(e)	-(e)
1590.00-WC	16	460701	5414948	Unnamed watercourse	2BA	Little Pic	Willie Whites Creek	Watercourse	Intermittent	1 <sup>(g)</sup>	0.5	-(d)	Massive granodiorite to granite	Detritus	Vulnerable	Vulnerable
1600.00-WC	16	461208	5414786	Willie Whites Creek	2BA	Little Pic	Willie Whites Creek	Watercourse	Permanent	1	4	-(d)	Massive granodiorite to granite	Cobble	Vulnerable	Vulnerable
1601.00-WC	16	462001	5414537	Unnamed watercourse	2BA	Little Pic	Willie Whites Creek	Watercourse	Permanent	1 <sup>(g)</sup>	<5	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
1610.00-WC	16	462500	5414380	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 27	Watercourse	Permanent	1	<2	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
1611.00-WC	16	462791	5414289	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 27	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
1620.00-WC	16	463489	5414070	Elbow Lake	2BA	Little Pic	McLean's Creek	Lake/Pond	Permanent	1	301	94490	Massive granodiorite to granite	Detritus	Protected	Protected
1630.00-WC	16	463650	5414020	Elbow Lake	2BA	Little Pic	McLean's Creek	Lake/Pond	Permanent	1	301	94490	Massive granodiorite to granite	Detritus	Protected	Protected
1640.00-WC	16	465759	5413458	McLean's Lake	2BA	Little Pic	McLean's Creek	Lake/Pond	Permanent	3	100	834650	Massive granodiorite to granite	-(e)	Vulnerable	-(e)
1650.00-WC	16	465843	5413449	McLean's Lake	2BA	Little Pic	McLean's Creek	Lake/Pond	Permanent	3	100	834650	Massive granodiorite to granite	-(e)	Vulnerable	-(e)
1660.00-WC	16	466104	5413337	McLean's Lake	2BA	Little Pic	McLean's Creek	Lake/Pond	Permanent	3	260	834650	Massive granodiorite to granite	-(e)	Protected	Protected
1670.00-WC	16	466696	5413147	McLean's Lake	2BA	Little Pic	McLean's Creek	Lake/Pond	Permanent	3	100	834650	Massive granodiorite to granite	-(e)	Protected	Protected
1680.00-WC	16	467426	5413057	McLean's Creek	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	4	6.5	-(d)	Massive granodiorite to granite	Boulder	Protected	Protected
1690.00-WC	16	468665	5412903	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	1	3	-(d)	Massive granodiorite to granite	Boulder	Protected	Protected
1699.00-WC	16	468731	5412895	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	1	<3	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
1700.00-WC	16	468734	5412894	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	1	1.5	-(d)	Massive granodiorite to granite	Cobble	Protected	Protected
1710.00-WC	16	469184	5412839	Antler Lake	2BA	Little Pic	McLean's Creek	Lake/Pond	Permanent	1	75	190340	Massive granodiorite to granite	Cobble	Protected	Protected
1711.00-WC	16	469643	5412782	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	1 <sup>(g)</sup>	10	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
1720.00-WC	16	471149	5412536	Whitesand Lake	2BA	Little Pic	Hewitson River	Lake/Pond	Permanent	1	250	2733490	Massive granodiorite to granite	Fines	Protected	-(e)
1730.00-WC	16	473179	5412159	Lyne Lake	2BA	Little Pic	Hewitson River	Lake/Pond	Permanent	4	382	1717640	Mafic to intermediate metavolcanic rocks	Boulder	Protected	Protected
1740.00-WC	16	473845	5412035	Unnamed watercourse	2BA	Little Pic	Hewitson River	Watercourse	Permanent	1	0.65	-(d)	Massive granodiorite to granite	Boulder	Protected	Protected
1750.00-WC	16	474481	5411916	Unnamed watercourse	2BA	Little Pic	Hewitson River	Watercourse	Permanent	1	1.16	-(d)	Massive granodiorite to granite	Fines	Vulnerable	Protected
1760.00-WC	16	475217	5411780	Unnamed lake/pond	2BA	Little Pic	Hewitson River	Lake/Pond	Permanent	1	105	16050	Massive granodiorite to granite	Fines	Protected	Protected
1770.00-WC	16	475494	5411728	Reid Lake	2BA	Little Pic	Hewitson River	Lake/Pond	Permanent	1	210	157220	Massive granodiorite to granite	Cobble	Protected	Protected
1780.00-WC	16	476241	5411589	Unnamed lake/pond	2BA	Little Pic	Blind Creek-2BA	Lake/Pond	Permanent	1	8.5	5630	Massive granodiorite to granite	Fines	Protected	Protected
1790.00-WC	16	477120	5411454	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Permanent	1	1	-(d)	Massive granodiorite to granite	Silt	Protected	Protected
1800.00-WC	16	477296	5411437	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Permanent	3	38	-(d)	Massive granodiorite to granite	Organics	Protected	Protected
1810.00-WC	16	478105	5411241	Unnamed lake/pond	2BA	Little Pic	Blind Creek-2BA	Lake/Pond	Permanent	1	106	16120	Massive granodiorite to granite	Fines	Protected	Protected
1820.00-WC	16	478903	5411068	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Permanent	1	3.5	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Protected
1830.00-WC	16	479204	5411002	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 29	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.48	-(d)	Metasedimentary rocks	Fines	Protected	Protected
1840.00-WC	16	481634	5410474	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	3	-(d)	Massive granodiorite to granite	Cobble	Protected	Protected
1850.00-WC	16	482036	5410387	Big Duck Creek	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	4	44	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Protected
1860.00-WC	16	483493	5410076	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	4.5	-(d)	Mafic to intermediate metavolcanic rocks	Fines	Protected	Protected
1870.00-WC	16	484290	5409933	Unnamed lake/pond	2BA	Little Pic	Aguasabon River	Lake/Pond	Permanent	1	40	31900	Mafic to intermediate metavolcanic rocks	Fines	Protected	Vulnerable
1880.00-WC	16	485086	5409834	Ansell Creek	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	4	10	-(d)	Mafic to intermediate metavolcanic rocks	Silt	Protected	Protected
1890.00-WC	16	485629	5409727	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	2	2	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Protected
1899.00-WC	16	486406	5409556	Unnamed lake/pond	2BA	Little Pic	Aguasabon River	Lake/Pond	Permanent	1	40	20090	Mafic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
1900.00-WC	16	486470	5409544	Unnamed lake/pond	2BA	Little Pic	Aguasabon River	Lake/Pond	Permanent	1	103	20090	Mafic to intermediate metavolcanic rocks	Fines	-(e)	-(e)
1910.00-WC	16	487062	5409439	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1 <sup>(g)</sup>	0.7	-(d)	Mafic to intermediate metavolcanic rocks	Sand	Vulnerable	Vulnerable

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
1920.00-WC	16	487362	5409385	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1 <sup>(g)</sup>	0.5	-(d)	Mafic to intermediate metavolcanic rocks	Gravel	Vulnerable	Vulnerable
1930.00-WC	16	487577	5409347	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	2	-(d)	Mafic to intermediate metavolcanic rocks	Boulder	Protected	Protected
1940.00-WC	16	488254	5409255	Fog Creek	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	4	8	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Protected
1950.00-WC	16	488511	5409227	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	2	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Protected
1960.00-WC	16	490024	5408914	Aguasabon River	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	5	215	-(d)	Mafic to intermediate metavolcanic rocks	Sand	Protected	Protected
1970.00-WC	16	491976	5408613	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.4	-(d)	Mafic to intermediate metavolcanic rocks	Sand	Vulnerable	Vulnerable
1980.00-WC	16	493381	5408399	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Ephemeral	1 <sup>(g)</sup>	1.1	-(d)	Mafic to intermediate metavolcanic rocks	Sand	Protected	Protected
1990.00-WC	16	494612	5408213	Blackbird Creek	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	2	6.5	-(d)	Massive granodiorite to granite	Cobble	Vulnerable	Vulnerable
2000.00-WC	16	497645	5407752	Lake B	2BA	Little Pic	Blackbird Creek	Lake/Pond	Permanent	1	342	186590	Massive granodiorite to granite	Boulder	-(e)	-(e)
2010.00-WC	16	498531	5407617	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1 <sup>(g)</sup>	0.3	-(d)	Massive granodiorite to granite	Detritus	Vulnerable	Vulnerable
2020.00-WC	16	499575	5407459	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1	1.1	-(d)	Massive granodiorite to granite	Sand	Vulnerable	Vulnerable
2030.00-WC	16	499671	5407444	Moberley Lake	2BA	Little Pic	Blackbird Creek	Lake/Pond	Permanent	4	76	236340	Massive granodiorite to granite	Fines	-(e)	-(e)
2040.00-WC	16	501521	5407238	Dew Lake (unofficial name)	2BA	Little Pic	Unnamed Creek 31	Lake/Pond	Permanent	1	256	217030	Massive granodiorite to granite	-(e)	Protected	Protected
2050.00-WC	16	501737	5407216	Dew Lake (unofficial name)	2BA	Little Pic	Unnamed Creek 31	Lake/Pond	Permanent	1	256	217030	Massive granodiorite to granite	-(e)	Protected	Protected
2060.00-WC	16	503033	5407077	Lake Superior	-(f)	Lake Superior	-(f)	Lake/Pond	Permanent	3	246	-(f)	Massive granodiorite to granite	Sand	Protected	Deposition Zone
2070.00-WC	16	505496	5406895	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	0.75	-(d)	Felsic to intermediate metavolcanic rocks	Sand	Vulnerable	Vulnerable
2080.00-WC	16	505675	5406894	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	1.5	-(d)	Mafic to intermediate metavolcanic rocks	Gravel	Vulnerable	Vulnerable
2090.00-WC	16	506175	5406891	Santoy Creek	2BA	Little Pic	Steel River	Watercourse	Permanent	3	1.1	-(d)	Mafic to intermediate metavolcanic rocks	Sand	Vulnerable	Vulnerable
2100.00-WC	16	507423	5406883	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	1.9	-(d)	Mafic to intermediate metavolcanic rocks	Sand	Vulnerable	Vulnerable
2101.00-WC	16	508058	5406878	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1 <sup>(g)</sup>	<5	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
2110.00-WC	16	510352	5406791	Steel River	2BA	Little Pic	Steel River	Watercourse	Permanent	6	32	-(d)	Metasedimentary rocks	Cobble	Protected	Protected
2120.00-WC	16	510913	5406751	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	4	5	-(d)	Metasedimentary rocks	Sand	Protected	Protected
2130.00-WC	16	511084	5406727	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	3	3	-(d)	Metasedimentary rocks	Sand	Vulnerable	Vulnerable
2140.00-WC	16	511555	5406650	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<1	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
2150.00-WC	16	512063	5406610	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<1	-(d)	Metasedimentary rocks	-(e)	Protected	Protected
2160.00-WC	16	512177	5406603	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	2.5	-(d)	Metasedimentary rocks	Cobble	Protected	Protected
2169.00-WC	16	512711	5406579	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	20	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
2170.00-WC	16	512725	5406578	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	4	-(d)	Metasedimentary rocks	Cobble	Protected	Protected

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
2180.00-WC	16	512842	5406573	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 32	Watercourse	Permanent	1	2.2	-(d)	Metasedimentary rocks	Boulder	Protected	Protected
2190.00-WC	16	514034	5406498	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 32	Watercourse	Permanent	2	2.7	-(d)	Metasedimentary rocks	Cobble	Protected	Protected
2200.00-WC	16	515135	5406370	Unnamed watercourse	2BA	Little Pic	Prairie River	Watercourse	Permanent	1	4.8	-(d)	Metasedimentary rocks	Bedrock	Protected	Protected
2210.00-WC	16	515963	5406306	Prairie River	2BA	Little Pic	Prairie River	Watercourse	Permanent	5	17	-(d)	Metasedimentary rocks	Sand	Vulnerable	Vulnerable
2220.00-WC	16	517733	5406167	Unnamed watercourse	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	1	1.6	-(d)	Metasedimentary rocks	Boulder	Protected	Protected
2230.00-WC	16	517982	5406146	Unnamed watercourse	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	1	1.5	-(d)	Metasedimentary rocks	Sand	Protected	Protected
2240.00-WC	16	518155	5406132	Unnamed lake/pond	2BA	Little Pic	Ripple Creek	Lake/Pond	Permanent	1	170	8840	Metasedimentary rocks	-(e)	-(e)	-(e)
2250.00-WC	16	518743	5406083	Del Lake	2BA	Little Pic	Ripple Creek	Lake/Pond	Permanent	1	82	193360	Metasedimentary rocks	Boulder	Protected	Protected
2260.00-WC	16	519046	5406059	Unnamed watercourse	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	1	1.4	-(d)	Metasedimentary rocks	Cobble	Protected	Protected
2270.00-WC	16	521916	5405822	Lake Superior	-(f)	Lake Superior	-(f)	Lake/Pond	Permanent	4	365	-(f)	Metasedimentary rocks	Bedrock	Protected	Protected
2280.00-WC	16	522446	5405779	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 34	Watercourse	Permanent	1	<2	-(d)	Metasedimentary rocks	Boulder	Protected	Protected
2290.00-WC	16	523063	5405728	Dead Horse Creek	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	4	11.5	-(d)	Metasedimentary rocks	Cobble	Protected	Protected
2300.00-WC	16	524983	5405569	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 36	Watercourse	Permanent	2	2.5	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Detritus	Protected	Protected
2309.00-WC	16	525970	5405627	Unnamed lake/pond	2BA	Little Pic	Unnamed Creek 37	Lake/Pond	Permanent	1	20	28270	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2310.00-WC	16	525981	5405629	Unnamed lake/pond	2BA	Little Pic	Unnamed Creek 37	Lake/Pond	Permanent	1	28	28270	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Bedrock	Protected	Protected
2320.00-WC	16	527118	5405333	Little Pic River	2BA	Little Pic	Little Pic River	Watercourse	Permanent	6	43	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	Protected	Protected
2329.00-WC	16	531613	5404501	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 39	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2330.00-WC	16	532399	5404381	Unnamed lake/pond	2BA	Little Pic	Neys Creek	Lake/Pond	Permanent	1	2.8	19580	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Cobble	Protected	Protected
2340.00-WC	16	533131	5404228	Unnamed watercourse	2BA	Little Pic	Neys Creek	Watercourse	Permanent	2	2.8	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Bedrock	Protected	Protected
2350.00-WC	16	533773	5404103	Unnamed watercourse	2BA	Little Pic	Neys Creek	Watercourse	Permanent	1	<1	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2360.00-WC	16	534804	5403913	Unnamed watercourse	2BA	Little Pic	Mink Creek	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.7	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Boulder	Vulnerable	Vulnerable
2370.00-WC	16	535636	5403759	Unnamed watercourse	2BA	Little Pic	Mink Creek	Watercourse	Permanent	1 <sup>(g)</sup>	0.4	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Gravel	Protected	Protected
2380.00-WC	16	535742	5403739	Culvert Creek	2BA	Little Pic	Mink Creek	Watercourse	Permanent	2	6.5	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Cobble	Protected	Protected

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
2390.00-WC	16	536313	5403634	Mink Creek	2BA	Little Pic	Mink Creek	Watercourse	Permanent	4	20	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Fines	Protected	Protected
2400.00-WC	16	537996	5403336	Unnamed lake/pond	2BA	Little Pic	Little Red Sucker Creek	Lake/Pond	Permanent	2	227	154340	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Boulder	Protected	Protected
2410.00-WC	16	539846	5403053	Unnamed watercourse	2BA	Little Pic	Craddock Creek	Watercourse	Permanent	2	3.5	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Boulder	Protected	Protected
2420.00-WC	16	540232	5402994	Craddock Creek	2BA	Little Pic	Craddock Creek	Watercourse	Permanent	2	4.2	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Boulder	Protected	Protected
2421.00-WC	16	541700	5402770	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 40	Watercourse	Permanent	1 <sup>(g)</sup>	<5	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2430.00-WC	16	541856	5402746	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 40	Watercourse	Permanent	2	3	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	(Cobble 300 m US)	(Protected 300 m US)	(Protected 300 m US)
2440.00-WC	16	542049	5402716	Hare Creek	2BA	Little Pic	Hare Creek	Watercourse	Permanent	4	9	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2450.00-WC	16	542229	5402685	Hare Creek	2BA	Little Pic	Hare Creek	Watercourse	Permanent	4	11	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2460.00-WC	16	542256	5402681	Hare Creek	2BA	Little Pic	Hare Creek	Watercourse	Permanent	4	9	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2470.00-WC	16	542313	5402671	Hare Creek	2BA	Little Pic	Hare Creek	Watercourse	Permanent	4	8	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2480.00-WC	16	542435	5402651	Hare Creek	2BA	Little Pic	Hare Creek	Watercourse	Permanent	4	10	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2490.00-WC	16	542503	5402639	Hare Creek	2BA	Little Pic	Hare Creek	Watercourse	Permanent	4	10	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	-(e)	-(e)	-(e)
2500.01-WC	16	543939	5401531	Angler Creek	2BA	Little Pic	Angler Creek	Watercourse	Permanent	2	9	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Sand	-(e)	-(e)
2510.00-WC	16	546222	5399474	Unnamed lake/pond	2BA	Little Pic	Unnamed Creek 41	Lake/Pond	Permanent	1	70	22620	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Gravel	Protected	Protected
2520.00-WC	16	546534	5399325	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 41	Watercourse	Permanent	2	5.2	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Bedrock	Protected	Protected
2530.00-WC	16	548524	5397636	Unnamed watercourse	2BA	Little Pic	Pic River	Watercourse	Permanent	1	35	-(d)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Fines	Protected	Protected
2540.00-WC	16	549960	5396726	Unnamed lake/pond	2BA	Little Pic	Pic River	Lake/Pond	Permanent	1	18	3350	Metasedimentary rocks	-(e)	-(e)	-(e)
2550.00-WC	16	549986	5396726	Unnamed lake/pond	2BA	Little Pic	Pic River	Lake/Pond	Permanent	1	20	3350	Metasedimentary rocks	-(e)	-(e)	-(e)
2560.00-WC	16	550028	5396726	Unnamed lake/pond	2BA	Little Pic	Pic River	Lake/Pond	Permanent	1	50	3350	Metasedimentary rocks	-(e)	-(e)	-(e)
2570.00-WC	16	550173	5396727	Three Finger Lake	2BA	Little Pic	Pic River	Lake/Pond	Permanent	1	32	257790	Metasedimentary rocks	-(e)	-(e)	-(e)

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
2580.00-WC	16	551703	5396737	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Felsic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
2590.00-WC	16	552742	5396438	Pic River	2BB	Pic	Pic River	Watercourse	Permanent	1	63	-(d)	Felsic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
2600.00-WC	16	552936	5396355	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Felsic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
2610.00-WC	16	553374	5396167	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Felsic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
2620.00-WC	16	555379	5395244	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	2	3.5	-(d)	Felsic to intermediate metavolcanic rocks	-(e)	Woody Debris	Overhanging Vegetation
2630.00-WC	16	556909	5394353	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	2	<2	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
2640.00-WC	16	557189	5394191	Swede Creek	2BB	Pic	Pic River	Watercourse	Permanent	1	15	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
2650.00-WC	16	557262	5394148	Black River	2BB	Pic	Pic River	Watercourse	Permanent	5	35	-(d)	Metasedimentary rocks	-(e)	Overhanging Vegetation	-(e)
2660.00-WC	16	557417	5394058	Black River	2BB	Pic	Pic River	Watercourse	Permanent	5	83	-(d)	Metasedimentary rocks	-(e)	Overhanging Vegetation	-(e)
2670.00-WC	16	559001	5393029	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	Overhanging Vegetation	Woody Debris
2680.00-WC	16	565744	5393877	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Metasedimentary rocks	-(e)	Overhanging Vegetation	-(e)
2690.00-WC	16	566187	5393935	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	2	<2	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	Overhanging Vegetation	Woody Debris
2700.00-WC	16	566888	5394026	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
2710.00-WC	16	569265	5394335	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Felsic to intermediate metavolcanic rocks	-(e)	Woody Debris	Overhanging Vegetation
2711.00-WC	16	569809	5394278	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
2720.00-WC	16	572370	5394501	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	Overhanging Vegetation	Woody Debris
2730.00-WC	16	574323	5394606	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	3	<5	-(d)	Metasedimentary rocks	-(e)	Woody Debris	Overhanging Vegetation
2740.00-WC	16	575067	5394986	Unnamed lake/pond	2BB	Pic	Pic River	Lake/Pond	Permanent	1	<2	2210	Mafic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
2750.00-WC	16	576372	5395650	Unnamed lake/pond	2BB	Pic	Pic River	Lake/Pond	Permanent	1	256	18970	Metasedimentary rocks	-(e)	-(e)	-(e)
2760.00-WC	16	577037	5395743	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	2.7	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
2770.00-WC	16	579006	5395724	Unnamed lake/pond	2BB	Pic	Pic River	Lake/Pond	Permanent	1	4.9	280	Metasedimentary rocks	-(e)	-(e)	-(e)
2780.00-WC	16	580137	5395714	Cedar Creek	2BB	Pic	Pic River	Watercourse	Permanent	4	15	-(d)	Massive granodiorite to granite	-(e)	Aquatic Vegetation	Woody Debris
2790.00-WC	16	582750	5395474	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Massive granodiorite to granite	-(e)	Overhanging Vegetation	Woody Debris
2800.00-WC	16	584815	5396044	Kenel Creek	2BB	Pic	Pic River	Watercourse	Permanent	2	8	-(d)	Massive granodiorite to granite	-(e)	Aquatic Vegetation	Organic Debris
2810.00-WC	16	588774	5397191	Wabikoba Creek	2BB	Pic	Pic River	Watercourse	Permanent	4	10	-(d)	Massive granodiorite to granite	-(e)	Aquatic Vegetation	Woody Debris
2820.00-WC	16	590911	5397433	Alder Creek	2BB	Pic	Pic River	Watercourse	Permanent	3	6	-(d)	Massive granodiorite to granite	-(e)	Overhanging Vegetation	Undercut Banks

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
2830.00-WC	16	594036	5397645	Alder Creek	2BB	Pic	Pic River	Watercourse	Permanent	3	18	-(d)	Massive granodiorite to granite	-(e)	Overhanging Vegetation	Overhanging Vegetation
2840.00-WC	16	594976	5397708	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	-(d)	Metasedimentary rocks	-(e)	Undercut Banks	Boulder
2841.00-WC	16	596148	5397787	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
2850.00-WC	16	597346	5398222	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	2	17.6	-(d)	Metasedimentary rocks	-(e)	-(e)	-(e)
2860.00-WC	16	597418	5398251	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	2	<5	-(d)	Metasedimentary rocks	-(e)	Aquatic Vegetation	Overhanging Vegetation
2870.00-WC	16	598163	5398346	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<5	-(d)	Metasedimentary rocks	-(e)	Woody Debris	Aquatic Vegetation
2880.00-WC	16	600788	5398631	White Lake	2BC	White	White River	Lake/Pond	Permanent	6	227	61163780	Gneissic tonalite suite	-(e)	-(e)	-(e)
2890.00-WC	16	600997	5398714	White Lake	2BC	White	White River	Lake/Pond	Permanent	6	176	61163780	Gneissic tonalite suite	Sand	-(e)	-(e)
2900.00-WC	16	601770	5398716	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<1	-(d)	Mafic to intermediate metavolcanic rocks	Organics	Protected	Protected
2910.00-WC	16	602256	5398380	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	1	35	540	Mafic and ultramafic rocks	Organics	Protected	Protected
2920.00-WC	16	602266	5398373	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	1	35	540	Mafic and ultramafic rocks	Organics	Protected	Protected
2930.00-WC	16	602307	5398345	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	35	-(d)	Mafic and ultramafic rocks	Organics	Protected	Protected
2940.00-WC	16	602664	5398097	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	60	-(d)	Mafic and ultramafic rocks	Organics	Protected	Protected
2950.00-WC	16	603310	5397648	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	20	-(d)	Gneissic tonalite suite	Organics	Protected	Protected
2960.00-WC	16	603950	5397262	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	1	-(d)	Gneissic tonalite suite	Organics	Protected	Protected
2970.00-WC	16	605503	5397489	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	50	-(d)	Gneissic tonalite suite	Organics	Protected	Protected
2980.00-WC	16	605817	5397598	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	1	13	800	Gneissic tonalite suite	-(e)	-(e)	-(e)
2990.00-WC	16	606082	5397601	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	2	220	48500	Gneissic tonalite suite	Organics	Protected	Protected
3000.00-WC	16	606333	5397434	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<2	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)
3010.00-WC	16	606343	5397406	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<2	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)
3020.00-WC	16	606373	5397316	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	40	-(d)	Gneissic tonalite suite	Organics	Protected	Protected
3030.00-WC	16	606790	5396834	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	20	-(d)	Gneissic tonalite suite	Organics	Protected	Protected
3040.00-WC	16	607164	5396460	Bertrand Creek	2BC	White	White River	Watercourse	Permanent	4	5	-(d)	Gneissic tonalite suite	Organics	Protected	Protected
3050.00-WC	16	607550	5396193	Pukaskwa River	2BC	White	White River	Watercourse	Permanent	2	1	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3060.00-WC	16	607591	5396172	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	2	60	28550	Foliated tonalite suite	Organics	Protected	Protected
3070.00-WC	16	608137	5395930	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<1	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3080.00-WC	16	610127	5395115	White River	2BC	White	White River	Watercourse	Permanent	1	30	-(d)	Foliated tonalite suite	Organics	-(e)	-(e)
3090.00-WC	16	610687	5394793	White River	2BC	White	White River	Watercourse	Permanent	6	28	-(d)	Foliated tonalite suite	Fines	Vulnerable	Vulnerable
3100.00-WC	16	612189	5394178	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	1	-(d)	Mafic to intermediate metavolcanic rocks	Fines	Vulnerable	Vulnerable
3110.00-WC	16	612261	5394149	White River	2BC	White	White River	Watercourse	Permanent	6	40	-(d)	Mafic to intermediate metavolcanic rocks	Sand	-(e)	-(e)
3111.00-WC	16	614036	5391972	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3120.00-WC	16	615220	5391034	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	-(d)	Foliated tonalite suite	Detritus	-(e)	-(e)
3130.00-WC	16	615643	5390699	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	20	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3140.00-WC	16	615816	5390562	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	0.4	-(d)	Foliated tonalite suite	Fines	Vulnerable	Vulnerable
3150.00-WC	16	616429	5390053	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	0.35	-(d)	Foliated tonalite suite	Boulder	Vulnerable	Vulnerable
3160.00-WC	16	616877	5389754	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	3	-(d)	Foliated tonalite suite	Fines	Vulnerable	Vulnerable
3170.00-WC	16	618075	5389388	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(g)</sup>	1.4	-(d)	Foliated tonalite suite	Boulder	Protected	Protected

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
3180.00-WC	16	618640	5389115	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	1	15	11710	Foliated tonalite suite	Fines	-(e)	-(e)
3190.00-WC	16	619008	5389087	North Buck Lake	2BC	White	White River	Lake/Pond	Permanent	1	100	103910	Foliated tonalite suite	Fines	-(e)	-(e)
3200.00-WC	16	619770	5389150	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	80	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3210.00-WC	16	619913	5389163	North Crocker's Lake	2BC	White	White River	Lake/Pond	Permanent	4	16	501550	Foliated tonalite suite	Sand	Protected	Protected
3220.00-WC	16	622332	5388708	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	-(d)	Foliated tonalite suite	Boulder	-(e)	-(e)
3230.00-WC	16	622547	5388439	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	3	25	441230	Foliated tonalite suite	Fines	-(e)	-(e)
3240.00-WC	16	622990	5387883	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	20	-(d)	Foliated tonalite suite	-(e)	Protected	Protected
3241.00-WC	16	623029	5387843	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(g)</sup>	<3	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3250.00-WC	16	623930	5386903	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	0.4	-(d)	Foliated tonalite suite	Boulder	Protected	Protected
3260.00-WC	16	624383	5385482	Two and a Half Creek	2BC	White	White River	Watercourse	Permanent	2	5.5	-(d)	Foliated tonalite suite	Boulder	Protected	Protected
3270.00-WC	16	624494	5383922	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	0.5	-(d)	Foliated tonalite suite	Detritus	Protected	Protected
3280.00-WC	16	624549	5383141	White River	2BC	White	White River	Watercourse	Permanent	6	45	-(d)	Foliated tonalite suite	Sand	Vulnerable	Vulnerable
3290.00-WC	16	624699	5381036	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Ephemeral	1 <sup>(g)</sup>	<5	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3300.00-WC	16	624830	5379191	Whitehead's Creek	2BC	White	White River	Watercourse	Permanent	4	2	-(d)	Foliated tonalite suite	Sand	Protected	Protected
3310.00-WC	16	624556	5378277	Whitehead's Creek	2BC	White	White River	Watercourse	Permanent	4	5	-(d)	Foliated tonalite suite	Gravel	Protected	Protected
3320.00-WC	16	623509	5377535	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	1	10	2090	Foliated tonalite suite	Organics	Protected	Protected
3330.00-WC	16	622529	5376840	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	1	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3340.00-WC	16	622421	5376764	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	1	<1	1890	Foliated tonalite suite	-(e)	Protected	Protected
3350.00-WC	16	621287	5375960	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3360.00-WC	16	620830	5375217	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<5	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3370.00-WC	16	620610	5373896	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	1	100	79980	Foliated tonalite suite	Silt	Protected	Protected
3380.00-WC	16	620225	5371251	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	3	17	-(d)	Foliated tonalite suite	Fines	Vulnerable	Vulnerable
3390.00-WC	16	620131	5369877	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	2	2	1630	Foliated tonalite suite	Silt	Protected	Protected
3400.00-WC	16	620129	5369845	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	2	2	1630	Foliated tonalite suite	Silt	Protected	Protected
3410.00-WC	16	620127	5369810	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	2	-(d)	Foliated tonalite suite	Silt	Protected	Protected
3420.00-WC	16	620126	5369804	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	2	-(d)	Foliated tonalite suite	Silt	Protected	Protected
3430.00-WC	16	620125	5369780	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	15	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3440.00-WC	16	620109	5369586	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<2	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3450.00-WC	16	620027	5368837	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	1	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3460.00-WC	16	619988	5368475	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	3	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3470.00-WC	16	619829	5367004	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	10	-(d)	Foliated tonalite suite	Fines	-(e)	-(e)
3480.00-WC	16	619731	5364964	Doss Lake	2BC	White	White River	Lake/Pond	Permanent	2	200	1222780	Foliated tonalite suite	Organics	Protected	Protected
3490.00-WC	16	619790	5364929	Doss Lake	2BC	White	White River	Lake/Pond	Permanent	2	23	1222780	Foliated tonalite suite	Organics	Protected	Protected
3491.00-WC	16	619855	5364891	Doss Lake	2BC	White	White River	Lake/Pond	Permanent	2	20	1222780	Foliated tonalite suite	-(e)	-(e)	-(e)
3500.00-WC	16	621796	5363750	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Intermittent	1	2.5	57660	Foliated tonalite suite	Detritus	-(e)	-(e)
3510.00-WC	16	622291	5363038	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	3	5	-(d)	Foliated tonalite suite	Cobble	Vulnerable	Vulnerable
3519.00-WC	16	622385	5362322	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	15	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3520.00-WC	16	622390	5362290	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	2	<1	390	Foliated tonalite suite	Organics	Protected	Protected
3530.00-WC	16	622427	5360973	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	1.5	-(d)	Foliated tonalite suite	Detritus	-(e)	-(e)
3540.00-WC	16	622479	5359561	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	-(d)	Foliated tonalite suite	-(e)	Protected	Protected
3550.00-WC	16	622574	5358446	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	5	-(d)	Foliated tonalite suite	Organics	Protected	Protected



**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
3560.00-WC	16	622572	5358424	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	5	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3570.00-WC	16	622571	5358411	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	5	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3580.00-WC	16	622580	5357984	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	25	-(d)	Foliated tonalite suite	Silt	Protected	Protected
3590.00-WC	16	622722	5356717	Pokei Creek	2BC	White	White River	Watercourse	Permanent	3	1	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3600.00-WC	16	622757	5355802	Unnamed lake/pond	2BC	White	Pukaskwa River	Lake/Pond	Permanent	1	1	280	Foliated tonalite suite	Organics	Protected	Protected
3610.00-WC	16	622721	5354249	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	<1	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3620.00-WC	16	622230	5353953	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	<2	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3630.00-WC	16	621887	5353745	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	60	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3640.00-WC	16	621031	5353229	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	2	50	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3650.00-WC	16	619170	5351872	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	5	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3660.01-WC	16	618651	5349591	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	<2	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
3670.01-WC	16	618250	5347886	Pukaskwa River	2BC	White	Pukaskwa River	Lake/Pond	Permanent	4	30	3230430	Foliated tonalite suite	Sand	Protected	Protected
3680.01-WC	16	618178	5347200	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	2	-(d)	Mafic to intermediate metavolcanic rocks	Sand/gravel	Vulnerable	Vulnerable
3690.00-WC	16	618142	5346445	Unnamed lake/pond	2BC	White	Pukaskwa River	Lake/Pond	Permanent	1	80	73030	Foliated tonalite suite	-(e)	Protected	Protected
3700.00-WC	16	618078	5345369	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	20	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3710.00-WC	16	618078	5345362	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	20	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3720.00-WC	16	618077	5345351	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	20	-(d)	Foliated tonalite suite	Organics	Protected	Protected
3730.00-WC	16	618071	5345251	Unnamed lake/pond	2BC	White	Pukaskwa River	Lake/Pond	Permanent	1	20	17700	Foliated tonalite suite	Organics	Protected	Protected
3740.00-WC	16	618530	5342318	Unnamed lake/pond	2BC	White	Pukaskwa River	Lake/Pond	Permanent	1	1.5	33040	Mafic to intermediate metavolcanic rocks	Detritus	Vulnerable	Vulnerable
3750.00-WC	16	619743	5341554	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	3.1	-(d)	Mafic to intermediate metavolcanic rocks	Sand	Vulnerable	Vulnerable
3760.00-WC	16	619824	5341505	East Pukaskwa River	2BC	White	Pukaskwa River	Watercourse	Permanent	3	4.7	-(d)	Mafic to intermediate metavolcanic rocks	Detritus	Vulnerable	Vulnerable
3761.00-WC	16	620279	5341234	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Ephemeral	1 <sup>(g)</sup>	<2	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
3770.00-WC	16	621322	5340611	Unnamed lake/pond	2BC	White	Pukaskwa River	Lake/Pond	Permanent	1	20	5810	Mafic to intermediate metavolcanic rocks	Fines	-(e)	-(e)
3780.00-WC	16	621891	5340271	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	2	0.9	-(d)	Mafic to intermediate metavolcanic rocks	Fines	-(e)	-(e)
3790.00-WC	16	622514	5339899	Unnamed lake/pond	2BC	White	Pukaskwa River	Lake/Pond	Permanent	1	145	50590	Metasedimentary rocks	Detritus	-(e)	-(e)
3800.00-WC	16	623405	5339367	Unnamed lake/pond	2BC	White	Pukaskwa River	Lake/Pond	Permanent	1	1	490	Metasedimentary rocks	Organics	Protected	Protected
3810.00-WC	16	624256	5338858	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	2	1	-(d)	Mafic to intermediate metavolcanic rocks	Detritus	Vulnerable	Vulnerable
3820.00-WC	16	624663	5338615	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	1	-(d)	Mafic to intermediate metavolcanic rocks	Organics	Protected	Protected
3830.00-WC	16	625600	5338055	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	<1	-(d)	Mafic to intermediate metavolcanic rocks	Organics	Protected	Protected
3840.00-WC	16	627117	5337102	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	4	<1	-(d)	Gneissic tonalite suite	-(e)	Protected	Protected
3841.00-WC	16	627421	5336902	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1 <sup>(g)</sup>	<2	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)
3850.00-WC	16	627465	5336873	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<1	-(d)	Gneissic tonalite suite	Organics	Protected	Protected

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
3860.00-WC	16	628149	5336424	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	10	-(d)	Gneissic tonalite suite	Organics	Protected	Protected
3870.00-WC	16	628621	5336114	Dog River	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	20	-(d)	Gneissic tonalite suite	Gravel	-(e)	-(e)
3880.00-WC	16	628683	5336074	Dog River	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	20	-(d)	Gneissic tonalite suite	Gravel	-(e)	-(e)
3890.00-WC	16	628741	5336035	Dog River	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	6	20	-(d)	Gneissic tonalite suite	Gravel	-(e)	-(e)
3900.00-WC	16	628784	5336008	Dog River	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	6	20	-(d)	Gneissic tonalite suite	Gravel	-(e)	-(e)
3910.00-WC	16	628894	5335935	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	27	-(d)	Gneissic tonalite suite	Organics	-(e)	-(e)
3920.00-WC	16	628974	5335882	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	5	-(d)	Gneissic tonalite suite	Boulder	Protected	Protected
3930.00-WC	16	629843	5335312	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	1	-(d)	Gneissic tonalite suite	Boulder	Protected	Protected
3940.00-WC	16	630091	5335150	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	1	-(d)	Gneissic tonalite suite	Organics	Protected	Protected
3950.00-WC	16	630190	5335084	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<1	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)
3960.00-WC	16	630751	5334716	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	15	-(d)	Massive granodiorite to granite	Bedrock	Protected	Protected
3970.00-WC	16	631291	5334362	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<1	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
3980.00-WC	16	631754	5334058	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	5	-(d)	Gneissic tonalite suite	Cobble	Protected	Protected
3990.00-WC	16	632328	5333699	Stares Creek	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	5.5	-(d)	Gneissic tonalite suite	Bedrock	Protected	Protected
4000.00-WC	16	632961	5333318	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	3	4	-(d)	Gneissic tonalite suite	Boulder	Protected	Protected
4010.00-WC	16	633517	5332984	Unnamed lake/pond	2BD	Michipicoten - Magpie	Dog River	Lake/Pond	Permanent	1	28	23200	Gneissic tonalite suite	Bedrock	Protected	Protected
4020.00-WC	16	633631	5332915	Unnamed lake/pond	2BD	Michipicoten - Magpie	Dog River	Lake/Pond	Permanent	1	62	23200	Gneissic tonalite suite	Bedrock	Protected	Protected
4030.00-WC	16	633863	5332775	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	5	-(d)	Gneissic tonalite suite	Organics	Protected	Protected
4040.00-WC	16	634397	5332454	Unnamed lake/pond	2BD	Michipicoten - Magpie	Dog River	Lake/Pond	Permanent	1	162	69990	Gneissic tonalite suite	Bedrock	Protected	Protected
4050.00-WC	16	634888	5332158	Unnamed lake/pond	2BD	Michipicoten - Magpie	Dog River	Lake/Pond	Permanent	2	103	69990	Gneissic tonalite suite	Bedrock	Protected	Protected
4060.00-WC	16	635458	5331814	Unnamed lake/pond	2BD	Michipicoten - Magpie	Dog River	Lake/Pond	Permanent	1	157	40590	Gneissic tonalite suite	Boulder	Protected	Protected
4070.00-WC	16	635878	5331561	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	10	-(d)	Gneissic tonalite suite	Cobble	Protected	Protected
4080.00-WC	16	636769	5331023	Jimmy Kash River	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	4	33	-(d)	Gneissic tonalite suite	Cobble	Protected	Protected
4090.00-WC	16	637100	5330824	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	1	-(d)	Gneissic tonalite suite	-(e)	Protected	Protected

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
4100.00-WC	16	637862	5330364	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)
4110.00-WC	16	638442	5329987	Unnamed lake/pond	2BD	Michipicoten - Magpie	Dog River	Lake/Pond	Permanent	1	69	91880	Gneissic tonalite suite	Bedrock	Protected	Protected
4120.00-WC	16	639265	5329430	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	0.9	-(d)	Gneissic tonalite suite	Cobble	Vulnerable	Vulnerable
4130.00-WC	16	639666	5329159	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	1	-(d)	Gneissic tonalite suite	Sand	Vulnerable	Vulnerable
4140.00-WC	16	640797	5328394	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1 <sup>(g)</sup>	0.7	-(d)	Gneissic tonalite suite	Detritus	Vulnerable	Vulnerable
4150.00-WC	16	641333	5328032	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Ephemeral	1 <sup>(g)</sup>	3	-(d)	Gneissic tonalite suite	Detritus	Vulnerable	Vulnerable
4160.00-WC	16	641590	5327859	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	2.5	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)
4170.00-WC	16	642263	5327404	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	2.5	-(d)	Gneissic tonalite suite	Boulder	Protected	Protected
4180.00-WC	16	642599	5327177	Makwa River	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	4	15	-(d)	Gneissic tonalite suite	Cobble	Vulnerable	Vulnerable
4190.00-WC	16	643876	5326314	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	1.6	-(d)	Gneissic tonalite suite	Cobble	Protected	Protected
4200.00-WC	16	644176	5326112	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.35	-(d)	Gneissic tonalite suite	Fines	Protected	Protected
4210.01-WC	16	644742	5325730	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	10	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)
4220.00-WC	16	645437	5325261	Unnamed lake/pond	2BD	Michipicoten - Magpie	Makwa River	Lake/Pond	Permanent	1 <sup>(g)</sup>	10	-(d)	Gneissic tonalite suite	Fines	-(e)	-(e)
4230.00-WC	16	646102	5324812	Unnamed lake/pond	2BD	Michipicoten - Magpie	Makwa River	Lake/Pond	Permanent	1	25	1600	Gneissic tonalite suite	Detritus	-(e)	-(e)
4240.01-WC	16	646748	5324370	Unnamed lake/pond	2BD	Michipicoten - Magpie	Makwa River	Lake/Pond	Permanent	1	80	30880	Gneissic tonalite suite	-(e)	-(e)	-(e)
4241.00-WC	16	647551	5323801	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1 <sup>(g)</sup>	<2	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
4249.00-WC	16	647766	5323649	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	30	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
4250.00-WC	16	647781	5323638	Unnamed lake/pond	2BD	Michipicoten - Magpie	Makwa River	Lake/Pond	Permanent	1	30	1010	Foliated tonalite suite	Detritus	-(e)	-(e)
4260.00-WC	16	648441	5323171	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	2	3	-(d)	Foliated tonalite suite	Boulder	Protected	Protected
4270.00-WC	16	649059	5322733	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1 <sup>(g)</sup>	<1	-(d)	Foliated tonalite suite	Fines	Vulnerable	Vulnerable
4280.00-WC	16	649124	5322687	Unnamed lake/pond	2BD	Michipicoten - Magpie	Doré River	Lake/Pond	Ephemeral	1	<1	33330	Foliated tonalite suite	Fines	-(e)	-(e)
4290.01-WC	16	649698	5322280	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	<5	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
4300.00-WC	16	649909	5322131	Unnamed lake/pond	2BD	Michipicoten - Magpie	Doré River	Lake/Pond	Permanent	1	30	3570	Foliated tonalite suite	Fines	-(e)	-(e)
4310.01-WC	16	650296	5321856	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	20	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
4320.01-WC	16	650394	5321787	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	3	20	-(d)	Gneissic tonalite suite	-(e)	-(e)	-(e)
4330.00-WC	16	650461	5321739	Unnamed lake/pond	2BD	Michipicoten - Magpie	Doré River	Lake/Pond	Permanent	3	100	17570	Gneissic tonalite suite	Organics	Vulnerable	Vulnerable
4350.00-WC	16	650645	5321609	Unnamed lake/pond	2BD	Michipicoten - Magpie	Doré River	Lake/Pond	Permanent	3	198	293570	Foliated tonalite suite	Organics	Protected	Protected
4360.00-WC	16	650872	5321448	Unnamed lake/pond	2BD	Michipicoten - Magpie	Doré River	Lake/Pond	Permanent	3	30	293570	Foliated tonalite suite	Detritus	Vulnerable	Vulnerable
4370.00-WC	16	651771	5320812	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	1.2	-(d)	Foliated tonalite suite	Boulder	Protected	Protected
4380.00-WC	16	652329	5320416	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	5.1	-(d)	Foliated tonalite suite	Fines	Vulnerable	Vulnerable
4390.00-WC	16	653802	5319291	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Intermittent	1	10	-(d)	Foliated tonalite suite	Organics	-(e)	-(e)
4400.00-WC	16	653963	5319166	Doré River	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	4	22	-(d)	Foliated tonalite suite	-(e)	Protected	Protected
4410.00-WC	16	654119	5319043	Unnamed lake/pond	2BD	Michipicoten - Magpie	Doré River	Lake/Pond	Permanent	1	37	2840	Foliated tonalite suite	Organics	Vulnerable	Vulnerable
4420.00-WC	16	654187	5318990	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	23	-(d)	Foliated tonalite suite	Organics	Vulnerable	Vulnerable
4430.00-WC	16	655037	5318325	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Ephemeral	1 <sup>(g)</sup>	0.5	-(d)	Foliated tonalite suite	Boulder	Protected	Protected
4440.00-WC	16	655717	5317793	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1 <sup>(g)</sup>	2.3	-(d)	Foliated tonalite suite	Detritus	-(e)	-(e)
4450.00-WC	16	655867	5317676	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	7.2	-(d)	Foliated tonalite suite	Boulder	Protected	Protected
4460.00-WC	16	656054	5317529	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Ephemeral	1 <sup>(g)</sup>	<1	-(d)	Foliated tonalite suite	-(e)	-(e)	-(e)
4470.00-WC	16	656264	5317364	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	2.4	-(d)	Foliated tonalite suite	Detritus	Vulnerable	Vulnerable
4480.00-WC	16	657160	5316664	Unnamed lake/pond	2BD	Michipicoten - Magpie	Unnamed Creek 42	Lake/Pond	Permanent	1	110	52080	Coarse clastic metasedimentary rocks	Detritus	-(e)	-(e)
4490.00-WC	16	657437	5316447	Unnamed lake/pond	2BD	Michipicoten - Magpie	Unnamed Creek 42	Lake/Pond	Permanent	1	160	21230	Coarse clastic metasedimentary rocks	Detritus	-(e)	-(e)
4500.00-WC	16	658178	5315868	Cinders Lake	2BD	Michipicoten - Magpie	Unnamed Creek 42	Lake/Pond	Permanent	1	95	50490	Coarse clastic metasedimentary rocks	-(e)	-(e)	-(e)
4510.00-WC	16	658553	5315575	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 42	Watercourse	Permanent	1	1	-(d)	Coarse clastic metasedimentary rocks	Sand	Protected	Protected
4520.00-WC	16	658811	5315373	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 42	Watercourse	Permanent	3	5	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Protected
4529.00-WC	16	659588	5314766	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 45	Watercourse	Permanent	1	<5	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
4530.00-WC	16	659630	5314732	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 45	Watercourse	Permanent	1	2.2	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Vulnerable
4539.00-WC	16	659796	5314603	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 46	Watercourse	Permanent	1 <sup>(g)</sup>	<5	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
4540.00-WC	16	659903	5314519	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 46	Watercourse	Ephemeral	1	0.4	-(d)	Mafic to intermediate metavolcanic rocks	Detritus	Vulnerable	Vulnerable

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
4541.00-WC	16	659965	5314470	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 46	Watercourse	Permanent	1	<3	-(d)	Mafic to intermediate metavolcanic rocks	-(e)	-(e)	-(e)
4550.00-WC	16	660346	5314172	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 47	Watercourse	Permanent	1	2.5	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Protected
4560.00-WC	16	660699	5313897	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 47	Watercourse	Permanent	1	1.2	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Protected
4570.00-WC	16	662090	5312813	Magpie River	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	6	52	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Protected	Protected
4580.00-WC	16	664052	5312136	Wawa Creek	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	3	9	-(d)	Mafic to intermediate metavolcanic rocks	Cobble	Vulnerable	Vulnerable
4590.00-WC	16	664234	5312080	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1 <sup>(g)</sup>	1.2	-(d)	Mafic to intermediate metavolcanic rocks	Sand	Vulnerable	Vulnerable
4600.00-WC	16	665193	5311788	Trout Creek	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	4	7	-(d)	Mafic to intermediate metavolcanic rocks	Silt	Protected	Protected
4610.00-WC	16	668867	5310769	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	0.2	-(d)	Massive granodiorite to granite	Detritus	Vulnerable	Vulnerable
4620.00-WC	16	671089	5310215	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	143	-(d)	Massive granodiorite to granite	Organics	Protected	Protected
4630.00-WC	16	672170	5309945	Firesand River	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	5	12	-(d)	Massive granodiorite to granite	Cobble	Protected	Protected
4640.00-WC	16	672803	5309787	Unnamed lake/pond	2BD	Michipicoten - Magpie	Michipicoten River	Lake/Pond	Permanent	1	139	14040	Massive granodiorite to granite	Organics	Protected	Protected
4650.00-WC	16	673618	5309583	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<1	-(d)	Massive granodiorite to granite	-(e)	Protected	Protected
4660.00-WC	16	673696	5309564	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<1	-(d)	Massive granodiorite to granite	-(e)	Protected	Protected
4670.00-WC	16	674392	5309390	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	29	-(d)	Massive granodiorite to granite	Organics	Protected	Protected
4671.00-WC	16	675493	5309115	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<3	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
4680.00-WC	16	676109	5308961	Coleman Creek	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	2	2	-(d)	Massive granodiorite to granite	Sand	Protected	Protected
4690.00-WC	16	676760	5308797	Michipicoten River	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	7	377	-(d)	Massive granodiorite to granite	Cobble	Protected	Protected
4691.00-WC	16	676948	5308751	Michipicoten River	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	7	420	-(d)	Massive granodiorite to granite	-(e)	-(e)	-(e)
4700.00-WC	16	678963	5308281	Unnamed lake/pond	2BD	Michipicoten - Magpie	Michipicoten River	Lake/Pond	Permanent	1	245	57280	Massive granodiorite to granite	Organics	Protected	Protected
4710.00-WC	16	679765	5307882	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<5	-(d)	Massive granodiorite to granite	Organics	-(e)	-(e)
4720.00-WC	16	680820	5307328	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	1.5	-(d)	Massive granodiorite to granite	Organics	Protected	Protected
4730.00-WC	16	682014	5306983	Anjigami River	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	6	35	-(d)	Massive granodiorite to granite	Sand	Protected	Protected
4740.00-WC	16	683153	5306616	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	2	-(d)	Massive granodiorite to granite	Organics	Protected	Protected
4750.00-WC	16	683384	5306505	Unnamed lake/pond	2BD	Michipicoten - Magpie	Michipicoten River	Lake/Pond	Permanent	1	133	24240	Massive granodiorite to granite	Organics	Protected	Protected

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-4: Surface Water Attributes for Water Body Crossings on the Preferred Route Right-of-Way**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name (Refer to Table 7-I-1)	Water Body Type	Flow Regime <sup>(a)</sup>	Stream Order <sup>(b)</sup>	Mean Bank-full Width at Crossing <sup>(c)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surficial Geology	Dominant Channel Substrate	Left Bank Stability	Right Bank Stability
4751.00-WC	16	683389	5306535	Unnamed lake/pond	2BD	Michipicoten - Magpie	Michipicoten River	Lake/Pond	Permanent	1	150	24240	Massive granodiorite to granite	_(e)	_(e)	_(e)

a) Flow regime based on data from MNRF.

b) Stream order estimates based on Strahler method, noting that water bodies located on unmapped watercourses were assigned a stream order of 1.

c) With few exceptions, channel width of watercourse corresponds to an average of several measurements.

d) Not applicable – the water body represents a watercourse.

e) Not assessed.

f) Water body located on unmapped watercourse.

g) Water body crossing is located on Lake Superior.

ID = identification; UTM = Universal Transverse Mercator; m = metre; m<sup>2</sup> = square metre

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
4770.01-WC-A	16	345508	5374440	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 1	Watercourse	Permanent	1	<1	..(c)	Mafic metavolcanic and metasedimentary rocks	Temporary
4790.00-WC-A	16	346295	5374695	Unnamed watercourse	2AC	Black Sturgeon	Wild Goose Creek	Watercourse	Permanent	1	<1	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
4800.00-WC-A	16	346657	5374847	Unnamed watercourse	2AC	Black Sturgeon	Wild Goose Creek	Watercourse	Ephemeral	1 <sup>(a)</sup>	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
4801.00-WC-A	16	346991	5374928	Wild Goose Creek	2AC	Black Sturgeon	Wild Goose Creek	Watercourse	Permanent	1	7	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
4860.00-WC-A	16	348797	5375217	Blind Creek	2AC	Black Sturgeon	Blind Creek-2AC	Watercourse	Permanent	2	3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
4880.01-WC-A	16	351578	5376549	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 4	Watercourse	Permanent	2	<5	..(c)	Metasedimentary rocks	Temporary
4900.00-WC-A	16	352943	5377427	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 5	Watercourse	Ephemeral	1 <sup>(a)</sup>	<1	..(c)	Massive granodiorite to granite	Temporary
4901.00-WC-A	16	352997	5377474	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 5	Watercourse	Ephemeral	1 <sup>(a)</sup>	<1	..(c)	Massive granodiorite to granite	Temporary
4920.00-WC-A	16	356541	5379625	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<1	..(c)	Massive granodiorite to granite	Temporary
4950.00-WC-A	16	358017	5380857	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Ephemeral	1 <sup>(a)</sup>	<2	..(c)	Felsic to intermediate metavolcanic rocks	Temporary
4960.01-WC-A	16	358690	5381304	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	..(c)	Mafic and ultramafic rocks	Temporary
5000.01-WC-A	16	360240	5382724	Mackenzie River	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	5	15	..(c)	Metasedimentary rocks	Temporary
5001.00-WC-A	16	360493	5383070	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	2	<1	..(c)	Metasedimentary rocks	Temporary
5030.01-WC-A	16	361755	5384554	Beck Creek	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	9	..(c)	Metasedimentary rocks	Temporary
5032.00-WC-A	16	364066	5383298	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 10	Watercourse	Permanent	1	<1	..(c)	Mafic and ultramafic rocks	Temporary
5060.01-WC-A	16	361616	5387330	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Ephemeral	1 <sup>(a)</sup>	<1	..(c)	Metasedimentary rocks	Temporary
5070.00-WC-A	16	361751	5386893	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	<1	..(c)	Metasedimentary rocks	Temporary
5071.00-WC-A	16	362178	5386515	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	2	<3	..(c)	Metasedimentary rocks	Temporary
5072.00-WC-A	16	363277	5386334	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<1	..(c)	Metasedimentary rocks	Temporary
5073.00-WC-A	16	364474	5386756	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	4	15	..(c)	Metasedimentary rocks	Temporary
5080.00-WC-A	16	362528	5388578	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
5081.00-WC-A	16	361966	5390132	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	<1	..(c)	Metasedimentary rocks	Temporary
5090.01-WC-A	16	362038	5391098	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	10	..(c)	Metasedimentary rocks	Temporary
5100.00-WC-A	16	362240	5391787	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	10	..(c)	Metasedimentary rocks	Temporary
5110.01-WC-A	16	362121	5392135	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<3	..(c)	Metasedimentary rocks	Temporary
5111.00-WC-A	16	362217	5393341	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Metasedimentary rocks	Temporary
5112.00-WC-A	16	362302	5394444	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<3	..(c)	Metasedimentary rocks	Temporary
5140.00-WC-A	16	362357	5395070	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
5181.00-WC-A	16	362503	5396917	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Metasedimentary rocks	Temporary
5182.00-WC-A	16	362522	5397161	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
5301.00-WC-A	16	364085	5398457	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Mafic and ultramafic rocks	Temporary
5302.00-WC-A	16	365102	5399158	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Mafic and ultramafic rocks	Temporary
5321.00-WC-A	16	365917	5399738	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1	<2	..(c)	Mafic and ultramafic rocks	Temporary
5324.00-WC-A	16	367007	5400486	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Metasedimentary rocks	Temporary
5432.00-WC-A	16	369431	5402195	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Metasedimentary rocks	Temporary
5433.00-WC-A	16	369655	5402370	Unnamed watercourse	2AC	Black Sturgeon	Mackenzie River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Metasedimentary rocks	Temporary
5500.01-WC-A	16	371853	5404006	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	1	8	..(c)	Massive granodiorite to granite	Temporary
5569.00-WC-A	16	373380	5405160	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Ephemeral	1 <sup>(a)</sup>	<2	..(c)	Massive granodiorite to granite	Temporary
5590.01-WC-A	16	373985	5405918	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	1	<2	..(c)	Massive granodiorite to granite	Permanent

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
5591.00-WC-A	16	374770	5406307	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Massive granodiorite to granite	Permanent
5592.00-WC-A	16	374835	5406383	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	3	<5	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Permanent
5593.00-WC-A	16	375290	5406973	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	2	<2	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5660.00-WC-A	16	376130	5407600	Unnamed watercourse	2AC	Black Sturgeon	Coldwater Creek	Watercourse	Permanent	1	100 m US, 35 m DS	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5670.00-WC-A	16	376564	5408400	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	3	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Permanent
5680.01-WC-A	16	376534	5408362	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<3	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5690.01-WC-A	16	376633	5408499	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	2	10	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Permanent
5700.01-WC-A	16	376712	5408574	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	3	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Permanent
5710.01-WC-A	16	378783	5410160	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	2	..(c)	Sedimentary rocks	Temporary
5720.01-WC-A	16	379536	5410714	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	2	<1	..(c)	Sedimentary rocks	Temporary
5730.00-WC-A	16	379589	5411355	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<3	..(c)	Massive granodiorite to granite	Temporary
5740.00-WC-A	16	379761	5411286	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	2	<3	..(c)	Massive granodiorite to granite	Temporary
5770.01-WC-A	16	379846	5411009	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<1	..(c)	Sedimentary rocks	Temporary
5810.01-WC-A	16	382127	5413942	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<5	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5820.02-WC-A	16	382416	5414841	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<5	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5850.00-WC-A	16	383135	5414838	Unnamed watercourse	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	1	<2	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5860.01-WC-A	16	383371	5414366	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<5	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5870.01-WC-A	16	384282	5414024	Unnamed watercourse	2AC	Black Sturgeon	Wolf River	Watercourse	Permanent	1	<5	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary



**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
5920.01-WC-A	16	385130	5414664	Unnamed watercourse	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	1	<1	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5921.01-WC-A	16	386476	5415306	Unnamed watercourse	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	1	<1	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Permanent
5960.01-WC-A	16	388395	5416055	Unnamed watercourse	2AC	Black Sturgeon	Morrow Creek	Watercourse	Permanent	1	<1	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5961.00-WC-A	16	389885	5416503	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 14	Watercourse	Ephemeral	1 <sup>(a)</sup>	<1	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
5962.00-WC-A	16	389914	5416586	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 14	Watercourse	Ephemeral	1 <sup>(a)</sup>	<1	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6001.00-WC-A	16	391683	5417094	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 15	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6070.02-WC-A	16	393059	5417602	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 16	Watercourse	Permanent	2	<1	..(c)	Sedimentary rocks	Temporary
6071.01-WC-A	16	393315	5417663	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 16	Watercourse	Permanent	1 <sup>(a)</sup>	<1	..(c)	Sedimentary rocks	Temporary
6081.01-WC-A	16	394375	5417825	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 16	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Sedimentary rocks	Temporary
6120.01-WC-A	16	394987	5418501	Unnamed watercourse	2AC	Black Sturgeon	Unnamed Creek 16	Watercourse	Permanent	1	<2	..(c)	Sedimentary rocks	Permanent
6150.01-WC-A	16	395249	5418577	Unnamed lake/pond	2AC	Black Sturgeon	Unnamed Creek 16	Lake/Pond	Permanent	1	35	2780	Sedimentary rocks	Permanent
6171.00-WC-A	16	397821	5421322	Unnamed watercourse	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	1	0.4		Sedimentary rocks	Temporary
6180.01-WC-A	16	398231	5421830	Moseau Creek	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	3	12	..(c)	Sedimentary rocks	Permanent
6200.01-WC-A	16	398368	5422128	Moseau Creek	2AC	Black Sturgeon	Black Sturgeon River	Watercourse	Permanent	3	10	..(c)	Sedimentary rocks	Temporary
6230.00-WC-A	16	399383	5423454	Unnamed watercourse	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	1	<1	..(c)	Metasedimentary rocks	Temporary
6231.00-WC-A	16	399860	5423998	Unnamed watercourse	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	1 <sup>(a)</sup>	3	..(c)	Metasedimentary rocks	Permanent
6240.01-WC-A	16	400085	5424334	Unnamed watercourse	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	1 <sup>(a)</sup>	2	..(c)	Metasedimentary rocks	Temporary
6250.01-WC-A	16	400278	5424613	South Trout Creek	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	3	5	..(c)	Metasedimentary rocks	Temporary
6260.01-WC-A	16	401532	5426337	North Trout Creek	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	3	7	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6261.00-WC-A	16	401818	5426861	Unnamed watercourse	2AC	Black Sturgeon	North Trout Creek	Watercourse	Permanent	1	<3	..(c)	Metasedimentary rocks	Temporary
6300.00-WC-A	16	403601	5427407	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	3	<1	..(c)	Metasedimentary rocks	Permanent
6331.00-WC-A	16	404625	5427237	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	1 <sup>(a)</sup>	1.5	..(c)	Metasedimentary rocks	Temporary
6360.01-WC-A	16	405959	5427325	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	1	<3	..(c)	Metasedimentary rocks	Temporary
6370.00-WC-A	16	406384	5427351	Stillwater Creek	2AD	Nipigon	Nipigon River	Watercourse	Permanent	3	8.7	..(c)	Metasedimentary rocks	Permanent
6380.00-WC-A	16	406876	5427379	Unnamed watercourse	2AD	Nipigon	Nipigon River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
6381.00-WC-A	16	410367	5428674	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Ephemeral	1 <sup>(a)</sup>	<1	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6400.00-WC-A	16	413306	5429078	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
6430.00-WC-A	16	414054	5429203	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Ephemeral	1 <sup>(a)</sup>	1.5	..(c)	Metasedimentary rocks	Temporary
6450.00-WC-A	16	414371	5429242	West Little Ruby Creek	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	1	<1	..(c)	Metasedimentary rocks	Temporary
6470.00-WC-A	16	414496	5429257	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	1 <sup>(a)</sup>	1.1	..(c)	Metasedimentary rocks	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
6490.00-WC-A	16	414653	5429277	Unnamed watercourse	2AE	Jackpine	Ruby Creek	Watercourse	Ephemeral	1 <sup>(a)</sup>	1.5	.. <sup>(c)</sup>	Metasedimentary rocks	Temporary
6500.00-WC-A	16	415031	5429293	East Little Ruby Creek	2AE	Jackpine	Ruby Creek	Watercourse	Permanent	1	1.5	.. <sup>(c)</sup>	Metasedimentary rocks	Temporary
6510.00-WC-A	16	418196	5429641	Fire Hill Creek	2AE	Jackpine	Fire Hill Creek	Watercourse	Permanent	2	6	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Permanent
6530.00-WC-A	16	419451	5429912	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 17	Watercourse	Permanent	1	1.5	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6540.01-WC-A	16	419618	5429926	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 17	Watercourse	Permanent	1	<3	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6550.01-WC-A	16	420516	5429992	Unnamed watercourse	2AE	Jackpine	Jackfish River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6560.01-WC-A	16	423078	5430048	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 18	Watercourse	Permanent	1	<5	.. <sup>(c)</sup>	Metasedimentary rocks	Temporary
6580.01-WC-A	16	424569	5429859	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 19	Watercourse	Permanent	1	<2	.. <sup>(c)</sup>	Metasedimentary rocks	Temporary
6581.00-WC-A	16	425975	5429279	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 20	Watercourse	Permanent	2	<3	.. <sup>(c)</sup>	Sedimentary rocks	Permanent
6582.00-WC-A	16	426028	5429285	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 20	Watercourse	Permanent	2	<3	.. <sup>(c)</sup>	Sedimentary rocks	Permanent
6600.00-WC-A	16	426726	5429233	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 20	Watercourse	Permanent	2	2	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Permanent
6610.01-WC-A	16	427986	5428306	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 21	Watercourse	Permanent	2	16	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Permanent
6611.00-WC-A	16	426359	5426146	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 21	Watercourse	Permanent	2	<5	.. <sup>(c)</sup>	Sedimentary rocks	Temporary
6620.01-WC-A	16	430195	5426989	Unnamed watercourse	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	1	<1	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6630.01-WC-A	16	430262	5426937	Unnamed watercourse	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	1	<1	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6640.01-WC-A	16	430275	5426927	Unnamed watercourse	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	1	<1	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6650.01-WC-A	16	430287	5426921	Unnamed watercourse	2AE	Jackpine	Dublin Creek	Watercourse	Ephemeral	1	<1	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6660.00-WC-A	16	431150	5426403	Dublin Creek	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	3	6	.. <sup>(c)</sup>	Metasedimentary rocks	Temporary
6680.00-WC-A	16	431582	5426143	Unnamed watercourse	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	1	<5	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6690.01-WC-A	16	431611	5426136	Unnamed watercourse	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	1	<5	.. <sup>(c)</sup>	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
6700.00-WC-A	16	431633	5426131	Unnamed watercourse	2AE	Jackpine	Dublin Creek	Watercourse	Permanent	1	<5	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6740.00-WC-A	16	433861	5425065	Unnamed watercourse	2AE	Jackpine	MacInnes Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<1	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6750.01-WC-A	16	434012	5425009	Unnamed watercourse	2AE	Jackpine	MacInnes Creek	Watercourse	Ephemeral	1 <sup>(a)</sup>	<1	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6760.00-WC-A	16	434804	5424627	Unnamed watercourse	2AE	Jackpine	MacInnes Creek	Watercourse	Permanent	2	<1	..(c)	Mafic dikes and related intrusive rocks (Keweenawan age) (circa 1.1 to 1.2 Ga)	Temporary
6770.00-WC-A	16	437304	5423506	Unnamed watercourse	2AE	Jackpine	Cypress River	Watercourse	Permanent	3	6	..(c)	Metasedimentary rocks	Temporary
6771.00-WC-A	16	437339	5423444	Unnamed watercourse	2AE	Jackpine	Cypress River	Watercourse	Ephemeral	1 <sup>(a)</sup>	<1	..(c)	Metasedimentary rocks	Temporary
6780.00-WC-A	16	437265	5423143	Unnamed watercourse	2AE	Jackpine	Cypress River	Watercourse	Permanent	3	<5	..(c)	Metasedimentary rocks	Temporary
6790.01-WC-A	16	436504	5422214	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 23	Watercourse	Permanent	1	<1	..(c)	Sedimentary rocks	Temporary
6800.00-WC-A	16	436521	5421733	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 23	Watercourse	Permanent	1	<1	..(c)	Sedimentary rocks	Temporary
6820.00-WC-A	16	438464	5422977	Unnamed watercourse	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
6840.00-WC-A	16	438993	5422214	Little Cypress River	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	2	<3	..(c)	Metasedimentary rocks	Temporary
6841.00-WC-A	16	439489	5422520	Unnamed watercourse	2AE	Jackpine	Little Cypress River	Watercourse	Ephemeral	1 <sup>(a)</sup>	15	..(c)	Metasedimentary rocks	Temporary
6842.00-WC-A	16	439950	5422265	Unnamed watercourse	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Metasedimentary rocks	Temporary
6845.00-WC-A	16	440190	5421936	Unnamed watercourse	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1	<1	..(c)	Gneissic tonalite suite	Temporary
6850.00-WC-A	16	439502	5421531	Unnamed watercourse	2AE	Jackpine	Little Cypress River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Temporary
6870.00-WC-A	16	440641	5421925	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 24	Watercourse	Permanent	1	<1	..(c)	Gneissic tonalite suite	Temporary
6880.00-WC-A	16	442443	5421358	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 25	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Temporary
6890.00-WC-A	16	443186	5421060	Unnamed watercourse	2AE	Jackpine	Little Gravel River	Watercourse	Permanent	3	12	..(c)	Mafic and ultramafic rocks	Temporary
6900.00-WC-A	16	443224	5419647	Unnamed watercourse	2AE	Jackpine	Little Gravel River	Watercourse	Permanent	3	5.4	..(c)	Massive granodiorite to granite	Temporary
6930.00-WC-A	16	448968	5419074	Gravel River	2AE	Jackpine	Gravel River	Watercourse	Permanent	5	20	..(c)	Massive granodiorite to granite	Permanent
6951.00-WC-A	16	450708	5418599	Unnamed watercourse	2AE	Jackpine	Unnamed Creek 26	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Massive granodiorite to granite	Temporary
6952.00-WC-A	16	451232	5418233	Unnamed lake/pond	2AE	Jackpine	Unnamed Creek 26	Lake/Pond	Permanent	1	140	42260	Massive granodiorite to granite	Temporary
6960.00-WC-A	16	453316	5417314	Unnamed watercourse	2AE	Jackpine	Gravel River	Watercourse	Permanent	1	3	..(c)	Massive granodiorite to granite	Temporary
6961.00-WC-A	16	453392	5417368	Unnamed watercourse	2AE	Jackpine	Gravel River	Watercourse	Permanent	2	22	..(c)	Massive granodiorite to granite	Permanent
6962.00-WC-A	16	453425	5417463	Unnamed watercourse	2AE	Jackpine	Gravel River	Watercourse	Permanent	1 <sup>(a)</sup>	<1	..(c)	Massive granodiorite to granite	Permanent
6970.00-WC-A	16	453338	5417267	Unnamed watercourse	2AE	Jackpine	Gravel River	Watercourse	Permanent	1	1.9	..(c)	Massive granodiorite to granite	Temporary
6980.01-WC-A	16	454188	5417230	Unnamed watercourse	2AE	Jackpine	Gravel River	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Massive granodiorite to granite	Temporary
6990.00-WC-A	16	453871	5416635	Nishin Creek	2AE	Jackpine	Gravel River	Watercourse	Permanent	1	<1	..(c)	Massive granodiorite to granite	Temporary
7010.00-WC-A	16	455507	5416799	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1	<3	..(c)	Massive granodiorite to granite	Temporary
7040.01-WC-A	16	456125	5416497	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1	3	..(c)	Massive granodiorite to granite	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
7041.00-WC-A	16	457198	5416096	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1	1	..(c)	Massive granodiorite to granite	Temporary
7050.01-WC-A	16	458376	5415687	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1	<3	..(c)	Sedimentary rocks	Temporary
7060.01-WC-A	16	458348	5415424	Unnamed watercourse	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	1	2.6	..(c)	Sedimentary rocks	Temporary
7070.00-WC-A	16	458131	5414925	Wesley Creek	2AE	Jackpine	Wesley Creek	Watercourse	Permanent	2	5.5	..(c)	Sedimentary rocks	Temporary
7080.01-WC-A	16	460698	5414947	Unnamed watercourse	2BA	Little Pic	Willie Whites Creek	Watercourse	Permanent	1	<5	..(c)	Massive granodiorite to granite	Temporary
7090.00-WC-A	16	461176	5414719	Willie Whites Creek	2BA	Little Pic	Willie Whites Creek	Watercourse	Permanent	1	<5	..(c)	Massive granodiorite to granite	Temporary
7091.00-WC-A	16	461981	5414497	Unnamed watercourse	2BA	Little Pic	Willie Whites Creek	Watercourse	Permanent	1 <sup>(a)</sup>	5	..(c)	Massive granodiorite to granite	Temporary
7092.00-WC-A	16	462756	5414209	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 27	Watercourse	Permanent	1 <sup>(a)</sup>	1	..(c)	Massive granodiorite to granite	Temporary
7093.00-WC-A	16	463991	5413844	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	1 <sup>(a)</sup>	2.1	..(c)	Massive granodiorite to granite	Temporary
7110.01-WC-A	16	465577	5413349	McLean's Creek	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	2	2.5	..(c)	Massive granodiorite to granite	Temporary
7120.01-WC-A	16	465660	5413370	McLean's Creek	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	2	<3	..(c)	Massive granodiorite to granite	Permanent
7130.01-WC-A	16	465658	5413642	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	2	9.5	..(c)	Massive granodiorite to granite	Permanent
7140.01-WC-A	16	465774	5413696	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	2	<5	..(c)	Massive granodiorite to granite	Permanent
7141.00-WC-A	16	457198	5416096	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	2	<5	..(c)	Massive granodiorite to granite	Temporary
7160.00-WC-A	16	467329	5412615	McLean's Creek	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	4	7	..(c)	Massive granodiorite to granite	Temporary
7180.01-WC-A	16	468558	5413030	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	1	5	..(c)	Massive granodiorite to granite	Temporary
7190.00-WC-A	16	468590	5413002	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	1	<2	..(c)	Massive granodiorite to granite	Temporary
7200.01-WC-A	16	468702	5412881	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	1	3	..(c)	Massive granodiorite to granite	Temporary
7201.00-WC-A	16	469649	5412792	Unnamed watercourse	2BA	Little Pic	McLean's Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<1	..(c)	Massive granodiorite to granite	Temporary
7210.00-WC-A	16	470821	5413167	Unnamed watercourse	2BA	Little Pic	Hewitson River	Watercourse	Permanent	1	3.2	..(c)	Massive granodiorite to granite	Temporary
7220.01-WC-A	16	473872	5412003	Unnamed watercourse	2BA	Little Pic	Hewitson River	Watercourse	Permanent	1	1.5	..(c)	Massive granodiorite to granite	Temporary
7230.01-WC-A	16	473850	5412019	Unnamed watercourse	2BA	Little Pic	Hewitson River	Watercourse	Permanent	1	<2	..(c)	Massive granodiorite to granite	Temporary
7240.00-WC-A	16	474505	5411843	Unnamed watercourse	2BA	Little Pic	Hewitson River	Watercourse	Permanent	1	<5	..(c)	Massive granodiorite to granite	Temporary
7311.00-WC-A	16	475224	5411676	Unnamed watercourse	2BA	Little Pic	Hewitson River	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Massive granodiorite to granite	Temporary
7320.00-WC-A	16	475285	5411658	Unnamed lake/pond	2BA	Little Pic	Hewitson River	Lake/Pond	Permanent	1	12	157220	Massive granodiorite to granite	Temporary
7321.00-WC-A	16	475299	5411667	Reid Lake	2BA	Little Pic	Hewitson River	Watercourse	Permanent	1	7	..(c)	Massive granodiorite to granite	Temporary
7330.00-WC-A	16	476315	5411379	Unnamed lake/pond	2BA	Little Pic	Blind Creek-2BA	Lake/Pond	Permanent	1	15	5630	Massive granodiorite to granite	Permanent
7331.00-WC-A	16	476394	5411474	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Intermittent	1 <sup>(a)</sup>	<1	..(c)	Massive granodiorite to granite	Permanent

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
7340.00-WC-A	16	477114	5411395	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Permanent	1	20	..(c)	Massive granodiorite to granite	Temporary
7350.01-WC-A	16	477360	5411359	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Permanent	3	3	..(c)	Massive granodiorite to granite	Permanent
7351.00-WC-A	16	477522	5411317	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Permanent	3	6	..(c)	Massive granodiorite to granite	Permanent
7360.01-WC-A	16	477547	5411302	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Permanent	3	<3	..(c)	Massive granodiorite to granite	Permanent
7361.00-WC-A	16	478069	5411189	Unnamed lake/pond	2BA	Little Pic	Blind Creek-2BA	Lake/Pond	Permanent	1	15	16180	Massive granodiorite to granite	Temporary
7362.01-WC-A	16	478134	5411186	Unnamed lake/pond	2BA	Little Pic	Blind Creek-2BA	Lake/Pond	Permanent	1	20	16180	Massive granodiorite to granite	Temporary
7370.01-WC-A	16	478147	5411182	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Massive granodiorite to granite	Temporary
7371.01-WC-A	16	478187	5411186	Unnamed lake/pond	2BA	Little Pic	Blind Creek-2BA	Lake/Pond	Permanent	1	<5	16180	Massive granodiorite to granite	Temporary
7380.00-WC-A	16	478891	5411030	Unnamed watercourse	2BA	Little Pic	Blind Creek-2BA	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7390.00-WC-A	16	479240	5410919	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 29	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7410.00-WC-A	16	479635	5410381	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 29	Watercourse	Permanent	1	<1	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7412.00-WC-A	16	479672	5410357	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 29	Watercourse	Permanent	1	<5	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7420.01-WC-A	16	480235	5410122	Cook Lake	2BA	Little Pic	Unnamed Creek 29	Lake/Pond	Permanent	1	25	12990	Mafic to intermediate metavolcanic rocks	Temporary
7430.01-WC-A	16	480282	5410104	Cook Lake	2BA	Little Pic	Unnamed Creek 29	Lake/Pond	Permanent	1	31	12990	Mafic to intermediate metavolcanic rocks	Temporary
7440.00-WC-A	16	480839	5410113	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 29	Watercourse	Permanent	1	<1	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7450.00-WC-A	16	480494	5408015	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 29	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7451.00-WC-A	16	480281	5409285	Cook Lake	2BA	Little Pic	Unnamed Creek 29	Lake/Pond	Permanent	2	<5	466760	Mafic to intermediate metavolcanic rocks	Temporary
7452.00-WC-A	16	480231	5409528	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 29	Watercourse	Permanent	2	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7453.00-WC-A	16	480330	5409890	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 29	Watercourse	Permanent	1	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7454.00-WC-A	16	480313	5409973	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 29	Watercourse	Permanent	1	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7480.01-WC-A	16	481210	5410022	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7490.01-WC-A	16	481273	5409929	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7491.00-WC-A	16	482458	5409832	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	4	20	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7530.01-WC-A	16	481711	5410371	Big Duck Creek	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	4	22	..(c)	Massive granodiorite to granite	Temporary
7540.00-WC-A	16	483632	5409682	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7541.00-WC-A	16	484267	5410091	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7550.01-WC-A	16	485104	5409815	Ansell Creek	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	4	10	..(c)	Mafic to intermediate metavolcanic rocks	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
7551.00-WC-A	16	485427	5409709	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	2	<5	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
7580.01-WC-A	16	485601	5409697	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	2	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7600.01-WC-A	16	486449	5409437	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	<1	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7610.00-WC-A	16	487041	5409418	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7611.00-WC-A	16	487364	5409390	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7630.01-WC-A	16	487557	5409412	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7631.00-WC-A	16	487578	5409357	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	10	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7650.00-WC-A	16	488266	5409226	Fog Creek	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	4	<5	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
7670.00-WC-A	16	488517	5409241	Unnamed watercourse	2BA	Little Pic	Aguasabon River	Watercourse	Permanent	1	2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7671.00-WC-A	16	491974	5408608	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7672.00-WC-A	16	493373	5408374	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7720.01-WC-A	16	494594	5408252	Blackbird Creek	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	2	5.5	..(c)	Massive granodiorite to granite	Temporary
7731.00-WC-A	16	496269	5407897	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Massive granodiorite to granite	Temporary
7732.00-WC-A	16	497266	5407920	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Massive granodiorite to granite	Temporary
7740.00-WC-A	16	497763	5408023	Lake B	2BA	Little Pic	Blackbird Creek	Lake/Pond	Permanent	2	2.9	186590	Massive granodiorite to granite	Temporary
7750.01-WC-A	16	497839	5407948	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1	0.75	..(c)	Massive granodiorite to granite	Temporary
7760.01-WC-A	16	498574	5407540	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1 <sup>(a)</sup>	1.5	..(c)	Massive granodiorite to granite	Temporary
7770.00-WC-A	16	499281	5407355	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1	0.68	..(c)	Massive granodiorite to granite	Temporary
7771.00-WC-A	16	499303	5407382	Unnamed watercourse	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1	<5	..(c)	Massive granodiorite to granite	Temporary
7780.01-WC-A	16	499845	5407059	Blackbird Creek	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	1	7.6	..(c)	Massive granodiorite to granite	Temporary
7790.01-WC-A	16	499865	5407057	Blackbird Creek	2BA	Little Pic	Blackbird Creek	Watercourse	Permanent	4	7	..(c)	Massive granodiorite to granite	Temporary
7800.02-WC-A	16	501850	5407060	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 31	Watercourse	Permanent	1	0.75	..(c)	Massive granodiorite to granite	Temporary
7801.01-WC-A	16	501897	5407089	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 31	Watercourse	Permanent	1	<5	..(c)	Massive granodiorite to granite	Temporary
7820.00-WC-A	16	505672	5406865	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<1	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7840.00-WC-A	16	506170	5406849	Santoy Creek	2BA	Little Pic	Steel River	Watercourse	Permanent	3	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7850.02-WC-A	16	507417	5406851	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
7851.00-WC-A	16	508057	5406847	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
7860.00-WC-A	16	510328	5406751	Steel River	2BA	Little Pic	Steel River	Watercourse	Permanent	6	20	-(c)	Metasedimentary rocks	Permanent
7870.00-WC-A	16	511049	5406613	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	3	10	-(c)	Metasedimentary rocks	Temporary
7880.00-WC-A	16	511080	5406716	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	3	<3	-(c)	Metasedimentary rocks	Temporary
7890.00-WC-A	16	511560	5406616	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<1	-(c)	Metasedimentary rocks	Temporary
7900.01-WC-A	16	511978	5406550	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<2	-(c)	Metasedimentary rocks	Temporary
7910.00-WC-A	16	512044	5406550	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<1	-(c)	Metasedimentary rocks	Temporary
7911.00-WC-A	16	512055	5406570	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Ephemeral	1	<3	-(c)	Metasedimentary rocks	Temporary
7920.01-WC-A	16	512064	5406616	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<1	-(c)	Metasedimentary rocks	Temporary
7921.00-WC-A	16	512063	5406610	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<5	-(c)	Metasedimentary rocks	Temporary
7938.00-WC-A	16	512073	5406637	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<3	-(c)	Metasedimentary rocks	Temporary
7940.01-WC-A	16	512084	5406646	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<3	-(c)	Metasedimentary rocks	Temporary
7941.00-WC-A	16	512088	5406648	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<3	-(c)	Metasedimentary rocks	Temporary
7950.01-WC-A	16	512102	5406651	Unnamed watercourse	2BA	Little Pic	Steel River	Watercourse	Permanent	1	<1	-(c)	Metasedimentary rocks	Permanent
8000.00-WC-A	16	512923	5406628	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 32	Watercourse	Permanent	1	<5	-(c)	Metasedimentary rocks	Permanent
8010.00-WC-A	16	513795	5406434	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 32	Watercourse	Permanent	1	<1	-(c)	Metasedimentary rocks	Temporary
8020.00-WC-A	16	513959	5406415	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 32	Watercourse	Permanent	1	<1	-(c)	Metasedimentary rocks	Temporary
8030.00-WC-A	16	513997	5406405	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 32	Watercourse	Permanent	1	<1	-(c)	Metasedimentary rocks	Temporary
8040.00-WC-A	16	514027	5406381	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 32	Watercourse	Permanent	1	<5	-(c)	Metasedimentary rocks	Temporary
8041.00-WC-A	16	514402	5406325	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 32	Watercourse	Permanent	1 <sup>(a)</sup>	<3	-(c)	Metasedimentary rocks	Temporary
8050.01-WC-A	16	515238	5406325	Unnamed watercourse	2BA	Little Pic	Prairie River	Watercourse	Permanent	1	<2	-(c)	Metasedimentary rocks	Permanent
8060.01-WC-A	16	515538	5406249	Unnamed watercourse	2BA	Little Pic	Prairie River	Watercourse	Permanent	1	<2	-(c)	Metasedimentary rocks	Temporary
8070.01-WC-A	16	515616	5406221	n/a	2BA	Little Pic	Prairie River	n/a	n/a	1	n/a	-(c)	Metasedimentary rocks	Temporary
8071.00-WC-A	16	517651	5406118	Unnamed watercourse	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<1	-(c)	Metasedimentary rocks	Temporary
8090.00-WC-A	16	517691	5406105	Unnamed watercourse	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	2	<2	-(c)	Metasedimentary rocks	Temporary
8091.00-WC-A	16	517984	5406147	Unnamed watercourse	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	1	<2	-(c)	Metasedimentary rocks	Temporary
8100.01-WC-A	16	518821	5405873	Unnamed watercourse	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	1	<5	-(c)	Metasedimentary rocks	Temporary
8110.01-WC-A	16	518940	5405903	Unnamed watercourse	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	1	<5	-(c)	Metasedimentary rocks	Temporary
8120.01-WC-A	16	519005	5405927	Unnamed watercourse	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	1	<3	-(c)	Metasedimentary rocks	Temporary
8130.01-WC-A	16	519107	5405735	Ripple Creek	2BA	Little Pic	Ripple Creek	Watercourse	Permanent	2	4	-(c)	Metasedimentary rocks	Temporary
8140.00-WC-A	16	522440	5405767	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 34	Watercourse	Permanent	1	<2	-(c)	Metasedimentary rocks	Temporary
8150.01-WC-A	16	523056	5405710	Dead Horse Creek	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	4	6.7	-(c)	Metasedimentary rocks	Temporary
8160.00-WC-A	16	523069	5406517	Unnamed watercourse	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	2	<2	-(c)	Metasedimentary rocks	Temporary
8161.00-WC-A	16	523186	5405823	Unnamed watercourse	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	1	<3	-(c)	Metasedimentary rocks	Temporary
8168.00-WC-A	16	523207	5405884	Unnamed watercourse	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	1	<3	-(c)	Metasedimentary rocks	Temporary
8170.01-WC-A	16	523210	5405900	Unnamed watercourse	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	1	<2	-(c)	Metasedimentary rocks	Temporary
8171.00-WC-A	16	523211	5405904	Unnamed watercourse	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	1	<2	-(c)	Metasedimentary rocks	Temporary
8180.01-WC-A	16	523271	5405911	Unnamed watercourse	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	1	<2	-(c)	Metasedimentary rocks	Temporary
8185.00-WC-A	16	523381	5405856	Unnamed watercourse	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	1	<3	-(c)	Metasedimentary rocks	Temporary
8190.00-WC-A	16	523479	5405831	Unnamed watercourse	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	1	<1	-(c)	Metasedimentary rocks	Temporary
8220.01-WC-A	16	523523	5405827	Unnamed watercourse	2BA	Little Pic	Dead Horse Creek	Watercourse	Permanent	1	<1	-(c)	Metasedimentary rocks	Temporary
8230.01-WC-A	16	524869	5405376	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 36	Watercourse	Permanent	2	10	-(c)	Metasedimentary rocks	Temporary
8261.00-WC-A	16	531622	5404437	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 39	Watercourse	Permanent	1 <sup>(a)</sup>	<3	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8290.00-WC-A	16	532857	5404213	Unnamed watercourse	2BA	Little Pic	Neys Creek	Watercourse	Permanent	1	<2	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8310.01-WC-A	16	533100	5404475	Unnamed lake/pond	2BA	Little Pic	Neys Creek	Lake/Pond	Permanent	2	16	87880	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Permanent

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
8311.00-WC-A	16	534683	5403887	Unnamed watercourse	2BA	Little Pic	Mink Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<2	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8320.01-WC-A	16	534822	5403844	Unnamed watercourse	2BA	Little Pic	Mink Creek	Watercourse	Ephemeral	1 <sup>(a)</sup>	<5	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8330.00-WC-A	16	535663	5403686	Unnamed watercourse	2BA	Little Pic	Mink Creek	Watercourse	Permanent	1 <sup>(a)</sup>	<2	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8340.01-WC-A	16	535735	5403648	Culvert Creek	2BA	Little Pic	Mink Creek	Watercourse	Permanent	2	4.7	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8360.00-WC-A	16	539341	5403593	Unnamed watercourse	2BA	Little Pic	Craddock Creek	Watercourse	Permanent	1	<1	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8370.00-WC-A	16	539813	5403309	Unnamed watercourse	2BA	Little Pic	Craddock Creek	Watercourse	Permanent	2	<3	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8380.00-WC-A	16	539848	5402988	Unnamed watercourse	2BA	Little Pic	Craddock Creek	Watercourse	Permanent	2	<3	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8390.00-WC-A	16	540237	5403269	Craddock Creek	2BA	Little Pic	Craddock Creek	Watercourse	Permanent	2	<5	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8391.00-WC-A	16	541701	5402778	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 40	Watercourse	Permanent	1 <sup>(a)</sup>	<3	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8400.01-WC-A	16	541868	5402764	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 40	Watercourse	Permanent	2	6	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8410.01-WC-A	16	542023	5402679	Hare Creek	2BA	Little Pic	Hare Creek	Watercourse	Permanent	4	15	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8440.01-WC-A	16	542307	5402643	Hare Creek	2BA	Little Pic	Hare Creek	Watercourse	Permanent	4	10	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8441.00-WC-A	16	542316	5402603	Unnamed watercourse	2BA	Little Pic	Hare Creek	Watercourse	Permanent	4	20	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8470.00-WC-A	16	543495	5401550	Angler Creek	2BA	Little Pic	Angler Creek	Watercourse	Permanent	2	6	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8471.00-WC-A	16	543938	5401533	Unnamed watercourse	2BA	Little Pic	Angler Creek	Watercourse	Permanent	2	<3	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8500.01-WC-A	16	546347	5399366	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 41	Watercourse	Permanent	1	<3	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Permanent
8510.01-WC-A	16	546509	5399289	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 41	Watercourse	Permanent	2	6	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Permanent
8520.01-WC-A	16	548123	5397429	Unnamed watercourse	2BA	Little Pic	Unnamed Creek 41	Watercourse	Permanent	1 <sup>(a)</sup>	100	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary
8521.00-WC-A	16	548519	5397640	Unnamed watercourse	2BA	Little Pic	Pic River	Watercourse	Permanent	1	<3	-(c)	Alkalic Intrusive Suite and Carbonatite (circa 1.1 to 1.2 Ga)	Temporary



**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
8530.00-WC-A	16	551698	5396729	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<5	..(c)	Felsic to intermediate metavolcanic rocks	Temporary
8550.01-WC-A	16	553371	5396165	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<5	..(c)	Felsic to intermediate metavolcanic rocks	Temporary
8560.01-WC-A	16	553434	5395696	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	..(c)	Felsic to intermediate metavolcanic rocks	Temporary
8580.00-WC-A	16	555276	5395250	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	2	<3	..(c)	Felsic to intermediate metavolcanic rocks	Temporary
8581.00-WC-A	16	556850	5394459	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
8600.00-WC-A	16	558950	5393005	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8610.01-WC-A	16	561334	5392767	Melgund Creek	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
8620.01-WC-A	16	565656	5393826	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<3	..(c)	Metasedimentary rocks	Temporary
8640.00-WC-A	16	566206	5393908	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	2	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8641.00-WC-A	16	566949	5393987	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8650.01-WC-A	16	569218	5394279	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8660.00-WC-A	16	569833	5394244	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Ephemeral	1 <sup>(a)</sup>	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8670.01-WC-A	16	572384	5394435	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8680.00-WC-A	16	573299	5393762	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<3	..(c)	Metasedimentary rocks	Temporary
8681.00-WC-A	16	573358	5394451	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8690.01-WC-A	16	574280	5394519	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	3	1.75	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8700.01-WC-A	16	574304	5394430	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	3	1.2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8720.01-WC-A	16	574323	5394607	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	3	<5	..(c)	Metasedimentary rocks	Temporary
8740.01-WC-A	16	575072	5395014	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
8790.00-WC-A	16	576642	5395664	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
8800.00-WC-A	16	577037	5395744	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Permanent
8831.00-WC-A	16	582823	5395442	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<1	..(c)	Massive granodiorite to granite	Temporary
8850.00-WC-A	16	583952	5395761	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Massive granodiorite to granite	Temporary
8851.00-WC-A	16	584815	5396045	Kenel Creek	2BB	Pic	Pic River	Watercourse	Permanent	2	10	..(c)	Massive granodiorite to granite	Temporary
8870.01-WC-A	16	590905	5397393	Alder Creek	2BB	Pic	Pic River	Watercourse	Permanent	3	<5	..(c)	Massive granodiorite to granite	Permanent
8880.00-WC-A	16	594084	5397611	Alder Creek	2BB	Pic	Pic River	Watercourse	Permanent	3	20	..(c)	Massive granodiorite to granite	Permanent
8899.00-WC-A	16	594952	5397655	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<5	..(c)	Metasedimentary rocks	Temporary
8900.01-WC-A	16	594955	5397658	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<5	..(c)	Metasedimentary rocks	Temporary
8901.00-WC-A	16	596156	5397744	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Ephemeral	1 <sup>(a)</sup>	<5	..(c)	Metasedimentary rocks	Temporary
8910.01-WC-A	16	597243	5398120	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	2	<2	..(c)	Metasedimentary rocks	Temporary
8940.00-WC-A	16	598197	5398301	Unnamed watercourse	2BB	Pic	Pic River	Watercourse	Permanent	1	<2	..(c)	Metasedimentary rocks	Temporary
8950.00-WC-A	16	601386	5398335	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<5	..(c)	Gneissic tonalite suite	Temporary
8960.00-WC-A	16	601352	5397793	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	2	15	7,370	Gneissic tonalite suite	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
8970.01-WC-A	16	601770	5398716	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
9000.00-WC-A	16	602224	5397872	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
9010.00-WC-A	16	602633	5398079	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	..(c)	Mafic and ultramafic rocks	Temporary
9030.00-WC-A	16	603262	5397515	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<3	..(c)	Mafic and ultramafic rocks	Permanent
9040.01-WC-A	16	603973	5397171	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<3	..(c)	Gneissic tonalite suite	Temporary
9049.00-WC-A	16	605447	5397452	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Gneissic tonalite suite	Temporary
9050.00-WC-A	16	605496	5397499	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<3	..(c)	Gneissic tonalite suite	Temporary
9060.00-WC-A	16	605765	5397511	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<2	..(c)	Gneissic tonalite suite	Permanent
9070.00-WC-A	16	605942	5397561	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<1	..(c)	Gneissic tonalite suite	Temporary
9073.00-WC-A	16	606380	5397323	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<3	..(c)	Gneissic tonalite suite	Temporary
9100.00-WC-A	16	607526	5396158	Pukaskwa River	2BC	White	White River	Watercourse	Permanent	2	2	..(c)	Foliated tonalite suite	Temporary
9120.01-WC-A	16	608136	5395926	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	<1	..(c)	Foliated tonalite suite	Temporary
9130.00-WC-A	16	609917	5395316	White River	2BC	White	White River	Watercourse	Ephemeral	1	<2	..(c)	Foliated tonalite suite	Permanent
9131.00-WC-A	16	614037	5391989	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Foliated tonalite suite	Temporary
9150.01-WC-A	16	615312	5391017	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Temporary
9151.00-WC-A	16	615668	5390651	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Foliated tonalite suite	Temporary
9160.01-WC-A	16	615832	5390605	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Temporary
9170.00-WC-A	16	616467	5390088	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<2	..(c)	Foliated tonalite suite	Temporary
9180.00-WC-A	16	616896	5389809	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<5	..(c)	Foliated tonalite suite	Permanent
9190.01-WC-A	16	618013	5389498	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Foliated tonalite suite	Temporary
9200.00-WC-A	16	618899	5388900	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Temporary
9210.00-WC-A	16	618980	5389139	North Buck Lake	2BC	White	White River	Lake/Pond	Permanent	1	16	103,910	Foliated tonalite suite	Permanent
9220.00-WC-A	16	619766	5389196	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Temporary
9230.00-WC-A	16	619924	5389181	North Crocker's Lake	2BC	White	White River	Lake/Pond	Permanent	4	16	501,550	Foliated tonalite suite	Temporary
9240.00-WC-A	16	622342	5388766	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Temporary
9241.00-WC-A	16	622291	5388177	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(a)</sup>	<1	..(c)	Foliated tonalite suite	Temporary
9242.00-WC-A	16	622036	5387907	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Foliated tonalite suite	Temporary
9249.00-WC-A	16	622989	5387883	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<2	..(c)	Foliated tonalite suite	Temporary
9250.01-WC-A	16	623026	5387836	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<3	..(c)	Foliated tonalite suite	Temporary
9270.00-WC-A	16	623943	5386937	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<2	..(c)	Foliated tonalite suite	Temporary
9290.01-WC-A	16	623948	5386996	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<2	..(c)	Foliated tonalite suite	Temporary
9300.00-WC-A	16	624394	5385486	Two and a Half Creek	2BC	White	White River	Watercourse	Permanent	2	<3	..(c)	Foliated tonalite suite	Temporary
9310.00-WC-A	16	624506	5383939	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<3	..(c)	Foliated tonalite suite	Permanent
9340.00-WC-A	16	624710	5381032	Unnamed watercourse	2BC	White	White River	Watercourse	Ephemeral	1 <sup>(a)</sup>	<2	..(c)	Foliated tonalite suite	Temporary
9400.01-WC-A	16	623549	5377543	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Temporary
9410.01-WC-A	16	623567	5377530	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<3	..(c)	Foliated tonalite suite	Temporary
9420.00-WC-A	16	622547	5376835	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<2	..(c)	Foliated tonalite suite	Temporary
9450.01-WC-A	16	621287	5375968	Unnamed watercourse	2BC	White	White River	Watercourse	ephemeral	1	<1	..(c)	Foliated tonalite suite	Temporary
9460.01-WC-A	16	621248	5375940	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Temporary
9490.01-WC-A	16	620992	5375185	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	21	..(c)	Foliated tonalite suite	Temporary
9500.01-WC-A	16	621066	5375270	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<3	..(c)	Foliated tonalite suite	Temporary
9501.00-WC-A	16	620975	5375080	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Foliated tonalite suite	Temporary
9520.01-WC-A	16	621076	5374124	Unnamed lake/pond	2BC	White	White River	Lake/Pond	Permanent	1	<1	410	Foliated tonalite suite	Temporary
9650.00-WC-A	16	620034	5368829	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	2	1	..(c)	Foliated tonalite suite	Permanent
9760.01-WC-A	16	622479	5359561	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Temporary
9800.01-WC-A	16	622654	5358035	Unnamed watercourse	2BC	White	White River	Watercourse	Permanent	1	<2	..(c)	Foliated tonalite suite	Temporary
9900.01-WC-A	16	621909	5353728	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
9901.00-WC-A	16	621272	5353270	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Foliated tonalite suite	Temporary
9980.00-WC-A	16	616969	5342948	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	3	<5	..(c)	Foliated tonalite suite	Temporary
10080.00-WC-A	16	619818	5341577	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	11	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
10100.00-WC-A	16	619817	5341507	East Pukaskwa River	2BC	White	Pukaskwa River	Watercourse	Permanent	3	5	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
10101.00-WC-A	16	620274	5341216	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10102.00-WC-A	16	620951	5340784	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10200.00-WC-A	16	621375	5340503	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	40	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
10210.00-WC-A	16	621824	5340263	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	2	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10229.00-WC-A	16	623402	5339345	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	30	..(c)	Metasedimentary rocks	Temporary
10380.01-WC-A	16	624235	5338876	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	2	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10410.00-WC-A	16	625300	5338546	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	2	20	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10420.02-WC-A	16	625698	5337879	Unnamed watercourse	2BC	White	Pukaskwa River	Watercourse	Permanent	1	<1	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10610.01-WC-A	16	628177	5335805	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Temporary
10620.00-WC-A	16	628336	5334817	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	<5	..(c)	Gneissic tonalite suite	Temporary
10630.00-WC-A	16	628703	5334600	Dog River	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	6	35	..(c)	Massive granodiorite to granite	Temporary
10640.01-WC-A	16	627437	5336863	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<1	..(c)	Gneissic tonalite suite	Temporary
10650.01-WC-A	16	627407	5336887	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<1	..(c)	Gneissic tonalite suite	Temporary
10660.01-WC-A	16	628140	5336416	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<3	..(c)	Gneissic tonalite suite	Temporary
10870.01-WC-A	16	628965	5335825	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Permanent
10879.00-WC-A	16	628762	5336091	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Gneissic tonalite suite	Temporary
10880.00-WC-A	16	628882	5335900	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Permanent
10890.01-WC-A	16	628711	5336602	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	<5	..(c)	Gneissic tonalite suite	Temporary
10900.00-WC-A	16	628298	5336957	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Temporary
10910.00-WC-A	16	628561	5338108	Dog River	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	25	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10920.00-WC-A	16	628764	5338283	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10930.00-WC-A	16	629466	5338703	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10940.00-WC-A	16	630350	5339953	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<1	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10950.00-WC-A	16	631268	5340032	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
10960.00-WC-A	16	632037	5340318	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10970.00-WC-A	16	632786	5340356	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10980.00-WC-A	16	633996	5341094	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	6.7	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
10990.00-WC-A	16	634792	5341536	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	3	<5	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
11000.00-WC-A	16	635763	5343334	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<5	..(c)	Metasedimentary rocks	Temporary
11020.00-WC-A	16	630189	5335079	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<1	..(c)	Gneissic tonalite suite	Permanent
11030.00-WC-A	16	630640	5334270	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	<2	..(c)	Massive granodiorite to granite	Permanent
11050.00-WC-A	16	631306	5334402	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<1	..(c)	Massive granodiorite to granite	Permanent
11060.02-WC-A	16	631603	5333919	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	9	..(c)	Massive granodiorite to granite	Temporary
11080.00-WC-A	16	632322	5333689	Stares Creek	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	<2	..(c)	Gneissic tonalite suite	Permanent
11100.01-WC-A	16	632938	5333309	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	3	<2	..(c)	Gneissic tonalite suite	Temporary
11110.02-WC-A	16	633523	5332802	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Temporary
11130.00-WC-A	16	633841	5332772	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Temporary
11150.00-WC-A	16	634660	5332720	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Permanent
11160.00-WC-A	16	634946	5332839	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<1	..(c)	Gneissic tonalite suite	Permanent
11170.01-WC-A	16	634796	5331840	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	6	..(c)	Gneissic tonalite suite	Permanent
11180.02-WC-A	16	635050	5331823	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	9	..(c)	Gneissic tonalite suite	Permanent
11190.00-WC-A	16	635668	5331275	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<5	..(c)	Gneissic tonalite suite	Permanent
11200.00-WC-A	16	636776	5330983	Jimmy Kash River	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	4	18	..(c)	Gneissic tonalite suite	Temporary
11210.02-WC-A	16	637068	5330798	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	2	<3	..(c)	Gneissic tonalite suite	Temporary
11230.01-WC-A	16	637849	5330361	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Temporary
11250.01-WC-A	16	639233	5330529	Unnamed watercourse	2BD	Michipicoten - Magpie	Dog River	Watercourse	Permanent	1	<3	..(c)	Gneissic tonalite suite	Permanent
11260.00-WC-A	16	639244	5329429	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	<3	..(c)	Gneissic tonalite suite	Temporary
11270.00-WC-A	16	639441	5329097	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	<3	..(c)	Gneissic tonalite suite	Temporary
11280.00-WC-A	16	640817	5328401	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1 <sup>(a)</sup>	6	..(c)	Gneissic tonalite suite	Permanent
11290.00-WC-A	16	641318	5328022	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Ephemeral	1 <sup>(a)</sup>	<1	..(c)	Gneissic tonalite suite	Temporary
11300.00-WC-A	16	642265	5327402	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Gneissic tonalite suite	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
11310.00-WC-A	16	642268	5327398	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	<3	..(c)	Gneissic tonalite suite	Temporary
11330.02-WC-A	16	642339	5327318	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	<1	..(c)	Gneissic tonalite suite	Temporary
11332.01-WC-A	16	642361	5327272	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	<3	..(c)	Gneissic tonalite suite	Temporary
11750.01-WC-A	16	643884	5326318	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	30	..(c)	Gneissic tonalite suite	Permanent
11760.01-WC-A	16	644056	5326132	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Ephemeral	1 <sup>(a)</sup>	<5	..(c)	Gneissic tonalite suite	Permanent
11770.01-WC-A	16	644753	5325784	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	<5	..(c)	Gneissic tonalite suite	Temporary
11771.00-WC-A	16	645436	5325264	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Gneissic tonalite suite	Temporary
11772.00-WC-A	16	646483	5324343	Unnamed lake/pond	2BD	Michipicoten - Magpie	Makwa River	Lake/Pond	Permanent	2	40	30,880	Gneissic tonalite suite	Permanent
11773.01-WC-A	16	646801	5324191	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	<3	..(c)	Gneissic tonalite suite	Permanent
11774.00-WC-A	16	647545	5323790	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Foliated tonalite suite	Temporary
11790.01-WC-A	16	647788	5323570	Unnamed watercourse	2BD	Michipicoten - Magpie	Makwa River	Watercourse	Permanent	1	<3	..(c)	Foliated tonalite suite	Temporary
11800.01-WC-A	16	648442	5323185	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	2	<5	..(c)	Foliated tonalite suite	Permanent
11802.00-WC-A	16	648437	5323287	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	2	10	..(c)	Foliated tonalite suite	Permanent
11805.01-WC-A	16	648964	5322741	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Foliated tonalite suite	Temporary
11870.00-WC-A	16	649950	5322372	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	<1	..(c)	Foliated tonalite suite	Permanent
11880.00-WC-A	16	650035	5322349	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Ephemeral	2	<2	..(c)	Foliated tonalite suite	Temporary
11890.02-WC-A	16	650303	5321862	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	12	..(c)	Gneissic tonalite suite	Temporary
11900.01-WC-A	16	650398	5321835	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	3	10	..(c)	Gneissic tonalite suite	Temporary
11901.00-WC-A	16	650510	5321598	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	3	<5	..(c)	Foliated tonalite suite	Temporary
11910.01-WC-A	16	650505	5321585	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	3	<5	..(c)	Foliated tonalite suite	Temporary
11911.00-WC-A	16	650769	5321850	Unnamed lake/pond	2BD	Michipicoten - Magpie	Doré River	Lake/Pond	Permanent	3	180	293,570	Gneissic tonalite suite	Temporary
11920.00-WC-A	16	650584	5322260	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	<2	..(c)	Gneissic tonalite suite	Temporary
11930.01-WC-A	16	651107	5323385	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	8	..(c)	Gneissic tonalite suite	Temporary
11940.01-WC-A	16	651762	5323786	Molybdenite Lake	2BD	Michipicoten - Magpie	Doré River	Lake/Pond	Permanent	2	47	930,250	Gneissic tonalite suite	Temporary
11941.00-WC-A	16	652022	5323783	Molybdenite Lake	2BD	Michipicoten - Magpie	Doré River	Lake/Pond	Permanent	1	40	930,250	Gneissic tonalite suite	Temporary
11942.00-WC-A	16	652342	5323822	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Gneissic tonalite suite	Temporary
11943.00-WC-A	16	652480	5323673	Molybdenite Lake	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	3	<3	..(c)	Gneissic tonalite suite	Temporary

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
11950.01-WC-A	16	652766	5323729	Molybdenite Creek	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	3	8	..(c)	Gneissic tonalite suite	Temporary
11970.00-WC-A	16	653974	5324032	Doré River	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	4	10	..(c)	Gneissic tonalite suite	Temporary
11980.00-WC-A	16	654002	5324094	Doré River	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	4	10	..(c)	Gneissic tonalite suite	Temporary
12070.01-WC-A	16	652327	5320341	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	5.1	..(c)	Foliated tonalite suite	Permanent
12090.01-WC-A	16	653784	5319325	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	<3	..(c)	Foliated tonalite suite	Temporary
12100.01-WC-A	16	653984	5319228	Doré River	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	4	18	..(c)	Foliated tonalite suite	Temporary
12110.00-WC-A	16	655044	5318235	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Ephemeral	1 <sup>(a)</sup>	<3	..(c)	Foliated tonalite suite	Temporary
12120.00-WC-A	16	655658	5317769	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Foliated tonalite suite	Temporary
12130.01-WC-A	16	655842	5317635	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	<5	..(c)	Foliated tonalite suite	Temporary
12140.00-WC-A	16	656034	5317475	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1 <sup>(a)</sup>	<3	..(c)	Foliated tonalite suite	Temporary
12150.00-WC-A	16	656215	5317363	Unnamed watercourse	2BD	Michipicoten - Magpie	Doré River	Watercourse	Permanent	1	<5	..(c)	Foliated tonalite suite	Temporary
12151.00-WC-A	16	656950	5316551	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 42	Watercourse	Permanent	1 <sup>(a)</sup>	<5	..(c)	Coarse clastic metasedimentary rocks	Temporary
12160.01-WC-A	16	657047	5316552	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 42	Watercourse	Permanent	1	<3	..(c)	Coarse clastic metasedimentary rocks	Permanent
12161.00-WC-A	16	657525	5315538	Felcite Lake	2BD	Michipicoten - Magpie	Unnamed Creek 42	Lake/Pond	Permanent	1	130	86,960	Coarse clastic metasedimentary rocks	Temporary
12191.00-WC-A	16	657730	5314767	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 42	Watercourse	Permanent	1	<5	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
12195.00-WC-A	16	657655	5315559	Felcite Lake	2BD	Michipicoten - Magpie	Unnamed Creek 42	Lake/Pond	Permanent	1	80	86,960	Coarse clastic metasedimentary rocks	Temporary
12200.00-WC-A	16	657698	5315581	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 42	Watercourse	Permanent	1	<2	..(c)	Coarse clastic metasedimentary rocks	Temporary
12201.00-WC-A	16	657727	5315598	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 42	Watercourse	Permanent	1	<5	..(c)	Coarse clastic metasedimentary rocks	Temporary
12202.00-WC-A	16	657733	5315600	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 42	Watercourse	Permanent	1	<5	..(c)	Coarse clastic metasedimentary rocks	Temporary
12420.01-WC-A	16	658522	5315560	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 42	Watercourse	Permanent	1	<1	..(c)	Coarse clastic metasedimentary rocks	Temporary
12422.00-WC-A	16	659573	5314743	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 45	Watercourse	Permanent	1	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
12451.00-WC-A	16	659625	5314700	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 45	Watercourse	Permanent	1	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
12460.01-WC-A	16	659853	5314446	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 46	Watercourse	Permanent	1	<3	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
12470.01-WC-A	16	659890	5314341	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 46	Watercourse	Permanent	1	<3	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
12510.00-WC-A	16	660946	5314090	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 47	Watercourse	Permanent	1	20	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
12511.00-WC-A	16	660965.4 171	5314056	Unnamed watercourse	2BD	Michipicoten - Magpie	Unnamed Creek 47	Lake/Pond	Permanent	1	30	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
12570.01-WC-A	16	664327	5312170	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1 <sup>(a)</sup>	<2	..(c)	Mafic to intermediate metavolcanic rocks	Permanent

**APPENDIX 7-I  
SURFACE WATER DATA**

**Table 7-I-5: Surface Water Attributes for Water Body Crossings on New and Improvement/Widening Access Roads**

Water Body Crossing ID	UTM Zone	Easting	Northing	Water Body Name	Tertiary Watershed ID	Tertiary Watershed Name	River System Name	Water Body Type	Flow Regime	Stream Order	Mean Bankfull Width at Crossing <sup>(b)</sup> (m)	Surface Area of Lake or Pond (m <sup>2</sup> )	Surface Geology	Permanency of Proposed Water Body Crossing Structure
12590.00-WC-A	16	664919	5311155	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	2	<3	..(c)	Mafic to intermediate metavolcanic rocks	Temporary
12610.00-WC-A	16	665264	5311789	Trout Creek	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	4	<5	..(c)	Mafic to intermediate metavolcanic rocks	Permanent
12670.00-WC-A	16	668871	5310716	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	10	..(c)	Massive granodiorite to granite	Temporary
12740.00-WC-A	16	672517	5310477	Firesand River	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	5	<5	..(c)	Massive granodiorite to granite	Temporary
12770.01-WC-A	16	672707	5310066	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<1	..(c)	Massive granodiorite to granite	Temporary
12780.00-WC-A	16	673644	5309531	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<3	..(c)	Massive granodiorite to granite	Temporary
12790.00-WC-A	16	673709	5309525	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<5	..(c)	Massive granodiorite to granite	Temporary
12820.00-WC-A	16	674412	5309690	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<2	..(c)	Massive granodiorite to granite	Temporary
12821.00-WC-A	16	675451	5309072	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<2	..(c)	Massive granodiorite to granite	Permanent
12830.00-WC-A	16	675762	5309455	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<2	..(c)	Massive granodiorite to granite	Temporary
12840.01-WC-A	16	676105	5308954	Coleman Creek	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	2	8	..(c)	Massive granodiorite to granite	Temporary
12860.01-WC-A	16	679718	5307870	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Permanent	1	<1	..(c)	Massive granodiorite to granite	Temporary
12930.02-WC-A	16	680760	5307447	Unnamed watercourse	2BD	Michipicoten - Magpie	Michipicoten River	Watercourse	Intermittent	2	<1	..(c)	Massive granodiorite to granite	Temporary

a) Water body located on unmapped watercourse.

b) With few exceptions, channel width of watercourse corresponds to an average of several measurements.

c) Not applicable – the water body represents a watercourse.

ID = identification; n/a = not available UTM = Universal Transverse Mercator; m = metre; m<sup>2</sup> = square metre

## APPENDIX 7-I SURFACE WATER DATA

**Table 7-I-6: Surface Water Attributes for Water Body Crossings on Existing Access Roads (No Requirement for Upgrades)**

Water Body Crossing ID	UTM Zone	Easting	Northing	Tertiary Watershed ID	Tertiary Watershed Name	Permanency of Proposed Water Body Crossing Structure
4772.01-WC-A	16	346449	5374305	2AC	Black Sturgeon	Temporary
4810.00-WC-A	16	347188	5374682	2AC	Black Sturgeon	Temporary
4820.00-WC-A	16	347390	5374608	2AC	Black Sturgeon	Temporary
4850.00-WC-A	16	348202	5374813	2AC	Black Sturgeon	Temporary
4980.00-WC-A	16	360375	5380515	2AC	Black Sturgeon	Temporary
4990.00-WC-A	16	360459	5380364	2AC	Black Sturgeon	Temporary
5033.00-WC-A	16	364253	5383284	2AC	Black Sturgeon	Temporary
5034.00-WC-A	16	364354	5383392	2AC	Black Sturgeon	Temporary
5074.00-WC-A	16	364530	5385682	2AC	Black Sturgeon	Temporary
5075.00-WC-A	16	364575	5385099	2AC	Black Sturgeon	Temporary
5076.00-WC-A	16	365017	5383936	2AC	Black Sturgeon	Temporary
5077.00-WC-A	16	365684	5383102	2AC	Black Sturgeon	Temporary
5150.00-WC-A	16	361700	5395172	2AC	Black Sturgeon	Temporary
5160.00-WC-A	16	361396	5395807	2AC	Black Sturgeon	Temporary
5170.00-WC-A	16	361444	5396369	2AC	Black Sturgeon	Temporary
5300.00-WC-A	16	363481	5398241	2AC	Black Sturgeon	Temporary
5310.00-WC-A	16	364100	5398044	2AC	Black Sturgeon	Temporary
5320.00-WC-A	16	365897	5398906	2AC	Black Sturgeon	Temporary
5330.00-WC-A	16	367010	5399259	2AC	Black Sturgeon	Temporary
5360.00-WC-A	16	367290	5400429	2AC	Black Sturgeon	Temporary
5370.00-WC-A	16	367510	5400515	2AC	Black Sturgeon	Temporary
5430.00-WC-A	16	368772	5401520	2AC	Black Sturgeon	Temporary
5431.00-WC-A	16	369246	5402100	2AC	Black Sturgeon	Temporary
5480.00-WC-A	16	371157	5402544	2AC	Black Sturgeon	Temporary
5510.00-WC-A	16	373869	5404082	2AC	Black Sturgeon	Temporary
5520.00-WC-A	16	374944	5404171	2AC	Black Sturgeon	Temporary
5530.00-WC-A	16	375411	5403920	2AC	Black Sturgeon	Temporary
5540.00-WC-A	16	377374	5402826	2AC	Black Sturgeon	Temporary
5560.00-WC-A	16	382052	5402312	2AC	Black Sturgeon	Temporary



## APPENDIX 7-I SURFACE WATER DATA

**Table 7-I-6: Surface Water Attributes for Water Body Crossings on Existing Access Roads (No Requirement for Upgrades)**

Water Body Crossing ID	UTM Zone	Easting	Northing	Tertiary Watershed ID	Tertiary Watershed Name	Permanency of Proposed Water Body Crossing Structure
5570.00-WC-A	16	372968	5405476	2AC	Black Sturgeon	Temporary
5580.00-WC-A	16	373129	5406135	2AC	Black Sturgeon	Temporary
6000.00-WC-A	16	390088	5416551	2AC	Black Sturgeon	Temporary
6030.00-WC-A	16	391673	5415524	2AC	Black Sturgeon	Temporary
6040.00-WC-A	16	391682	5416779	2AC	Black Sturgeon	Temporary
6080.00-WC-A	16	394117	5416413	2AC	Black Sturgeon	Temporary
6210.00-WC-A	16	399193	5419781	2AC	Black Sturgeon	Temporary
6280.00-WC-A	16	402352	5427032	2AC	Black Sturgeon	Temporary
6290.00-WC-A	16	403043	5427566	2AD	Nipigon	Temporary
6320.00-WC-A	16	403510	5427894	2AD	Nipigon	Temporary
6330.00-WC-A	16	403624	5427980	2AD	Nipigon	Temporary
6340.01-WC-A	16	404832	5427476	2AD	Nipigon	Temporary
6350.00-WC-A	16	404855	5428996	2AD	Nipigon	Temporary
6710.00-WC-A	16	431793	5426194	2AE	Jackpine	Temporary
6720.00-WC-A	16	431948	5425471	2AE	Jackpine	Temporary
6730.00-WC-A	16	430076	5424745	2AE	Jackpine	Temporary
6860.00-WC-A	16	439101	5420453	2AE	Jackpine	Temporary
6940.00-WC-A	16	448971	5418478	2AE	Jackpine	Temporary
6950.00-WC-A	16	449167	5418604	2AE	Jackpine	Temporary
7170.00-WC-A	16	468263	5411212	2BA	Little Pic	Temporary
7221.00-WC-A	16	474206	5412254	2BA	Little Pic	Temporary
7250.00-WC-A	16	473055	5409290	2BA	Little Pic	Temporary
7260.00-WC-A	16	473139	5409764	2BA	Little Pic	Temporary
7270.00-WC-A	16	473149	5409772	2BA	Little Pic	Temporary
7280.00-WC-A	16	473177	5409797	2BA	Little Pic	Temporary
7290.00-WC-A	16	473205	5409820	2BA	Little Pic	Temporary
7300.00-WC-A	16	473217	5409828	2BA	Little Pic	Temporary
7310.00-WC-A	16	473592	5410232	2BA	Little Pic	Temporary
7315.00-WC-A	16	474148	5411039	2BA	Little Pic	Temporary

## APPENDIX 7-I SURFACE WATER DATA

Table 7-I-6: Surface Water Attributes for Water Body Crossings on Existing Access Roads (No Requirement for Upgrades)

Water Body Crossing ID	UTM Zone	Easting	Northing	Tertiary Watershed ID	Tertiary Watershed Name	Permanency of Proposed Water Body Crossing Structure
7460.00-WC-A	16	480380	5407786	2BA	Little Pic	Temporary
7700.00-WC-A	16	492492	5405259	2BA	Little Pic	Temporary
7730.00-WC-A	16	496257	5409201	2BA	Little Pic	Temporary
7830.00-WC-A	16	505709	5406582	2BA	Little Pic	Temporary
8260.00-WC-A	16	530377	5403575	2BA	Little Pic	Temporary
8350.01-WC-A	16	535810	5403357	2BA	Little Pic	Temporary
8780.00-WC-A	16	576879	5393693	2BB	Pic	Temporary
8830.00-WC-A	16	580342	5394742	2BB	Pic	Temporary
9041.00-WC-A	16	604455	5396753	2BC	White	Temporary
9079.00-WC-A	16	605840	5396608	2BC	White	Temporary
9080.00-WC-A	16	605857	5396610	2BC	White	Temporary
9320.00-WC-A	16	624857	5383040	2BC	White	Temporary
9330.00-WC-A	16	625814	5381674	2BC	White	Temporary
9350.00-WC-A	16	625580	5379864	2BC	White	Temporary
9360.00-WC-A	16	625180	5379646	2BC	White	Temporary
9380.00-WC-A	16	624151	5378852	2BC	White	Temporary
9440.00-WC-A	16	622650	5376794	2BC	White	Temporary
9470.00-WC-A	16	621218	5375751	2BC	White	Temporary
9530.00-WC-A	16	624631	5377705	2BC	White	Temporary
9540.00-WC-A	16	623965	5375041	2BC	White	Temporary
9550.00-WC-A	16	623192	5373791	2BC	White	Temporary
9560.00-WC-A	16	620638	5372149	2BC	White	Temporary
9570.00-WC-A	16	619791	5371208	2BC	White	Temporary
9590.00-WC-A	16	619570	5370517	2BC	White	Temporary
9600.00-WC-A	16	619786	5370277	2BC	White	Temporary
9670.00-WC-A	16	620491	5368083	2BC	White	Temporary
9680.00-WC-A	16	620401	5367705	2BC	White	Temporary
9700.00-WC-A	16	619601	5364894	2BC	White	Temporary
9710.01-WC-A	16	621753	5363692	2BC	White	Temporary

## APPENDIX 7-I SURFACE WATER DATA

**Table 7-I-6: Surface Water Attributes for Water Body Crossings on Existing Access Roads (No Requirement for Upgrades)**

Water Body Crossing ID	UTM Zone	Easting	Northing	Tertiary Watershed ID	Tertiary Watershed Name	Permanency of Proposed Water Body Crossing Structure
9720.01-WC-A	16	622379	5363061	2BC	White	Temporary
9721.00-WC-A	16	622397	5363026	2BC	White	Temporary
9730.00-WC-A	16	622340	5362111	2BC	White	Temporary
9750.00-WC-A	16	622473	5360973	2BC	White	Temporary
9770.00-WC-A	16	623064	5358973	2BC	White	Temporary
9790.00-WC-A	16	622855	5358197	2BC	White	Temporary
9820.00-WC-A	16	622206	5356647	2BC	White	Temporary
9850.00-WC-A	16	622632	5355762	2BC	White	Temporary
9870.00-WC-A	16	622836	5354153	2BC	White	Temporary
9880.00-WC-A	16	622342	5353856	2BC	White	Temporary
9890.00-WC-A	16	621979	5353674	2BC	White	Temporary
9910.00-WC-A	16	621190	5353172	2BC	White	Temporary
9930.00-WC-A	16	619094	5351871	2BC	White	Temporary
9950.00-WC-A	16	618109	5347827	2BC	White	Temporary
9960.00-WC-A	16	618088	5347140	2BC	White	Temporary
9970.00-WC-A	16	617433	5343804	2BC	White	Temporary
9990.00-WC-A	16	616186	5342523	2BC	White	Temporary
10110.00-WC-A	16	617952	5340868	2BC	White	Temporary
10120.00-WC-A	16	617300	5340415	2BC	White	Temporary
10130.00-WC-A	16	616500	5341732	2BC	White	Temporary
10140.00-WC-A	16	616746	5339910	2BC	White	Temporary
10150.01-WC-A	16	616582	5339341	2BC	White	Temporary
10160.01-WC-A	16	616601	5338900	2BC	White	Temporary
10170.01-WC-A	16	616600	5337910	2BC	White	Temporary
10180.01-WC-A	16	616013	5337157	2BC	White	Temporary
10190.00-WC-A	16	616051	5336240	2BC	White	Temporary
10220.00-WC-A	16	622833	5339932	2BC	White	Temporary
10230.00-WC-A	16	623426	5339289	2BC	White	Temporary
10240.01-WC-A	16	623444	5339271	2BC	White	Temporary

## APPENDIX 7-I SURFACE WATER DATA

**Table 7-I-6: Surface Water Attributes for Water Body Crossings on Existing Access Roads (No Requirement for Upgrades)**

Water Body Crossing ID	UTM Zone	Easting	Northing	Tertiary Watershed ID	Tertiary Watershed Name	Permanency of Proposed Water Body Crossing Structure
10260.00-WC-A	16	623187	5339108	2BC	White	Temporary
10269.00-WC-A	16	621734	5338684	2BC	White	Temporary
10270.00-WC-A	16	621345	5338438	2BC	White	Temporary
10280.00-WC-A	16	620837	5338333	2BC	White	Temporary
10290.00-WC-A	16	620083	5338100	2BC	White	Temporary
10300.00-WC-A	16	617714	5336739	2BC	White	Temporary
10670.00-WC-A	16	625494	5340601	2BD	Michipicoten - Magpie	Temporary
10680.00-WC-A	16	629322	5340190	2BD	Michipicoten - Magpie	Temporary
10690.00-WC-A	16	630156	5340238	2BD	Michipicoten - Magpie	Temporary
10700.00-WC-A	16	632331	5340729	2BD	Michipicoten - Magpie	Temporary
10710.00-WC-A	16	633140	5342556	2BD	Michipicoten - Magpie	Temporary
10720.00-WC-A	16	634275	5343478	2BD	Michipicoten - Magpie	Temporary
10730.00-WC-A	16	635173	5343645	2BD	Michipicoten - Magpie	Temporary
10740.00-WC-A	16	635783	5343369	2BD	Michipicoten - Magpie	Temporary
10750.00-WC-A	16	636644	5343557	2BD	Michipicoten - Magpie	Temporary
10760.00-WC-A	16	639418	5343888	2BD	Michipicoten - Magpie	Temporary
10770.00-WC-A	16	640139	5344012	2BD	Michipicoten - Magpie	Temporary
10780.00-WC-A	16	640476	5344309	2BD	Michipicoten - Magpie	Temporary
10790.00-WC-A	16	640615	5344467	2BD	Michipicoten - Magpie	Temporary
10800.00-WC-A	16	641265	5344938	2BD	Michipicoten - Magpie	Temporary
10810.00-WC-A	16	642475	5346846	2BD	Michipicoten - Magpie	Temporary
10815.00-WC-A	16	642360	5347549	2BD	Michipicoten - Magpie	Temporary
10820.00-WC-A	16	642751	5347996	2BD	Michipicoten - Magpie	Temporary
10830.00-WC-A	16	643377	5347955	2BD	Michipicoten - Magpie	Temporary
10840.00-WC-A	16	645015	5348598	2BD	Michipicoten - Magpie	Temporary
10850.00-WC-A	16	646237	5349706	2BD	Michipicoten - Magpie	Temporary
10860.00-WC-A	16	648619	5351973	2BD	Michipicoten - Magpie	Temporary
12000.00-WC-A	16	654301	5324428	2BD	Michipicoten - Magpie	Temporary
12010.00-WC-A	16	655293	5324542	2BD	Michipicoten - Magpie	Temporary

## APPENDIX 7-I SURFACE WATER DATA

**Table 7-I-6: Surface Water Attributes for Water Body Crossings on Existing Access Roads (No Requirement for Upgrades)**

Water Body Crossing ID	UTM Zone	Easting	Northing	Tertiary Watershed ID	Tertiary Watershed Name	Permanency of Proposed Water Body Crossing Structure
12020.00-WC-A	16	655944	5324445	2BD	Michipicoten - Magpie	Temporary
12030.00-WC-A	16	656554	5323240	2BD	Michipicoten - Magpie	Temporary
12040.00-WC-A	16	657007	5322166	2BD	Michipicoten - Magpie	Temporary
12050.00-WC-A	16	659594	5321095	2BD	Michipicoten - Magpie	Temporary
12060.00-WC-A	16	661528	5321896	2BD	Michipicoten - Magpie	Temporary
12290.01-WC-A	16	657496	5314215	2BD	Michipicoten - Magpie	Temporary
12320.00-WC-A	16	658581	5314234	2BD	Michipicoten - Magpie	Temporary
12350.01-WC-A	16	658996	5314168	2BD	Michipicoten - Magpie	Temporary
12380.01-WC-A	16	659453	5314203	2BD	Michipicoten - Magpie	Temporary
12390.00-WC-A	16	659917	5313872	2BD	Michipicoten - Magpie	Temporary
12400.00-WC-A	16	660059	5313786	2BD	Michipicoten - Magpie	Temporary
12410.00-WC-A	16	660178	5313739	2BD	Michipicoten - Magpie	Temporary
12520.01-WC-A	16	661643	5314630	2BD	Michipicoten - Magpie	Temporary
12521.00-WC-A	16	663234	5318108	2BD	Michipicoten - Magpie	Temporary
12522.00-WC-A	16	663931	5318969	2BD	Michipicoten - Magpie	Temporary
12523.00-WC-A	16	664803	5318804	2BD	Michipicoten - Magpie	Temporary
12580.00-WC-A	16	664893	5311136	2BD	Michipicoten - Magpie	Temporary
12620.00-WC-A	16	667680	5311859	2BD	Michipicoten - Magpie	Temporary
12630.00-WC-A	16	668033	5310742	2BD	Michipicoten - Magpie	Temporary
12640.00-WC-A	16	668041	5310499	2BD	Michipicoten - Magpie	Temporary
12650.00-WC-A	16	668123	5309912	2BD	Michipicoten - Magpie	Temporary
12680.00-WC-A	16	668914	5309805	2BD	Michipicoten - Magpie	Temporary
12690.00-WC-A	16	670651	5308999	2BD	Michipicoten - Magpie	Temporary
12691.00-WC-A	16	670784	5309008	2BD	Michipicoten - Magpie	Temporary
12710.00-WC-A	16	671753	5309808	2BD	Michipicoten - Magpie	Temporary
12720.00-WC-A	16	671767	5309011	2BD	Michipicoten - Magpie	Temporary
12730.00-WC-A	16	672322	5309004	2BD	Michipicoten - Magpie	Temporary
12800.00-WC-A	16	673674	5309311	2BD	Michipicoten - Magpie	Temporary
12870.00-WC-A	16	679723	5307171	2BD	Michipicoten - Magpie	Temporary

## APPENDIX 7-I SURFACE WATER DATA

**Table 7-I-6: Surface Water Attributes for Water Body Crossings on Existing Access Roads (No Requirement for Upgrades)**

Water Body Crossing ID	UTM Zone	Easting	Northing	Tertiary Watershed ID	Tertiary Watershed Name	Permanency of Proposed Water Body Crossing Structure
12880.00-WC-A	16	679737	5307150	2BD	Michipicoten - Magpie	Temporary
12960.00-WC-A	16	681223	5306791	2BD	Michipicoten - Magpie	Temporary
12970.00-WC-A	16	681416	5306438	2BD	Michipicoten - Magpie	Temporary
12980.00-WC-A	16	683149	5306610	2BD	Michipicoten - Magpie	Temporary
12990.01-WC-A	16	683619	5307718	2BD	Michipicoten - Magpie	Temporary
13000.01-WC-A	16	684218	5308573	2BD	Michipicoten - Magpie	Temporary
13010.01-WC-A	16	683790	5309914	2BD	Michipicoten - Magpie	Temporary
13020.00-WC-A	16	683771	5311036	2BD	Michipicoten - Magpie	Temporary
13030.00-WC-A	16	684178	5312013	2BD	Michipicoten - Magpie	Temporary
13031.00-WC-A	16	684229	5312099	2BD	Michipicoten - Magpie	Temporary

ID = identification; UTM = Universal Transverse Mercator.