



9. EXISTING ENVIRONMENTAL CONDITIONS OF RELEVANT WATER BODIES

The water bodies that met the definition of a water body under *Ontario Regulation 359/09* and lie within 120 metres of the Project Location were located throughout the project location and along the proposed 230 kV Line. Table 7 summarizes observations regarding the water bodies.

Table 7: Water Bodies within 120 metres of the Project Location

ID	Water Body	Water Body Type							Habitat Type				Classification
		Natural	Channelized	Lake/Pond	Permanent	Intermittent	Ephemeral	Not existing	Riffle	Run	Flat	Pool	
1	Upper Grand	✓	✓	---	✓	---	---	---	--	--	✓	✓	Class C Municipal Drain – permanent, warm water with no sensitive species or communities
2	Nottawasaga – Noisy River	✓	✓	---	✓	---	---	---	--	✓	✓	✓	Class C Municipal Drain – permanent, warm water with no sensitive species or communities
3	Nottawasaga – Noisy River	✓	✓	---	✓	---	---	---	✓	✓	--	--	Directly downstream of a Class D Municipal Drain – permanent, cold/cool water with sensitive species or communities
4	Nottawasaga – Tributary of the Noisy River	✓	✓	---	✓	---	---	---	✓	✓	--	--	Class C Municipal Drain – permanent, warm water with no sensitive species or communities
5	Nottawasaga – Noisy River	✓	✓	---	✓	---	---	---	✓	--	--	✓	Class D Municipal Drain – permanent, cold/cool water with sensitive species or communities
6	Nottawasaga – Noisy River	✓	✓	--	✓	--	--	--	✓	--	✓	--	Unclassified
7	Nottawasaga – Noisy River	✓	✓	--	✓	--	--	--	--	--	--	✓	Class D Municipal Drain – permanent, cold/cool water with sensitive species or communities
8	Nottawasaga – Tributary of the Noisy River	✓	✓	✓	✓	--	--	--	✓	--	--	✓	Class D Municipal Drain – permanent, cold/cool water with sensitive species or communities
9	Nottawasaga – Redickville Tributary	✓	✓	✓	✓	--	--	--	--	--	✓	✓	Class D Municipal Drain – permanent, cold/cool water with sensitive species or communities. Online pond upstream
10	Nottawasaga – Redickville Tributary	✓	✓	--	✓	--	--	✓	--	--	✓	✓	Unclassified. Sections of this tributary were observed to not exist during site investigations (Figure 4)
11	Upper Grand River	✓	✓	✓	✓	--	--	--	--	--	✓	--	Unclassified. Wetland located upstream
12	Nottawasaga – Pine River	✓	✓	--	✓	--	--	--	--	--	✓	✓	Located at the confluence between an unclassified tributary and a Class C Municipal Drain - permanent, warm water with no sensitive species or communities
14	Nottawasaga – Tributary of Pine River	✓	✓	--	✓	--	--	--	--	--	✓	✓	Class C Municipal Drain - permanent, warm water with no sensitive species or communities

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230 kV Private Easement Study Area	Multiple Tributaries of the Upper Grand River	✓	✓	--	✓	--	--	--	--	--	✓	--	Class A Municipal Drain – permanent, cold/cool water with no sensitive species or communities. Class C Municipal Drain - permanent, warm water with no sensitive species or communities. Class F Municipal Drain – intermittent or ephemeral; dry for more than 2 consecutive months
20	Upper Grand River Tributary	✓	✓	--	✓	--	--	--	--	--	✓	--	Class A Municipal Drain – permanent, cold/cool water with no sensitive species or communities
21	Upper Grand River Tributary	✓	✓	✓	✓	--	--	--	--	--	--	✓	Class F Municipal Drain – intermittent or ephemeral; dry for more than 2 consecutive months
22	Upper Grand River Tributary	✓	✓	--	✓	--	--	--	--	✓	✓	--	Class A Municipal Drain – permanent, cold/cool water with no sensitive species or communities
23	Curphy Drain (Boyne River)	✓	✓	✓	--	✓	--	--	--	✓	✓	✓	Class D Municipal Drain – permanent, cold/cool water with sensitive species or communities
24	Curphy Drain (Boyne River)	✓	✓	--	✓	--	--	--	✓	✓	✓	✓	Class D Municipal Drain – permanent, cold/cool water with sensitive species or communities
25	Cague Drain (Boyne River)	✓	--	✓	✓	--	--	--	--	--	--	✓	Culvert between two large open marsh habitats. No defined channel observed
26	Cague Drain (Boyne River)	✓	✓	--	--	✓	--	--	--	✓	--	--	Observed to be intermittent during site investigations
27	Nottawasaga – Boyne River	✓	✓	--	✓	--	--	--	--	✓	✓	✓	Class C Municipal Drain – permanent, warm water with no sensitive species or communities
28	Nottawasaga – Boyne River	✓	✓	--	✓	--	--	--	✓	✓	✓	--	Class F Municipal Drain – intermittent or ephemeral; dry for more than 2 consecutive months
29	Nottawasaga – Boyne River	✓	--	✓	✓	--	--	--	--	--	--	✓	Unclassified. Culvert between a cattail marsh (west) and swamp (east). No defined channel observed. Standing water, highly vegetated area
30	Nottawasaga – Boyne River	✓	✓	--	--	✓	--	--	--	✓	--	--	Unclassified. Observed to be intermittent during site investigations
31	Nottawasaga – North Branch of the Nottawasaga River	✓	✓	✓	✓	--	--	--	--	--	✓	✓	Unclassified. Watercourse terminates east of trail (approximately 6 metres)
32	Nottawasaga – North Branch of the Nottawasaga River	✓	--	✓	✓	✓	--	--	--	✓	--	✓	Unclassified. East of trail no channel definition was observed into scrubland habitat. Marsh located west of the trail

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33	Nottawasaga – North Branch of the Nottawasaga River	✓	✓	--	✓	--	--	--	--	✓	--	✓	Unclassified. Channel loses definition downstream in meadow habitat. Low flows observed
34	Nottawasaga – North Branch of the Nottawasaga River	✓	✓	--	✓	--	--	--	--	✓	--	--	Unclassified. Wetland located upstream
35	Nottawasaga – North Branch of the Nottawasaga River	✓	✓	--	✓	--	--	--	--	✓	--	--	Unclassified. Confluence of two tributaries. Perch culvert upstream from north-south channel
36	Nottawasaga – North Branch of the Nottawasaga River	✓	✓	--	✓	--	--	--	--	✓	✓	✓	Unclassified
38	Upper Grand – Willow Brook	✓	✓	--	✓	--	--	--	--	✓	✓	--	Class F Municipal Drain – intermittent or ephemeral; dry for more than two consecutive months. Flows along east side of trail
39	Upper Grand – Willow Brook	✓	✓	--	✓	--	--	--	--	✓	✓	--	Class F Municipal Drain – intermittent or ephemeral; dry for more than two consecutive months. Main channel flows along west side of trail. Ditch located along east side of trail
40	Upper Grand – Willow Brook	✓	✓	--	✓	--	--	--	--	✓	✓	✓	Class A Municipal Drain – permanent, cold/cool water with no sensitive species or communities
41	Upper Grand – Willow Brook	✓	✓	--	✓	--	--	--	--	✓	✓	✓	Class F Municipal Drain – intermittent or ephemeral; dry for more than two consecutive months
42	Upper Grand – Willow Brook	✓	✓	--	✓	--	--	--	--	✓	✓	✓	Unclassified
43	Upper Grand – Willow Brook	✓	✓	--	✓	--	--	--	--	✓	✓	✓	Class F Municipal Drain – intermittent or ephemeral; dry for more than two consecutive months
44	South Branch of the Nottawasaga River Tributary	✓	✓	✓	✓	--	--	--	--	--	--	✓	Unclassified. Channel observed in marsh habitat
45	Upper Grand – Mud Creek	✓	✓	--	✓	--	--	--	--	✓	✓	--	Class D Municipal Drain – permanent, cold/cool water with sensitive species or communities
48	Upper Grand River Tributary	✓	✓	--	✓	--	--	--	✓	✓	✓	✓	Unclassified. Marsh upstream

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49	Upper Grand River Tributary	✓	✓	--	✓	--	--	--	--	--	✓	✓	Unclassified. Water stagnant/frozen during site investigations. Channel along east side of trail
50	Upper Grand – Willow Brook	✓	✓	✓	✓	--	--	--	--	✓	✓	✓	Unclassified. Flows west from pond
51	Upper Grand – Willow Brook	✓	✓	--	✓	--	--	--	--	✓	✓	--	Unclassified
52	Nottawasaga – South Branch of the Nottawasaga River	✓	✓	--	✓	--	--	--	--	✓	✓	--	Tile drain west of trail (upstream), channel observed east of the trail