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**Appendix I**

**Sanitary and Watermain Crossing Assessment Tables**

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Crossing #	Reach	TW Asset ID	Sewer Type	Diameter (mm)	Material	Construction Year	Engineering Drawing Reference	Substrate Erodibility	Vertical Depth of Cover (m)	Bed Protection Works	Horizontal Offset (m)	Bank Protection Works	Comments
1	N1	SL4033032	Sanitary	675	Concrete	1960	1242-R-01	sandy gravel (moderate high)	1.58 m	None observable	> 20.0	Gabion basket on both banks	Gabion basket bank protection slumping on both sides.
2	N1	SL4033582	Sanitary	675	Concrete	1960	1242-R-01	sandy gravel (moderate high)	Exposed	None observable	Exposed	None observable	Downstream manhole is extremely exposed in the bank
3	N1	SL4032406	Sanitary	675	Concrete	1960	1242-R-01	sand with gabion stone	Exposed	None observable	> 20.0	Gabion basket on both banks	Gabion basket bank protection is slumping on both sides
4	N1	SL4032404	Sanitary	675	Concrete	1960	1242-R-01	sandy gravel (moderate high)	0.8 m	Previous existing bed protection has washed out	> 20.0	Concrete bank material on both banks	Concrete bed and bank material has begun to slump and wash away
5	N2	SL4031857	Sanitary	675	Concrete	1960	1242-R-01	cobble over medium coarse gravel (low)	Exposed	Crossing upstream of armourstone rib structure	> 20.0	Intermittent riprap visible on both banks	Two storm water outfalls outlet into Newtonbrook Creek here, downstream of armourstone rib structure. The armourstone rib structure is in a state of poor repair.
6	N2	SL4031887	Sanitary	675	Concrete	1960	1242-R-01	cobble over medium coarse gravel (low)	Exposed	Crossing upstream of armourstone rib structure	> 20.0	Armourstone on south bank	Large debris accumulation downstream of armourstone rib, where a cut-off channel has formed, but this has also been blocked by debris. The armourstone rib structure is in a state of poor repair.
7	N2	SL4031887	Sanitary	675	Concrete	1960	1242-R-01	cobble over medium coarse gravel (low)	Exposed	Crossing upstream of armourstone rib structure	Exposed	Riprap visible on west bank	The armourstone rib structure is in a state of poor repair.
8	N2	SL4033483	Sanitary	675	Concrete	1960	1242-R-01	armourstone channel bed treatment (very low)	Exposed	Armourstone bed treatment	Exposed	Armourstone bank treatments on both banks	Downstream of Bayview and Finch Ave. Intersection. Armourstone bed & bank works are in poor-fair condition.
9	N3	SL4031889	Sanitary	675	Concrete	1960	1242-R-01	cobble on sand (moderate)	0.67 m	None observable.	14.0	Gabion baskets on both banks	Upstream of Bayview and Finch Ave. intersection.
10	N3	LN24062	Watermain	1350	Steel	1971	157M-2	Moderate (Gravel)	0.42 m	Gabion basket bed completely eroded away	Exposed	Gabion basket bank protection on both banks has been completely washed away	Watermain Chamber is exposed in the bank of the creek. As-built drawings indicate historic gabion basket protection on both banks and along the bed, which are no longer visible today.
11	N3	SL4031891	Sanitary	675	Concrete	1960	1242-R-01	well sorted coarse gravel (moderate)	1.88 m	None observable	> 20.0	None observable	The crossing is located along a developed cut bank and point bar.
12	N3	SL4034029	Sanitary	675	Concrete	1960	TNPI Oil/Gas Pipeline Drawing: CR627 And City Drawing: 1242-R-01	well sorted coarse gravel (moderate)	1.19 m	None observable	11	Boulder abutment protection on both banks downstream of crossing	Pedestrian bridge downstream of crossing. Private pipelines cross the creek here: Imperial oil and TNPI. TNPI pipeline is fully exposed in the bed.
13	N3	SL4032523	Sanitary	250	PVC	1987	1242-R-01	coarse gravel (moderate)	Exposed	None observable	5	Gabion wall on north bank	Previous bank protection on south bank has eroded away, exposing geotechnical fabric and a large eroded face.

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14	N3	SL4032971	Sanitary	675	Concrete	1960	1242-R-01	coarse gravel (moderate)	2.06 m	None observable	> 20.0	Gabion basket on north bank downstream of crossing	Upstream of the crossing is an oil pipeline, exposed laterally in the bank.
15	N4	SL4034103	Sanitary	750	Concrete	1960	N/A	coarse gravel (moderate)	2.70 m	None observable	13	None observable	Adjacent to Crossing 16
16	N4	SL4032961	Retired Sewer Main	675	Concrete	1989	N/A	coarse gravel (moderate)	0.60 m	None observable	15	None observable	Adjacent to Crossing 15
17	N4	SL4031698	Sanitary	450	Concrete	1989	N/A	coarse gravel (moderate)	0.32 m	None observable	4	None observable	Significant bank erosion observed along this segment of creek.
18	BR-2	SL4030369	Sanitary	300	Asbestos	1955	SA-2-R-01, SA-2-R-02	Mud, organic matter	1.40 m	None observable	Exposed	None observable	Highly degraded bounding manhole, no manhole encasement or manhole cover left. Sewer underneath small channel, mostly flat marsh area.
19	BR-3	SL4029711	Sanitary	300	Asbestos	1977	N/A	Concrete Channel	Exposed	Concrete channel bed	Exposed	Armourstone and gabion baskets on both banks	Downstream of crossing is a steep drop, filled with boulders. A confluence with a tributary is directly downstream of the boulders. Manhole is exposed at the top of the slope.