




Appendix L
Outfall Assessment Tables



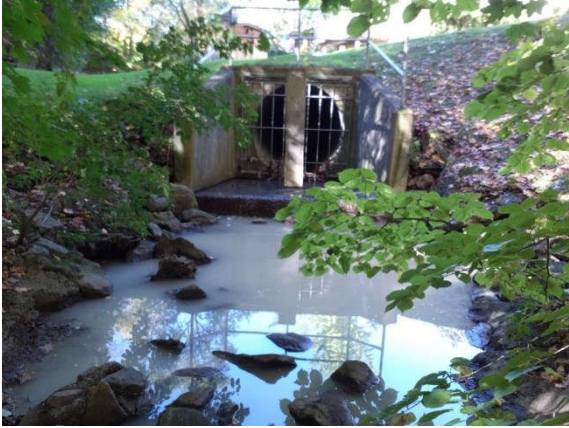
Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
1	N1	N/A	Not Assessed	CSP	N/A	Poor	No headwall	None	Undermined trail culvert	
2	N1	OF4854814349	Medium	CSP	1956	Poor	No headwall	None	Storm water pipe on the east side of the culvert. Corrugated metal pipe with no headwall has rusted out of alignment.	
3	N1	OF4854214333	Medium	CSP	1956	Failed	Armourstone Headwall	Armourstone outfall channel	Storm water pipe with stone headwall and outlet channel along west side of Forest Grove culvert. Pipe has detached due to several sinkholes up slope of outlet.	




Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
4	N2	N/A	Small	CSP	Unknown	Poor	None	None observed	Trail Culvert creating small discharge channel. Does not appear on City of Toronto Basemapping.	
5	N2	OF4865514045	N/A	N/A	1956	Poor	Outfall without Headwall (DCAD)	Armourstone outfall channel	RGA is indicating the channel is widening here, evidenced by eroded slopes and accumulation of large woody debris. Outfall is placed along the cut bank of the channel and has developed a deep scour at the base.	Photo Not Available
6	N2	OF4873613982	Medium	CSP	1956	Poor	Outfall without Headwall (DCAD)	Concrete outfall channel bed	Outfall is discharging into area of active erosion, evidenced by fallen and degraded gabion baskets. The concrete channel bed has been undermined and is failing. Outlet remains perched above scour pool. The outlet channel releases into silted point bar.	




Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
7	N2	OF4884313907	Medium	Concrete	1956	Failed	Concrete headwall	Riprap	Concrete headwall has completely detached. Upslope, the pipe has detached, due to sinkhole and sediment sinking. Outfall is not working as design intended. Outfall channel riprap bed has completely washed out.	
8	N2	N/A	Small	Not Assessed	N/A	Moderate	None	N/A	Trail culvert. Perched above lateral sanitary sewer risk. Exposed cut bank and hanging tree roots. Boulder bed protection here has washed out. RGA indicates channel is widening here.	Photo Not Available
9	N2	N/A	Small	Not Assessed	N/A	Moderate	N/A	N/A	Trail culvert perched above channel. Bank is stabilized at the toe of slope by boulders. Bank protection is beginning to wash out, possibly posing a risk to buried sanitary sewer infrastructure.	Photo Not Available




Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
10	N2	OF4902413782	Small	CMP	1956 (DCAD)	Poor	Outfall without Headwall (DCAD)	Riprap protection (see comment)	Outfall is placed at the top of slope, near private property boundaries. The rip rap lining the outfall channel has been washed out and accumulates at the mouth of the outfall channel. Outfall channel has scoured a deep gully into the topsoil. Outfall channel is filled with large pieces of construction materials, organic debris, and other refuse.	
11	N2	OF4902413782	Medium	CSP	1956	Moderate	Concrete headwall and wingwalls	Rip-rap lined channel	Outfall discharges at the trail. Concrete apron is slightly degraded with significant root growth. Riprap lined channel is in good condition.	
12	N2	OF4901113668	N/A	N/A	1975 (DCAD)	Not Assessed	Outfall without headwall (DCAD)	N/A	Could not be located in field	Photo Not Available



Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
13	N2	N/A	Small	Concrete	N/A	Poor	Concrete Headwall and Wingwalls	None observable	Outfall found in field, but could not be located in DCAD. Flooded outfall with gabion basket protection behind headwall. Outfall channel is silted and muddy	
14	N2	OF4920313498	N/A	N/A	1968	Moderate	Outfall without headwall (DCAD)	Armourstone Ribbing structure	This outfall is part of the culvert crossing the intersection of Bayview Ave. and Finch Ave. Outfall was assessed as part of TRCA Inspection.	
15	N3	N/A	Medium	N/A	N/A	Poor	None	None	Outfall found in field but not available in DCAD. Main channel contains bank protection on both sides in riprap and boulder treatments. Bed contains multiple cascaded drop structures.	Photo Not Available


Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
16	N3	OF4940713236	Medium	Concrete (CIP)	1987	Moderate	Outfall without Headwall (DCAD)	N/A	Main channel is well protected with gabion baskets on both sides in good condition. Outfall channel has incised and may promote bank erosion.	
17	N3	OF4950913010	Medium	Concrete	1987	Excellent	Concrete wingwall and headwall	Gabion basket channel bed	Outfall is embedded into gabion basket bank protection. Channel bed consists of gabion basket. The main channel here is highly degraded, but the outfall is in fair condition.	
18	N3	OF4964012829	Large	Concrete (CIP)	1963	Excellent	Concrete headwall and wingwalls with concrete apron	Rip-rap lined channel, slightly washed out.	Outfall located at the boundary of private backyard, with channel ~100 m long. Outfall is in good condition. Channel is rip-rap lined upstream and gabion lined downstream. Channel bank protection consists of armourstone and gabion baskets, with the former experiencing some degradation.	

Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
19	N3	OF4943712842	Large	Concrete	1987	Moderate	Box Culvert with boulder wingwalls	N/A	Additional storm drainage to the culvert could not be found. Outfall was assessed as part of TRCA Inspections.	
20	N4	N/A	Medium	Unknown	Unknown	Poor	None	Boulder revetment	Assessed in field but not mapped on DCAD. Perched outfall of known origin above boulder revetment. Pipe is protruding ~1 m out of bank, and about 2 m above the channel bed.	
21	N4	OF4927712537	Large	Concrete (CIP)	1989	Poor	Concrete Headwall	None observable	Outfall channel contains no observable bed protection. Concrete headwall is beginning to outflank with a large scour pool developing at the base. Slightly perched about the outfall channel.	

Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
22	N4	OF4937712339	Small	Concrete (CIP)	1957	Excellent	Concrete wingwall and headwall.	None observable	Outfall with no defined or constructed channel. Concrete wingwall and headwall concrete apron slightly degraded. Located ~50 m from main channel.	
23	N4	Unknown	Small	Good		Excellent	Concrete wingwall and headwall	Loose rip rap outfall channel and gabion stone in poor condition but still acting as sufficient bank protection.	Outfall embedded in gabion basket. Gabion basket has since degraded but original stone is still in place. Outfall channel is slightly perched.	
24	N4	OF4941912085	Large	corrugated metal, scour at base approx 0.4 m	1957	Moderate	Outfall with Headwall	N/A	Most upstream culvert for Newtonbrook Creek at Maxome Avenue. Culvert is in moderate shape.	

Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
25	BR1	OF4830215159	Medium	Concrete (CIP)	1977	Failed	Concrete headwall and wingwalls.	Gabion basket bank protection and concrete channel bed.	Outfall is highly degraded in the slope. CMP is completely detached and exposed at several locations along the slope. Concrete wingwalls and headwall degraded with cracks and detachment. Concrete pad is degrading from runoff bypassing CMP.	
26	BR1	OF4824214956	CMP	Medium	1977	Failed	Concrete headwall	None observable	Concrete headwall has completely detached and fallen. Outlet has degraded to the point where of original design and outlet location are unknown. Upslope, CMP is exposed and detached in several locations.	
27	BR3	OF4807414830	Medium	Unknown	1955	Excellent	Concrete Headwall and Wingwall	Boulder channel treatment	Upstream of engineered channel. In good condition.	

Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
28	BR3	OF4811614623	Large	Concrete (CIP)	1955	Moderate	Outfall without Headwall (DCAD)	N/A	Road culvert for Burbank Drive, discharging into Blue Ridge Creek. Found culvert in field but location of outfall is unknown. Upstream is private property.	
29	BR3	OF4800014319	N/A	N/A	1955	Not Assessed	Outfall without Headwall (DCAD)	N/A	Location of outfall is upstream culvert of Bayberry Crescent. Located on private property. Not-accessible and not verified in field.	Photo Not Available
30	BR3	OF4798014273	N/A	N/A	1955	Moderate	Outfall without Headwall (DCAD)	Cablecrete bed protection with armourstone wingwalls	Road culvert for Bayberry Cr.	

Outfall #	Reach	TW Asset ID	Diameter (mm)	Material	Construction Year	Condition	Headwall	Erosion Protection Works	Comments	Photo
31	BR3	OF4798813684	Large	Concrete (CIP)	1965	Moderate	Outfall without Headwall (DCAD)	Gabion basket channel bed and armourstone banks.	Most upstream culvert for Blue Ridge Creek. Armourstone bank protection and drop structure. Downstream of drop structure is gabion basket channel bed.	
32	BR4	OF4794514800	Medium	Concrete (CIP)	1977	Poor	Concrete headwall and wingwall (DCAD)	Rip-rap channel bed	Large Culvert for tributary of Blue Ridge Creek off Sifton Crescent. Headwall is cracked and elevated. Concrete apron is undermined. Rip-rap lining channel bed downstream is washed out. Bank protection along channel downstream is slumped and failing.	