









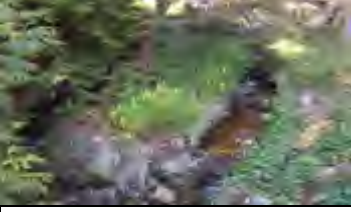
**DISTRICT OF WEST VANCOUVER
INTEGRATED STORMWATER MANAGEMENT PLAN FOR PIPE, WESTMOUNT,
CAVE, TURNER AND GODMAN CREEKS**









**APPENDIX G
INVENTORY OF CREEKS**

Creek Appendix - Godman Creek

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
G-3900	Marine to Outfall	~ 26.2	17.2	0.013	Channel Width: 1.5m Channel Depth: 1.5m Side Slopes: Vert	Concrete Channel			
G-3800	Marine to Outfall	~ 37.2	27.3	0.045	Channel Width: 1.6m Channel Depth: 1.5m Side Slopes: Vert	Rip-Rapped Natural Channel	No Photo		
G-3700	4025 Marine Drive to 4036 Marine Drive	14.7	3.8	0.013	Diameter: 1550 mm	Concrete Culvert			
G-3600	Rose to Marine	~ 21.4	11.7	0.025	Channel Width: 1.8m Channel Depth: 2.4m Side Slopes: Vert	Concrete Channel	No Photo		
G-3500	Rose to Marine	~ 53.0	2.8	0.025	Channel Width: 3m Channel Depth: 1m Side Slopes: Vert	Concrete Channel			
G-3400	4013 Rose Crescent to 4014 Rose Crescent	25.4	5.8	0.013	Diameter: 1500 mm	Concrete Culvert			
G-3300	BC Railway to Rose	~ 22.2	18.4	0.013	Channel Width: 2.4m Channel Depth: 1.5m Side Slopes: Vert	Concrete Channel			
G-3200	BC Railway to Rose	~ 33.8	25.7	0.045	Channel Width: 0.9m Channel Depth: 0.75m Side Slopes: 1/8	Rip-Rapped (8" dia.) Natural Channel			

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
G-3150	Sharon Park @ Railroad (West Culvert)	14.7	7.6	0.024	Diameter: 900 mm	CSP Culvert			
G-3100	Sharon Park @ Railroad (East Culvert)	14.7	7.8	0.013	Diameter: 1200 mm	Concrete Culvert			
G-3000	Sharon to BC Railway	~ 39.1	3.1	0.04	Channel Width: 1m Channel Depth: 1.8m Side Slopes: 1/1	Smaller Stones (4" dia.) Natural Channel			
G-2900	3885 Sharon Park @ Sharon Place to Sharon Park	17.5	4.2	0.024	Elliptical In: 3450x2000 (w/h) Out: 3200x1800 (w/h)	CSP Culvert			
G-2800	Bayridge to Sharon	~ 141.8	6.3	0.045	Channel Width: 2.1m Channel Depth: 0.7m Side Slopes: Vert	Rip-Rapped (12" dia.) Natural Channel			
G-2700	Bayridge to Sharon	~ 81.4	13.1	0.035	Channel Width: 2.4m Channel Depth: 3m Side Slopes: Vert	Bed-rock Channel			
G-2600	3921 Bayridge Place @ Bayridge Avenue - 3910 Bayridge Avenue	23.2	3.1	0.013	Diameter: 1350 mm	Concrete Culvert			
G-2500	Viewridge to Bayridge	~ 95.6	15.6	0.052	Channel Width: 2.1m Channel Depth: 4.5m Side Slopes: 4.5/1	Bed-rock Channel, smaller stones (6" dia.) Natural channel			

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
G-2400	Viewridge to Bayridge	~ 49.6	42.7	0.03	Channel Width: 5m Channel Depth: 1.2m Side Slopes: Vert	Bedrock forms channel bed, waterfall	No Photo		
G-2300	Viewridge to Bayridge	~ 35.5	8.2	0.03	Channel Width: 1.8m Channel Depth: 1.2m Side Slopes: Vert	Bedrock forms channel bed, concrete and bedrock forms channel walls			
G-2200	3955 Viewridge Place to 3950 Viewridge Place	22.0	5-Jan	0.013	Diameter: 1370mm	Concrete Culvert			
G-2100	Westridge to Viewridge	~ 108.2	5.5	0.048	Channel Width: 1m Channel Depth: 1m Side Slopes: Vert	Natural, rip-rapped (8" dia.), some boulders from till			
G-2000	3941 Westridge Avenue to 3940 Westridge Avenue	16.1	2.7	0.013	Diameter: 1370mm	Concrete Culvert			
G-1900	Upper levels to Westridge	~ 53.5	12.9	0.03	Channel Width: 2.4m Channel Depth: 0.9m Side Slopes: Vert	Bed-rock, some stones (4"- 6")			
G-1800	Upper levels to Westridge	~ 76.9	7.4	0.0455	Channel Width: 2.5m Channel Depth: 0.4m Side Slopes: Vert	Bed-rock	No Photo		
G-1700	Upper levels to Westridge	~ 33.5	38.2	0.05	Channel Width: 1.3m Channel Depth: 0.6m Side Slopes: Vert	Natural Channel	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	General Photo	Photo	
								Inlet	Outlet
G-1600	Highway Median - Westridge Park @ Highway (East of Park)	51.2	1	0.024	Diameter: 1800 mm	CSP Culvert			
G-1500	Upper levels	~ 13.2	64.2	0.03	Channel Width: 3.6m Channel Depth: 2.0m Side Slopes: Vert	Steep bedrock	No Photo		
G-1400	North of Highway, West of Exit 7 @ Break Check Sign to Highway Median	51.2	5.4	0.024	Diameter: 1850 mm	CSP Culvert			
G-1300	North of Upper Levels	~ 224.8	23.5	0.04	Channel Width: 3.0m Channel Depth: 2.9m Side Slopes: 1/1	Mostly Bedrock controlled	No Photo		
G-1200	North of Upper Levels	~ 90.4	6.7	0.064	Channel Width: 2.25m Channel Depth: 1m Side Slopes: 1/0.35	Sandy alluvium deposits, local stumps/woody debris	No Photo		
G-1150	Eagle Lake Road, Northwest of Works Yard (Double inlets and outlets)	10.3	6.8	0.024	Diameter: 600 mm	CSP Culvert			
G-1100	Eagle Lake Road, Northwest of Works Yard (Double inlets and outlets)	10.3	7.5	0.024	Diameter: 600 mm	CSP Culvert			
G-1000	North of Upper Levels	~ 312.5	4.5	0.022	Channel Width: 0.8m Channel Depth: 1m Side Slopes: 1/0.3	Sandy till & bouldery colluvium/till	No Photo		




ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
G-900	North of Upper Levels	~ 264.7	23.3	0.052	Channel Width: 1m Channel Depth: 2.5m Side Slopes: 1/0.975	Bedrock, some medium woody debris, boulder debris	No Photo		
G-800	North of Upper Levels	~ 148.6	23.4	0.033	Channel Width: 1m Channel Depth: 1m Side Slopes: 1/0.5	Weathered bedrock	No Photo		
G-700	North of Upper Levels	~ 86.7	40	0.033	Channel Width: 1m Channel Depth: 1m Side Slopes: 1/0.5	Weathered bedrock	No Photo		
G-600	North of Upper Levels	~ 60.9	19.7	0.033	Channel Width: 1m Channel Depth: 1m Side Slopes: 1/0.5	Weathered bedrock	No Photo		
G-500	North of Upper Levels	~ 243.4	22.7	0.033	Channel Width: 1m Channel Depth: 1m Side Slopes: 1/0.5	Weathered bedrock	No Photo		
G-400	North of Upper Levels	~ 222.4	30.1	0.033	Channel Width: 1m Channel Depth: 1m Side Slopes: 1/0.5	Weathered bedrock	No Photo		
G-300	North of Upper Levels	~ 482.1	16.8	0.033	Channel Width: 1m Channel Depth: 1m Side Slopes: 1/0.5	Weathered bedrock	No Photo		
G-200	North of Upper Levels	~ 279.1	25.9	0.033	Channel Width: 1m Channel Depth: 1m Side Slopes: 1/0.5	Weathered bedrock	No Photo		


ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
G-100	North of Upper Levels	~ 90.5	14.7	0.033	Channel Width: 1m Channel Depth: 1m Side Slopes: 1/0.5	Weathered bedrock	No Photo		

Creek Appendix - Turner Creek

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	General Photo	Photo	
								Inlet	Outlet
T-3500	Marine Drive to Outlet	~ 67.3	25.7	0.03	Channel Width: 1.8m Channel Depth: 1.5m Side Slopes: Vert	Bedrock, loose rocks varying size			
T-3400	3521 Creery Avenue to West Bay Park @ Marine Drive	70.0	15.9	0.013	Diameter: 900 mm	Concrete Culvert			
T-3300	Hillcrest to Oxley	~ 168.9	15.5	0.048	Channel Width: 1.3m Channel Depth: 0.8m Side Slopes: Vert	Bedrock. At U/S end some glaciolacustrine silt			
T-3200	3560 Mathers Avenue to 466 Hillcrest Street	18.3	3.3	0.013	Diameter: 600 mm	Concrete Culvert			
T-3100	Upstream of T-3200	10.0	-	-	Node Width: 10.0 m Node Depth: 1.7 m Side Slope: Vert	Storage node, weir			
T-3000	Mathers to Hillcrest	~ 51.8	15.2	0.04	Channel Width: 2.1m Channel Depth: 0.9m Side Slopes: 1/1	Natural Channel - Rip Rapped (10" Diameter)			
T-2900	3601 Mathers Avenue to 3570 Mathers Avenue	20.4	1.4	0.013	Diameter: 900 mm	Concrete Culvert		No Photo	
T-2800	Westmount to Mathers	~ 84.6	26.7	0.04	Channel Width: 2.4m Channel Depth: 2.1m Side Slopes: 1/0.714	Natural Channel - Rip Rapped (10" Diameter)			







ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
T-2700	Westmount	~ 48.0	52.5	0.03	Channel Width: 1.2m Channel Depth: 0.9m Side Slopes: Vert	Bedrock Channel	No Photo		
T-2600	Cedaridge to Westmount	~ 22.8	4.8	0.035	Channel Width: 1.2m Channel Depth: 0.9m Side Slopes: Vert	Bedrock Channel			
T-2500	Cedaridge to Westmount	~ 9.5	3.2	0.035	Channel Width: 1.2m Channel Depth: 0.9m Side Slopes: Vert	Material Unknown	No Photo		
T-2400	Cedaridge to Westmount	~ 23.0	0.4	0.035	Channel Width: 1.0m Channel Depth: 0.8m Side Slopes: Vert	Natural Channel - Rip Rapped (8" Diameter)/Bedrock			
T-2300	3680 Cedaridge Place to 3660 Westmount Road	27.0	5.1	0.013	Diameter: 700 mm	Concrete Culvert			
T-2200	Westmount to Cedaridge	~ 48.0	5.4	0.038	Channel Width: 1.8m Channel Depth: 0.9m Side Slopes: Vert	Channel incised into till - Rock bed varying size			
T-2100	Westmount Rd, Northeast of Southridge Place to 3702 Southridge Place @ Westmount Road	18.9	4.5	0.013	Diameter: 1220 mm	Concrete Culvert			
T-2000	Southridge to Westmount	~ 20.6	2.4	0.043	Channel Width: 0.6m Channel Depth: 4.5m Side Slopes: 1/0.666	Natural Channel - Rock, some grass			



ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	General Photo	Photo	
								Inlet	Outlet
T-1900	East of 3730 Southridge Avenue @ Westmount Road to South of 3690 Westmount Road (Chevron)	19.2	7.2	0.013	Diameter: 1220 mm	Concrete Culvert			
T-1800	Southridge	~ 22.3	6.3	0.03	Channel Width: 0.9m Channel Depth: 0.8m Side Slopes: 1/1	Sloped channel in till, minimal rocks			
T-1750	3745 Southridge Avenue to 3730 Southridge Avenue	22.7	1.6	0.013	Diameter: 770 mm	Concrete Culvert			
T-1700	3746 Southridge Avenue to 3730 Southridge Avenue	22.7	1.8	0.013	Diameter: 770 mm	Concrete Culvert			
T-1600	Westridge	~ 30.1	2.7	0.03	Channel Width: 1.2m Channel Depth: 1.2m Side Slopes: 1/1	Concrete lined channel			
T-1500	3760 Westridge Avenue to 3745 Westridge Avenue	21.5	7	0.013	Diameter: 1220 mm	Concrete Culvert			
T-1400	Westridge	~ 15.5	1.9	0.05	Channel Width: 1.8m Channel Depth: 1.2m Side Slopes: Vert	Natural channel, rock bed			
T-1300	West of Westbound Westmount Highway Entrance to 3760 Westridge Avenue	76.3	7	0.013	Diameter: 1220 mm	Concrete Culvert			

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
T-800	Cypress Bowl Road	~ 66.5	18.8	0.05	Channel Width: 1.0m Channel Depth: 4.0m Side Slopes: 1/2.08	Assumed property of other creek Reaches	No Photo		
T-700	Cypress Bowl Road to Upper Levels	~ 43.4	33.3	0.04	Channel Width: 1.0m Channel Depth: 4.0m Side Slopes: 1/2.66	Mostly Bedrock	No Photo		
T-600	Cypress Bowl Road to Upper Levels	~ 55.5	58	0.04	Channel Width: 1.0m Channel Depth: 4.0m Side Slopes: 1/2.66	Mostly Bedrock	No Photo		
T-500	Cypress Bowl Road to Upper Levels	~ 46.3	19.4	0.04	Channel Width: 1.0m Channel Depth: 1.82m Side Slopes: 1/3.25	Bedrock Streambed	No Photo		
T-400	Cypress Bowl Road	~ 64.8	10.6	0.05	Channel Width: 1.0m Channel Depth: 4.0m Side Slopes: 1/2.08	Series of cascades caused from large woody debris	No Photo		
T-300	South of Works Yard, Cypress Bowl Road (Outlet only)	44.8	2.2	0.024	Diameter: 900 mm	CSP Culvert		No Photo	
T-200	Cypress Bowl Road	~ 243.2	4.4	0.05	Channel Width: 1.0m Channel Depth: 4.0m Side Slopes: 1/2.08	Assumed property of other creek Reaches	No Photo		
T-100	Cypress Bowl Road	30.6	16.2	-	Diameter: 600 mm	-		No Photo	No Photo

Creek Appendix - Cave Creek

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	General Photo	Photo	
								Inlet	Outlet
C-4200	Westbay Park @ Maple Lane (Outlet)	24.3	14.2	0.013	Rectangular Culvert Inlet: 1400x1500mm Outlet: 950x1450mm	Concrete Culvert			
C-4100	Marine Drive to Outlet	~ 75.6	19.5	0.03	Channel Width: 2.1m Channel Depth: 1.5m Side Slopes: Vert	Bedrock, some large stones			
C-4000	West of 3397 Marine Drive @ Railway to 3402 Marine Drive	26.7	20.8	0.013	Rectangular Culvert 1250x1250mm	Concrete Culvert			
C-3900	BC Railway to Marine Drive	~ 2.4	50.4	0.03	Channel Width: 1.2m Channel Depth: 0.9m Side Slopes: Vert	Steep bedrock chute between culverts			
C-3800	420 Oxley Street @ Railroad - crosses tracks	21.9	34.3	0.013	Diameter: 1200 mm	Concrete Culvert			
C-3700	Mathers Avenue to BC Railway	~ 77.4	19.4	0.037	Channel Width: 2.4m Channel Depth: 1.5m Side Slopes: Vert	Bedrock, large stones (>12") and boulders			
C-3600	3465 Mathers Avenue to 3460 Mathers Avenue	17.0	18.5	0.013	Diameter: 1050 mm	Concrete Culvert			
C-3500	Westmount Road to Mathers Avenue	~ 87.7	37.4	0.05	Channel Width: 2.4m Channel Depth: 1.5m Side Slopes: Vert	Natural channel, rocks (8 - 12")			

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	General Photo	Photo	
								Inlet	Outlet
C-3400	Westmount Road to Mathers Avenue	~ 61.6	7.6	0.039	Channel Width: 2.0m Channel Depth: 1.0m Side Slopes: Vert	Bedrock Notch	No Photo		
C-3300	Westmount Road to Mathers Avenue	~ 70.3	4	0.0494	Channel Width: 2.0m Channel Depth: 1.0m Side Slopes: Vert	Natural channel - gravel-boulder substrate	No Photo		
C-3200	Westmount Road to Mathers Avenue	~ 57.1	12.5	0.0345	Channel Width: 3.5m Channel Depth: 0.4m Side Slopes: Vert	Concrete lined, poor condition, series of drops (0.8m)	No Photo		
C-3150	HWY @ W of Westbound, Westmount Exit to 3390 Westmount Road (Eastern Culvert)	28.1	18.5	0.013	Diameter: 900 mm	Concrete Culvert			
C-3100	HWY @ W of Westbound, Westmount Exit to 3390 Westmount Road (Central Culvert)	124.8	18.5	0.024	Diameter: 1400 mm	CSP Culvert			
C-3000	Wentworth Avenue to Upper Levels	~ 11.8	50.8	0.035	Channel Width: 2.0m Channel Depth: 1.0m Side Slopes: 1/4	Steep channel on bedrock	No Photo		
C-2900	Westbound, Westmount Exit - crosses Wentworth Avenue	96.6	26	0.013 - 0.024	Diameter: 1400 mm	CSP Inlet; Concrete Outlet			
C-2800	Cypress Bowl Road to Wentworth Avenue	~ 102.8	17.6	0.035	Channel Width: 4.5m Channel Depth: 1.35m Side Slopes: 1/2.66	Wide channel with low incisions on bedrock	No Photo		









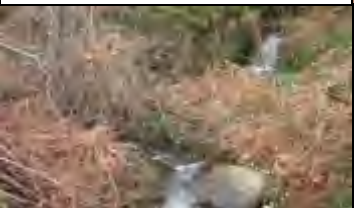


ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
C-2700	Cypress Bowl Road to Wentworth Avenue	~ 44.6	39.2	0.035	Channel Width: 4.5m Channel Depth: 1.35m Side Slopes: 1/2.66	Assumed property of other creek Reaches	No Photo		
C-2600	Cypress Bowl Road to Wentworth Avenue	~ 45.8	49.1	0.035	Channel Width: 4.5m Channel Depth: 1.35m Side Slopes: 1/2.66	Assumed property of other creek Reaches	No Photo		
C-2500	Cypress Bowl Road to West of Cypress Place	18.8	7.9	0.024	Diameter: 900 mm	CSP Culvert			
C-2400	Cypress Bowl Road	~ 11.0	91.2	0.03	Channel Width: 2.0m Channel Depth: 2.95m Side Slopes: 1/2.36	Steep stream gradient in bedrock to ditchline	No Photo		
C-2300	Cypress Bowl Road	~ 103.4	36.8	0.038	Channel Width: 2.0m Channel Depth: 2.95m Side Slopes: 1/2.36	Boulder Substrate	No Photo		
C-2200	Cypress Bowl Road	~ 31.6	12.6	0.038	Channel Width: 1.5m Channel Depth: 3.85m Side Slopes: 1/1.55	Boulder Substrate	No Photo		
C-2100	Cypress Bowl Road	~ 14.6	41.2	0.038	Channel Width: 1.5m Channel Depth: 3.85m Side Slopes: 1/1.55	Boulder Substrate	No Photo		
C-2000	Cypress Bowl Road	20.8	13.9	0.024	Diameter: 600 mm	CSP Culvert		No Photo	No Photo

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
C-1900	North of Cypress Bowl Road	~ 356.6	32.3	0.045	Channel Width: 1.0m Channel Depth: 1.42m Side Slopes: 1/4.16	Mostly bedrock stream bed	No Photo		
C-1800	Cypress Bowl Road to Wentworth Avenue	~ 22.7	35.7	0.04	Channel Width: 1.5m Channel Depth: 2.0m Side Slopes: 1/1.0	Bedrock stream bed	No Photo		
C-1700	Cypress Bowl Road to Wentworth Avenue	~ 75.6	20.5	0.04	Channel Width: 2.0m Channel Depth: 6.52m Side Slopes: 1/1.88	Boulder - cobble substrate	No Photo		
C-1600	Cypress Bowl Road to Wentworth Avenue	~ 69.5	27.3	0.035	Channel Width: 1.5m Channel Depth: 3.0m Side Slopes: 1/1.33	Bedrock stream bed	No Photo		
C-1500	Cypress Bowl Road to Wentworth Avenue	~ 22.6	53.1	0.035	Channel Width: 1.5m Channel Depth: 3.0m Side Slopes: 1/1.33	Assumed property of other creek Reaches	No Photo		
C-1400	Cypress Bowl Road	24.4	20.6	0.024	Diameter: 900 mm	CSP Culvert		No Photo	No Photo
C-1300	Cypress Bowl Road	~ 68.4	60	0.035	Channel Width: 2.0m Channel Depth: 4.55m Side Slopes: 1/1.74	Bedrock stream bed	No Photo		
C-1200	Cypress Bowl Road	~ 58.9	23.8	0.035	Channel Width: 1.5m Channel Depth: 2.05m Side Slopes: 1/1.93	Bedrock stream bed	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
C-1100	Cypress Bowl Road	~ 47.3	19	0.045	Channel Width: 1.0m Channel Depth: 1.88m Side Slopes: 1/2.66	Thin colluvium over bedrock	No Photo		
C-1000	Cypress Bowl Road	~ 9.8	61.2	0.045	Channel Width: 1.0m Channel Depth: 1.88m Side Slopes: 1/2.66	Thin colluvium over bedrock	No Photo		
C-900	Cypress Bowl Road	32.8	25	0.024	Diameter: 600 mm	CSP Culvert		No Photo	No Photo
C-800	North of Cypress Bowl Road	~ 16.4	21.3	0.04	Channel Width: 1.5m Channel Depth: 2.15m Side Slopes: 1/3.1	Stream bed locally on bedrock	No Photo		
C-700	North of Cypress Bowl Road	~ 21.3	96.1	0.04	Channel Width: 1.5m Channel Depth: 2.15m Side Slopes: 1/3.1	Stream bed locally on bedrock	No Photo		
C-600	North of Cypress Bowl Road	~ 161.1	32	0.04	Channel Width: 1.0m Channel Depth: 2.9m Side Slopes: 1/2.5	Bedrock stream bed	No Photo		
C-500	North of Cypress Bowl Road	~ 143.2	35.1	0.04	Channel Width: 0.6m Channel Depth: 1.65m Side Slopes: 1/2.42	Bedrock stream bed, dry channel at upper end	No Photo		
C-400	Cypress Bowl Road	~ 86.7	54.8	0.035	Channel Width: 2.0m Channel Depth: 4.55m Side Slopes: 1/1.77	Assumed property of other creek Reaches	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
C-300	Cypress Bowl Road	~ 72.9	22	0.035	Channel Width: 1.5m Channel Depth: 2.05m Side Slopes: 1/1.93	Assumed property of other creek Reaches	No Photo		
C-200	Cypress Bowl Road	~ 8.1	49.2	0.045	Channel Width: 1.0m Channel Depth: 1.5m Side Slopes: 1/2.66	Assumed property of other creek Reaches	No Photo		
C-100	Cypress Bowl Road	23.1	20.1	0.024	Diameter: 600 mm	CSP Culvert		No Photo	No Photo

Creek Appendix - Westmount Creek

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	General Photo	Photo	
								Inlet	Outlet
W-4000	3285 Marine Drive to 3262 Marine Drive @ Ocean	38.6	13	0.013	Inlet: 1220x1220mm Outlet: Unknown	Concrete Culvert			
W-3900	3285 Marine Drive to 3262 Marine Drive @ Ocean	20.9	13	0.013	Inlet: 1220x1220mm Outlet: Unknown	Concrete Culvert			
W-3800	BC Railway to Marine	~ 6.3	19	0.03	Channel Width: 2.3m Channel Depth: 0.6m Side Slopes: Vert	Natural Channel in Bedrock			
W-3700	Upstream of 3285 Marine Drive	40.8	28	0.0275	Flume Width: 2.3m Flume Depth: 0.6m Side Slopes: Vert	Concrete Flume	No Photo		
W-3600	BC Railway to Marine	~ 29.7	6.1	0.025	Channel Width: 2.4m Channel Depth: 1.1m Side Slopes: Vert	Concrete Channel			
W-3500	Southwest of 3285 Dickson Crescent @ Railroad to 3299 Marine Drive @ Travers Avenue	23.6	-	0.013	Diameter: 1220 mm	Concrete Culvert			
W-3400	Mathers to BC Railway	~ 119.6	20	0.046	Channel Width: 1.5m Channel Depth: 0.9m Side Slopes: Vert	Natural Bedrock Channel			
W-3300	3255 Mathers Avenue to 2360 Mathers Avenue	15.7	30	0.013	Diameter: 1220 mm	Concrete Culvert			

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
W-3200	Thompson to Mathers	~ 35.1	15.4	0.03	Channel Width: 2.1m Channel Depth: 0.5m Side Slopes: Vert	Natural Bedrock Channel			
W-3100	Thompson to Mathers	~ 65.1	24.4	0.03	Channel Width: 2.1m Channel Depth: 1.2m Side Slopes: Vert	Natural Bedrock Channel			
W-3000	3235 Thompson Crescent to 3240 Thompson Crescent	23.6	31	0.013	Diameter: 1220 mm	Concrete Culvert			
W-2900	Westmount to Thompson	~ 78.7	20.6	0.03	Channel Width: 2.1m Channel Depth: 1.5m Side Slopes: Vert	Well Confined Bedrock Channel			
W-2850	3177 Westmount Place to 3180 Westmount Place	21.7	32	0.013	Diameter: 1050 mm	Concrete Culvert			
W-2800	3177 Westmount Place to 3180 Westmount Place	21.7	32	0.013	Diameter: 1050 mm	Concrete Culvert			
W-2700	Benbow to Westmount	~ 83.8	12.7	0.03	Channel Width: 1.8m Channel Depth: 1.2m Side Slopes: Vert	Bedrock Stream Bed			
W-2600	3175 Benbow Road to 3170 Benbow Road	16.8	33	0.013	Diameter: 1050 mm	Concrete Culvert			

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
W-2500	Upper Levels to Benbow	~ 61.0	28	0.035	Channel Width: 2.1m Channel Depth: 1.5m Side Slopes: Vert	Mainly Bedrock			
W-2400	Southwest of Deer Ridge Drive @ Highway to 3165 Benbow Road @ Highway	66.9	34	0.024	Diameter: 1600 mm	CSP Culvert		No Photo	
W-2300	Deer Ridge to Upper Levels	~ 25.1	11.4	0.035	Channel Width: 2.0m Channel Depth: 4.45m Side Slopes: 1/2.02	Material Unknown	No Photo		
W-2200	Deer Ridge to Upper Levels	~ 103.1	23.8	0.035	Channel Width: 2.0m Channel Depth: 4.45m Side Slopes: 1/2.02	Continuous Bedrock	No Photo		
W-2100	Cypress Bowl Road to Deer Ridge	~ 24.9	28.4	0.04	Channel Width: 16.0m Channel Depth: 2.2m Side Slopes: 1/2.25	Multiple channels dispersed over the 16m width	No Photo		
W-2000	Cypress Bowl Road, First Creek West of Deer Ridge	16.5	-	0.024	Diameter: 1220 mm	CSP Culvert			
W-1900	Cypress Bowl Road	~ 120.3	37.4	0.04	Channel Width: 7.0m Channel Depth: 2.38m Side Slopes: 1/2	Bedrock Channel - dispersed flow	No Photo		
W-1800	Cypress Bowl Road	~ 148.7	38.3	0.035	Channel Width: 1.5m Channel Depth: 1.8m Side Slopes: 1/2.74	Locally Bedrock Channel	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
W-1700	Cypress Bowl Road	32.2	22.3	0.024	Diameter: 600 mm	CSP Culvert		No Photo	No Photo
W-1600	Cypress Bowl Road	~ 775.5	36.5	0.04	Channel Width: 2.0m Channel Depth: 2.0m Side Slopes: 1/3.33	Bedrock controlled channels, some channel dispersion	No Photo		
W-1500	Cypress Bowl Road	30.2	9.9	-	Diameter: 600 mm	Material Unknown		No Photo	No Photo
W-1400	Cypress Bowl Road	~ 204.6	18.1	0.035	Channel Width: 2.0m Channel Depth: 1.0m Side Slopes: 1/2.94	Material Unknown	No Photo		
W-1300	Cypress Bowl Road	~ 51.7	40.6	0.034	Channel Width: 1.5m Channel Depth: 1.0m Side Slopes: 1/0.66	High, near vertical cutbanks in coluvium	No Photo		
W-1200	Cypress Bowl Road	46.1	6.5	-	Diameter: 600 mm	Material Unknown		No Photo	No Photo
W-1100	North of Cypress Bowl Road	~ 141.0	38.3	0.04	Channel Width: 2.0m Channel Depth: 2.62m Side Slopes: 1/5.81	Poorly defined channel with 5m wide floodplain	No Photo		
W-1000	North of Cypress Bowl Road	~ 83.2	38.5	0.048	Channel Width: 2.0m Channel Depth: 2.7m Side Slopes: 1/3.33	Lots of small woody debris in channel - Cutbanks in bouldery coluvium	No Photo		

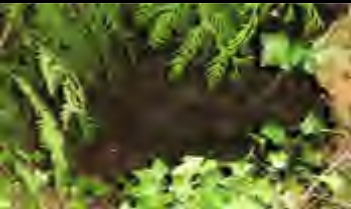



ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
W-900	North of Cypress Bowl Road	~ 141.0	8.5	0.03	Channel Width: 1.0m Channel Depth: 2.85m Side Slopes: 1/4.29	Sandy Substrate, poorly defined channel	No Photo		
W-800	Upstream of Upper Levels	87.2	15.5	-	Diameter: 900 mm	Material Unknown		No Photo	No Photo
W-700	Upstream of W-800	-	-	-	Detention Pond Area: 1670m ² Depth: 1m	Material Unknown	No Photo		
W-600	Deer Ridge to Upper Levels	~ 59.8	12.9	0.035	Channel Width: 1.5m Channel Depth: 1.5m Side Slopes: 1/1.25	Material Unknown	No Photo		
W-500	Deer Ridge to Upper Levels	~ 41.9	28.6	0.035	Channel Width: 1.5m Channel Depth: 1.5m Side Slopes: 1/1.25	Material Unknown	No Photo		
W-400	Deer Ridge Drive	16.4	12.2	-	Diameter: 600 mm	Material Unknown		No Photo	No Photo
W-300	Cypress Bowl Road to Deer Ridge	~ 23.6	21.2	0.0335	Channel Width: 1.0m Channel Depth: 2.0m Side Slopes: 1/1.25	Material Unknown	No Photo		
W-200	Cypress Bowl Road to Deer Ridge	~ 45.3	36.4	0.035	Channel Width: 1.0m Channel Depth: 2.0m Side Slopes: 1/1.25	Material Unknown	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
W-100	Cypress Bowl Road	13.2	3.8	-	Diameter: 600 mm	Material Unknown		No Photo	No Photo

Creek Appendix - Pipe Creek

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	General Photo	Photo	
								Inlet	Outlet
P-10700	124 31st Street	21.3	-	0.013	Square: 1800mm x 1800mm	Concrete Culvert			
P-10600	Procter to Outlet	~ 84.4	9.7	0.03	Channel Width: 1.5m Channel Depth: 2.0m Side Slopes: Vert	Concrete - Rock Channel	No Photo		
P-10500	North of 3094 Procter Avenue @ Railroad to 3094 Procter Avenue	35.0	-	0.024	Diameter: 1800 mm	CSP Culvert			
P-10400	Marine to Procter	~ 30.4	15.1	0.03	Channel Width: 2m Channel Depth: 2.5m Side Slopes: Vert	Concrete - Rock Channel			
P-10300	3055 Marine Drive to 3074 Marine Drive	20.3	5	0.013	Twin Rectangular: Inlet: 1200 x 850mm Outlet: 1220 x 1220mm	Concrete Culvert			
P-10200	Mathers to Marine	~ 192.5	9	0.045	Channel Width: 2.5m Channel Depth: 0.75m Side Slopes: 1/1	Natural Channel, debris catches, and weir structures			
P-10100	3033 Mathers Avenue to 3042 Mathers Avenue	17.4	7	0.013	Diameter: 1200 mm	Concrete Culvert			
P-10000	Rosebery to Mathers	~ 160.0	9.3	0.04	Channel Width: 5m Channel Depth: 1m Side Slopes: Vert	Boulder lined wide channel - Bedrock stream bed			

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-9900	Rosebery to Mathers	~ 11.1	12.7	0.04	Channel Width: 2.7m Channel Depth: 1.85m Side Slopes: Vert	Boulder lined wide channel - Bedrock stream bed			
P-9800	3047 Roseberry Avenue to East of 3050 Roseberry Avenue	12.3	7	0.013	Diameter: 1220 mm	Concrete Culvert			
P-9700	Spencer Place to Rosebery	~ 153.6	15.4	0.04	Channel Width: 2.1m Channel Depth: 1m Side Slopes: Vert	Bedrock stream bed, with large stones and cobbles (12")			
P-9600	3086 Spencer Place to 3074 Spencer Place	16.1	6	0.013	Diameter: 1800 mm	Concrete Culvert			
P-9500	Spencer Drive to Spencer Place	~ 94.0	20	0.0455	Channel Width: 3m Channel Depth: 1.5m Side Slopes: Vert	Bedrock channel, some step pools			
P-9400	3072 Spencer Court to 3094 Spencer Drive	19.1	10	0.013	Diameter: 1050 mm	Concrete Culvert			
P-9300	Spencer Court to Spencer Drive	~ 40.3	15.6	0.045	Channel Width: 1.8m Channel Depth: 1.2m Side Slopes: Vert	Bedrock channel			
P-9200	3075 Spencer court to 3072 Spencer court	31.8	11	0.013	Diameter: 1500 mm	Concrete Culvert			


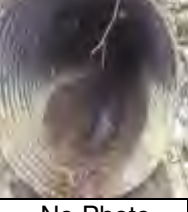

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-9100	Upper Levels to Spencer Court	~ 72.0	20.1	0.035	Channel Width: 3m Channel Depth: 1.2m Side Slopes: Vert	Bedrock channel			
P-9000	2960 Deer Ridge Place @ Highway to 3071 Spencer Court @ Highway	65.3	22	0.024	Diameter: 1500 mm	CSP Culvert			
P-8900	Deer Ridge to Upper Levels	~ 128.1	26.2	0.045	Channel Width: 3m Channel Depth: 2.6m Side Slopes: 1/1.62	Bedrock stream bed, large boulders	No Photo		
P-8800	Cypress Bowl Road @ West of Cypress Bowl Lane to 2960 Deer Ridge Place	51.5	-	0.024	Inlet Diameter: 1200mm Outlet Diameter: 1770mm	CSP Culvert			No Photo
P-8700	Cypress Bowl Road	~ 101.2	28.6	0.039	Channel Width: 2.5m Channel Depth: 4m Side Slopes: 1/1.86	Assumed property of other creek Reaches	No Photo		
P-8600	Cypress Bowl Road	~ 120	38.3	0.039	Channel Width: 2.5m Channel Depth: 4m Side Slopes: 1/1.86	Assumed property of other creek Reaches	No Photo		
P-8500	Cypress Bowl Road	~ 52.5	51.4	0.039	Channel Width: 2.5m Channel Depth: 4m Side Slopes: 1/1.86	Assumed property of other creek Reaches	No Photo		
P-8400	Cypress Bowl Road	~ 128.2	20.2	0.039	Channel Width: 2.5m Channel Depth: 4m Side Slopes: 1/1.86	Assumed property of other creek Reaches	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-8300	Cypress Bowl Road	24.6	-	0.024	Diameter: 750 mm	CSP Culvert		No Photo	No Photo
P-8200	North of Cypress Bowl Road	~ 70.0	15.3	0.039	Channel Width: 2.5m Channel Depth: 4m Side Slopes: 1/1.86	Assumed property of other creek Reaches	No Photo		
P-8100	North of Cypress Bowl Road	~ 136.9	34.3	0.04	Channel Width: 2m Channel Depth: 3.63m Side Slopes: 1/2.58	Assumed property of other creek Reaches	No Photo		
P-8000	North of Cypress Bowl Road	~ 270.1	23.7	0.039	Channel Width: 2.5m Channel Depth: 4m Side Slopes: 1/1.86	Assumed property of other creek Reaches	No Photo		
P-7900	Cypress Bowl Road	~ 190.9	43	0.045	Channel Width: 9m Channel Depth: 3m Side Slopes: 1/2	Multiple Channels on Bedrock	No Photo		
P-7800	Cypress Bowl Road	18.4	-	0.024	Diameter: 600 mm	CSP Culvert		No Photo	No Photo
P-7700	Cypress Bowl Road	~ 60.4	54.6	0.04	Channel Width: 2m Channel Depth: 3.63m Side Slopes: 1/2.58	Mainly Bedrock, some small debris jams	No Photo		
P-7600	Cypress Bowl Road	~72.1	22.2	0.04	Channel Width: 2m Channel Depth: 1.9m Side Slopes: 1/2.92	Mainly Bedrock, multiple channels locally	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-7500	Cypress Bowl Road	~ 309.6	36.2	0.035	Channel Width: 2m Channel Depth: 4.9m Side Slopes: 1/3.17	Well confined bedrock	No Photo		
P-7400	Cypress Bowl Road	~ 50.3	11.9	0.04	Channel Width: 10m Channel Depth: 1m Side Slopes: 1/1	Crest of Bedrock lip, multiple flows in channel	No Photo		
P-7300	Cypress Bowl Road	~ 105.9	51	0.035	Channel Width: 2m Channel Depth: 2.63m Side Slopes: 1/3.5	Bedrock stream bed	No Photo		
P-7100	Cypress Bowl Road	~ 55.3	38	0.035	Channel Width: 1.5m Channel Depth: 1.88m Side Slopes: 1/3	Bedrock stream bed	No Photo		
P-7000	Cypress Bowl Road	~ 44.0	29.6	0.045	Channel Width: 1.5m Channel Depth: 2.52m Side Slopes: 1/2.5	Undermined old wood Culvert	No Photo		
P-6900	Cypress Bowl Road	~ 112.9	34.6	0.035	Channel Width: 2m Channel Depth: 5.45m Side Slopes: 1/2.25	Well-defined sidewall slopes, bed rock at crest of the right bank	No Photo		
P-6800	Cypress Bowl Road	~ 74.7	20.1	0.045	Channel Width: 1.5m Channel Depth: 3.35m Side Slopes: 1/3.25	Cutbanks in bedrock, old trail and transmission line access road locally disperse stream	No Photo		
P-6700	Cypress Bowl Road	~ 93.2	29	0.04	Channel Width: 1.3m Channel Depth: 1.44m Side Slopes: 1/2.48	Bedrock cutbanks	No Photo		










ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-6600	Cypress Bowl Road	32.9	3	0.013 - 0.024	Diameter: 900 mm	Material Unknown		No Photo	No Photo
P-6500	North of Cypress Bowl Road	~ 363.4	20.9	0.042	Channel Width: 0.8m Channel Depth: 2.05m Side Slopes: 1/2.28	Local 0.5 m cutbanks, till banks	No Photo		
P-6400	Cypress Bowl Road	~ 55.2	21.7	0.039	Channel Width: 2.5m Channel Depth: 7.9m Side Slopes: 1/1.86	Local 0.5 m cutbanks, till banks	No Photo		
P-6300	Cypress Bowl Road	~ 72.5	62.1	0.039	Channel Width: 2.5m Channel Depth: 4m Side Slopes: 1/1.86	Assumed property of other creek Reaches	No Photo		
P-6200	Cypress Bowl Road	~ 53.6	34.3	0.039	Channel Width: 2.5m Channel Depth: 4m Side Slopes: 1/1.86	Assumed property of other creek Reaches	No Photo		
P-6150	Cypress Bowl Road	23.6	-	0.024	Diameter: 600 mm	CSP Culvert		No Photo	No Photo
P-6100	Cypress Bowl Road	23.3	-	0.024	Diameter: 1150 mm	CSP Culvert		No Photo	No Photo
P-6000	North of Cypress Bowl Road	~ 48.7	59.7	0.04	Channel Width: 2.0m Channel Depth: 3.6m Side Slopes: 1/2.58	Assumed property of other creek Reaches	No Photo		






ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-5900	Rosebery to Mathers	~ 38.4	16.9	0.038	Channel Width: 2.7m Channel Depth: 1.5m Side Slopes: Vert	Bedrock, large stones (12")			
P-5800	3001 Roseberry Avenue to 3030 Roseberry Avenue	~ 25.0	15	0.013	Diameter: 1220 mm	Concrete Culvert			
P-5700	Spencer Drive to Rosebery	~ 47.5	7.4	0.043	Channel Width: 0.9m Channel Depth: 0.9m Side Slopes: 1/0.55	Bedrock, cobble, gravel stream bed			
P-5600	Spencer Drive to Rosebery	~ 214.0	15.7	0.046	Channel Width: 2.4m Channel Depth: 0.6m Side Slopes: 1/1	Bedrock, gravel, some rip-rap (12")			
P-5500	3015 Spencer Drive to 2175 Gisby Street @ Spencer Drive	13.1	15	0.013	Rectangular: 1510x2000 mm	Concrete Culvert			
P-5400	Gibsy to Spencer Drive	~ 57.5	16.5	0.025	Channel Width: 2.0m Channel Depth: 0.6m Side Slopes: Vert	Concrete lined channel			
P-5300	Upstream of Spencer Drive	8.8	14.1	0.013 -0.024	Diameter: 1200 mm	Material Unknown		No Photo	No Photo
P-5200	Gibsy to Spencer Drive	~ 41.2	16	0.03	Channel Width: 1.9m Channel Depth: 0.9m Side Slopes: Vert	Bedrock Channel			






ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-5100	2261 Gisby Street to 2225 Gisby Street	14.2	22	0.013	Diameter: 1050 mm	Concrete Culvert			
P-5000	Upper Levels to Gibsy	~ 43.2	29.6	0.045	Channel Width: 1.2m Channel Depth: 3.0m Side Slopes: 1/1	Bedrock Channel			
P-4950	Cypress Bowl Highway Enterance, Westbound to NE of 2261 Gisby Street @ Highway (East Culvert)	104.6	20	0.024	Diameter: 920 mm	CSP Culvert			
P-4900	Cypress Bowl Highway Enterance, Westbound - NE of 2261 Gisby Street @ Highway (West Culvert)	106.8	25	0.013	Diameter: 750 mm	Concrete Culvert			No Photo
P-4800	Cypress Bowl Road to Upper Levels	~ 52.1	21.8	0.038	Channel Width: 1.0m Channel Depth: 1.0m Side Slopes: 1/3.33	Bedrock channel, some cobble lined banks	No Photo		
P-4700	Cypress Bowl Lane, West of lower parking lot to South of Cypress Bowl Road	90.1	-	0.024	Diameter: 900 mm	CSP Culvert			
P-4600	Cypress Bowl Road	~ 92.7	16.2	0.038	Channel Width: 1.5m Channel Depth: 1.8m Side Slopes: 1/3.1	Sand boulder substrate	No Photo		
P-4500	Cypress Bowl Road	~ 10.2	29.4	0.038	Channel Width: 1.5m Channel Depth: 1.8m Side Slopes: 1/3.1	Assumed property of other creek Reaches	No Photo		






ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-4400	East of Cypress Bowl Lane	19.6	-	0.013 - 0.024	Diameter: 600 mm	Material Unknown		No Photo	No Photo
P-4300	Cypress Bowl Road	~ 100.0	18.1	0.038	Channel Width: 1.5m Channel Depth: 1.8m Side Slopes: 1/3.1	Assumed property of other creek Reaches	No Photo		
P-4200	East of Cypress Bowl Lane	8.5	-	0.013 - 0.024	Diameter: 600 mm	Material Unknown		No Photo	No Photo
P-4100	Cypress Bowl Road	~ 111.3	14.9	0.038	Channel Width: 1.5m Channel Depth: 1.8m Side Slopes: 1/3.1	Assumed property of other creek Reaches	No Photo		
P-4000	Cypress Bowl Road	~ 90.4	48.7	0.04	Channel Width: 1.75m Channel Depth: 1.8m Side Slopes: 1/3.56	Assumed property of other creek Reaches	No Photo		
P-3900	Cypress Bowl Road	~ 142.0	28.9	0.04	Channel Width: 2.0m Channel Depth: 1.7m Side Slopes: 1/2.64	Assumed property of other creek Reaches	No Photo		
P-3800	Cypress Bowl Road	28.8	-	0.013 - 0.024	Diameter: 600 mm	Material Unknown		No Photo	No Photo
P-3700	Cypress Bowl Road	~ 205.8	28.7	0.038	Channel Width: 1.5m Channel Depth: 1.8m Side Slopes: 1/3.1	Assumed property of other creek Reaches	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-3600	Cypress Bowl Road	~ 30.5	13.1	0.04	Channel Width: 1.75m Channel Depth: 1.8m Side Slopes: 1/3.56	Assumed property of other creek Reaches	No Photo		
P-3500	Cypress Bowl Road	~ 118.6	37.1	0.04	Channel Width: 1.75m Channel Depth: 1.8m Side Slopes: 1/3.56	Assumed property of other creek Reaches	No Photo		
P-3400	Cypress Bowl Road	~ 55.3	7.2	0.04	Channel Width: 2.0m Channel Depth: 1.7m Side Slopes: 1/2.64	Assumed property of other creek Reaches	No Photo		
P-3300	Cypress Bowl Road	~ 14.1	63.3	0.04	Channel Width: 2.0m Channel Depth: 1.7m Side Slopes: 1/2.64	Assumed property of other creek Reaches	No Photo		
P-3200	Cypress Bowl Road	40.1	-	0.013 - 0.024	Diameter: 600 mm	Material Unknown		No Photo	No Photo
P-3100	Cypress Bowl Road	~ 150.5	33.2	0.04	Channel Width: 1.75m Channel Depth: 1.8m Side Slopes: 1/3.56	Some boulder lined channels, some channel dispersions on bedrock	No Photo		
P-3000	Cypress Bowl Road	~ 51.3	5.9	0.04	Channel Width: 2.0m Channel Depth: 1.7m Side Slopes: 1/2.64	Bedrock controlled	No Photo		
P-2900	Cypress Bowl Road	~ 25.0	58.8	0.04	Channel Width: 2.0m Channel Depth: 1.7m Side Slopes: 1/2.64	Bedrock controlled	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-2800	Cypress Bowl Road	20.7	-	0.024	Diameter: 750 mm	CSP Culvert		No Photo	No Photo
P-2700	North of Cypress Bowl Road	~ 141.3	40.6	0.038	Channel Width: 1.0m Channel Depth: 3.6m Side Slopes: 1/2.08	Cobble-boulder lined channel	No Photo		
P-2600	Spencer Drive to Rosebery	~ 128.2	17.9	0.0345	Channel Width: 1.2m Channel Depth: 0.9m Side Slopes: Vert	Bedrock Channel			
P-2500	3053 Spencer Close to 3054 Spance Drive	13.1	9	0.013	Diameter: 850 mm	Concrete Culvert			
P-2400	Spencer Court to Spencer Drive	~ 150.1	21.1	0.03	Channel Width: 1.8m Channel Depth: 1.5m Side Slopes: Vert	Bedrock Channel			
P-2300	3049 Spencer Court to 3052 Spencer Court	14.8	8	0.013	Diameter: 750 mm	Concrete Culvert			
P-2200	Upper Levels to Spencer Court	~ 42.7	28.6	0.03	Channel Width: 1.2m Channel Depth: 0.9m Side Slopes: Vert	Bedrock Channel			
P-2150	2930 Deer Ridge Place @ Highway to 3049 Spencer Court @ Highway	74.2	30	0.024	Diameter: 750 mm	CSP Culvert			

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-2100	2930 Deer Ridge Place @ Highway to 3049 Spencer Court @ Highway	74.2	30	0.024	Diameter: 750 mm	CSP Culvert			
P-2000	Deer Ridge to Upper Levels	~ 60.2	30.1	0.035	Channel Width: 1.0m Channel Depth: 1.0m Side Slopes: 1/2	Bedrock Channel	No Photo		
P-1900	Cypress Bowl Road to 2920 Deer Ridge Place	60.8	-	0.013 - 0.024	Inlet Diameter: 900mm Outlet Diameter: 1700mm	CSP Inlet Concrete Outlet			No Photo
P-1800	Cypress Bowl Road	~ 21.4	38.4	0.035	Channel Width: 1.0m Channel Depth: 1.0m Side Slopes: 1/2	Assumed property of other creek Reaches	No Photo		
P-1700	Cypress Bowl Lane (93m passed intersection with Cypress Bowl Road) - crosses road	19.7	-	0.024	Diameter: 900 mm	CSP Culvert			
P-1600	Cypress Bowl Road	~ 175.1	22.8	0.038	Channel Width: 2.0m Channel Depth: 1.13m Side Slopes: 1/4.16	Part Boulder-lined channel, part till exposed in stream bed; dense to very dense with cobble to boulder clasts in sandy matrix	No Photo		
P-1500	Cypress Bowl Road	~ 158.3	37.3	0.035	Channel Width: 3.25m Channel Depth: 1.5m Side Slopes: 1/3.33	Bedrock stream bed, thin colluvial (1m)	No Photo		
P-1400	Cypress Bowl Road	~ 159.6	28.5	0.035	Channel Width: 3.25m Channel Depth: 1.5m Side Slopes: 1/3.33	Assumed property of other creek Reaches	No Photo		

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-1300	Cypress Bowl Road	18.4	-	0.013 - 0.024	Diameter: 600 mm	Material Unknown		No Photo	No Photo
P-1200	North of Cypress Bowl Road	~ 160.8	41	0.035	Channel Width: 3.25m Channel Depth: 1.5m Side Slopes: 1/3.33	Bedrock stream bed, thin colluvial (1m)	No Photo		
P-1100	Cypress Bowl Road	~ 158.0	26	0.035	Channel Width: 3.25m Channel Depth: 1.5m Side Slopes: 1/3.33	Assumed property of other creek Reaches	No Photo		
P-1000	Cypress Bowl Road	18.7	-	0.013 - 0.024	Diameter: 600 mm	Material Unknown		No Photo	No Photo
P-900	Spencer Dr	~ 3.6	44.3	0.03	Channel Width: 1.8m Channel Depth: 1.5m Side Slopes: Vert	Assumed property of other creek Reaches	No Photo		
P-800	3061 Spencer Drive to 3053 Spencer Close	22.1	-	0.013	Diameter: 700 mm	Concrete Culvert			
P-700	Spencer Court to Spencer Drive	~ 128.6	19.7	0.03	Channel Width: 0.6m Channel Depth: 0.6m Side Slopes: Vert	Bedrock and half cut concrete pipe at d/s end			
P-600	3059 Spencer Court to 3056 Spencer Court	14.8	5	0.013	Diameter: 750 mm	Concrete Culvert			

ID	Location	Length (m)	Gradient (%)	Roughness	Parameters	General Description	Photo		
							General Photo	Inlet	Outlet
P-500	Upper Levels to Spencer Court	~ 52.1	23.4	0.05	Channel Width: 0.6m Channel Depth: 1.0m Side Slopes: Vert	Creek eroding into hardpan			
P-400	2940 Deer Ridge Place @ Highway to 3053 Spencer Place @ Highway	59.4	20	0.024	Diameter: 1050 mm	CSP Culvert			
P-300	Deer Ridge to Upper Levels	~ 95.8	22.7	0.045	Channel Width: 1.5m Channel Depth: 1.0m Side Slopes: 1/3.33	Material Unknown	No Photo		
P-200	Cypress Bowl Lane (1st Bend) to 2960 Deer Ridge Place	84.1	-	0.024	Inlet Diameter: 600mm Outlet Diameter: 1350mm	CSP Inlet; Concrete Outlet			
P-100	North of Cypress Bowl Road	~ 46.9	20	0.038	Channel Width: 2.0m Channel Depth: 1.13m Side Slopes: 1/4.16	Assumed property of other creek Reaches	No Photo		



**DISTRICT OF WEST VANCOUVER
INTEGRATED STORMWATER MANAGEMENT PLAN FOR PIPE, WESTMOUNT,
CAVE, TURNER AND GODMAN CREEKS**

APPENDIX H

UNIT SUPPLY COSTS, 2010



Box Culvert / Manhole Manufactured to ASTM C 1433 Standard Pricing for HS-20 Loading : 0.9 – 2.4m Cover Applications Max. Box Length: 2.44m, Extra Charge for Shorter Lengths / Manhole Supplied with Rungs								
Inside Span x Rise Nominal	Weight Kilos Per Metre	Wall Thickness mm	Culvert Price per Lm	Manhole Price per Vm	Standard Lids for Box Manholes		Manhole Bases & Box Endwalls	
					Kilos/ea	Price	Kilos/ea	Price
1800 x 900	2875	178	1,065.00	1,390.00	1400	1,105.00	1225	965.00
1800 x 1200	3150	178	1,390.00	1,825.00	1775	1,395.00	1575	1,240.00
1800 x 1500	3400	178	1,530.00	1,975.00	2100	1,655.00	1875	1,480.00
1800 x 1800	3675	178	1,615.00	2,140.00	2450	1,925.00	2200	1,735.00
2100 x 1200	3950	203	1,650.00	2,060.00	2100	1,655.00	1825	1,435.00
2100 x 1500	4210	203	1,758.00	2,195.00	2245	1,770.00	1950	1,535.00
2100 x 1800	4510	203	1,885.00	2,355.00	2400	1,890.00	2085	1,640.00
2100 x 2100	4850	203	1,960.00	2,450.00	3300	2,600.00	3000	2,365.00
2400 x 1200	4275	203	1,760.00	2,200.00	2375	1,750.00	2100	1,545.00
2400 x 1500	4575	203	1,835.00	2,300.00	2825	2,075.00	2550	1,875.00
2400 x 1800	4875	203	1,975.00	2,475.00	3275	2,410.00	2950	2,170.00
2400 x 2100	5200	203	2,100.00	2,625.00	3725	2,740.00	3375	2,480.00
2400 x 2400	5500	203	2,200.00	2,755.00	4175	3,070.00	3800	2,795.00

Our forms allow for sizes and configurations other than listed, please contact sales office for information. Inserts supplied in box require lifting devices available from sales office, refundable upon return to offices. Standard manhole lids come with 635mm diameter access. Other openings available by upon request. Box joints require Conseal butyl mastic joint sealant; 25mm x 4.5m rolls: \$23.00/ea. Rough cores in box for CB leads, storm pipe, etc: \$18.00 / 25mm (i.e. Ø450mm core = \$270.00)

Box Culvert Continued on Page 7 ...

Langley Concrete Limited Partnership
 20152 Logan Avenue
 Langley, BC V3A 4L8
 Ph: (604) 533-1656 Fax: (604) 533-8191

B.C. Toll Free: 1-800-667-9600

Chilliwack Production Facility
 41893 Connor Road
 Chilliwack, BC V2R 0B6
 Ph: (604) 533-1656 Fax: (604) 823-6022

Lombard Pre-Cast Limited Partnership
 661 Lombard Drive
 Victoria, BC V9C 3Y9
 Ph: (250) 478-9581 Fax: (250) 478-0353



Concrete Storm Sewer Pipe Manufactured to ASTM Specifications
ASTM Class C 14 are Non-Reinforced / ASTM Class C 76 are Reinforced
Classes are Determined by Design Loads
Pipe Conforms to MMCD 33 42 13, 2.2
Gasket Pipe to 90 kPa (13 psl)

Inside Diameter mm	Wall mm	Pipe Weight Kg/m	Pipe Length Metre	Price per Metre with Gasket				Price per Metre Non-Gasket			
				C-14 3	C-76 III	C-76 IV	C-76 V	C-14 3	C-76 III	C-76 IV	C-76 V
250	51	130	2.5	*	*	*	*	*	*	*	*
300	57	190	2.5	38.00	-	52.00	67.00	35.00	-	49.00	64.00
375	57	230	2.5	40.00	-	67.00	73.00	37.00	-	64.00	70.00
450	64	300	2.5	59.00	73.00	87.00	93.00	55.00	69.00	83.00	89.00
525	89	390	2.5	69.00	94.00	94.00	122.00	65.00	90.00	90.00	118.00
600	95	580	2.5	95.00	130.00	156.00	168.00	90.00	125.00	151.00	163.00
675	102	710	2.5	120.00	160.00	174.00	200.00	115.00	155.00	169.00	195.00
750	108	800	2.5	138.00	175.00	213.00	239.00	133.00	170.00	208.00	234.00
900	121	1060	2.5	173.00	237.00	264.00	342.00	166.00	230.00	257.00	335.00
1050	133	1320	2.5	-	347.00	386.00	496.00	-	336.00	375.00	485.00
1200	146	1635	2.5	-	426.00	499.00	607.00	-	415.00	488.00	596.00
1350	140	1850	2.5	-	550.00	646.00	958.00	-	539.00	635.00	947.00
1500	152	2200	2.5	-	677.00	797.00	1,278.00	-	664.00	784.00	1,265.00
1650	165	2625	2.5	-	857.00	1,033.00	*	-	844.00	1,019.00	*
1800	178	3050	2.5	-	919.00	1,152.00	*	-	904.00	1,137.00	*
2100	203	3800	2.5	-	1,565.00	1,772.00	*	-	1,541.00	1,748.00	*
2400	229	4615	3.0	-	1,711.00	1,981.00	*	-	1,678.00	1,948.00	*
3050	280	7025	2.5	-	*	*	*	-	*	*	*

All Prices F.O.B. Our Yard, Cartage Extra to Site. All Prices Subject to Applicable Taxes. *Please Contact Sales Offices for Pricing. Sizes Not Listed May be Available. Min. cover on pipe is 0.3m. For assistance in determining Class of Pipe, please contact sales offices. Pipe Supplied with Lifting Inserts: 900 – 3050, see page 23 for lifting clutch prices. Pipe fittings: wyes, bends, tees, etc. refer to page 3. PVC lined concrete pipe available in: 750 – 3050 diameters, please call for pricing.

B.C. Toll Free: 1-800-667-9600

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 20152 Logan Avenue
 Langley, BC V3A 4L6
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 661 Lombard Drive
 Victoria, BC V8C 3Y9
 Ph: (250) 478-9581 Fax: (250) 478-0353

www.langleyconcretegroup.com

Clive Leung

From: Jeff.lore@wolseleyinc.ca
Sent: Tuesday, February 02, 2010 4:11 PM
To: Clive Leung
Subject: FW: Dayton & Knight - West Vancouver Integrated Storm Water Management Plan: 750MM - 1650MM Weholite
Attachments: Weholite.pdf

Hi Clive,

Here is the information you requested.

Jeff Lore
Sales Representative
Engineered Pipe Group
Wolseley Canada · Industrial Business Group
20175 102 Avenue · Langley · BC · V1M 4B4
T +1 604 513 4300 · F +1 604 513 4301 · C+1 778 772 3474
Jeff.lore@wolseleyinc.ca
www.hdpe.ca

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From: Lore, Jeff [Canada] EPG
Sent: Tuesday, February 02, 2010 1:55 PM
To: cleusng@dayton-knight.com
Subject: Dayton & Knight - West Vancouver Integrated Storm Water Management Plan: 750MM - 1650MM Weholite

Clive,

Here is the budget pricing you requested:

750MM x 50m \$166.23/FT.
900MM x 250m \$286.66/FT.
1050mm x 300m \$321.12/FT.
1200mm x 1500m \$446.15/FT.
1650mm x 450m \$711.66/FT.

Additionally, there will be construction costs associated with joining the pipe together. Roughly, it would take approx. 45 days to put all the pipe together.

Please let me know if you require additional information.

Regards,

Jeff Lore
Sales Representative
Engineered Pipe Group
Wolseley Canada · Industrial Business Group
20175 102 Avenue · Langley · BC · V1M 4B4
T +1 604 513 4300 · F +1 604 513 4301 · C+1 778 772 3474
Jeff.lore@wolseleyinc.ca
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2/10/2010

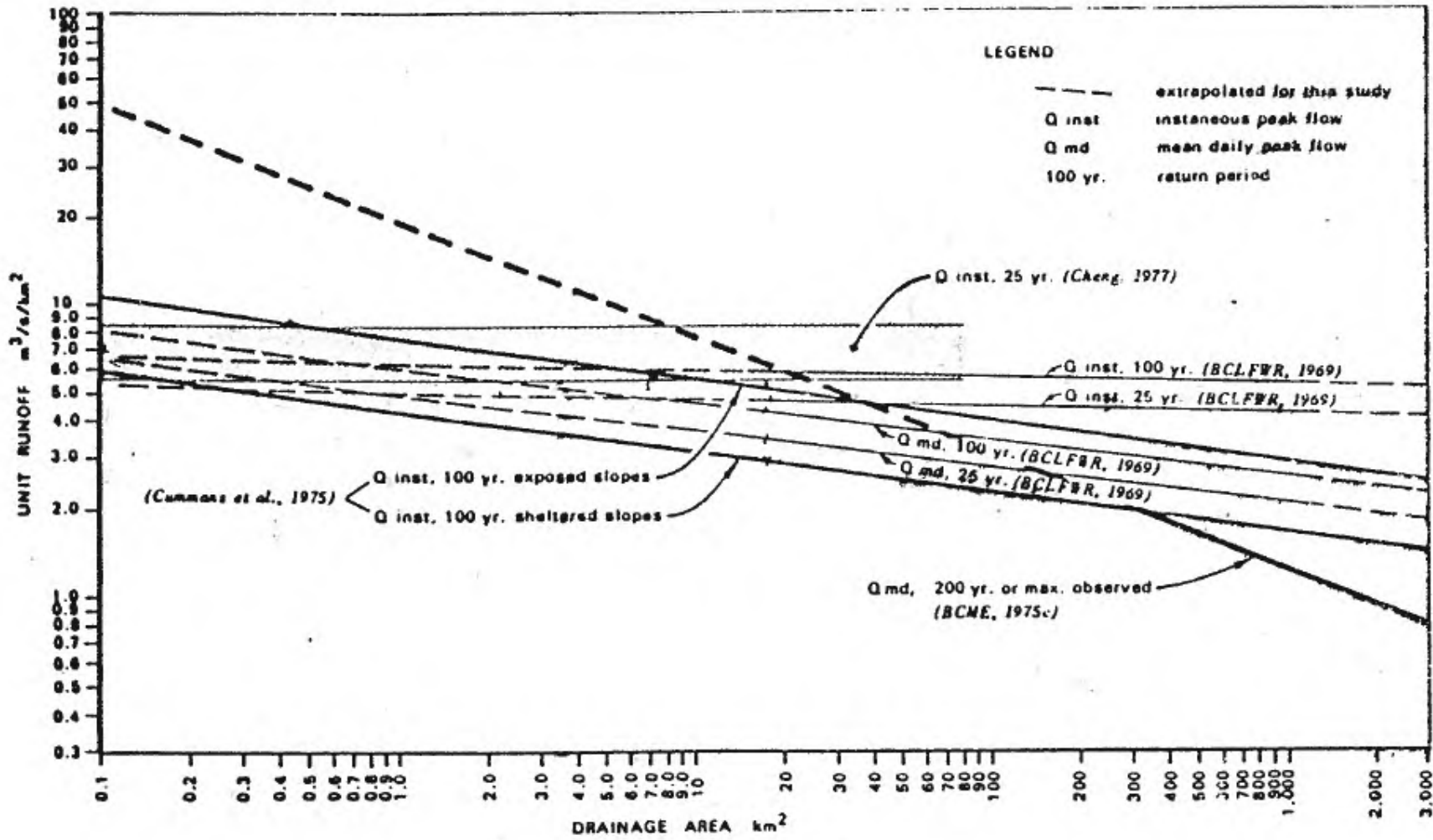


**DISTRICT OF WEST VANCOUVER
INTEGRATED STORMWATER MANAGEMENT PLAN FOR PIPE, WESTMOUNT,
CAVE, TURNER AND GODMAN CREEKS**

APPENDIX I

UNIT RUNOFF PREDICTED BY MAXIMUM OBSERVED RUNOFF RATES

DESIGN FLOOD ANALYSIS



UNIT RUNOFF PREDICTED BY
REGIONAL FLOOD FREQUENCY ANALYSIS

FIGURE A.2





**DISTRICT OF WEST VANCOUVER
INTEGRATED STORMWATER MANAGEMENT PLAN FOR PIPE, WESTMOUNT,
CAVE, TURNER AND GODMAN CREEKS**

APPENDIX J

CREEK CHANNEL ASSESSMENT

Table J-1: CREEK CHANNEL ASSESSMENT - Pre-development Flow Summary

Channel Reach	Model Parameters						Q ₁₀ ¹ (m ³ /s)	Q ₂₅ ¹ (m ³ /s)	Q ₅₀ ¹ (m ³ /s)	Q ₁₀₀ ¹ (m ³ /s)	Q ₂₀₀ ¹ (m ³ /s)
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %					
Godman Creek											
Godman Creek - Marine to Outfall	G-3900	1.5	0	1.5	0.013	17.2	7.2	10.6	12.5	14.9	17.0
Godman Creek - Marine to Outfall	G-3800	1.6	0	1.5	0.045	27.3	7.2	10.6	12.4	14.9	17.0
Godman Creek - Rose to Marine	G-3600	1.8	0	2.4	0.025	11.7	7.2	10.5	12.4	14.9	17.0
Godman Creek - Rose to Marine	G-3500	3	0	1	0.025	2.8	7.2	10.5	12.4	14.9	17.0
Godman Creek - BC Railway to Rose	G-3300	2.4	0	1.5	0.013	18.4	7.2	10.5	12.4	14.9	17.0
Godman Creek - BC Railway to Rose	G-3200	0.9	1.25	0.75	0.045	25.7	7.2	10.5	12.4	14.9	17.0
Godman Creek - Sharon to BC Railway	G-3000	1	1	1.7	0.04	3.1	7.2	10.5	12.4	14.9	16.9
Godman Creek - Bayridge to Sharon	G-2800	2.1	0	0.7	0.045	6.3	7.2	10.5	12.4	14.9	17.0
Godman Creek - Bayridge to Sharon	G-2700	2.4	0	3	0.035	13.1	7.2	10.5	12.4	14.9	17.0
Godman Creek - Viewridge to Bayridge	G-2500	2.1	0.4	4.5	0.052	15.6	6.8	10.0	12.0	14.3	16.3
Godman Creek - Viewridge to Bayridge	G-2400	5	0	1.2	0.03	42.7	6.8	10.0	12.0	14.3	16.3
Godman Creek - Viewridge to Bayridge	G-2300	1.8	0	1.2	0.03	8.2	6.8	10.0	12.0	14.3	16.3
Godman Creek - Westridge to Viewridge	G-2100	3	0	1	0.048	5.5	6.5	9.7	11.7	13.9	16.5
Godman Creek - Upper Levels to Westridge	G-1900	2.4	0	0.9	0.03	12.9	6.5	9.6	11.6	13.8	16.4
Godman Creek - Upper Levels to Westridge	G-1800	2.5	0	0.4	0.0455	7.4	6.5	9.6	11.6	13.8	16.4
Godman Creek - Upper Levels to Westridge	G-1700	1.3	0	0.6	0.05	38.2	6.5	9.6	11.6	13.8	16.4
Godman Creek - Upper Levels	G-1500	3.6	0	2	0.03	64.2	6.1	9.0	11.0	13.1	15.5
Godman Creek - North of Upper Levels	G-1300	3	1.33	2.875	0.04	23.5	6.2	9.3	11.9	14.3	16.5
Godman Creek - North of Upper Levels	G-1200	2.25	3.11	1	0.064	6.7	6.2	9.3	11.9	14.3	16.6
Godman Creek - North of Upper Levels	G-1000	0.8	3.75	1	0.022	4.5	0.0	0.0	0.0	0.0	0.0
Godman Creek - North of Upper Levels	G-900	1	1.33	2.05	0.052	23.3	5.6	8.5	10.7	12.7	14.6
Godman Creek - North of Upper Levels	G-800	1	2	1	0.033	23.4	0.0	0.0	0.0	0.0	0.0
Godman Creek - North of Upper Levels	G-700	1	2	1	0.033	40	0.0	0.0	0.0	0.0	0.0
Godman Creek - North of Upper Levels	G-600	1	2	1	0.033	19.7	0.0	0.0	0.0	0.0	0.0
Godman Creek - North of Upper Levels	G-500	1	2	1	0.033	22.7	5.7	8.6	10.8	12.8	14.7
Godman Creek - North of Upper Levels	G-400	1	2	1	0.033	30.1	5.7	8.6	10.8	12.9	14.8
Godman Creek - North of Upper Levels	G-300	1	2	1	0.033	16.8	3.6	5.6	6.8	7.9	8.9
Godman Creek - North of Upper Levels	G-200	1	2	1	0.033	25.9	3.7	5.7	6.9	8.0	9.0
Godman Creek - North of Upper Levels	G-100	1	2	1	0.033	14.7	3.7	5.8	7.0	8.0	9.0
Turner Creek											
Turner Creek - Marine to Outfall	T-3500	1.8	0	1.5	0.03	25.7	2.4	3.2	3.8	4.1	4.7
Turner Creek - Hillcrest to Oxley	T-3300	1.3	0	0.8	0.048	15.5	2.4	3.2	3.8	4.1	4.6
Turner Creek - Mathers to Hillcrest	T-3000	2.1	1	0.9	0.04	15.2	2.1	2.9	3.4	3.6	4.1
Turner Creek - Westmount to Mathers	T-2800	2.4	0.714	2.1	0.04	26.7	2.0	2.8	3.2	3.4	3.9
Turner Creek - Westmount	T-2700	1.2	0	0.9	0.03	52.5	2.0	2.8	3.2	3.4	3.9
Turner Creek - Cedaridge to Westmount	T-2600	1.2	0	0.9	0.035	4.8	2.0	2.8	3.2	3.4	3.9

Channel Reach	Model Parameters						Q ₁₀ ¹ (m ³ /s)	Q ₂₅ ¹ (m ³ /s)	Q ₅₀ ¹ (m ³ /s)	Q ₁₀₀ ¹ (m ³ /s)	Q ₂₀₀ ¹ (m ³ /s)
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %					
Turner Creek - Cedaridge to Westmount	T-2400	1	0	0.8	0.035	0.4	2.0	2.8	3.2	3.4	3.9
Turner Creek - Westmount to Cedaridge	T-2200	1.8	0	0.9	0.038	5.4	2.0	2.6	2.9	3.3	4.0
Turner Creek - Southridge to Westmount	T-2000	0.6	0.666	4.5	0.043	2.4	1.9	2.5	2.8	3.2	3.9
Turner Creek - Southridge	T-1800	0.9	1	0.8	0.03	6.3	1.9	2.5	2.8	3.2	3.9
Turner Creek - Westridge	T-1600	1.2	1	1.2	0.03	2.7	1.8	2.3	2.6	3.0	3.7
Turner Creek - Westridge	T-1400	1.8	0	1.2	0.05	1.9	1.8	2.2	2.5	3.2	4.0
Turner Creek - Cypress Bowl Road	T-800	1	2.08	4	0.05	18.8	0.3	0.5	0.6	0.7	0.8
Turner Creek - Cypress Bowl Road to Upper Levels	T-700	1	2.66	4	0.04	33.3	1.7	2.1	2.3	2.6	3.4
Turner Creek - Cypress Bowl Road to Upper Levels	T-600	1	2.66	4	0.04	58	1.7	2.1	2.3	2.6	3.4
Turner Creek - Cypress Bowl Road to Upper Levels	T-500	1	3.25	1.825	0.04	19.4	1.6	1.9	2.2	2.4	3.2
Turner Creek - Cypress Bowl Road to Upper Levels	T-400	1	2.08	4	0.05	10.6	1.6	2.0	2.2	2.4	3.2
Turner Creek - Cypress Bowl Road	T-200	1	2.08	4	0.05	4.4	1.2	1.5	1.8	2.3	2.7
Cave Creek											
Cave Creek - Marine to Outfall	C-4100	2.1	0	1.5	0.03	19.5	3.8	5.1	6.4	7.6	8.6
Cave Creek - BC Railway to Marine	C-3900	1.2	0	0.9	0.03	50.4	3.8	5.1	6.4	7.6	8.5
Cave Creek - Mathers to BC Railway	C-3700	2.4	0	1.5	0.037	19.4	3.8	5.1	6.4	7.6	8.5
Cave Creek - Westmount to Mathers	C-3500	2.4	0	1.5	0.05	37.4	3.8	5.1	6.4	7.5	8.5
Cave Creek - Westmount to Mathers	C-3400	2	0	1	0.039	7.6	3.8	5.1	6.4	7.5	8.5
Cave Creek - Westmount to Mathers	C-3300	2	0	1	0.0494	4	3.8	5.1	6.4	7.5	8.5
Cave Creek - Westmount to Mathers	C-3200	3.5	0	0.4	0.0345	12.5	3.8	5.1	6.4	7.6	8.5
Cave Creek - Wentworth to Upper Levels	C-3000	2	4	1	0.035	50.8	3.2	4.1	5.2	6.0	6.8
Cave Creek - Cypress Bowl Road to Wentworth	C-2800	4.5	2.66	1.35	0.035	17.6	1.7	2.0	2.8	3.6	4.1
Cave Creek - Cypress Bowl Road to Wentworth	C-2700	4.5	2.66	1.35	0.035	39.2	1.7	2.0	2.8	3.6	4.1
Cave Creek - Cypress Bowl Road to Wentworth	C-2600	4.5	2.66	1.35	0.035	49.1	1.7	2.0	2.8	3.6	4.1
Cave Creek - Cypress Bowl Road	C-2400	2	2.36	2.95	0.03	91.2	1.2	1.3	2.0	2.7	3.0
Cave Creek - Cypress Bowl Road	C-2300	2	2.36	2.95	0.038	36.8	1.2	1.3	2.0	2.7	3.0
Cave Creek - Cypress Bowl Road	C-2200	1.5	1.55	3.85	0.038	12.6	1.2	1.3	2.0	2.7	3.0
Cave Creek - Cypress Bowl Road	C-2100	1.5	1.55	3.85	0.038	41.2	1.2	1.3	2.0	2.7	3.0
Cave Creek - North of Cypress Bowl Road	C-1900	1	4.16	1.425	0.045	32.3	1.4	2.1	2.6	3.1	3.5
Cave Creek - Cypress Bowl Road to Wentworth	C-1800	1.5	1	2	0.04	35.7	1.6	2.2	2.9	3.3	3.7
Cave Creek - Cypress Bowl Road to Wentworth	C-1700	2	1.88	6.525	0.038	20.5	1.6	2.2	2.9	3.3	3.7
Cave Creek - Cypress Bowl Road to Wentworth	C-1600	1.5	1.33	3	0.035	27.3	1.6	2.2	2.9	3.3	3.7
Cave Creek - Cypress Bowl Road to Wentworth	C-1500	1.5	1.33	3	0.035	53.1	1.6	2.2	2.9	3.3	3.7
Cave Creek - Cypress Bowl Road	C-1300	2	1.74	4.55	0.035	60	1.2	1.6	2.2	2.5	2.8
Cave Creek - Cypress Bowl Road	C-1200	1.5	1.93	2.05	0.035	23.8	1.2	1.6	2.2	2.5	2.8
Cave Creek - Cypress Bowl Road	C-1100	1	2.66	1.875	0.045	19	1.2	1.6	2.2	2.5	2.8
Cave Creek - Cypress Bowl Road	C-1000	1	2.66	1.875	0.045	61.2	1.2	1.6	2.2	2.5	2.8
Cave Creek - North of Cypress Bowl Road	C-800	1.5	3.1	2.15	0.04	21.3	1.1	1.8	2.1	2.4	2.6
Cave Creek - North of Cypress Bowl Road	C-700	1.5	3.1	2.15	0.04	96.1	1.1	1.8	2.1	2.4	2.6
Cave Creek - North of Cypress Bowl Road	C-600	1	2.5	2.9	0.04	32	1.1	1.8	2.1	2.4	2.6

Channel Reach	Model Parameters						Q ₁₀ ¹ (m ³ /s)	Q ₂₅ ¹ (m ³ /s)	Q ₅₀ ¹ (m ³ /s)	Q ₁₀₀ ¹ (m ³ /s)	Q ₂₀₀ ¹ (m ³ /s)
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %					
Cave Creek - North of Cypress Bowl Road	C-500	0.6	2.42	1.65	0.04	35.1	1.1	1.8	2.1	2.4	2.7
Cave Creek - Cypress Bowl Road	C-400	2	1.77	4.55	0.035	54.8	0.3	0.5	0.6	0.7	0.8
Cave Creek - Cypress Bowl Road	C-300	1.5	1.93	2.05	0.035	22	0.3	0.5	0.6	0.8	0.8
Cave Creek - Cypress Bowl Road	C-200	1	2.66	1.5	0.045	49.2	0.4	0.5	0.6	0.8	0.8
Westmount Creek											
Westmount Creek - BC Railway to Marine	W-3800	2.3	0	0.6	0.03	19	3.9	5.0	6.7	7.7	9.1
Westmount Creek - BC Railway to Marine	W-3600	2.4	0	1.1	0.025	6.1	3.9	5.0	6.7	7.7	9.1
Westmount Creek - Mathers to BC Railway	W-3400	1.5	0	0.9	0.046	20	3.8	5.0	6.7	7.6	9.0
Westmount Creek - Thompson to Mathers	W-3200	2.1	0	0.5	0.03	15.4	3.8	4.9	6.5	7.5	8.9
Westmount Creek - Thompson to Mathers	W-3100	2.1	0	1.2	0.03	24.4	3.8	4.9	6.5	7.5	8.9
Westmount Creek - Westmount to Thompson	W-2900	2.1	0	1.5	0.03	20.6	3.7	4.9	6.5	7.4	8.8
Westmount Creek - Benbow to Westmount	W-2700	1.8	0	1.2	0.03	12.7	2.8	4.8	5.1	5.8	7.2
Westmount Creek - Upper Levels to Benbow	W-2500	2.1	0	1.5	0.035	28	2.7	4.0	5.0	5.8	7.1
Westmount Creek - Deer Ridge to Upper Levels	W-2300	2	2.02	4.45	0.035	11.4	2.6	4.0	4.8	5.5	6.9
Westmount Creek - Deer Ridge to Upper Levels	W-2200	2	2.02	4.45	0.035	23.8	2.1	3.8	4.1	4.6	6.0
Westmount Creek - Cypress Bowl Road to Deer Ridge	W-2100	16	2.25	2.2	0.04	28.4	2.1	3.3	4.2	4.7	6.1
Westmount Creek - Cypress Bowl Road	W-1900	7	2	2.375	0.04	37.4	1.5	3.3	3.4	4.2	5.2
Westmount Creek - Cypress Bowl Road	W-1800	1.5	2.74	1.795	0.035	38.3	1.5	2.8	3.4	4.2	5.2
Westmount Creek - Cypress Bowl Road	W-1600	2	3.33	2	0.04	36.5	2.6	2.8	4.2	4.8	5.3
Westmount Creek - Cypress Bowl Road	W-1400	2	2.94	1	0.035	18.1	1.0	3.6	1.3	1.6	2.1
Westmount Creek - Cypress Bowl Road	W-1300	1.5	0.66	1	0.034	40.6	1.0	1.2	1.3	1.6	2.1
Westmount Creek - North of Cypress Bowl Road	W-1100	2	5.81	2.625	0.04	38.3	0.9	1.2	1.7	1.9	2.1
Westmount Creek - North of Cypress Bowl Road	W-1000	2	3.33	2.7	0.048	38.5	0.9	1.5	1.7	1.9	2.1
Westmount Creek - North of Cypress Bowl Road	W-900	1	4.29	2.85	0.03	8.5	0.9	1.5	1.7	1.9	2.1
Westmount Creek -	W-700	-	-	-	-	1.6		1.5	1.1		
Westmount Creek - Deer Ridge to Upper Levels	W-600	1.5	1.25	1.5	0.035	12.9	0.6	0.9	1.1	1.2	1.4
Westmount Creek - Deer Ridge to Upper Levels	W-500	1.5	1.25	1.5	0.035	28.6	0.6	0.9	1.1	1.2	1.4
Westmount Creek - Cypress Bowl Road to Deer Ridge	W-300	1	1.25	2	0.035	21.2	0.4	0.5	0.7	0.8	0.9
Westmount Creek - Cypress Bowl Road to Deer Ridge	W-200	1	1.25	2	0.035	36.4	0.4	0.5	0.7	0.8	0.9
Pipe Creek											
Pipe Creek - Procter to Outfall	P-10600	1.5	0	2	0.03	9.7	7.2	10.7	13.0	15.7	17.5
Pipe Creek - Marine to Procter	P-10400	2	0	2.5	0.03	15.1	7.2	10.7	13.0	15.8	17.6
Pipe Creek - Mathers to Marine	P-10200	2.5	1	0.75	0.045	9	7.2	10.7	13.0	15.7	17.5
Pipe Creek - Rosebery to Mathers	P-10000	5	0	1	0.04	9.3	7.3	10.9	13.3	15.6	17.3
Pipe Creek - Rosebery to Mathers	P-9900	2.7	0	1.85	0.04	12.7	3.5	5.6	6.6	7.2	7.6
Pipe Creek - Spencer Pl to Rosebery	P-9700	2.1	0	1	0.04	15.4	3.5	5.6	6.6	7.1	7.5
Pipe Creek - Spencer Dr to Spencer Pl	P-9500	3	0	1.5	0.0455	20	3.5	5.5	6.4	6.8	7.3
Pipe Creek - Spencer Ct to Spencer Dr	P-9300	1.8	0	1.2	0.045	15.6	3.4	5.5	6.4	6.7	7.3
Pipe Creek - Upper Levels to Spencer Ct	P-9100	3	0	1.2	0.035	20.1	3.4	5.4	6.4	6.5	7.3
Pipe Creek - Deer Ridge to Upper Levels	P-8900	3	1.62	2.6	0.045	26.2	3.4	5.4	6.3	6.4	7.2

Channel Reach	Model Parameters						Q ₁₀ ¹ (m ³ /s)	Q ₂₅ ¹ (m ³ /s)	Q ₅₀ ¹ (m ³ /s)	Q ₁₀₀ ¹ (m ³ /s)	Q ₂₀₀ ¹ (m ³ /s)
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %					
Pipe Creek - Cypress Bowl Road	P-8700	2.5	1.86	4	0.039	28.6	1.0	1.4	1.7	2.1	2.4
Pipe Creek - Cypress Bowl Road	P-8600	2.5	1.86	4	0.039	38.3	1.0	1.4	1.7	2.1	2.4
Pipe Creek - Cypress Bowl Road	P-8500	2.5	1.86	4	0.039	51.4	1.0	1.4	1.7	2.1	2.4
Pipe Creek - Cypress Bowl Road	P-8400	2.5	1.86	4	0.039	20.2	1.0	1.4	1.7	2.1	2.4
Pipe Creek - North of Cypress Bowl Road	P-8200	2.5	1.86	4	0.039	15.3	0.9	1.2	1.4	1.7	2.0
Pipe Creek - North of Cypress Bowl Road	P-8100	2	2.58	3.625	0.04	34.3	0.9	1.2	1.4	1.7	2.0
Pipe Creek - Cypress Bowl Road	P-8000	2.5	1.86	4	0.039	23.7	2.6	4.2	5.0	5.5	6.1
Pipe Creek - Cypress Bowl Road	P-7900	9	2	3	0.045	43	2.3	3.7	4.4	4.8	5.3
Pipe Creek - Cypress Bowl Road	P-7700	2	2.58	3.625	0.04	54.6	2.3	3.7	4.4	4.9	5.3
Pipe Creek - Cypress Bowl Road	P-7600	2	2.92	1.9	0.04	22.2	2.3	3.7	4.4	4.9	5.3
Pipe Creek - Cypress Bowl Road	P-7500	2	3.17	4.9	0.035	36.2	2.3	3.8	4.4	4.9	5.3
Pipe Creek - Cypress Bowl Road	P-7400	10	1	1	0.04	11.9	2.3	3.8	4.4	4.9	5.4
Pipe Creek - Cypress Bowl Road	P-7300	2	3.5	2.625	0.035	51	2.3	3.8	4.4	4.9	5.4
Pipe Creek - Cypress Bowl Road	P-7100	1.5	3	1.875	0.035	38	1.4	2.2	2.5	2.7	2.8
Pipe Creek - Cypress Bowl Road	P-7000	1.5	2.5	2.52	0.045	29.6	1.4	2.2	2.5	2.7	2.8
Pipe Creek - Cypress Bowl Road	P-6900	2	2.25	5.45	0.035	34.6	1.4	2.2	2.5	2.7	2.8
Pipe Creek - Cypress Bowl Road	P-6800	1.5	3.25	3.35	0.045	20.1	1.4	2.2	2.5	2.7	2.8
Pipe Creek - Cypress Bowl Road	P-6700	1.3	1.44	2.475	0.04	29	1.4	2.3	2.6	2.7	2.8
Pipe Creek - North of Cypress Bowl Road	P-6500	0.8	2.28	2.05	0.042	20.9	1.0	1.7	2.0	2.2	2.4
Pipe Creek - Cypress Bowl Road	P-6400	2.5	1.86	7.925	0.039	21.7	0.2	0.3	0.3	0.4	0.4
Pipe Creek - Cypress Bowl Road	P-6300	2.5	1.86	4	0.039	62.1	0.2	0.3	0.3	0.4	0.4
Pipe Creek - Cypress Bowl Road	P-6200	2.5	1.86	4	0.039	34.3	0.2	0.3	0.3	0.4	0.4
Pipe Creek - North of Cypress Bowl Road	P-6000	2	2.58	3.625	0.04	59.7	0.2	0.3	0.3	0.4	0.4
Pipe Creek - Rosebery to Mathers	P-5900	2.7	0	1.5	0.038	16.9	4.0	5.8	6.9	8.7	10.1
Pipe Creek - Spencer Dr to Rosebery	P-5700	0.9	0.55	0.9	0.043	7.4	4.0	5.7	6.8	8.6	9.9
Pipe Creek - Spencer Dr to Rosebery	P-5600	2.4	1	0.6	0.046	15.7	2.6	3.8	4.6	5.9	6.9
Pipe Creek - Gibsy to Spencer Dr	P-5400	2	0	0.6	0.025	16.5	2.5	3.7	4.4	5.6	6.5
Pipe Creek - Gibsy to Spencer Dr	P-5200	1.9	0	0.9	0.03	16	2.4	3.6	4.4	5.6	6.5
Pipe Creek - Upper Levels to Gibsy	P-5000	1.2	1	3	0.045	29.6	2.4	3.6	4.4	5.6	6.5
Pipe Creek - Cypress Bowl Road to Upper Levels	P-4800	1	3.33	1	0.038	21.8	2.1	3.2	3.8	4.9	5.6
Pipe Creek - Cypress Bowl Road	P-4600	1.5	3.1	1.8	0.038	16.2	2.0	3.1	3.6	4.6	5.3
Pipe Creek - Cypress Bowl Road	P-4500	1.5	3.1	1.8	0.038	29.4	0.7	1.1	1.4	1.6	1.8
Pipe Creek - Cypress Bowl Road	P-4300	1.5	3.1	1.8	0.038	18.1	0.6	0.9	1.1	1.3	1.5
Pipe Creek - Cypress Bowl Road	P-4100	1.5	3.1	1.8	0.038	14.9	0.4	0.6	0.8	0.9	1.0
Pipe Creek - Cypress Bowl Road	P-4000	1.75	3.56	1.8	0.04	48.7	0.4	0.7	0.8	0.9	1.0
Pipe Creek - Cypress Bowl Road	P-3900	2	2.64	1.7	0.04	28.9	0.4	0.7	0.8	0.9	1.0
Pipe Creek - Cypress Bowl Road	P-3700	1.5	3.1	1.8	0.038	28.7	1.3	2.1	2.5	3.1	3.6
Pipe Creek - Cypress Bowl Road	P-3600	1.75	3.56	1.8	0.04	13.1	0.1	0.2	0.2	0.3	0.3
Pipe Creek - Cypress Bowl Road	P-3500	1.75	3.56	1.8	0.04	37.1	0.1	0.2	0.2	0.3	0.3
Pipe Creek - Cypress Bowl Road	P-3400	2	2.64	1.7	0.04	7.2	0.1	0.2	0.2	0.3	0.3

Channel Reach	Model Parameters						Q ₁₀ ¹ (m ³ /s)	Q ₂₅ ¹ (m ³ /s)	Q ₅₀ ¹ (m ³ /s)	Q ₁₀₀ ¹ (m ³ /s)	Q ₂₀₀ ¹ (m ³ /s)
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %					
Pipe Creek - Cypress Bowl Road	P-3300	2	2.64	1.7	0.04	63.3	0.1	0.2	0.2	0.3	0.3
Pipe Creek - Cypress Bowl Road	P-3100	1.75	3.56	1.8	0.04	33.2	1.2	1.9	2.3	2.8	3.2
Pipe Creek - Cypress Bowl Road	P-3000	2	2.64	1.7	0.04	5.9	1.2	1.9	2.3	2.8	3.3
Pipe Creek - Cypress Bowl Road	P-2900	2	2.64	1.7	0.04	58.8	1.2	1.9	2.3	2.8	3.3
Pipe Creek - North of Cypress Bowl Road	P-2700	1	2.08	3.6	0.038	40.6	1.4	1.9	2.3	2.8	3.3
Pipe Creek - Spencer Dr to Rosebery	P-2600	1.2	0	0.9	0.0345	17.9	1.5	2.2	2.6	2.9	3.1
Pipe Creek - Spencer Ct to Spencer Dr	P-2400	1.8	0	1.5	0.03	21.1	1.1	1.5	1.8	2.0	2.3
Pipe Creek - Upper Levels to Spencer Ct	P-2200	1.2	0	0.9	0.03	28.6	1.0	1.3	1.5	1.7	2.1
Pipe Creek - Deer Ridge to Upper Levels	P-2000	1	2	1	0.035	30.1	0.9	1.2	1.4	1.6	2.0
Pipe Creek - Cypress Bowl Road	P-1800	1	2	1	0.035	38.4	0.9	1.2	1.3	1.5	2.0
Pipe Creek - Cypress Bowl Road	P-1600	2	4.16	1.125	0.038	22.8	0.9	1.2	1.4	1.6	2.1
Pipe Creek - Cypress Bowl Road	P-1500	3.25	3.33	1.5	0.035	37.3	1.0	1.2	1.4	1.6	2.1
Pipe Creek - Cypress Bowl Road	P-1400	3.25	3.33	1.5	0.035	28.5	0.7	0.8	0.9	1.2	1.6
Pipe Creek - North of Cypress Bowl Road	P-1200	3.25	3.33	1.5	0.035	41	0.7	1.1	1.4	1.6	1.9
Pipe Creek - Cypress Bowl Road	P-1100	3.25	3.33	1.5	0.035	26	0.1	0.2	0.2	0.2	0.2
Pipe Creek - Spencer Dr	P-900	1.8	0	1.5	0.03	44.3	0.4	0.6	0.7	0.8	0.8
Pipe Creek - Spencer Ct to Spencer Dr	P-700	0.6	0	0.6	0.03	19.7	0.4	0.6	0.7	0.8	0.8
Pipe Creek - Upper Levels to Spencer Ct	P-500	0.6	0	1	0.05	23.4	0.3	0.4	0.5	0.6	0.6
Pipe Creek - Deer Ridge to Upper Levels	P-300	1.5	3.33	1	0.045	22.7	0.2	0.3	0.4	0.5	0.5
Pipe Creek - North of Cypress Bowl Road	P-100	2	4.16	1.125	0.038	20	0.1	0.2	0.2	0.3	0.3

Notes:

Shading indicates where water levels exceed top of bank in simulated cross section

¹ Q₁₀, Q₂₅, Q₅₀, Q₁₀₀, and Q₂₀₀ are expressed as full design flows with no diversion

² T-200 modelled as a channel. Field confirmations have since confirmed that this is a 600 mm Ø culvert through the Works Yard site. No significant effects in the model results due to discrepancy.

Table J-2: CREEK CHANNEL ASSESSMENT - Diversion Scenario Flow Summary

Channel Reach	Model Parameters						Q ₂₀₀ ¹ (m ³ /s)	Q ₂₀₀ ² (m ³ /s)	Q ₂₀₀ ³ (m ³ /s)	Q ₂₀₀ ⁴ (m ³ /s)
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %				
Godman Creek										
Godman Creek - Marine to Outfall	G-3900	1.5	0	1.5	0.013	17.2	8.0	8.7	9.3	15.3
Godman Creek - Marine to Outfall	G-3800	1.6	0	1.5	0.045	27.3	8.0	8.7	9.3	15.3
Godman Creek - Rose to Marine	G-3600	1.8	0	2.4	0.025	11.7	8.0	8.7	9.2	15.2
Godman Creek - Rose to Marine	G-3500	3	0	1	0.025	2.8	8.0	8.7	9.2	15.3
Godman Creek - BC Railway to Rose	G-3300	2.4	0	1.5	0.013	18.4	8.0	8.6	9.2	15.2
Godman Creek - BC Railway to Rose	G-3200	0.9	1.25	0.75	0.045	25.7	8.0	8.6	9.2	15.2
Godman Creek - Sharon to BC Railway	G-3000	1	1	1.7	0.04	3.1	7.9	8.6	9.1	15.1
Godman Creek - Bayridge to Sharon	G-2800	2.1	0	0.7	0.045	6.3	7.9	8.6	9.1	15.2
Godman Creek - Bayridge to Sharon	G-2700	2.4	0	3	0.035	13.1	7.9	8.6	9.1	15.2
Godman Creek - Viewridge to Bayridge	G-2500	2.1	0.4	4.5	0.052	15.6	6.6	7.2	7.5	14.3
Godman Creek - Viewridge to Bayridge	G-2400	5	0	1.2	0.03	42.7	6.6	7.3	7.5	14.2
Godman Creek - Viewridge to Bayridge	G-2300	1.8	0	1.2	0.03	8.2	6.6	7.3	7.5	14.2
Godman Creek - Westridge to Viewridge	G-2100	3	0	1	0.048	5.5	5.7	6.3	6.4	13.4
Godman Creek - Upper Levels to Westridge	G-1900	2.4	0	0.9	0.03	12.9	5.4	6.1	6.2	13.2
Godman Creek - Upper Levels to Westridge	G-1800	2.5	0	0.4	0.0455	7.4	5.4	6.1	6.2	13.2
Godman Creek - Upper Levels to Westridge	G-1700	1.3	0	0.6	0.05	38.2	5.4	6.1	6.2	13.2
Godman Creek - Upper Levels	G-1500	3.6	0	2	0.03	64.2	4.2	4.8	4.8	12.0
Godman Creek - North of Upper Levels	G-1300	3	1.33	2.875	0.04	23.5	4.2	4.8	4.8	12.6
Godman Creek - North of Upper Levels	G-1200	2.25	3.11	1	0.064	6.7	4.2	4.8	4.8	12.6
Godman Creek - North of Upper Levels	G-1000	0.8	3.75	1	0.022	4.5	0.0	0.0	0.0	0.0
Godman Creek - North of Upper Levels	G-900	1	1.33	2.05	0.052	23.3	14.6	15.4	15.4	15.4
Godman Creek - North of Upper Levels	G-800	1	2	1	0.033	23.4	0.0	0.0	0.0	0.0
Godman Creek - North of Upper Levels	G-700	1	2	1	0.033	40	0.0	0.0	0.0	0.0
Godman Creek - North of Upper Levels	G-600	1	2	1	0.033	19.7	0.0	0.0	0.0	0.0
Godman Creek - North of Upper Levels	G-500	1	2	1	0.033	22.7	14.7	15.5	15.5	15.5
Godman Creek - North of Upper Levels	G-400	1	2	1	0.033	30.1	14.8	15.5	15.5	15.5
Godman Creek - North of Upper Levels	G-300	1	2	1	0.033	16.8	8.9	8.9	8.9	8.9
Godman Creek - North of Upper Levels	G-200	1	2	1	0.033	25.9	9.0	9.0	9.0	9.0
Godman Creek - North of Upper Levels	G-100	1	2	1	0.033	14.7	9.0	9.0	9.0	9.0
Turner Creek										
Turner Creek - Marine to Outfall	T-3500	1.8	0	1.5	0.03	25.7	3.5	3.5	4.0	4.5
Turner Creek - Hillcrest to Oxley	T-3300	1.3	0	0.8	0.048	15.5	3.4	3.4	3.9	4.4
Turner Creek - Mathers to Hillcrest	T-3000	2.1	1	0.9	0.04	15.2	2.9	2.9	3.1	3.8
Turner Creek - Westmount to Mathers	T-2800	2.4	0.714	2.1	0.04	26.7	2.5	2.5	2.6	3.6
Turner Creek - Westmount	T-2700	1.2	0	0.9	0.03	52.5	2.5	2.5	2.6	3.6
Turner Creek - Cedaridge to Westmount	T-2600	1.2	0	0.9	0.035	4.8	2.5	2.5	2.6	3.6

Channel Reach	Model Parameters						Q ₂₀₀ ¹ (m ³ /s)	Q ₂₀₀ ² (m ³ /s)	Q ₂₀₀ ³ (m ³ /s)	Q ₂₀₀ ⁴ (m ³ /s)
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %				
Turner Creek - Cedaridge to Westmount	T-2400	1	0	0.8	0.035	0.4	2.5	2.5	2.6	3.6
Turner Creek - Westmount to Cedaridge	T-2200	1.8	0	0.9	0.038	5.4	2.3	2.3	2.3	3.5
Turner Creek - Southridge to Westmount	T-2000	0.6	0.666	4.5	0.043	2.4	2.2	2.2	2.2	3.3
Turner Creek - Southridge	T-1800	0.9	1	0.8	0.03	6.3	2.2	2.2	2.2	3.3
Turner Creek - Westridge	T-1600	1.2	1	1.2	0.03	2.7	1.8	1.8	1.9	3.1
Turner Creek - Westridge	T-1400	1.8	0	1.2	0.05	1.9	1.7	1.7	1.7	3.3
Turner Creek - Cypress Bowl Road	T-800	1	2.08	4	0.05	18.8	0.8	0.8	0.8	0.8
Turner Creek - Cypress Bowl Road to Upper Levels	T-700	1	2.66	4	0.04	33.3	1.4	1.4	1.4	2.6
Turner Creek - Cypress Bowl Road to Upper Levels	T-600	1	2.66	4	0.04	58	1.4	1.4	1.4	2.6
Turner Creek - Cypress Bowl Road to Upper Levels	T-500	1	3.25	1.825	0.04	19.4	1.2	1.2	1.2	2.4
Turner Creek - Cypress Bowl Road to Upper Levels	T-400	1	2.08	4	0.05	10.6	1.2	1.2	1.2	2.4
Turner Creek - Cypress Bowl Road	T-200	1	2.08	4	0.05	4.4	2.7	2.7	2.7	2.7
Cave Creek										
Cave Creek - Marine to Outfall	C-4100	2.1	0	1.5	0.03	19.5	3.2	3.2	3.4	6.7
Cave Creek - BC Railway to Marine	C-3900	1.2	0	0.9	0.03	50.4	3.2	3.2	3.3	6.7
Cave Creek - Mathers to BC Railway	C-3700	2.4	0	1.5	0.037	19.4	3.2	3.2	3.3	6.7
Cave Creek - Westmount to Mathers	C-3500	2.4	0	1.5	0.05	37.4	3.1	3.1	3.3	6.6
Cave Creek - Westmount to Mathers	C-3400	2	0	1	0.039	7.6	3.1	3.1	3.3	6.6
Cave Creek - Westmount to Mathers	C-3300	2	0	1	0.0494	4	3.1	3.1	3.3	6.6
Cave Creek - Westmount to Mathers	C-3200	3.5	0	0.4	0.0345	12.5	3.1	3.1	3.3	6.7
Cave Creek - Wentworth to Upper Levels	C-3000	2	4	1	0.035	50.8	1.1	1.1	1.1	4.7
Cave Creek - Cypress Bowl Road to Wentworth	C-2800	4.5	2.66	1.35	0.035	17.6	4.1	4.1	4.1	4.1
Cave Creek - Cypress Bowl Road to Wentworth	C-2700	4.5	2.66	1.35	0.035	39.2	4.1	4.1	4.1	4.1
Cave Creek - Cypress Bowl Road to Wentworth	C-2600	4.5	2.66	1.35	0.035	49.1	4.1	4.1	4.1	4.1
Cave Creek - Cypress Bowl Road	C-2400	2	2.36	2.95	0.03	91.2	3.0	3.0	3.0	3.0
Cave Creek - Cypress Bowl Road	C-2300	2	2.36	2.95	0.038	36.8	3.0	3.0	3.0	3.0
Cave Creek - Cypress Bowl Road	C-2200	1.5	1.55	3.85	0.038	12.6	3.0	3.0	3.0	3.0
Cave Creek - Cypress Bowl Road	C-2100	1.5	1.55	3.85	0.038	41.2	3.0	3.0	3.0	3.0
Cave Creek - North of Cypress Bowl Road	C-1900	1	4.16	1.425	0.045	32.3	3.5	3.6	3.6	3.6
Cave Creek - Cypress Bowl Road to Wentworth	C-1800	1.5	1	2	0.04	35.7	3.7	3.8	3.8	3.8
Cave Creek - Cypress Bowl Road to Wentworth	C-1700	2	1.88	6.525	0.038	20.5	3.7	3.8	3.8	3.8
Cave Creek - Cypress Bowl Road to Wentworth	C-1600	1.5	1.33	3	0.035	27.3	3.7	3.8	3.8	3.8
Cave Creek - Cypress Bowl Road to Wentworth	C-1500	1.5	1.33	3	0.035	53.1	3.7	3.8	3.8	3.8
Cave Creek - Cypress Bowl Road	C-1300	2	1.74	4.55	0.035	60	2.8	2.8	2.8	2.8
Cave Creek - Cypress Bowl Road	C-1200	1.5	1.93	2.05	0.035	23.8	2.8	2.8	2.8	2.8
Cave Creek - Cypress Bowl Road	C-1100	1	2.66	1.875	0.045	19	2.8	2.8	2.8	2.8
Cave Creek - Cypress Bowl Road	C-1000	1	2.66	1.875	0.045	61.2	2.8	2.8	2.8	2.8
Cave Creek - North of Cypress Bowl Road	C-800	1.5	3.1	2.15	0.04	21.3	2.6	2.7	2.7	2.7
Cave Creek - North of Cypress Bowl Road	C-700	1.5	3.1	2.15	0.04	96.1	2.6	2.7	2.7	2.7
Cave Creek - North of Cypress Bowl Road	C-600	1	2.5	2.9	0.04	32	2.6	2.7	2.7	2.7

Channel Reach	Model Parameters						Q ₂₀₀ ¹ (m ³ /s)	Q ₂₀₀ ² (m ³ /s)	Q ₂₀₀ ³ (m ³ /s)	Q ₂₀₀ ⁴ (m ³ /s)
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %				
Cave Creek - North of Cypress Bowl Road	C-500	0.6	2.42	1.65	0.04	35.1	2.7	2.7	2.7	2.7
Cave Creek - Cypress Bowl Road	C-400	2	1.77	4.55	0.035	54.8	0.8	0.9	0.9	0.9
Cave Creek - Cypress Bowl Road	C-300	1.5	1.93	2.05	0.035	22	0.8	0.9	0.9	0.9
Cave Creek - Cypress Bowl Road	C-200	1	2.66	1.5	0.045	49.2	0.8	0.9	0.9	0.9
Westmount Creek										
Westmount Creek - BC Railway to Marine	W-3800	2.3	0	0.6	0.03	19	4.6	4.7	4.9	7.6
Westmount Creek - BC Railway to Marine	W-3600	2.4	0	1.1	0.025	6.1	4.5	4.6	4.9	7.6
Westmount Creek - Mathers to BC Railway	W-3400	1.5	0	0.9	0.046	20	4.5	4.6	4.8	7.5
Westmount Creek - Thompson to Mathers	W-3200	2.1	0	0.5	0.03	15.4	4.3	4.4	4.6	7.3
Westmount Creek - Thompson to Mathers	W-3100	2.1	0	1.2	0.03	24.4	4.3	4.4	4.6	7.3
Westmount Creek - Westmount to Thompson	W-2900	2.1	0	1.5	0.03	20.6	4.1	4.2	4.4	7.2
Westmount Creek - Benbow to Westmount	W-2700	1.8	0	1.2	0.03	12.7	1.7	1.7	1.7	4.7
Westmount Creek - Upper Levels to Benbow	W-2500	2.1	0	1.5	0.035	28	1.6	1.6	1.6	4.6
Westmount Creek - Deer Ridge to Upper Levels	W-2300	2	2.02	4.45	0.035	11.4	6.8	6.8	6.8	6.8
Westmount Creek - Deer Ridge to Upper Levels	W-2200	2	2.02	4.45	0.035	23.8	6.0	6.0	6.0	6.0
Westmount Creek - Cypress Bowl Road to Deer Ridge	W-2100	16	2.25	2.2	0.04	28.4	6.1	6.1	6.1	6.1
Westmount Creek - Cypress Bowl Road	W-1900	7	2	2.375	0.04	37.4	5.2	5.2	5.2	4.4
Westmount Creek - Cypress Bowl Road	W-1800	1.5	2.74	1.795	0.035	38.3	5.2	5.2	5.2	5.2
Westmount Creek - Cypress Bowl Road	W-1600	2	3.33	2	0.04	36.5	5.3	5.4	5.4	5.4
Westmount Creek - Cypress Bowl Road	W-1400	2	2.94	1	0.035	18.1	2.1	2.1	2.1	2.1
Westmount Creek - Cypress Bowl Road	W-1300	1.5	0.66	1	0.034	40.6	2.1	2.1	2.1	2.1
Westmount Creek - North of Cypress Bowl Road	W-1100	2	5.81	2.625	0.04	38.3	2.1	2.1	2.1	2.1
Westmount Creek - North of Cypress Bowl Road	W-1000	2	3.33	2.7	0.048	38.5	2.1	2.1	2.1	2.1
Westmount Creek - North of Cypress Bowl Road	W-900	1	4.29	2.85	0.03	8.5	2.1	2.1	2.1	2.1
Westmount Creek -	W-700	-	-	-	-	1.6				0.0
Westmount Creek - Deer Ridge to Upper Levels	W-600	1.5	1.25	1.5	0.035	12.9	1.4	1.4	1.4	1.4
Westmount Creek - Deer Ridge to Upper Levels	W-500	1.5	1.25	1.5	0.035	28.6	1.4	1.4	1.4	1.4
Westmount Creek - Cypress Bowl Road to Deer Ridge	W-300	1	1.25	2	0.035	21.2	0.9	0.9	0.9	0.9
Westmount Creek - Cypress Bowl Road to Deer Ridge	W-200	1	1.25	2	0.035	36.4	0.9	0.9	0.9	0.9
Pipe Creek										
Pipe Creek - Procter to Outfall	P-10600	1.5	0	2	0.03	9.7	6.0	6.0	6.3	14.8
Pipe Creek - Marine to Procter	P-10400	2	0	2.5	0.03	15.1	5.9	5.9	6.3	14.8
Pipe Creek - Mathers to Marine	P-10200	2.5	1	0.75	0.045	9	5.9	5.9	6.2	14.8
Pipe Creek - Rosebery to Mathers	P-10000	5	0	1	0.04	9.3	5.6	5.7	5.9	14.7
Pipe Creek - Rosebery to Mathers	P-9900	2.7	0	1.85	0.04	12.7	2.0	2.0	2.0	6.7
Pipe Creek - Spencer Pl to Rosebery	P-9700	2.1	0	1	0.04	15.4	1.8	1.8	1.8	6.5
Pipe Creek - Spencer Dr to Spencer Pl	P-9500	3	0	1.5	0.0455	20	1.4	1.4	1.4	6.1
Pipe Creek - Spencer Ct to Spencer Dr	P-9300	1.8	0	1.2	0.045	15.6	1.3	1.3	1.3	6.0
Pipe Creek - Upper Levels to Spencer Ct	P-9100	3	0	1.2	0.035	20.1	1.2	1.2	1.2	6.0
Pipe Creek - Deer Ridge to Upper Levels	P-8900	3	1.62	2.6	0.045	26.2	7.4	7.4	7.4	7.4

Channel Reach	Model Parameters						Q ₂₀₀ ¹ (m ³ /s)	Q ₂₀₀ ² (m ³ /s)	Q ₂₀₀ ³ (m ³ /s)	Q ₂₀₀ ⁴ (m ³ /s)
	ID	Width m	Side Slopes H : 1V	Depth m	Manning's Roughness	Channel Slope %				
Pipe Creek - Cypress Bowl Road	P-8700	2.5	1.86	4	0.039	28.6	2.4	2.4	2.4	2.4
Pipe Creek - Cypress Bowl Road	P-8600	2.5	1.86	4	0.039	38.3	2.4	2.4	2.4	2.4
Pipe Creek - Cypress Bowl Road	P-8500	2.5	1.86	4	0.039	51.4	2.4	2.4	2.4	2.4
Pipe Creek - Cypress Bowl Road	P-8400	2.5	1.86	4	0.039	20.2	2.4	2.4	2.4	2.4
Pipe Creek - North of Cypress Bowl Road	P-8200	2.5	1.86	4	0.039	15.3	2.0	2.0	2.0	2.0
Pipe Creek - North of Cypress Bowl Road	P-8100	2	2.58	3.625	0.04	34.3	2.0	2.0	2.0	2.0
Pipe Creek - Cypress Bowl Road	P-8000	2.5	1.86	4	0.039	23.7	6.1	6.1	6.1	6.1
Pipe Creek - Cypress Bowl Road	P-7900	9	2	3	0.045	43	5.3	5.3	5.3	5.3
Pipe Creek - Cypress Bowl Road	P-7700	2	2.58	3.625	0.04	54.6	5.3	5.3	5.3	5.3
Pipe Creek - Cypress Bowl Road	P-7600	2	2.92	1.9	0.04	22.2	5.3	5.3	5.3	5.3
Pipe Creek - Cypress Bowl Road	P-7500	2	3.17	4.9	0.035	36.2	5.3	5.3	5.3	5.3
Pipe Creek - Cypress Bowl Road	P-7400	10	1	1	0.04	11.9	5.4	5.4	5.4	5.4
Pipe Creek - Cypress Bowl Road	P-7300	2	3.5	2.625	0.035	51	5.4	5.4	5.4	5.4
Pipe Creek - Cypress Bowl Road	P-7100	1.5	3	1.875	0.035	38	2.8	2.8	2.8	2.8
Pipe Creek - Cypress Bowl Road	P-7000	1.5	2.5	2.52	0.045	29.6	2.8	2.8	2.8	2.8
Pipe Creek - Cypress Bowl Road	P-6900	2	2.25	5.45	0.035	34.6	2.8	2.8	2.8	2.8
Pipe Creek - Cypress Bowl Road	P-6800	1.5	3.25	3.35	0.045	20.1	2.8	2.8	2.8	2.8
Pipe Creek - Cypress Bowl Road	P-6700	1.3	1.44	2.475	0.04	29	2.8	2.8	2.8	2.8
Pipe Creek - North of Cypress Bowl Road	P-6500	0.8	2.28	2.05	0.042	20.9	2.4	2.4	2.4	2.4
Pipe Creek - Cypress Bowl Road	P-6400	2.5	1.86	7.925	0.039	21.7	0.4	0.4	0.4	0.4
Pipe Creek - Cypress Bowl Road	P-6300	2.5	1.86	4	0.039	62.1	0.4	0.4	0.4	0.4
Pipe Creek - Cypress Bowl Road	P-6200	2.5	1.86	4	0.039	34.3	0.4	0.4	0.4	0.4
Pipe Creek - North of Cypress Bowl Road	P-6000	2	2.58	3.625	0.04	59.7	0.4	0.4	0.4	0.4
Pipe Creek - Rosebery to Mathers	P-5900	2.7	0	1.5	0.038	16.9	3.7	3.7	3.9	8.1
Pipe Creek - Spencer Dr to Rosebery	P-5700	0.9	0.55	0.9	0.043	7.4	3.5	3.5	3.7	7.9
Pipe Creek - Spencer Dr to Rosebery	P-5600	2.4	1	0.6	0.046	15.7	2.2	2.2	2.3	5.2
Pipe Creek - Gibsy to Spencer Dr	P-5400	2	0	0.6	0.025	16.5	1.9	1.9	1.9	4.8
Pipe Creek - Gibsy to Spencer Dr	P-5200	1.9	0	0.9	0.03	16	1.8	1.8	1.9	4.8
Pipe Creek - Upper Levels to Gibsy	P-5000	1.2	1	3	0.045	29.6	1.8	1.8	1.8	4.8
Pipe Creek - Cypress Bowl Road to Upper Levels	P-4800	1	3.33	1	0.038	21.8	5.6	5.6	5.6	5.5
Pipe Creek - Cypress Bowl Road	P-4600	1.5	3.1	1.8	0.038	16.2	2.3	5.3	5.3	5.3
Pipe Creek - Cypress Bowl Road	P-4500	1.5	3.1	1.8	0.038	29.4	1.8	1.8	1.8	1.8
Pipe Creek - Cypress Bowl Road	P-4300	1.5	3.1	1.8	0.038	18.1	1.5	1.5	1.5	1.5
Pipe Creek - Cypress Bowl Road	P-4100	1.5	3.1	1.8	0.038	14.9	1.0	1.0	1.0	1.0
Pipe Creek - Cypress Bowl Road	P-4000	1.75	3.56	1.8	0.04	48.7	1.0	1.0	1.0	1.0
Pipe Creek - Cypress Bowl Road	P-3900	2	2.64	1.7	0.04	28.9	1.0	1.0	1.0	1.0
Pipe Creek - Cypress Bowl Road	P-3700	1.5	3.1	1.8	0.038	28.7	3.6	3.6	3.6	3.6
Pipe Creek - Cypress Bowl Road	P-3600	1.75	3.56	1.8	0.04	13.1	0.3	0.3	0.3	0.3
Pipe Creek - Cypress Bowl Road	P-3500	1.75	3.56	1.8	0.04	37.1	0.3	0.3	0.3	0.3
Pipe Creek - Cypress Bowl Road	P-3400	2	2.64	1.7	0.04	7.2	0.3	0.3	0.3	0.3

Channel Reach	Model Parameters						Q ₂₀₀ ¹ (m ³ /s)	Q ₂₀₀ ² (m ³ /s)	Q ₂₀₀ ³ (m ³ /s)	Q ₂₀₀ ⁴ (m ³ /s)
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %				
Pipe Creek - Cypress Bowl Road	P-3300	2	2.64	1.7	0.04	63.3	0.3	0.3	0.3	0.3
Pipe Creek - Cypress Bowl Road	P-3100	1.75	3.56	1.8	0.04	33.2	3.2	3.2	3.2	3.2
Pipe Creek - Cypress Bowl Road	P-3000	2	2.64	1.7	0.04	5.9	3.3	3.3	3.3	3.3
Pipe Creek - Cypress Bowl Road	P-2900	2	2.64	1.7	0.04	58.8	3.3	3.3	3.3	3.3
Pipe Creek - North of Cypress Bowl Road	P-2700	1	2.08	3.6	0.038	40.6	3.3	3.3	3.3	3.3
Pipe Creek - Spencer Dr to Rosebery	P-2600	1.2	0	0.9	0.0345	17.9	1.4	1.4	1.4	2.8
Pipe Creek - Spencer Ct to Spencer Dr	P-2400	1.8	0	1.5	0.03	21.1	0.8	0.8	0.8	1.9
Pipe Creek - Upper Levels to Spencer Ct	P-2200	1.2	0	0.9	0.03	28.6	0.4	0.4	0.4	1.5
Pipe Creek - Deer Ridge to Upper Levels	P-2000	1	2	1	0.035	30.1	2.0	2.0	2.0	2.0
Pipe Creek - Cypress Bowl Road	P-1800	1	2	1	0.035	38.4	2.0	2.0	2.0	2.0
Pipe Creek - Cypress Bowl Road	P-1600	2	4.16	1.125	0.038	22.8	2.1	2.1	2.1	2.1
Pipe Creek - Cypress Bowl Road	P-1500	3.25	3.33	1.5	0.035	37.3	2.1	2.1	2.1	2.1
Pipe Creek - Cypress Bowl Road	P-1400	3.25	3.33	1.5	0.035	28.5	1.6	1.6	1.6	1.6
Pipe Creek - North of Cypress Bowl Road	P-1200	3.25	3.33	1.5	0.035	41	1.9	1.9	1.9	1.9
Pipe Creek - Cypress Bowl Road	P-1100	3.25	3.33	1.5	0.035	26	0.2	0.2	0.2	0.2
Pipe Creek - Spencer Dr	P-900	1.8	0	1.5	0.03	44.3	0.4	0.4	0.4	0.7
Pipe Creek - Spencer Ct to Spencer Dr	P-700	0.6	0	0.6	0.03	19.7	0.4	0.4	0.4	0.7
Pipe Creek - Upper Levels to Spencer Ct	P-500	0.6	0	1	0.05	23.4	0.2	0.2	0.2	0.5
Pipe Creek - Deer Ridge to Upper Levels	P-300	1.5	3.33	1	0.045	22.7	0.5	0.5	0.5	0.5
Pipe Creek - North of Cypress Bowl Road	P-100	2	4.16	1.125	0.038	20	0.3	0.3	0.3	0.3

Notes:

Shading indicates where water levels exceed top of bank in simulated cross section

¹ Q₂₀₀ full design flows with diversion for pre-development, existing conditions

² Q₂₀₀ full design flows with diversion for post-development conditions

³ Q₂₀₀ full design flows with diversion for post-development conditions and a 25% increase in imperviousness of existing developed areas below Highway One

⁴ Q₂₀₀ full design flows with diversion for post-development conditions; diverting all flows greater than flows generated in a 2hr25yr design storm event

Table J-3: CREEK CHANNEL ASSESSMENT - Velocity and Erosion Summary

Channel Reach	Model Parameters							50% of Q ₂ ¹ (m ³ /s)	50% of Q ₂ ² (m ³ /s)	50% of Q ₂ ³ (m ³ /s)	50% of Q ₂ ⁴ (m ³ /s)	Velocity at 50% of Q ₂ (m/s)				MPV ⁶ (m/s)	Golder at Risk Areas	Golder Level of Risk	Aqua-Tex at Risk Areas	Aqua-Tex Level of Risk	Erosion Monitoring Priority
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %	V ¹					V ²	V ³	V ⁴							
Godman Creek																					
Godman Creek - Marine to Outfall	G-3900	1.5	0	1.5	0.013	17.2	1.60	1.62	1.62	1.59	4.735	4.745	4.745	4.725	7.3			Outside Study Limits			
Godman Creek - Marine to Outfall	G-3800	1.6	0	1.5	0.045	27.3	1.60	1.62	1.62	1.59	2.910	2.920	2.920	2.905	1.5			Outside Study Limits		6	
Godman Creek - Rose to Marine	G-3600	1.8	0	2.4	0.025	11.7	1.60	1.61	1.62	1.59	2.020	2.030	2.030	2.020	7.3			Outside Study Limits			
Godman Creek - Rose to Marine	G-3500	3	0	1	0.025	2.8	1.60	1.61	1.62	1.59	1.520	1.525	1.525	1.515	7.3			Outside Study Limits			
Godman Creek - BC Railway to Rose	G-3300	2.4	0	1.5	0.013	18.4	1.60	1.61	1.61	1.59	2.060	2.065	2.070	2.055	7.3			Outside Study Limits			
Godman Creek - BC Railway to Rose	G-3200	0.9	1.25	0.75	0.045	25.7	1.60	1.61	1.61	1.59	3.525	3.535	3.535	3.520	1.5			Outside Study Limits		6	
Godman Creek - Sharon to BC Railway	G-3000	1	1	1.7	0.04	3.1	1.59	1.60	1.60	1.59	1.700	1.700	1.700	1.700	1.5			Outside Study Limits		3	
Godman Creek - Bayridge to Sharon	G-2800	2.1	0	0.7	0.045	6.3	1.59	1.60	1.60	1.59	1.455	1.455	1.460	1.455	1.5	Erosion	3	Outside Study Limits		3	
Godman Creek - Bayridge to Sharon	G-2700	2.4	0	3	0.035	13.1	1.59	1.60	1.60	1.59	1.525	1.530	1.530	1.530	3.0	Erosion	3	Outside Study Limits		3	
Godman Creek - Viewridge to Bayridge	G-2500	2.1	0.4	4.5	0.052	15.6	1.48	1.50	1.50	1.49	1.305	1.310	1.310	1.310	3.0			Outside Study Limits			
Godman Creek - Viewridge to Bayridge	G-2400	5	0	1.2	0.03	42.7	1.48	1.50	1.50	1.49	1.185	1.185	1.185	1.185	3.0			Outside Study Limits			
Godman Creek - Viewridge to Bayridge	G-2300	1.8	0	1.2	0.03	8.2	1.48	1.50	1.50	1.49	2.780	2.790	2.790	2.785	3.0			Outside Study Limits			
Godman Creek - Westridge to Viewridge	G-2100	3	0	1	0.048	5.5	1.41	1.42	1.42	1.42	1.055	1.060	1.060	1.060	1.5	Erosion	3	Outside Study Limits		3	
Godman Creek - Upper Levels to Westridge	G-1900	2.4	0	0.9	0.03	12.9	1.39	1.40	1.40	1.40	1.375	1.380	1.380	1.380	1.5			Outside Study Limits			
Godman Creek - Upper Levels to Westridge	G-1800	2.5	0	0.4	0.0455	7.4	1.39	1.40	1.40	1.40	1.585	1.590	1.590	1.590	1.5			Outside Study Limits		6	
Godman Creek - Upper Levels to Westridge	G-1700	1.3	0	0.6	0.05	38.2	1.39	1.40	1.40	1.40	2.475	2.480	2.480	2.480	1.5			Outside Study Limits		6	
Godman Creek - Upper Levels	G-1500	3.6	0	2	0.03	64.2	1.29	1.30	1.30	1.30	0.960	0.965	0.965	0.965	3.0			Outside Study Limits			
Godman Creek - North of Upper Levels	G-1300	3	1.33	2.875	0.04	23.5	1.29	1.31	1.31	1.31	0.705	0.710	0.710	0.710	3.0			Outside Study Limits			
Godman Creek - North of Upper Levels	G-1200	2.25	3.11	1	0.064	6.7	1.29	1.31	1.31	1.31	1.200	1.205	1.205	1.205	0.5	Previous Channel destabilization	4	Outside Study Limits		2	
Godman Creek - North of Upper Levels	G-1000	0.8	3.75	1	0.022	4.5	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	1.8	Erosion		Outside Study Limits		3	
Godman Creek - North of Upper Levels	G-900	1	1.33	2.05	0.052	23.3	1.13	1.13	1.13	1.13	1.325	1.335	1.335	1.335	3.0			Outside Study Limits			
Godman Creek - North of Upper Levels	G-800	1	2	1	0.033	23.4	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	3.0	Potential Avulsion &/or flooding	2	Outside Study Limits		3	
Godman Creek - North of Upper Levels	G-700	1	2	1	0.033	40	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	3.0			Outside Study Limits			
Godman Creek - North of Upper Levels	G-600	1	2	1	0.033	19.7	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000	3.0	Potential Erosion	1	Outside Study Limits		3	
Godman Creek - North of Upper Levels	G-500	1	2	1	0.033	22.7	1.13	1.13	1.13	1.13	1.995	2.000	2.000	2.000	3.0			Outside Study Limits			
Godman Creek - North of Upper Levels	G-400	1	2	1	0.033	30.1	1.13	1.13	1.13	1.13	2.625	2.630	2.630	2.630	3.0			Outside Study Limits			
Godman Creek - North of Upper Levels	G-300	1	2	1	0.033	16.8	0.63	0.63	0.63	0.63	1.705	1.700	1.700	1.700	3.0			Outside Study Limits			
Godman Creek - North of Upper Levels	G-200	1	2	1	0.033	25.9	0.63	0.63	0.63	0.63	2.035	2.035	2.035	2.035	3.0			Outside Study Limits			
Godman Creek - North of Upper Levels	G-100	1	2	1	0.033	14.7	0.63	0.63	0.63	0.63	1.930	1.930	1.930	1.930	3.0			Outside Study Limits			
Turner Creek																					
Turner Creek - Marine to Outfall	T-3500	1.8	0	1.5	0.03	25.7	0.54	0.54	0.54	0.53	2.100	2.100	2.105	2.090	3.0			Outside Study Limits			
Turner Creek - Hillcrest to Oxley	T-3300	1.3	0	0.8	0.048	15.5	0.54	0.54	0.54	0.53	1.465	1.465	1.470	1.460	7.3	Erosion	3	Outside Study Limits		3	
Turner Creek -	T-3100	10	0	1.7	0	0	0.00	0.00	0.00	0.00	0.000	0.000	0.000	0.000				Outside Study Limits			
Turner Creek - Mathers to Hillcrest	T-3000	2.1	1	0.9	0.04	15.2	0.47	0.47	0.48	0.47	0.340	0.340	0.340	0.340	1.5			Outside Study Limits			
Turner Creek - Westmount to Mathers	T-2800	2.4	0.714	2.1	0.04	26.7	0.44	0.44	0.44	0.44	0.590	0.590	0.590	0.590	1.5			Outside Study Limits			
Turner Creek - Westmount	T-2700	1.2	0	0.9	0.03	52.5	0.44	0.44	0.44	0.44	2.870	2.870	2.875	2.870	3.0			Outside Study Limits			
Turner Creek - Cedaridge to Westmount	T-2600	1.2	0	0.9	0.035	4.8	0.44	0.44	0.44	0.44	1.475	1.475	1.480	1.475	3.0			Outside Study Limits			
Turner Creek - Cedaridge to Westmount	T-2400	1	0	0.8	0.035	0.4	0.44	0.44	0.44	0.44	0.835	0.835	0.840	0.835	1.5			Outside Study Limits			
Turner Creek - Westmount to Cedaridge	T-2200	1.8	0	0.9	0.038	5.4	0.41	0.41	0.41	0.41	0.845	0.845	0.845	0.845	1.8			Outside Study Limits			
Turner Creek - Southridge to Westmount	T-2000	0.6	0.666	4.5	0.043	2.4	0.40	0.40	0.40	0.40	1.125	1.125	1.125	1.125	1.5			Outside Study Limits			
Turner Creek - Southridge	T-1800	0.9	1	0.8	0.03	6.3	0.40	0.40	0.40	0.40	1.425	1.425	1.425	1.425	1.8			Outside Study Limits			
Turner Creek - Westridge	T-1600	1.2	1	1.2	0.03	2.7	0.38	0.38	0.38	0.38	0.940	0.940	0.940	0.940	7.3			Outside Study Limits			
Turner Creek - Westridge	T-1400	1.8	0	1.2	0.05	1.9	0.37	0.37	0.37	0.37	0.585	0.585	0.585	0.585	1.5			Outside Study Limits			
Turner Creek - Cypress Bowl Road	T-800	1	2.08	4	0.05	18.8	0.06	0.06	0.06	0.06	0.155	0.155	0.155	0.155	1.5			Proper Functioning		0	
Turner Creek - Cypress Bowl Road to Upper Levels	T-700	1	2.66	4	0.04	33.3	0.34	0.34	0.34	0.34	1.345	1.345	1.345	1.345	3.0			Proper Functioning		0	
Turner Creek - Cypress Bowl Road to Upper Levels	T-600	1	2.66	4	0.04	58	0.34	0.34	0.34	0.34	1.880	1.880	1.880	1.880	3.0			Proper Functioning		0	
Turner Creek - Cypress Bowl Road to Upper Levels	T-500	1	3.25	1.825	0.04	19.4	0.33	0.33	0.33	0.33	1.515	1.515	1.515	1.515	3.0			Proper Functioning		0	
Turner Creek - Cypress Bowl Road to Upper Levels	T-400	1	2.08	4	0.05	10.6	0.33	0.33	0.33	0.33	1.120	1.120	1.120	1.120	1.5			Proper Functioning		0	
Turner Creek - Cypress Bowl Road	T-200	1	2.08	4	0.05	4.4	0.23	0.23	0.23	0.23	0.415	0.415	0.415	0.415	1.5			Proper Functioning		0	
Cave Creek																					
Cave Creek - Marine to Outfall	C-4100	2.1	0	1.5	0.03	19.5	0.79	0.79	0.79	0.79	2.215	2.215	2.215	2.210	3.0			Outside Study Limits			
Cave Creek - BC Railway to Marine	C-3900	1.2	0	0.9	0.03	50.4	0.79	0.79	0.79	0.79	3.460	3.460	3.460	3.455	3.0			Outside Study Limits		6	
Cave Creek - Mathers to BC Railway	C-3700	2.4	0	1.5	0.037	19.4	0.79	0.79	0.79	0.79	1.630	1.630	1.635	1.630	3.0			Outside Study Limits			
Cave Creek - Westmount to Mathers	C-3500	2.4	0	1.5	0.05	37.4	0.78	0.79	0.79	0.78	1.375	1.375	1.375	1.375	1.5			Outside Study Limits			
Cave Creek - Westmount to Mathers	C-3400	2	0	1	0.039	7.6	0.78	0.79	0.79	0.78	1.575	1.575	1.575	1.570	3.0			Outside Study Limits			
Cave Creek - Westmount to Mathers	C-3300	2	0	1	0.0494	4	0.78	0.79	0.79	0.78	1.020	1.020	1.020	1.015	1.2	Erosion	3	Outside Study Limits		3	
Cave Creek - Westmount to Mathers	C-3200	3.5	0	0.4	0.0345	12.5	0.78	0.79	0.79	0.78	0.735	0.740	0.740	0.735	7.3	Erosion	3	Outside Study Limits		3	
Cave Creek - Wentworth to Upper Levels	C-3000	2	4	1	0.035	50.8	0.64	0.64	0.64	0.64	1.590	1.590	1.590	1.590	3.0			Proper Functioning		0	
Cave Creek - Cypress Bowl Road to Wentworth	C-2800	4.5	2.66	1.35	0.035	17.6	0.39	0.39	0.39	0.39	0.990	0.990	0.990	0.990	3.0			Proper Functioning		0	
Cave Creek - Cypress Bowl Road to Wentworth	C-2700	4.5	2.66	1.35	0.035	39.2	0.39	0.39	0.39	0.39	1.205	1.205	1.205	1.205	1.5			Proper Functioning		0	
Cave Creek - Cypress Bowl Road to Wentworth	C-2600	4.5	2.66	1.35	0.035	40.1	0.39	0.39	0.39</												

Channel Reach	Model Parameters						50% of Q ₁ ² (m ³ /s)	50% of Q ₂ ² (m ³ /s)	50% of Q ₃ ² (m ³ /s)	50% of Q ₄ ² (m ³ /s)	Velocity at 50% of Q ₂ (m/s)				MPV ⁶ (m/s)	Golder at Risk Areas	Golder Level of Risk	Aqua-Tax at Risk Areas	Aqua-Tax Level of Risk	Erosion Monitoring Priority
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %					V ¹	V ²	V ³	V ⁴						
Westmount Creek																				
Westmount Creek - BC Railway to Marine	W-3800	2.3	0	0.6	0.03	19	0.99	0.99	0.99	0.98	1.970	1.970	1.970	1.965	3.0			Outside study Limits		
Westmount Creek - BC Railway to Marine	W-3600	2.4	0	1.1	0.025	6.1	0.99	0.99	0.99	0.98	1.265	1.270	1.270	1.265	7.3			Outside study Limits		
Westmount Creek - Mathers to BC Railway	W-3400	1.5	0	0.9	0.046	20	0.98	0.99	0.99	0.98	1.820	1.820	1.820	1.815	3.0	Erosion	3	Outside study Limits		
Westmount Creek - Thompson to Mathers	W-3200	2.1	0	0.5	0.03	15.4	0.97	0.97	0.97	0.97	1.580	1.585	1.585	1.580	3.0	Potential for Avulsion &/or Flooding	2	Outside study Limits		
Westmount Creek - Thompson to Mathers	W-3100	2.1	0	1.2	0.03	24.4	0.97	0.97	0.97	0.97	2.270	2.270	2.270	2.270	3.0			Outside study Limits		
Westmount Creek - Westmount to Thompson	W-2900	2.1	0	1.5	0.03	20.6	0.96	0.96	0.96	0.96	1.060	1.060	1.060	1.060	3.0			Outside study Limits		
Westmount Creek - Benbow to Westmount	W-2700	1.8	0	1.2	0.03	12.7	0.77	0.77	0.77	0.77	1.785	1.785	1.785	1.785	3.0			Outside study Limits		
Westmount Creek - Upper Levels to Benbow	W-2500	2.1	0	1.5	0.035	28	0.76	0.76	0.76	0.76	1.525	1.525	1.525	1.525	3.0			Outside study Limits		
Westmount Creek - Deer Ridge to Upper Levels	W-2300	2	2.02	4.45	0.035	11.4	0.72	0.72	0.72	0.72	0.920	0.920	0.920	0.920	1.5			Functional At-Risk	1	
Westmount Creek - Deer Ridge to Upper Levels	W-2200	2	2.02	4.45	0.035	23.8	0.63	0.63	0.63	0.63	1.335	1.335	1.335	1.335	3.0			Functional At-Risk	1	
Westmount Creek - Cypress Bowl Road to Deer Ridge	W-2100	16	2.25	2.2	0.04	28.4	0.63	0.63	0.63	0.63	0.395	0.395	0.395	0.395	1.5	Potential Erosion	1	Functional At-Risk	1	
Westmount Creek - Cypress Bowl Road	W-1900	7	2	2.375	0.04	37.4	0.50	0.50	0.50	0.50	0.230	0.230	0.230	0.230	3.0			Proper Functioning	0	
Westmount Creek - Cypress Bowl Road	W-1800	1.5	2.74	1.795	0.035	38.3	0.50	0.50	0.50	0.50	2.675	2.675	2.675	2.675	3.0			Proper Functioning	0	
Westmount Creek - Cypress Bowl Road	W-1600	2	3.33	2	0.04	36.5	0.48	0.48	0.48	0.48	0.655	0.655	0.655	0.655	3.0	Potential Erosion	1	Proper Functioning	0	
Westmount Creek - Cypress Bowl Road	W-1400	2	2.94	1	0.035	18.1	0.17	0.17	0.17	0.17	0.400	0.400	0.400	0.400	1.5	Falling Wood Culvert		Proper Functioning	0	
Westmount Creek - Cypress Bowl Road	W-1300	1.5	0.66	1	0.034	40.6	0.17	0.17	0.17	0.17	1.505	1.505	1.505	1.505	3.0			Proper Functioning	0	
Westmount Creek - North of Cypress Bowl Road	W-1100	2	5.81	2.625	0.04	38.3	0.13	0.13	0.13	0.13	0.375	0.380	0.380	0.380	1.5			Proper Functioning	0	
Westmount Creek - North of Cypress Bowl Road	W-1000	2	3.33	2.7	0.048	38.5	0.13	0.13	0.13	0.13	1.015	1.015	1.015	1.015	1.5			Proper Functioning	0	
Westmount Creek - North of Cypress Bowl Road	W-900	1	4.29	2.85	0.03	8.5	0.13	0.13	0.13	0.13	1.085	1.085	1.085	1.085	0.5			Proper Functioning	0	
Westmount Creek - Deer Ridge to Upper Levels	W-600	1.5	1.25	1.5	0.035	12.9	0.09	0.09	0.09	0.09	0.495	0.495	0.495	0.495	1.5			Assessed, but not rated		
Westmount Creek - Deer Ridge to Upper Levels	W-500	1.5	1.25	1.5	0.035	28.6	0.09	0.09	0.09	0.09	0.830	0.830	0.830	0.830	1.5			Assessed, but not rated		
Westmount Creek - Cypress Bowl Road to Deer Ridge	W-300	1	1.25	2	0.035	21.2	0.06	0.06	0.06	0.06	0.505	0.505	0.505	0.505	1.5			Assessed, but not rated		
Westmount Creek - Cypress Bowl Road to Deer Ridge	W-200	1	1.25	2	0.035	36.4	0.06	0.06	0.06	0.06	1.030	1.030	1.030	1.030	1.5			Assessed, but not rated		
Pipe Creek																				
Pipe Creek - Procter to Outfall	P-10600	1.5	0	2	0.03	9.7	1.65	1.65	1.65	1.64	2.830	2.830	2.830	2.825	7.3			Outside study Limits		
Pipe Creek - Marine to Procter	P-10400	2	0	2.5	0.03	15.1	1.64	1.65	1.65	1.64	2.175	2.175	2.175	2.170	7.3			Outside study Limits		
Pipe Creek - Mathers to Marine	P-10200	2.5	1	0.75	0.045	9	1.64	1.64	1.64	1.63	1.625	1.625	1.625	1.625	1.5			Outside study Limits	6	
Pipe Creek - Rosebery to Mathers	P-10000	5	0	1	0.04	9.3	1.62	1.62	1.62	1.61	0.760	0.760	0.760	0.760	3.0			Outside study Limits		
Pipe Creek - Rosebery to Mathers	P-9900	2.7	0	1.85	0.04	12.7	0.73	0.73	0.73	0.73	1.255	1.255	1.255	1.255	3.0			Outside study Limits		
Pipe Creek - Spencer Pt to Rosebery	P-9700	2.1	0	1	0.04	15.4	0.72	0.72	0.72	0.72	1.520	1.520	1.520	1.520	3.0	Erosion	3	Outside study Limits	3	
Pipe Creek - Spencer Dr to Spencer Pt	P-9500	3	0	1.5	0.045	20	0.70	0.70	0.70	0.70	1.045	1.045	1.045	1.045	3.0			Outside study Limits		
Pipe Creek - Spencer Ct to Spencer Dr	P-9300	1.8	0	1.2	0.045	15.6	0.69	0.69	0.69	0.69	1.070	1.070	1.070	1.070	3.0	Erosion	3	Outside study Limits	3	
Pipe Creek - Upper Levels to Spencer Ct	P-9100	3	0	1.2	0.035	20.1	0.68	0.68	0.68	0.68	1.135	1.135	1.135	1.135	3.0	Erosion	3	Outside study Limits	3	
Pipe Creek - Deer Ridge to Upper Levels	P-8900	3	1.62	2.6	0.045	26.2	0.67	0.67	0.67	0.67	0.760	0.760	0.760	0.760	3.0	Erosion	3	Proper Functioning	0	
Pipe Creek - Cypress Bowl Road	P-8700	2.5	1.86	4	0.039	28.6	0.21	0.21	0.21	0.21	0.305	0.305	0.305	0.305	1.5			Functional At-Risk	1	
Pipe Creek - Cypress Bowl Road	P-8600	2.5	1.86	4	0.039	38.3	0.21	0.21	0.21	0.21	1.200	1.200	1.200	1.200	1.5			Functional At-Risk	1	
Pipe Creek - Cypress Bowl Road	P-8500	2.5	1.86	4	0.039	51.4	0.21	0.21	0.21	0.21	1.315	1.315	1.315	1.315	1.5			Functional At-Risk	1	
Pipe Creek - Cypress Bowl Road	P-8400	2.5	1.86	4	0.039	20.2	0.21	0.21	0.21	0.21	1.135	1.135	1.135	1.135	1.5			Nonfunctional	2	
Pipe Creek - North of Cypress Bowl Road	P-8200	2.5	1.86	4	0.039	15.3	0.18	0.18	0.18	0.18	0.510	0.510	0.510	0.510	1.5	Potential Erosion	1	Nonfunctional	2	
Pipe Creek - North of Cypress Bowl Road	P-8100	2	2.58	3.625	0.04	34.3	0.18	0.18	0.18	0.18	1.130	1.130	1.130	1.130	1.5	Potential Erosion	1	Proper Functioning	1	
Pipe Creek - Cypress Bowl Road	P-8000	2.5	1.86	4	0.039	23.7	0.45	0.45	0.45	0.45	0.580	0.580	0.580	0.580	1.5	Potential Erosion	1	Nonfunctional	2	
Pipe Creek - Cypress Bowl Road	P-7900	9	2	3	0.045	43	0.40	0.40	0.40	0.40	0.535	0.535	0.535	0.535	3.0			Functional At-Risk	1	
Pipe Creek - Cypress Bowl Road	P-7700	2	2.58	3.625	0.04	54.6	0.40	0.40	0.40	0.40	0.245	0.245	0.245	0.245	3.0	Potential Erosion	1	Proper Functioning	0	
Pipe Creek - Cypress Bowl Road	P-7600	2	2.92	1.9	0.04	22.2	0.40	0.40	0.40	0.40	1.515	1.515	1.515	1.515	3.0			Proper Functioning	0	
Pipe Creek - Cypress Bowl Road	P-7500	2	3.17	4.9	0.035	36.2	0.40	0.40	0.40	0.40	1.450	1.450	1.450	1.450	3.0			Proper Functioning	0	
Pipe Creek - Cypress Bowl Road	P-7400	10	1	0.04	11.9	0.40	0.40	0.40	0.40	0.500	0.500	0.500	0.500	3.0	Potential Erosion	1	Proper Functioning	0		
Pipe Creek - Cypress Bowl Road	P-7300	2	3.5	2.625	0.035	51	0.40	0.40	0.40	0.40	2.220	2.220	2.220	2.220	3.0			Proper Functioning	0	
Pipe Creek - Cypress Bowl Road	P-7100	1.5	3	1.875	0.035	38	0.22	0.22	0.22	0.22	0.835	0.835	0.835	0.835	3.0			Functional At-Risk	1	
Pipe Creek - Cypress Bowl Road	P-7000	1.5	2.5	2.52	0.045	29.6	0.22	0.22	0.22	0.22	1.330	1.330	1.330	1.330	5.0	Falling Wood Culvert		Proper Functioning	0	
Pipe Creek - Cypress Bowl Road	P-6900	2	2.25	5.45	0.035	34.6	0.22	0.22	0.22	0.22	1.100	1.100	1.100	1.100	3.0			Proper Functioning	0	
Pipe Creek - Cypress Bowl Road	P-6800	1.5	3.25	3.35	0.045	20.1	0.22	0.22	0.22	0.22	1.235	1.235	1.235	1.235	1.5			Proper Functioning	0	
Pipe Creek - Cypress Bowl Road	P-6700	1.3	1.44	2.475	0.04	29	0.22	0.22	0.22	0.22	1.300	1.300	1.300	1.300	3.0			Proper Functioning	0	
Pipe Creek - North of Cypress Bowl Road	P-6500	0.8	2.28	2.05	0.042	20.9	0.16	0.16	0.16	0.16	0.585	0.585	0.585	0.585	1.8	Potential Erosion	1	Functional At-Risk	1	
Pipe Creek - Cypress Bowl Road	P-6400	2.5	1.86	7.925	0.039	21.7	0.03	0.03	0.03	0.03	0.160	0.160	0.160	0.160	1.8			Functional At-Risk	1	
Pipe Creek - Cypress Bowl Road	P-6300	2.5	1.86	4	0.039	62.1	0.03	0.03	0.03	0.03	0.560	0.560	0.560	0.560	1.5			Nonfunctional	2	
Pipe Creek - Cypress Bowl Road	P-6200	2.5	1.86	4	0.039	34.3	0.03	0.03	0.03	0.03	0.590	0.590	0.590	0.590	1.5			Proper Functioning	0	
Pipe Creek - North of Cypress Bowl Road	P-6000	2	2.58	3.625	0.04	59.7	0.03	0.03	0.03	0.03	0.420	0.420	0.420	0.420	1.5			Proper Functioning	0	
Pipe Creek - Rosebery to Mathers	P-5900	2.7	0	1.5	0.038	16.9	0.88	0.88	0.88	0.88	1.515	1.515	1.520	1.515	3.0			Outside study Limits		
Pipe Creek - Spencer Dr to Rosebery	P-5700	0.9	0.55	0.9	0.043	7.4	0.87	0.87	0.87	0.87	1.680	1.680	1.680	1.680	3.0			Outside study Limits		
Pipe Creek - Spencer Dr to Rosebery	P-5600	2.4	1	0.6	0.046	15.7	0.57	0.57	0.57	0.57	0.550	0.550	0.550	0.550	1.5			Outside study Limits		
Pipe Creek - Gibby to Spencer Dr	P-5400	2	0	0.6	0.025	16.5	0													

Channel Reach	Model Parameters						50% of Q ₂ ¹ (m ³ /s)	50% of Q ₂ ² (m ³ /s)	50% of Q ₂ ³ (m ³ /s)	50% of Q ₂ ⁴ (m ³ /s)	Velocity at 50% of Q ₂ (m/s)				MPV ⁶ (m/s)	Golder at Risk Areas	Golder Level of Risk	Aqua-Tex at Risk Areas	Aqua-Tex Level of Risk	Erosion Monitoring Priority
	ID	Width m	Side Slopes _ H : 1V	Depth m	Manning's Roughness	Channel Slope %					V ¹	V ²	V ³	V ⁴						
	Pipe Creek - Cypress Bowl Road	P-1600	2	4.16	1.125	0.038					22.8	0.20	0.20	0.20						
Pipe Creek - Cypress Bowl Road	P-1500	3.25	3.33	1.5	0.035	37.3	0.20	0.20	0.20	0.20	0.885	0.885	0.885	0.885	3.0			Proper Functional	0	
Pipe Creek - Cypress Bowl Road	P-1400	3.25	3.33	1.5	0.035	28.5	0.15	0.15	0.15	0.15	0.915	0.915	0.915	0.915	1.5			Proper Functional	0	
Pipe Creek - North of Cypress Bowl Road	P-1200	3.25	3.33	1.5	0.035	41	0.15	0.15	0.15	0.15	0.230	0.230	0.230	0.230	3.0			Proper Functional	0	
Pipe Creek - Cypress Bowl Road	P-1100	3.25	3.33	1.5	0.035	26	0.01	0.01	0.01	0.01	0.150	0.150	0.150	0.150	1.5			Proper Functional	0	
Pipe Creek - Spencer Dr	P-900	1.8	0	1.5	0.03	44.3	0.05	0.05	0.05	0.05	0.180	0.185	0.185	0.180	1.5			Outside study Limits		
Pipe Creek - Spencer Ct to Spencer Dr	P-700	0.6	0	0.6	0.03	19.7	0.05	0.05	0.05	0.05	0.925	0.925	0.925	0.925	3.0			Outside study Limits		
Pipe Creek - Upper Levels to Spencer Ct	P-500	0.6	0	1	0.05	23.4	0.04	0.04	0.04	0.04	0.700	0.700	0.700	0.700	1.8			Outside study Limits		
Pipe Creek - Deer Ridge to Upper Levels	P-300	1.5	3.33	1	0.045	22.7	0.03	0.03	0.03	0.03	0.325	0.325	0.325	0.325	1.5			Outside study Limits		
Pipe Creek - North of Cypress Bowl Road	P-100	2	4.16	1.125	0.038	20	0.02	0.02	0.02	0.02	0.190	0.190	0.190	0.190	1.5			Outside study Limits		

Notes:

Shading indicates exceedance of maximum permissible velocity

¹ Existing Conditions with no diversion

² Post Development with diversion

³ Post Development with diversion and an increase in impervious areas by 25% in the developed area below Highway One

⁴ Post Development with diversion and a decrease in impervious areas by 10% and increase in pervious area depression storage by 10% in the developed area below Highway One

⁶ MPV is Maximum Permissible Velocity for no erosion