

**Table L1
Preliminary Cost Estimate
Retrofit Pond No. 1 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$15,000.00	\$15,000.00
3	Excavation	m3	2,958	\$20.00	\$59,160.00
4	Landscaping/ Vegetation	m2	2,800	\$8.00	\$22,400.00
5	Topsoil 100 mm (Stockpiled)	m2	2,800	\$4.00	\$11,200.00
6	Silt Fencing	m	448	\$15.00	\$6,720.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Inlet Control and Sewer	Ea.	1	\$15,000.00	\$15,000.00
9	Outlet Control and Sewer	Ea.	1	\$25,000.00	\$25,000.00
10	Maintenance Access	m	240	\$60.00	\$14,400.00

Subtotal **\$181,380.00**

Cont @ 20% **\$36,276.00**

Tax @ 13% **\$28,295.28**

Total **\$245,951.28**

Cost of development land at \$250,000/ ha

0 **\$0.00**

Total Cost \$245,951

**Table L11
Preliminary Cost Estimate
Green Meadows Park SWM Facility**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$15,000.00	\$15,000.00
3	Excavation	m3	8,500	\$20.00	\$170,000.00
4	Landscaping/ Vegetation	m2	6,700	\$8.00	\$53,600.00
5	Topsoil 100 mm (Stockpiled)	m2	6,700	\$4.00	\$26,800.00
6	Silt Fencing	m	370	\$15.00	\$5,550.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Installed 2.4 x 1.8 Box Trunk sewer on Stevenson	m	29.8	\$4,248.40	\$126,600.00
9	Installed 3900 x 3000 Box MH on Stevenson (Inlet Splitter)	Each	1	\$69,000.00	\$69,000.00
10	Installed 2.4 x 1.8 Box SWM Inlet pipe	m	35	\$4,248.40	\$148,690.00
11	Installed 1200 mm diameter SWM Outlet Pipe	m	35	\$1,153.20	\$40,360.00
12	Installed 3000 mm MH on Stevenson (Outlet Connection)	Each	1	\$34,000.00	\$34,000.00
13	Upgrade to 975 sewer (to 1500) on park land - installed	m	53	\$1,726.00	\$91,480.00
14	Maintenance Access	m	240	\$60.00	\$14,400.00

Subtotal	\$807,980.00
Cont @ 20%	\$161,596.00
Tax @ 13%	\$126,044.88
Total	\$1,095,620.88
Land Cost	\$0.00
Total Cost	\$1,095,621
Rounded	\$1,100,000

**Table L10
Preliminary Cost Estimate
Retrofit Pond No. 10 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$20,000.00	\$20,000.00
3	Excavation	m3	191	\$20.00	\$3,810.00
4	Landscaping/ Vegetation	m2	1,041	\$8.00	\$8,320.00
5	Topsoil 100 mm (Stockpiled)	m2	1,041	\$4.00	\$4,160.00
6	Silt Fencing	m	163	\$15.00	\$2,450.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Inlet Control and Sewer	Ea.	1	\$25,000.00	\$25,000.00
9	Outlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
10	Maintenance Access	m	115	\$60.00	\$6,900.00

Subtotal **\$103,140.00**

Cont @ 20% **\$20,628.00**

Tax @ 13% **\$16,089.84**

Total **\$139,857.84**

Cost of development land at \$250,000/ ha

0 **\$0.00**

Total Cost \$139,858

**Table L9
Preliminary Cost Estimate
Retrofit Pond No. 9 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$20,000.00	\$20,000.00
3	Excavation	m3	938	\$20.00	\$18,750.00
4	Landscaping/ Vegetation	m2	1,360	\$8.00	\$10,880.00
5	Topsoil 100 mm (Stockpiled)	m2	1,360	\$4.00	\$5,440.00
6	Silt Fencing	m	203	\$15.00	\$3,040.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Inlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
9	Outlet Control and Sewer	Ea.	1	\$25,000.00	\$25,000.00
10	Maintenance Access	m	60	\$60.00	\$3,600.00

Subtotal **\$119,210.00**

Cont @ 20% **\$23,842.00**

Tax @ 13% **\$18,596.76**

Total **\$161,648.76**

Cost of development land at \$250,000/ ha 0 **\$0.00**

Total Cost \$161,649

**Table L8
Preliminary Cost Estimate
Retrofit Pond No. 8 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$20,000.00	\$20,000.00
3	Excavation	m3	3,992	\$20.00	\$79,830.00
4	Landscaping/ Vegetation	m2	3,000	\$12.00	\$36,000.00
5	Topsoil 100 mm (Stockpiled)	m2	3,000	\$4.00	\$12,000.00
6	Silt Fencing	m	218	\$15.00	\$3,260.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Inlet Control and Sewer	Ea.	1	\$25,000.00	\$25,000.00
9	Outlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
10	Maintenance Access	m	188	\$60.00	\$11,250.00

Subtotal **\$219,840.00**

Cont @ 20% **\$43,968.00**

Tax @ 13% **\$34,295.04**

Total **\$298,103.04**

Cost of development land at \$250,000/ ha

0 **\$0.00**

Total Cost \$298,103

**Table L7
Preliminary Cost Estimate
Retrofit Pond No. 7 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$20,000.00	\$20,000.00
3	Excavation	m3	5,184	\$20.00	\$103,680.00
4	Landscaping/ Vegetation	m2	1,560	\$8.00	\$12,480.00
5	Topsoil 100 mm (Stockpiled)	m2	1,560	\$4.00	\$6,240.00
6	Silt Fencing	m	130	\$15.00	\$1,950.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Inlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
9	Outlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
10	Maintenance Access	m	100	\$60.00	\$6,000.00

Subtotal **\$202,850.00**

Cont @ 20% **\$40,570.00**

Tax @ 13% **\$31,644.60**

Total **\$275,064.60**

Cost of development land at \$250,000/ ha

0 **\$0.00**

Total Cost \$275,065

**Table L6
Preliminary Cost Estimate
Retrofit Pond No. 6 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$20,000.00	\$20,000.00
3	Excavation	m3	41,732	\$20.00	\$834,630.00
4	Landscaping/ Vegetation	m2	1,800	\$12.00	\$21,600.00
5	Topsoil 100 mm (Stockpiled)	m2	1,800	\$4.00	\$7,200.00
6	Silt Fencing	m	150	\$15.00	\$2,250.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Inlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
9	Outlet Control and Sewer	Ea.	1	\$15,000.00	\$15,000.00
10	Maintenance Access	m	50	\$60.00	\$3,000.00

Subtotal **\$936,180.00**

Cont @ 20% **\$187,236.00**

Tax @ 13% **\$146,044.08**

Total **\$1,269,460.08**

Cost of development land at \$250,000/ ha

0 **\$0.00**

Total Cost \$1,269,460

**Table L5
Preliminary Cost Estimate
Retrofit Pond No. 5 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$15,000.00	\$15,000.00
3	Removal of Concrete Channel	LS	1	\$25,000.00	\$25,000.00
4	Excavation	m3	7,463	\$20.00	\$149,250.00
5	Landscaping/ Vegetation	m2	2,000	\$12.00	\$24,000.00
6	Topsoil 100 mm (Stockpiled)	m2	2,000	\$4.00	\$8,000.00
7	Silt Fencing	m	280	\$15.00	\$4,200.00
8	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
9	Inlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
10	Outlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
11	Maintenance Access	m	75	\$60.00	\$4,500.00

Subtotal **\$282,450.00**

Cont @ 20% **\$56,490.00**

Tax @ 13% **\$44,062.20**

Total **\$383,002.20**

Cost of development land at \$250,000/ ha 0 **\$0.00**

Total Cost \$383,002

**Table L4
Preliminary Cost Estimate
Retrofit Pond No. 4 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$20,000.00	\$20,000.00
3	Excavation	m3	3,450	\$30.00	\$103,500.00
4	Landscaping/ Vegetation	m2	2,333	\$12.00	\$27,990.00
5	Topsoil 100 mm (Stockpiled)	m2	2,333	\$4.00	\$9,330.00
6	Silt Fencing	m	308	\$15.00	\$4,620.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Inlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
9	Outlet Control and Sewer	Ea.	1	\$25,000.00	\$25,000.00
10	Maintenance Access	m	240	\$60.00	\$14,400.00

Subtotal **\$237,340.00**

Cont @ 20% **\$47,468.00**

Tax @ 13% **\$37,025.04**

Total **\$321,833.04**

Cost of development land at \$350,000/ ha 0.708588 **\$248,005.80**

Total Cost \$569,839

**Table L3
Preliminary Cost Estimate
Retrofit Pond No. 3 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$15,000.00	\$15,000.00
3	Excavation	m3	3,966	\$20.00	\$79,320.00
4	Landscaping/ Vegetation	m2	2,706	\$8.00	\$21,650.00
5	Topsoil 100 mm (Stockpiled)	m2	2,706	\$4.00	\$10,820.00
6	Silt Fencing	m	875	\$15.00	\$13,120.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Inlet Control and Sewer	Ea.	1	\$25,000.00	\$25,000.00
9	Outlet Control	Ea.	1	\$15,000.00	\$15,000.00
10	Maintenance Access	m	240	\$60.00	\$14,400.00

Subtotal **\$206,810.00**

Cont @ 20% **\$41,362.00**

Tax @ 13% **\$32,262.36**

Total **\$280,434.36**

Cost of development land at \$250,000/ ha 0 **\$0.00**

Total Cost \$280,434

**Table L2
Preliminary Cost Estimate
Retrofit Pond No. 2 Wetland**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$20,000.00	\$20,000.00
3	Excavation	m3	34,469	\$20.00	\$689,370.00
4	Landscaping/ Vegetation	m2	4,640	\$8.00	\$37,120.00
5	Topsoil 100 mm (Stockpiled)	m2	4,640	\$4.00	\$18,560.00
6	Silt Fencing	m	560	\$15.00	\$8,400.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Inlet Control and Sewer	Ea.	1	\$15,000.00	\$15,000.00
9	Outlet Control and Sewer	Ea.	1	\$20,000.00	\$20,000.00
10	Removal of paved area	LS	1	\$20,000.00	\$20,000.00
11	Maintenance Access	m	1,152	\$60.00	\$69,120.00

Subtotal **\$910,070.00**

Cont @ 20% **\$182,014.00**

Tax @ 13% **\$141,970.92**

Total **\$1,234,054.92**

Cost of development land at \$250,000/ ha

0 **\$0.00**

Total Cost \$1,234,055

**Table L12
Preliminary Cost Estimate
Waverly Drive SWM Facility**

Item #	Item	Unit	Quantity	Cost/Unit	Subtotal Cost
1	Construction Layout	LS	1	\$10,000.00	\$10,000.00
2	Clearing and Grubbing	LS	1	\$15,000.00	\$15,000.00
3	Excavation	m3	3,000	\$20.00	\$60,000.00
4	Landscaping/ Vegetation	m2	5,000	\$8.00	\$40,000.00
5	Topsoil 100 mm (Stockpiled)	m2	5,000	\$4.00	\$20,000.00
6	Silt Fencing	m	600	\$15.00	\$9,000.00
7	300 mm Rip Rap	m2	50	\$50.00	\$2,500.00
8	Installed 3000 mm MH on Waverly Drive	Each	1	\$40,000.00	\$40,000.00
9	Installed 2.31x1.48 HE Inlet Pipe	m	38	\$3,026.40	\$116,210.00
10	Installed Inlet/Splitter 3000 mm MH	Each	1	\$35,000.00	\$35,000.00
11	Installed 1.93x1.22 HE SWM Inlet Pipe	m	32	\$2,127.60	\$68,080.00
12	Installed 975 mm SWM Outlet Pipe	m	25	\$805.20	\$20,130.00
13	Armourstone Retaining Walls	m3	92	\$528.00	\$48,580.00
14	Maintenance Access	m	220	\$60.00	\$13,200.00

Subtotal	\$497,700.00
Cont @ 20%	\$99,540.00
Tax @ 13%	\$77,641.20
Total	\$674,881.20
Land Cost	\$0.00
Total Cost	\$674,881
Rounded	\$680,000