

## Appendix A: Cost Estimates



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**STORMWATER MANAGEMENT PROGRAM  
COST SUMMARY**

Item No.	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	STREAM RESTORATION CONSTRUCTION AND O&M CONTRACT	1 LS	\$1,920,000.00	\$1,920,000.00
2	STREAM REST SURVEY, DESIGN, PERMITTING, BIDDING, ETC.	1 LS	\$452,000.00	\$452,000.00
3	OTHER COSTS AND MCMS (UNTIL 2023)	1 LS	\$418,060.62	\$418,000.00

TOTAL \$2,790,000.00

**CALL \$2,790,000.00**

**STREAM RESTORATION - CONSTRUCTION COST ESTIMATE**  
**5,500 LF STREAM RESTORATION**

**CONSTRUCTION COSTS**

ITEM NO.	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	MOBILIZATION/DEMOBILIZATION	1 LS	\$62,000.00	\$62,000.00
2	MAINTENANCE AND PROTECTION OF TRAFFIC	1 LS	\$37,000.00	\$37,000.00
3	UTILITY COORDINATION	1 LS	\$25,000.00	\$25,000.00
4	SANDBAG COFFER DAM	2 EA	\$3,000.00	\$6,000.00
5	BYPASS PUMPING	1 EA	\$7,200.00	\$7,200.00
6	CLASS 2 EXCAVATION	10,120 CY	\$22.00	\$222,640.00
7	SELECT TREE REMOVAL (CLEARING/GRUBBING)	50 EA	\$800.00	\$40,000.00
8	TILL EXISTING SOIL, 10" DEPTH	42,800 SY	\$2.70	\$115,560.00
9	MULCH CONTROLLED NETTING (COCONUT COIR)	11,000 SY	\$2.40	\$26,400.00
10	EROSION CONTROL MATTING (SHORT TERM)	31,800 SY	\$1.80	\$57,240.00
11	PLACING STOCKPILED TOPSOIL	1,360 CY	\$24.00	\$32,640.00
12	TREE OR SHRUB PLANTING	4,900 EA	\$46.00	\$225,400.00
13	SEEDING AND SOIL SUPPLEMENTS - FORMULA RIP, INCLUDING MULCH	740 LB	\$130.00	\$96,200.00
14	SEEDING AND SOIL SUPPLEMENTS - FORMULA D, INCLUDING MULCH	460 LB	\$20.00	\$9,200.00
15	TEMPORARY PROTECTIVE FENCING	11,000 LF	\$6.00	\$66,000.00
16	COMPOST FILTER SOCK, 18" DIAMETER	11,000 LF	\$8.00	\$88,000.00
17	ROCK CONSTRUCTION ENTRANCE	5 EA	\$2,200.00	\$11,000.00
18	GRANULAR MATERIAL (ACCESS ROAD)	4,300 SY	\$7.00	\$30,100.00
19	ROCK, CLASS R-6	1,100 CY	\$110.00	\$121,000.00
20	GEOTEXTILE, CLASS 4, TYPE A	1,225 SY	\$2.50	\$3,062.50
21	ROCK, CLASS R-4	1,225 CY	\$60.00	\$73,500.00
Construction Sub-total				\$1,355,142.50

**OPERATION AND MAINTENANCE ACTIVITIES INCORPORATED INTO CONSTRUCTION CONTRACT**

YEAR NO.	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
2021	REMOVE NUISANCE AND INVASIVE SPECIES	4 TRIPS	\$5,000.00	\$20,000.00
2021	REPLACE DEAD PLANTINGS	245 EA	\$460.00	\$112,700.00
2022	REMOVE NUISANCE AND INVASIVE SPECIES	2 TRIPS	\$5,150.00	\$10,300.00
2022	REPLACE DEAD PLANTINGS	12 EA	\$473.80	\$5,804.05
2023	REMOVE NUISANCE AND INVASIVE SPECIES	1 TRIPS	\$5,304.50	\$5,304.50
O&M Sub-total				\$154,108.55

Contract Subtotal \$1,509,251.05  
Contingency 20% ± \$301,850.21

**Subtotal**

**\$1,811,101.26**

**Inflation (Assuming 2020 Build Year at 3% per Year)**

**\$111,992.25**

**TOTAL ESTIMATED CONSTRUCTION COST**

**\$1,923,093.51**

<b>CALL</b>	<b>\$1,920,000.00</b>
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**STREAM RESTORATION - SURVEY, DESIGN, PERMITTING, BIDDING, AND CONSTRUCTION SERVICES**

**5,500 LF STREAM RESTORATION, 2020 BUILD YEAR**

ITEM NO.	DESCRIPTION	PERCENTAGE OF CONSTRUCTION COST	CONST COST	AMOUNT
1	SURVEY	2.3%	\$1,920,000.00	\$44,000.00
2	DESIGN	13.0%	\$1,920,000.00	\$250,000.00
3	PERMITTING	2.6%	\$1,920,000.00	\$50,000.00
4	BID PHASE SERVICES	0.8%	\$1,920,000.00	\$16,000.00
5	CONSTRUCTION PHASE SERVICES	3.2%	\$1,920,000.00	\$62,000.00
6	AS BUILT SURVEY	1.6%	\$1,920,000.00	\$30,000.00

SURVEY, DESIGN, PERMITTING, BIDDING, CONSTRUCTION, AND AS-BUILT SUM **\$452,000.00**

<b>CALL</b>	<b>\$452,000.00</b>
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**OTHER COSTS AND MCMS**

MCM No.	DESCRIPTION	QUANTITY	UNIT PRICE	AMOUNT
1	PUBLIC MEETING ADVERTISEMENT AND PRINTED MATERIALS	1 EA	\$500.00	\$500.00
2	PUBLIC INVOLVEMENT AND PARTICIPATION	1 LS	\$0.00	\$0.00
3	OUTFALL INSPECTIONS	1 LS	\$22,530.00	\$22,530.00
4	CONSTRUCTION SITE RUNOFF CONTROL	1 LS	\$0.00	\$0.00
5	POST-CONSTRUCTION SWM MANAGEMENT	1 LS	\$0.00	\$0.00
6	PREPARE AND CONDUCT TRAINING SESSION	20 HRS	\$150.00	\$3,000.00
OTHER	MS4 ADMINISTRATOR POSITION	1 LS	\$71,000.00	\$71,000.00

OTHER COSTS AND MCMS TOTAL YEAR 2019 \$97,030.00

OTHER COSTS AND MCMS TOTAL YEAR 2020 \$76,735.00

OTHER COSTS AND MCMS TOTAL YEAR 2021 \$79,037.05

OTHER COSTS AND MCMS TOTAL YEAR 2022 \$81,408.16

OTHER COSTS AND MCMS TOTAL YEAR 2023 \$83,850.41

**Sum \$418,060.62**

**CALL \$418,000.00**