

**SD-2016-03**  
**Third Fork Creek Stream Restoration**  
**Bid Tabulation**

Item No.	Spec.	Item Description	Quantity	Unit	Opinion of Probable Cost		Backwater Environmental		Carolina Environmental Contracting, Inc.	
					Unit Price	Item Value	Unit Price	Item Value	Unit Price	Item Value
1	2.01	Construction Survey	1	LS	\$26,000.00	\$26,000.00	\$25,600.00	\$25,600.00	\$16,305.00	\$16,305.00
2	2.02	Mobilization and Demobilization	1	LS	\$30,000.00	\$30,000.00	\$44,500.00	\$44,500.00	\$31,250.00	\$31,250.00
3	2.04	Temporary Construction Entrance	3	EA	\$2,300.00	\$6,900.00	\$3,800.00	\$11,400.00	\$2,802.00	\$8,406.00
4	3	Grading	1	LS	\$95,193.75	\$95,193.75	\$587,000.00	\$587,000.00	\$380,175.67	\$380,175.67
5a	4.01	Constructed Riffle with Native Material (CR-NM) - Third Fork	6	EA	\$600.00	\$3,600.00	\$6,800.00	\$40,800.00	\$722.00	\$4,332.00
5b	4.01	Constructed Riffle with Native Material (CR-NM) - UT	9	EA	\$550.00	\$4,950.00	\$2,400.00	\$21,600.00	\$211.00	\$1,899.00
6a	4.02	Woody Debris Riffle (CR-WD) - Third Fork	3	EA	\$650.00	\$1,950.00	\$4,800.00	\$14,400.00	\$967.00	\$2,901.00
6b	4.02	Woody Debris Riffle (CR-WD) - UT	2	EA	\$590.00	\$1,180.00	\$2,400.00	\$4,800.00	\$452.00	\$904.00
7a	4.03	Angled Log Riffle (CR-AL) - Third Fork	3	EA	\$750.00	\$2,250.00	\$4,800.00	\$14,400.00	\$714.00	\$2,142.00
7b	4.03	Angled Log Riffle (CR-AL) - UT	1	EA	\$650.00	\$650.00	\$2,400.00	\$2,400.00	\$806.00	\$806.00
8a	4.04	Angled Log Sill - Third Fork	3	EA	\$600.00	\$1,800.00	\$3,300.00	\$9,900.00	\$875.00	\$2,625.00
8b	4.04	Angled Log Sill - UT	2	EA	\$500.00	\$1,000.00	\$1,650.00	\$3,300.00	\$683.00	\$1,366.00
9a	4.05	Brush Toe Protection - Third Fork	369	LF	\$23.00	\$8,487.00	\$46.00	\$16,974.00	\$35.10	\$12,951.90
9b	4.05	Brush Toe Protection - UT	81	LF	\$19.00	\$1,539.00	\$35.00	\$2,835.00	\$21.00	\$1,701.00
10	4.6	Root Wads - Third Fork	10	EA	\$58.00	\$580.00	\$2,100.00	\$21,000.00	\$542.00	\$5,420.00
11	4.12	Log J-Hook	1	EA	\$900.00	\$900.00	\$2,800.00	\$2,800.00	\$1,815.00	\$1,815.00
12a	4.13	Rock Outlet Protection - Vernal Pools	11	EA	\$500.00	\$5,500.00	\$1,800.00	\$19,800.00	\$854.00	\$9,394.00
12b	4.13	Rock Outlet Protection - Overflow Channel, Project Area 3	1	EA	\$600.00	\$600.00	\$5,300.00	\$5,300.00	\$1,172.00	\$1,172.00
13	6.01	Surface Water Diversion/ Pump Around	1	LS	\$12,000.00	\$12,000.00	\$26,000.00	\$26,000.00	\$30,000.00	\$30,000.00
14	6.03	Silt Fence	1,950	LF	\$3.00	\$5,850.00	\$2.00	\$3,900.00	\$2.50	\$4,875.00
15	6.04	Temporary Stream Crossing	9	EA	\$1,200.00	\$10,800.00	\$420.00	\$3,780.00	\$500.00	\$4,500.00
16	6.05	Coir Fiber Matting	5,520	SY	\$4.00	\$22,080.00	\$3.00	\$16,560.00	\$5.00	\$27,600.00
17	6.06	Safety Fence/Tree Protection Fencing	1,360	LF	\$1.65	\$2,244.00	\$2.00	\$2,720.00	\$1.70	\$2,312.00
18	7.01	Temporary Seeding	4.8	AC	\$460.00	\$2,208.00	\$800.00	\$3,840.00	\$635.00	\$3,048.00
19	7.02	Permanent Seeding	4.8	AC	\$1,450.00	\$6,960.00	\$1,050.00	\$5,040.00	\$1,900.00	\$9,120.00
20	8.01	Live Stakes	2,500	STEM	\$2.25	\$5,625.00	\$2.00	\$5,000.00	\$2.60	\$6,500.00
21	8.02	Riparian Planting, Bare Roots	900	STEM	\$3.00	\$2,700.00	\$2.50	\$2,250.00	\$2.60	\$2,340.00
22	8.04	Herbaceous Plugs	750	PLUG	\$3.00	\$2,250.00	\$2.50	\$1,875.00	\$2.60	\$1,950.00
23	1	Utility Line/Pole Relocation and Coordination Allowances	1	EA	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00
24	1	Testing and Inspecting Allowances	1	EA	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00	\$6,000.00
					<b>Subtotal</b>	\$276,796.75	<b>Subtotal</b>	\$930,774.00	<b>Subtotal</b>	\$588,810.57
<b>MISCELLANEOUS ADDITIVE ALTERNATE ITEMS</b>										
AA1	3	Bedrock Excavation - Rock Hammer Mobilization	1	EA	\$2,000.00	\$2,000.00	\$1,980.00	\$1,980.00	\$1,460.00	\$1,460.00
AA2	3	Bedrock Excavation - Daily Rate	1	DY	\$2,000.00	\$2,000.00	\$1,150.00	\$1,150.00	\$3,465.00	\$3,465.00
AA3	5.01	Miscellaneous Boulders	1	TN	\$100.00	\$100.00	\$75.00	\$75.00	\$120.00	\$120.00
AA4	5.01	Miscellaneous Gravel - #57 Stone	1	TN	\$43.00	\$43.00	\$31.00	\$31.00	\$60.00	\$60.00
AA5	5.01	Miscellaneous Class A Stone	1	TN	\$48.00	\$48.00	\$36.00	\$36.00	\$70.00	\$70.00
AA6	5.01	Miscellaneous Class B Stone	1	TN	\$49.00	\$49.00	\$36.00	\$36.00	\$70.00	\$70.00
AA7	5.01	Miscellaneous Class 1 Stone	1	TN	\$60.00	\$60.00	\$39.00	\$39.00	\$80.00	\$80.00
AA8	5.01	Miscellaneous Class 2 Stone	1	TN	\$65.00	\$65.00	\$42.00	\$42.00	\$80.00	\$80.00
AA9	8.03	Live Woody Transplants	1	EA	\$67.00	\$67.00	\$50.00	\$50.00	\$50.00	\$50.00
					<b>Miscellaneous Additive Alternates Subtotal</b>	\$4,432.00	<b>Subtotal</b>	\$3,439.00	<b>Subtotal</b>	\$5,455.00

Carolina Environmental Contracting, Inc. was identified as the apparent successful bidder on 10/12/2016. The proposed contract amount exceeded the budget for the project. Staff negotiated the unit price cost of item no. 4 with the contractor due to the variance between the opinion of probable cost and the bid price. Details of the item were discussed and clarified resulting in a reduction in the unit price cost from \$398,063.00 to \$380,175.67 on 12/14/2016.

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Item No.	Spec.	Item Description	Quantity	Unit	Opinion of Probable Cost		Backwater Environmental		Carolina Environmental Contracting, Inc.	
					Unit Price	Item Value	Unit Price	Item Value	Unit Price	Item Value
<b>ADDITIVE ALTERNATE - TIMBER BOARDWALK AREA 1</b>										
C.1	2.01	Mobilization and Demobilization - Area 1	1	LS	\$28,200.00	\$28,200.00	\$72,280.00	\$72,280.00	\$55,407.00	\$55,407.00
C.2	9.06	Deck (4x6 decking)	3,648	LF	\$19.00	\$69,312.00	\$10.50	\$38,304.00	\$6.70	\$24,441.60
C.3	9.06	Beams (4x12)	1,368	LF	\$26.00	\$35,568.00	\$45.00	\$61,560.00	\$33.30	\$45,554.40
C.4	9.06	Bent Cap (4x12) -18 caps	248	LF	\$40.00	\$9,920.00	\$145.00	\$35,960.00	\$112.00	\$27,776.00
C.5	9.06	Piles (8x8) 42 piles -assume 37' length	1,554	LF	\$25.00	\$38,850.00	\$1.50	\$2,331.00	\$1.10	\$1,709.40
C.6	9.06	Stainless Connection Brackets	1	LS	\$18,000.00	\$18,000.00	\$31,540.00	\$31,540.00	\$24,450.00	\$24,450.00
C.12	9.06	Handrails (Refer to Layout Note 6 on Sheet C-2.0)	90	LF	\$45.00	\$4,050.00	\$63.00	\$5,670.00	\$46.70	\$4,203.00
A.1	9.01	Aggregate Base Course	50	TN	\$20.00	\$1,000.00	\$66.00	\$3,300.00	\$69.00	\$3,450.00
A.2	9.02	Geotextile for Soil Stabilization	155	SY	\$5.00	\$775.00	\$7.00	\$1,085.00	\$3.50	\$542.50
A.3	9.03	Asphalt Concrete Surface Course, Type S 9.5A	20	TN	\$100.00	\$2,000.00	\$177.00	\$3,540.00	\$215.00	\$4,300.00
A.4	9.04	Removal of Existing Asphalt Pavement	291	SY	\$45.00	\$13,095.00	\$20.00	\$5,820.00	\$4.60	\$1,338.60
<b>Additive Alternate - Timber Boardwalk Area 1 Subtotal</b>						\$220,770.00	<b>Subtotal</b>	\$261,390.00	<b>Subtotal</b>	\$193,172.50
<b>ADDITIVE ALTERNATE - TIMBER BOARDWALK AREA 3</b>										
C.1	2.01	Mobilization and Demobilization - Area 3	1	LS	\$28,200.00	\$28,200.00	\$118,592.00	\$118,592.00	\$89,956.00	\$89,956.00
C.2	9.06	Deck (4x6 decking)	8,736	LF	\$19.00	\$165,984.00	\$10.00	\$87,360.00	\$6.70	\$58,531.20
C.3	9.06	Beams (4x12)	3,276	LF	\$26.00	\$85,176.00	\$44.00	\$144,144.00	\$33.30	\$109,090.80
C.4	9.06	Bent Cap (4x12) -50 caps	600	LF	\$40.00	\$24,000.00	\$143.00	\$85,800.00	\$112.00	\$67,200.00
C.5	9.06	Piles (8x8) 100 piles -assume 37' length	3,700	LF	\$25.00	\$92,500.00	\$1.50	\$5,550.00	\$1.10	\$4,070.00
C.6	9.06	Stainless Connection Brackets	1	LS	\$32,760.00	\$32,760.00	\$89,337.00	\$89,337.00	\$60,667.00	\$60,667.00
A.1	9.01	Aggregate Base Course	50	TN	\$20.00	\$1,000.00	\$65.00	\$3,250.00	\$69.00	\$3,450.00
A.2	9.02	Geotextile for Soil Stabilization	147	SY	\$5.00	\$735.00	\$7.00	\$1,029.00	\$3.50	\$514.50
A.3	9.03	Asphalt Concrete Surface Course, Type S 9.5A	20	TN	\$100.00	\$2,000.00	\$176.00	\$3,520.00	\$215.00	\$4,300.00
A.4	9.04	Removal of Existing Asphalt Pavement	535	SY	\$45.00	\$24,075.00	\$20.00	\$10,700.00	\$4.60	\$2,461.00
<b>Additive Alternate - Timber Boardwalk Area 3 Subtotal</b>						\$456,430.00	<b>Subtotal</b>	\$549,282.00	<b>Subtotal</b>	\$400,240.50
<b>ADDITIVE ALTERNATE - PERMATRAK BOARDWALK AREA 1</b>										
B.1	9.05	Permatrak Boardwalk - Area 1	1,682	SF	\$85.00	\$142,970.00	\$80.00	\$134,560.00	\$78.00	\$131,196.00
B.2	9.06	Permatrak Boardwalk Handrails - Area 1	90	LF	\$45.00	\$4,050.00	\$85.00	\$7,650.00	\$47.00	\$4,230.00
A.1	9.01	Aggregate Base Course	50	TN	\$20.00	\$1,000.00	\$69.00	\$3,450.00	\$69.00	\$3,450.00
A.2	9.02	Geotextile for Soil Stabilization	155	SY	\$5.00	\$775.00	\$7.00	\$1,085.00	\$3.50	\$542.50
A.3	9.03	Asphalt Concrete Surface Course, Type S 9.5A	20	TN	\$100.00	\$2,000.00	\$185.00	\$3,700.00	\$215.00	\$4,300.00
A.4	9.04	Removal of Existing Asphalt Pavement	291	SY	\$45.00	\$13,095.00	\$20.00	\$5,820.00	\$4.60	\$1,338.60
A.5	2.01	Mobilization and Demobilization - Area 1	1	LS	\$3,200.00	\$3,200.00	\$142,287.00	\$142,287.00	\$74,512.00	\$74,512.00
<b>Additive Alternate - Permatrak Boardwalk Area 1 Subtotal</b>						\$167,090.00	<b>Subtotal</b>	\$298,552.00	<b>Subtotal</b>	\$219,569.10
<b>ADDITIVE ALTERNATE - PERMATRAK BOARDWALK AREA 3</b>										
B.1	9.05	Permatrak Boardwalk - Area 3	4,093	SF	\$85.00	\$347,905.00	\$80.00	\$327,440.00	\$78.00	\$319,254.00
A.1	9.01	Aggregate Base Course	50	TN	\$20.00	\$1,000.00	\$65.00	\$3,250.00	\$69.00	\$3,450.00
A.2	9.02	Geotextile for Soil Stabilization	147	SY	\$5.00	\$735.00	\$7.00	\$1,029.00	\$3.50	\$514.50
A.3	9.03	Asphalt Concrete Surface Course, Type S 9.5A	20	TN	\$100.00	\$2,000.00	\$175.00	\$3,500.00	\$215.00	\$4,300.00
A.4	9.04	Removal of Existing Asphalt Pavement	535	SY	\$45.00	\$24,075.00	\$20.00	\$10,700.00	\$4.60	\$2,461.00
A.5	2.01	Mobilization and Demobilization - Area 3	1	LS	\$3,200.00	\$3,200.00	\$221,486.00	\$221,486.00	\$88,889.00	\$88,889.00
<b>Additive Alternate - Permatrak Boardwalk Area 3 Subtotal</b>						\$378,915.00	<b>Subtotal</b>	\$567,405.00	<b>Subtotal</b>	\$418,868.50
<b>Base Bid with Miscellaneous Additive Alternates</b>						\$281,228.75		\$934,213.00		\$594,265.57
<b>Base Bid with Miscellaneous Additive Alternates and Timber Boardwalk</b>						\$958,428.75		\$1,744,885.00		\$1,187,678.57
<b>Base Bid with Miscellaneous Additive Alternates and Permatrak Boardwalk</b>						\$827,233.75		\$1,800,170.00		\$1,232,703.17



The Bid proposals tabulated herein were opened and read aloud at 1:30 pm, local time on October 12, 2016 in the City of Durham Public Works Department conference room, 101 City Hall Plaza, Durham NC, 27701. The Bid tabulation is correct in that it contains the total base bid amounts and additive alternative amounts presented on the original Bid proposals. The Bid proposals are still being evaluated by the City of Durham.

Dana P. Hornkohl, P.E.  
City of Durham, Public Works Department