

# Beaufort County Public Works Stormwater Infrastructure

Project Summary

Project Summary: Ephraim Road Outfall

Project #: 2010-082 Completed: Apr-10

Narrative Description of Project:

Project improved 8,288 L.F. of drainage system. Bush hogged 8,248 L.F. of outfall. Cleaned out 7,868 L.F. of outfall ditch. Installed (1) access pipe and (2) bleeder pipes. Replaced twin flap gates and 80 L.F. of outfall pipe. Jetted (5) crossline pipes and (1) access pipe. Installed rip rap and hydroseeded for erosion control.

#### Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
12" HDPE Pipe	linear feet	\$4.86	80.0	\$388.80
15" HDPE Pipe	linear feet	\$6.22	80.0	
36" HDPE Pipe	linear feet	\$26.41	40.0	\$1,056.40
36" Aluminum Pipe	linear feet	\$18.76	80.0	\$1,500.80
36" Flap Gate	each	\$2,827.18	2.0	\$5,654.35
Fill Dirt	ton	\$1.00	620.4	\$620.39
Rip Rap	ton	\$47.08	29.8	\$1,403.93
#57 Stone	ton	\$47.00	26.9	\$1,263.36
Broken Concrete	ton	\$1.00	42.5	\$42.53
Filter Blanket Woven	sy	\$0.63	236.1	\$148.75
Silt Fence	sy	\$0.78	15.2	\$11.82
Silt Fence w/ Stakes	sy	\$0.49	44.7	\$21.91
Turf Staples	each	\$0.03	155.0	\$4.65
10-10-10 Fertilizer	bag	\$11.72	4.0	\$46.88
Hydromulch	bale	\$12.22	8.0	\$97.76
Hydrogel	cup	\$2.82	4.0	\$11.28
Hydromax Liquid Fertilizer	cup	\$2.54	4.0	\$10.16
Annual Rye Grass Seed	bag	\$19.21	4.0	\$76.84
Pin Flag	each	\$0.06	39.0	\$2.34
Debris Disposal	ton	\$26.00	32.9	\$856.44
Water	gallon	\$0.01	4,250	\$42.50
Gas	gallon	\$2.67	233.5	\$623.45
Diesel	gallon	\$2.70	1,795.5	\$4,847.85
Labor	hours		1,676.0	\$58,243.58
Total Cost of Materials, Rental Equip., and Labor				\$77,474.37

Note: Labor cost includes the employee's salary plus fringe benefits.

## Site Photographs

Before



During



After



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### **Equipment Cost**

Cost/Hou Item Asset Hrs. Cost Volvo 330 Excavator 22993 \$65.72 6.0 \$394.32 \$22.51 \$1,361.86 CAT 325 Excavator 16649 60.5 Komatsu Mini Excavator 23000 \$18.65 5.0 \$93.25 JCB Urban Excavator \$445.83 23364 \$40.53 11.0 23125 **CAT Dozer** \$35.50 1.0 \$35.50 JD Loader 444J \$29.75 14.0 \$416.50 23271 JCB Backhoe 22810 \$36.50 4.0 \$146.00 \$452.25 Bobcat T300 22847 \$20.10 22.5 Bobcat T320 23388 \$21.00 5.0 \$105.00 Bush Hog 23362 \$42.37 32.5 \$1,377.03 23118 \$34.64 \$155.88 Lowboy 4.5 Vacuum Truck \$20.30 \$182.70 22812 9.0 \$22.05 Hydroseeder 18909 \$7.35 3.0 Dump Trucks \$16.68 458.5 \$7,647.78 Pickup Trucks \$4.17 428.5 \$1,786.85 Total Equipment Cost \$14,622.79

Cost/hour excludes fuel cost.

Total Cost: \$92,097.15

#### Site Photographs



After

Before





