



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: West River Drive

Project #: 2011-019 Completed: Sep-10

Narrative Description of Project:
 Project improved 288 L.F. of drainage system. Removed blockage from flowline. Grubbed, cleared and cleanout 220 L.F. of outfall ditch. Installed (2) catch basins, (1) crossline pipe, (1) access pipe and 44 L.F. outfall pipe. Jetted (3) driveway pipes, (1) crossline pipe and 24 L.F. of roadside pipe. Installed rip rap, handseeded and hydroseeded for erosion control.

Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
15" RCP Pipe	linear feet	\$9.62	48.0	\$461.76
18" Aluminum Pipe	linear feet	\$8.05	20.0	\$161.00
6" Corrugated Pipe				\$127.18
6" Single Wall Solid HDPE Pipe	feet	\$1.53	100.0	\$153.00
6" Catch Basin Out	each	\$4.86	4.0	\$19.44
12" Catch Basin				215.07
18x18 Grate Cover	each	\$112.55	2.0	\$225.10
18x18 Out Basin Cover	each	\$134.62	2.0	\$269.24
Cover Plug	each	\$3.61	2.0	\$7.22
Fill Dirt	ton	\$1.00	159.1	\$159.08
Rip Rap	ton	\$43.87	18.6	\$817.74
Filter Blanket	sy	\$0.63	83.3	\$52.50
Silt Fence	sy	\$0.78	9.7	\$7.58
Silt Fence w/ Stakes	sy	\$0.24	19.4	\$4.67
Turf Staple	each	\$0.03	55.0	\$1.65
10-10-10 Fertilizer	bag	\$11.72	2.0	\$23.44
Hydromulch	bale	\$12.22	4.0	\$48.88
Hydrogel	cup	\$2.82	2.0	\$5.64
Hydromax Liquid Fertilizer	cup	\$2.54	2.0	\$5.08
Annual Rye Grass Seed	bag	\$24.61	1.0	\$24.61
Pennington Centipede Grass Seed	bag	\$545.90	1.0	\$545.90
Centipede Grass Seed	bag	\$10.00	10.0	\$100.00
Water	gallon	\$0.01	1,750	\$17.50
All Purpose Sand	bag	\$3.80	2.0	\$7.60
Sediment Log	each	\$29.96	2.0	\$59.92
Pin Flag	each	\$0.06	4.0	\$0.24
4ft Flagger	each	\$0.34	6.0	\$2.04
Debris Disposal	ton	\$33.00	18.7	\$615.78

Site Photographs

Before



During



After



West River Drive Project Summary Con't

Project #: 2011-019

Material Cost, Rental Equipment Summary, and Labor

Material	Unit	Cost/Unit	Qty	Cost
Debris Disposal	ton	\$30.00	6.1	\$181.50
Tree Removal Service				\$1,600.00
Gas	gallon	\$2.40	150.5	\$361.20
Diesel	gallon	\$2.70	591.0	\$1,595.70
Labor	hours		682.0	\$15,153.07
Indirect Labor, Services, and Supplies				\$10,555.67
Total Cost of Materials, Rental Equip., and Labor				\$33,585.99

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

Equipment Cost

Item	Asset No.	Cost/Hour	Hrs.	Cost
Volvo 290 Excavator	22870	\$54.13	14.0	\$757.82
Volvo 330 Excavator	22993	\$59.32	2.0	\$118.64
Komatsu Mini Excavator	23000	\$14.90	2.0	\$29.80
JCB Urban Excavator	23364	\$31.45	22.0	\$691.90
JD Loader 444J	23271	\$29.75	8.0	\$238.00
Bobcat T320	23388	\$21.00	16.0	\$336.00
Lowboy	23118	\$34.64	9.0	\$311.76
Vacuum truck	22812	\$22.16	10.0	\$221.60
Hydroseeder	23474	\$12.44	5.0	\$62.20
Chipper	19411	\$7.64	8.0	\$61.12
Dump Trucks		\$4.12	138.0	\$568.56
Pickup Trucks		\$13.31	195.5	\$2,602.11
Total Equipment Cost				\$5,999.51

Cost/hour excludes fuel cost.

Total Cost: \$39,585.50

Site Photographs

Before



During



After



Project: West River Drive
Map 1

Activity: Drainage
Maintenance

Project #:
2011-019

Township: Lady's
Island

Completed:
September 2010



Legend

Drainage Type

- River
- Stream
- Outfall
- Lateral
- Lateral Pipe
- Roadside
- Roadside Pipe
- Crossline
- D/W
- Access
- Piped
- Bleeder
- Parcels

0 20 40 80 120 160
Feet

1 inch = 69 feet

Prepared By: BC Stormwater Management Utility

Date Print: 5/2/11

File:C:/sethdata/projects/projectmaps/West River Dr 2011-019 Map1



Project: West River Drive
Map 2

Activity: Vacuum Truck







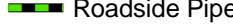





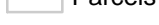
Project #: 2011-019

Township: Lady's Island

Completed: September 2010

Legend

Drainage Type

-  River
-  Stream
-  Outfall
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Crossline
-  D/W
-  Access
-  Piped
-  Bleeder
-  Parcels



1 inch = 277 feet

Prepared By: BC Stormwater Management Utility

Date Print: 4/29/11

File:C:/sethdata/projects/projectmaps/Vactruck/West River Dr 2011-019 Map2