



**Beaufort County Public Works**  
**Stormwater Infrastructure**  
*Project Summary*

Project Summary: Chisholm Hill Road Outfall

Project #: 2010-086                      Completed: Aug-10

Narrative Description of Project:  
 Project improved 6,086 L.F. of drainage system. Shinn cut, grubbed and reconstructed 6,086 L.F. of outfall ditch and workshelf. Installed (10) bleeder pipes, (7) access pipes and (4) access gates. Upsized (1) crossline pipe. Replaced (1) crossline pipe. Repaired washout. Jetted (1) crossline pipe. Installed rip rap 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	72.0	\$692.64
24" RCP Pipe	linear feet	\$17.86	80.0	\$1,428.80
12" HDPE Pipe	linear feet	\$4.86	260.0	\$1,263.60
18" HDPE Pipe	linear feet	\$8.71	40.0	\$348.40
24" HDPE Pipe	linear feet	\$13.89	160.0	\$2,222.40
Fill Dirt	ton	\$1.00	514.3	\$514.34
Rip Rap	ton	\$47.08	41.0	\$1,930.28
#57 Stone	ton	\$47.00	10.2	\$481.16
Recycled Concrete	ton	\$1.00	326.0	\$326.03
Silt Fence	sy	\$0.78	75.1	\$58.54
Filter Blanket Woven	sy	\$0.63	231.9	\$146.12
Turf Staples	each	\$0.03	233.0	\$6.99
10-10-10 Fertilizer	bag	\$11.72	8.0	\$93.76
Hydrogel	cup	\$2.82	8.0	\$22.56
Hydromulch	bale	\$12.22	16.0	\$195.52
Hydromax Liquid Fertilizer	cup	\$2.54	8.0	\$20.32
Brown Top Millet Grass Seed	bag	\$21.40	8.0	\$171.20
Water	gallon	\$0.01	4,100	\$41.00
Quikrete Concrete	bag	\$3.19	8.0	\$25.52
4x4x8 Post	each	\$6.27	8.0	\$50.16
16ft Access Gate	each	\$138.03	4.0	\$552.12
Pin Flags	each	\$0.06	62.0	\$3.72
4ft Flagger	each	\$0.34	24.0	\$8.16
Caution Tape	roll	\$14.55	8.0	\$116.40
Orange Safety Fence	roll	\$29.96	1.0	\$29.96
Debris Disposal	ton	\$16.00	145.6	\$2,329.76
Debris Disposal	ton	\$30.00	21.2	\$636.30
Debris Disposal	ton	\$33.00	167.7	\$5,533.77

**Site Photographs**

Before



During



After



**Chisholm Hill Road Outfall Project Summary Con't**

Project #: 2010-086

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

Material	Unit	Cost/Unit	Qty	Cost
Portable Toilet Service				\$130.00
Gate Repair				\$250.00
Gas	gallon	\$2.48	270.0	\$669.60
Diesel	gallon	\$2.71	3,751	\$10,165.21
Labor	hours		2,523	\$56,059.24
Indirect Labor, Services, and Supplies				\$39,333.03
<b>Total Cost of Materials, Rental Equip., and Labor</b>				<b>\$125,856.61</b>

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

**Equipment Cost**

Item	Asset No.	Cost/Hour	Hrs.	Cost
Shinn Cutter	22943	\$35.74	75.0	\$2,680.50
Volvo 290 Excavator	22870	\$54.13	104.0	\$5,629.52
Volvo 330 Excavator	22993	\$59.32	2.0	\$118.64
CAT 325 Excavator	16649	\$22.84	82.5	\$1,884.30
Komatsu Mini Excavator	23000	\$14.90	29.0	\$432.10
JCB Urban Excavator	23364	\$31.45	4.0	\$125.80
Cat Dozer	23125	\$35.50	74.0	\$2,627.00
JD Loader 444J	23271	\$29.75	38.0	\$1,130.50
JCB Backhoe	22810	\$36.50	3.0	\$109.50
Bobcat T300	22847	\$20.10	5.0	\$100.50
Bobcat T320	23388	\$21.00	5.0	\$105.00
Lowboy	23118	\$34.64	9.5	\$329.08
Vacuum Truck	22812	\$22.16	1.0	\$22.16
Hydroseeder	18909	\$7.35	9.0	\$66.15
Dump Trucks		\$13.31	620.5	\$8,258.86
Pickup Trucks		\$4.12	812.0	\$3,345.44
<b>Total Equipment Cost</b>				<b>\$26,965.05</b>

Cost/hour excludes fuel cost.

Total Cost: \$152,821.66

**Site Photographs**

Before



During



After



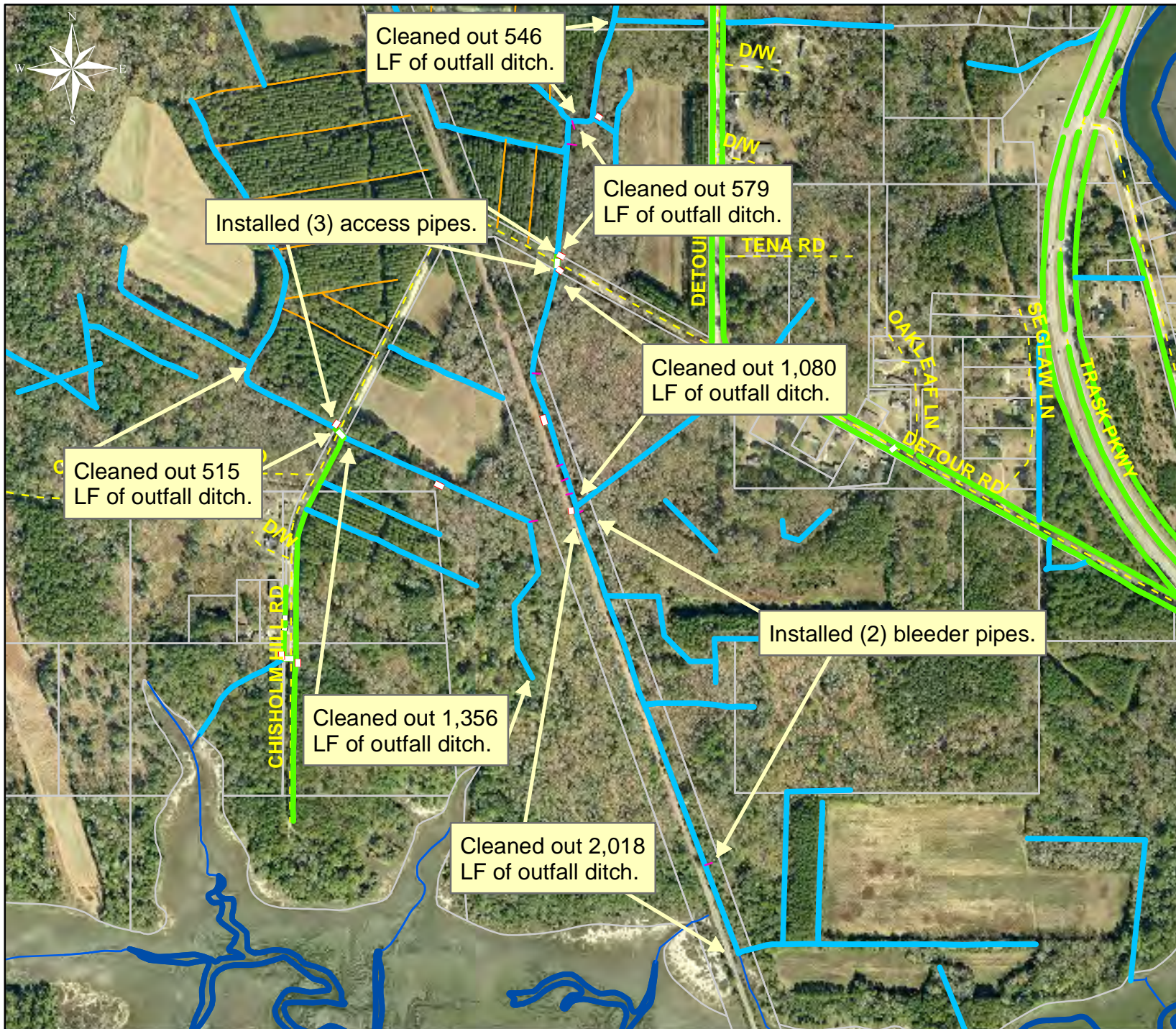
Project: Chisholm Hill Road Outfall  
Map 1

Activity: Drainage Maintenance

Project #: 2010-086

Township: Port Royal Island

Completed: August 2010



**Legend**

**Drainage Type**

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



1 inch = 599 feet

Project: Chisholm Hill Road Outfall  
Map 2

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1 inch = 285 feet