



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD

Wednesday, November 6, 2013

2:00 p.m.

Beaufort Industrial Village, Building 2 Conference Room
102 Industrial Village Road, Beaufort
843.255.2801

In accordance with South Carolina Code of Laws, 1976, as amended, Section 30-4-80(d), all local media was duly notified of the time, date, place and agenda of this meeting.

1. CALL TO ORDER – 2:00 p.m.
 - A. Approval of Agenda
 - B. Approval of Minutes – October 2, 2013 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Update – Gary Kubic
 - B. Financial Report – Alan Eisenman ([backup](#))
 - C. Monitoring Update – Danny Polk
 - D. Utility Update – Robert McFee, P.E.
 - E. Upcoming Professional Contracts Report – Robert McFee, P.E.
 - F. Together For Beaufort Water Quality Coalition – Denise Parsick ([backup](#))
 - G. Maintenance Project Report – Eddie Bellamy ([backup](#))
5. UNFINISHED BUSINESS
 - A. Regional Coordination – Robert McFee, P.E.
6. NEW BUSINESS
 - A. 2014 SWMU Board Meeting Schedule – Don Smith ([backup](#))
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. December 4, 2013 ([backup](#))
9. ADJOURNMENT



Beaufort County Stormwater Management Utility Board (SWMU Board)
Meeting Minutes

October 2, 2013 at 2:00 p.m. in Beaufort Industrial Village Building #2 Conference Room
Draft October 30, 2013

Board Members

Present	Absent
Don Smith	John Youmans
William Bruggeman	James Fargher
Patrick Mitchell	
Allyn Schneider	

Ex-Officio Members

Present	Absent
Andy Kinghorn	Tony Maglione
Scott Liggett	
Kimberly Jones	

Beaufort County Staff

Eddie Bellamy
Carolyn Wallace

Visitors

Paul Moore, Ward Edwards
Reed Armstrong, Coastal Conservation League
Van Willis, Town of Port Royal

1. Meeting called to order – Don Smith

- A. Agenda – approved.
- B. September 4, 2013 Minutes – approved.

2. Introductions – Completed.

3. Public Comment(s) – None.

4. Reports –

- A. **Monitoring Update** – No report provided (staff presenter not in attendance).

- B. **Utility Updates** –

Okatie East Retrofit Project – Mr. Eddie Bellamy said the Stormwater Infrastructure section has removed the old boiler system; installed the pipe, with headwall and flare-end; and reconstructed the road. Only remaining task is installing the gate valve. Mr. Bellamy said opening the valve during a storm event will be added to the hurricane checklist. Mr. Paul Moore added that the gate valve has been designed with an overflow option if the valve is not opened up during a storm event.

Salinity Study - Mr. Andy Kinghorn said they had their first advisory meeting for the Salinity Study. SCDNR has received a grant that will allow them to study five watersheds simultaneously within a year. The watersheds will include the May River, Okatie River, and both the Burton Hill and Grober Hill branches of Battery Creek. They are in the process of selecting the fifth watershed. The representatives from SCDNR are going to come back with a recommendation from the possibilities that were given. Mr. Smith said the study is labor intensive with the sensors having to be serviced every two weeks.

Battery Creek Retrofit Project - Mr. Kinghorn said Mr. Moore and Ward Edwards have been working with the City of Beaufort and the county to develop a 319 grant. Mr. Moore did a good job in pulling the information needed to respond to DHEC’s concerns with the original application. The information has been provided and the city and county should be receiving the \$350,000 grant.

- C. **Upcoming Professional Contracts Report** – No report provided (staff presenter not in attendance).

D. Financial Reports – Copies of the August Stormwater Financials were provided.

E. Maintenance Projects Report – Eddie Bellamy: Mr. Bellamy reported on (10) minor and/or routine maintenance projects in a shortened format.

He also presented (2) major projects: H. E. McCracken Middle School, and Rice Road Pond. Mr. Bellamy said he was particularly proud of the Rice Road Pond project. It is the final phase of a long term plan Public Works has had to correct the drainage problems associated with Rice Road. The Stormwater Infrastructure Section removed the existing overflow structure and replaced it with one that has a six inch hole for normal drainage and then, starting six inches higher, a weir that will handle heavy rainfall events. They dredged the silt out of the pond and established a forebay by installing a check dam at the upper end of the pond. That arrangement causes the water from the roads to overflow the forebay before entering the main area of the pond. It allows treatment of the water and catches any silt that may come off the roads.

5. Unfinished Business – No report provided (staff presenter not in attendance).

6. New Business

Sewer Septic Master Plan - Ms. Kimberly Jones said the Town of Bluffton and Beaufort Jasper Water Sewer Authority have hired a firm to complete a septic assessment and then provide a sewer master plan. She said she didn't know if the board members would like a presentation once it is completed this month.

Pond Conferences – The Coastal Training Program for Ace Basin NERR, the Sea Grant, and the Town of Bluffton are interested in bringing a pond conference to Beaufort, specifically to address the maintenance of SW BMPs ponds. This has also been discussed with the Together for Beaufort Water Quality Coalition and they are interested in participating. She also said the coalition would like to speak to the board whenever a consultant is selected for the Public Education/Public Outreach initiative.

2013 Goals – Mr. Don Smith would like to review the status of our top 10 goals for 2013. Mrs. Carolyn Wallace mentioned that she usually appear at the December board meeting to solicit the board members input in the top 10 goals for the upcoming calendar year since this a guiding document used in the budget process. And in January she provides the status of the previous year's goal. Mr. Smith said they would like to wait until then to receive the update.

January 2014 Regularly Scheduled Board Meeting – Mr. Smith mentioned that the January board meeting will fall on New Year's Day. The board members decided to wait to see what topics come up for the January board meeting, before deciding if they will reschedule or cancel the board meeting.

Vacant Board Members' Seat – Mr. Allyn Schneider was wondering if there was an update on filling the vacant seats. There was none. Mr. Van Willis mentioned that he will be serving as the ex-officio member representing the Town of Port Royal. Mrs. Wallace will see if she can find out if Mr. John Youmans has resigned. Mr. Patrick Mitchell said he had seen where the county had been soliciting for candidates for the board.

7. Public Comment – None.

8. Next Meeting Agenda – Approving the 2014 meeting schedule and a short presentation from the Together for Beaufort Water Quality Coalition is added to the November agenda.

9. Meeting Adjourned.

UNAUDITED AND PRELIMINARY
BEAUFORT COUNTY, SOUTH CAROLINA
STATEMENT OF NET ASSETS
Stormwater Utility
September 30, 2013 & September 30, 2012

	<u>September 30, 2013</u>	<u>September 30, 2012</u>
<u>ASSETS</u>		
Current Assets		
Cash and Investments with Trustee	\$ 2,173,372	\$ 1,822,519
Receivables, Net	42,728	5,590.00
Inventories	92,511	102,941
Total Current Assets	<u>2,308,611</u>	<u>1,931,050</u>
Capital Assets	2,904,079	2,798,912
Accumulated Depreciation	<u>(2,073,571)</u>	<u>(1,866,318)</u>
	830,508	932,594
Total Assets	\$ 3,139,119	\$ 2,863,644
<u>LIABILITIES</u>		
Liabilities		
Account Payable	179,783	51,709
Accrued Payroll	51,585	35,546
Accrued Compensated Absences	6,247	4,470
Total Current Liabilities	<u>237,615</u>	<u>91,725</u>
Long Term Liabilities		
Accrued Compensated Absences	55,379	64,937
Net Other Postemployment Benefits Obligation	768,986	628,506
Total Long Term Liabilities	<u>824,365</u>	<u>693,443</u>
Total Liabilities	1,061,980	785,168
<u>NET ASSETS</u>		
Invested in Capital Assets, Net of Related Debt	830,508	932,594
Reserved for Encumbrances	255,007	266,700
Unrestricted	<u>991,624</u>	<u>879,182</u>
Total Net Assets	<u>\$ 2,077,139</u>	<u>\$ 2,078,476</u>

Unaudited and Preliminary
 BEAUFORT COUNTY, SOUTH CAROLINA
 STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS
 Stormwater Utility
 For the Period Ended September 30, 2013

	Budget FY 2014	September 30, 2013	Budget to Actual	Percent of Budget
Operating Revenues				
Stormwater Utility Fees	\$ 3,475,000	\$ 36,240	(3,438,760)	1%
Stormwater Utility Project Billings	60,023	399	(59,624)	1%
Total Operating Revenues	<u>3,535,023</u>	<u>36,639</u>	<u>(3,498,384)</u>	<u>1%</u>
Operating Expenses				
Personnel	2,160,475	334,723	(1,825,752)	15%
Purchased Services	961,864	159,155	(802,709)	17%
Supplies	381,446	78,283	(303,163)	21%
Depreciation	242,119	60,531	(181,588)	25%
Total Operating Expenses	<u>4,201,895</u>	<u>632,692</u>	<u>(3,569,203)</u>	<u>15%</u>
Operating Income (Loss)	(666,872)	(596,053)	70,819	89%
Non-Operating Revenues (Expenses)				
Interest Earned	6,922	-	(6,922)	0%
Total Non-Operating Revenues (Expenses)	<u>6,922</u>	<u>-</u>	<u>(6,922)</u>	<u>0%</u>
Change in Net Assets	(659,950)	(596,053)	63,897	90%
Net Assets, Beginning	<u>2,673,192</u>	<u>2,673,192</u>		
Net Assets, Ending	<u>\$ 2,013,242</u>	<u>\$ 2,077,139</u>	63,897	103%

Unaudited and Preliminary
 BEAUFORT COUNTY, SOUTH CAROLINA
 STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS
 Stormwater Utility
 For the Period Ended September 30, 2012

	Budget FY 2013	September 30, 2012	Budget to Actual	Percent of Budget
Operating Revenues				
Stormwater Utility Fees	\$ 3,469,180	\$ 52,897	(3,416,283)	2%
Stormwater Utility Project Billings	370,664	-	(370,664)	0%
Total Operating Revenues	<u>3,839,844</u>	<u>52,897</u>	<u>(3,786,947)</u>	<u>1%</u>
Operating Expenses				
Personnel	2,014,323	458,859	(1,555,464)	23%
Purchased Services	1,297,125	109,602	(1,187,523)	8%
Supplies	425,660	71,218	(354,442)	17%
Depreciation	273,545	68,388	(205,157)	25%
Total Operating Expenses	<u>4,010,653</u>	<u>708,067</u>	<u>(3,302,586)</u>	<u>18%</u>
Operating Income (Loss)	(170,809)	(655,170)	(484,361)	384%
Non-Operating Revenues (Expenses)				
Interest Earned	11,389	-	(11,389)	0%
Total Non-Operating Revenues (Expenses)	<u>11,389</u>	<u>-</u>	<u>(11,389)</u>	<u>100%</u>
Change in Net Assets	(159,420)	(655,170)	(495,750)	-100%
Net Assets, Beginning	<u>2,733,646</u>	<u>2,733,646</u>		
Net Assets, Ending	<u>\$ 2,574,226</u>	<u>\$ 2,078,476</u>	(495,750)	81%

Water Quality Coalition Partners



If you would like to become a member of the Water Quality Coalition, contact the Coalition Chair at

522-8100 or bswcd@islc.net

Also, check out our website:

<http://www.beaufortconservationdistrict.org/>

**Together**
for Beaufort County
One COUNTY. One FUTURE.

Progress Update

Water Quality Coalition



We challenged ourselves to accomplish 10 milestones to Improve Water Quality in Beaufort County.

Here is our progress...



What Does the Coalition Do?

The Together for Beaufort Water Quality Coalition was conceived and developed by the Beaufort Soil & Water Conservation District in 2006 when the four goals and sixteen objectives were introduced by the Alliance for Human Services. This local work group involves numerous stakeholders in water quality issues both governmental and non-governmental who sat at the table together to collaborate on problems and solutions. The “Next 10 Steps” was created and guides many of the decisions of these entities. We are grateful for the work done in 1997 by the Blueprint for Clean Water Task Force which was used as a point of where we were, where we are, and where we need to be.

This collaboration has led to developing the Intergovernmental Agreement Plan, the Storm-water Implementation Committee, and the County & Municipality Water Quality Monitoring Committee.

Beaufort County, Municipalities and BJW&S Authority should capitalize on opportunities for conservation and reuse of water.

Beaufort County in cooperation with Municipalities should establish managed household hazardous waste drop-off/reuse sites to prevent wastes from impacting waters.

Goals for 2013

To explore possible funding sources for failed septic systems while seeking potential ordinances for required septic system maintenance.

To determine how the new form based code zoning has positively affected the top ten water quality issues determined in 2007.

To increase public awareness of non-point source pollution and simple steps all homeowners can utilize to help insure the quality of our waters.



to Beaufort County to better educate citizens about decisions they can make in their daily lives to help make our surrounding rivers and ocean cleaner.

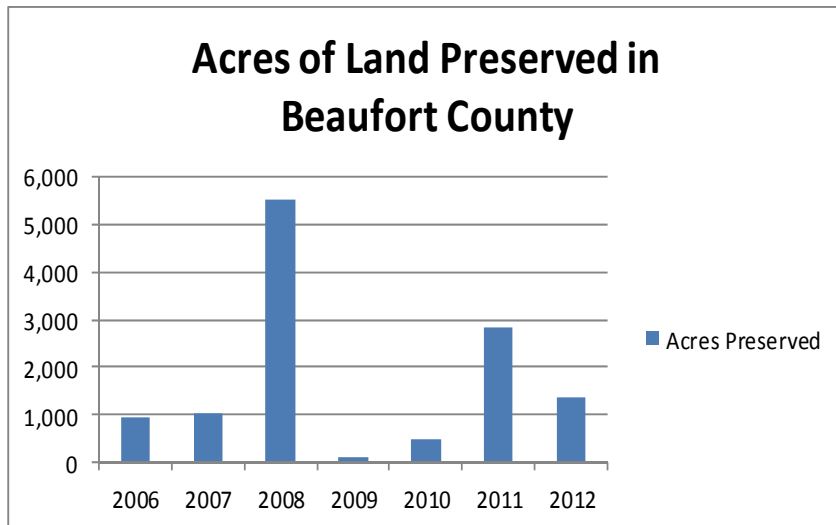
Beaufort County and Municipalities should include water quality controls in improvements to existing drainage systems.

State and Federal Agencies should endeavor to follow more rigid county and municipal stormwater requirements.

Beaufort County and Municipalities should continually improve their stormwater standards for new development.

Beaufort County, Municipalities, DHEC, and DNR should jointly develop, implement, and coordinate a stormwater monitoring strategy, to addresses water quality trends and performance of water quality control systems.

Water quality monitoring is coordinated in bi-monthly meetings with some of these agencies, and they now have six years of data that is being analyzed.



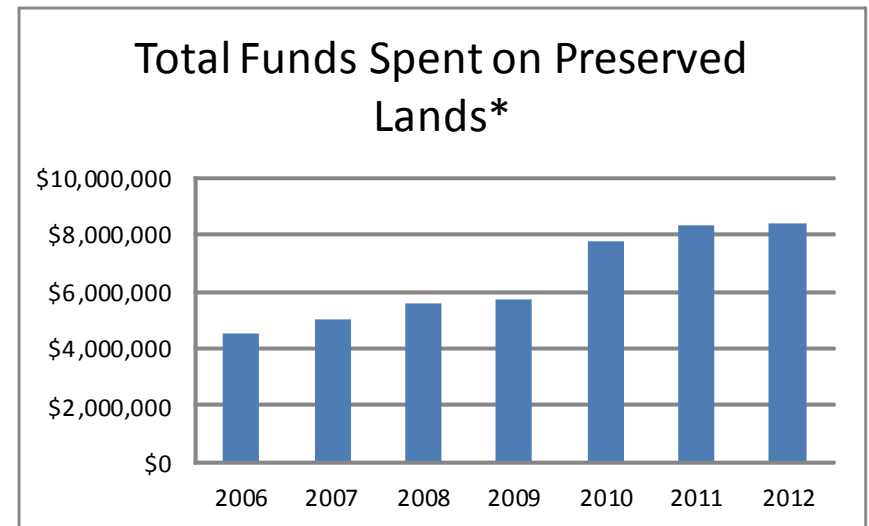
See Total Funds Spent on Preserved Lands, p. 3.

Accomplishments to Date

Although shellfish harvesting was established as a landmark issue for water quality, the health of our shellfish is determined by what each and every one of us do on a daily basis and how policies, regulations and procedures for everyday business matters; thus our "Next 10 Steps" show how to achieve clean water.

Beaufort County and Municipalities should establish consistent progressive land use policies with documented water quality benefits, especially for our Outstanding Resource and Shellfish Harvesting Waters.

The county and municipalities have heeded advice from scientists on land use policies that benefit water quality, i.e. buffer zones, transfer of development rights (moving density from sensitive areas to areas that can support more density), form based code zoning (restrict sprawling).



by USDA-Natural Resources Conservation Service (NRCS), Beaufort Conservation District & Beaufort County's Rural & Critical Lands Preservation Program (RCLP)
See page 6 for Acres Preserved.

Beaufort County and Municipalities should consider higher stormwater retention levels in “dead end” creeks to prevent high freshwater inputs. Coordinated effort by all jurisdictions should be made in development of the Okatie Total Maximum Daily Load (TMDL) to address this issue.

Shellfish and water sampling sites show improvements in water quality in the Battery Creek area from the bridge at Parris Island and north for a few stations. This is mainly attributed to connecting the Parris Island Treatment plant to a larger treatment plant operated by BJWSA. This is one of the many changes (i.e. volume control) that could make Battery Creek the “poster child of water quality improvement”. In addition, Beaufort County Council approved the watershed restoration program, a five year cycle for Okatie River, May River and Battery Creek.

Beaufort County and Municipalities include stormwater volume control requirements for protection of our high salinity receiving water bodies.

Beaufort and Jasper County along with Town of Bluffton and other partners are working together under the State 319 grant to address the Okatie TMDL requirements. Beaufort County is working to restore the designated water uses in Okatie River through retrofit projects reducing the volume of stormwater runoff.

"Responding to evidence of various natural crises, our community between the Savannah and Combahee Rivers has made great progress in the protection of its natural water quality, which is the source and symbol of our community's health. We have discussed and reflected on our stewardship responsibilities, raised up leaders and institutions like the Together for Beaufort Water Quality Committee, become more knowledgeable about the situation, and put theoretical policy controls in place to avert the current crises. The time is approaching for real action to enforce those controls."

Allen Ward,
Ward Edwards Engineering

Beaufort County and Municipalities should adopt the Septic Tank Operation and Maintenance Ordinance recommended by DHEC.

The coalition agrees that a functioning septic system is no threat to water quality, only those that have not been maintained.

After repairing septic tanks through the May River and Okatie River 319 Watershed Grants, partners discussed finding money or resources to be able to assist county residents for routine maintenance and repairs at a reasonable cost to septic owners. A Beaufort County planning document was discovered and is being reviewed to evaluate a county wide septic system maintenance plan agreeable to government and constituents.

Bluffton has also partnered with BJWSA and Beaufort County to develop a Watershed Sewer Master Plan for the county.

Beaufort County and Municipalities should, in cooperation with our education partners, develop a single comprehensive outreach program directed at staff, elected and appointed officials, the public and the development community. The outreach program should include benefits of vegetative buffers, native landscaping, reducing use of lawn chemicals, utilization of natural systems, and low impact development. Carolina Clear, Clemson University, started working with Beaufort County Stormwater and municipalities and has joined the Water Quality Coalition. Carolina Clear is tasked to bring more education outreach

Science Class At Eco Camp





Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Ihly Farm - Phase I

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Sep-13

Project improved 5,565 L.F. of drainage system. Shinn cut 2,250 L.F. of channel, workshelf and roadside ditch. Reconstructed 1,150 L.F. of channel, 2,320 L.F. of lateral ditches and 600 L.F. of roadside ditch. Cleaned out 1,855 L.F. of channel and 600 L.F. of roadside ditch. Upsized (5) crsossline pipes and extended (4) crossline pipes. Installed (2) access pipes and rip rap for erosion control. Jetted (2) crossline pipes. Repaired washout. Hydroseeded for erosion control.

2013-659 / Ihly Farm - Phase I	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APINS / Access pipe - installed	36.0	\$849.37	\$262.87	\$670.81	\$0.00	\$504.60	\$2,287.64
AUDIT / Audit Project	2.5	\$51.15	\$0.00	\$0.00	\$0.00	\$33.08	\$84.23
CLPEX / Crossline Pipe - Extended	12.0	\$245.50	\$61.79	\$158.65	\$0.00	\$170.13	\$636.07
CLPI / Crossline Pipe - Installation	82.0	\$1,847.85	\$332.99	\$727.18	\$0.00	\$811.60	\$3,719.62
CLPJT / Crossline Pipe - Jetted	11.0	\$237.90	\$121.88	\$63.81	\$0.00	\$90.59	\$514.17
CPUP / Crossline Pipe - Upsized	21.0	\$477.41	\$181.75	\$352.15	\$0.00	\$210.64	\$1,221.95
HAUL / Hauling	381.0	\$8,277.36	\$4,944.60	\$9,587.04	\$0.00	\$5,297.27	\$28,106.28
HYDR / Hydroseeding	21.0	\$491.99	\$113.52	\$456.91	\$0.00	\$266.58	\$1,329.01
LM / Loading Materials	129.0	\$2,825.80	\$1,609.37	\$466.48	\$0.00	\$1,478.76	\$6,380.41
ODCO / Outfall ditch - cleaned out	139.0	\$3,112.37	\$879.42	\$1,079.09	\$0.00	\$1,624.88	\$6,695.76
ODGRB / Outfall ditch - grubbed	20.0	\$458.00	\$197.80	\$75.67	\$0.00	\$187.20	\$918.67
ODREC / Outfall ditch - reconstructed	90.0	\$1,989.63	\$784.52	\$156.07	\$0.00	\$1,094.20	\$4,024.42
ODSHN / Outfall ditch - Shinn cut	23.0	\$514.33	\$339.46	\$202.37	\$0.00	\$224.84	\$1,281.00
ONJV / Onsite Job Visit	116.0	\$3,816.44	\$425.72	\$248.10	\$0.00	\$2,607.77	\$7,098.03
RDREC / Roadside ditch - reconstructed	30.0	\$651.40	\$222.11	\$102.90	\$0.00	\$187.20	\$1,163.61
RMTRD / Remove trees - Ditch	14.0	\$285.81	\$106.94	\$24.01	\$0.00	\$93.80	\$510.56
RPWO / Repaired Washout	3.0	\$64.89	\$22.09	\$28.13	\$0.00	\$39.69	\$154.80
RSDCL / Roadside Ditch - Cleanout	60.0	\$1,302.91	\$496.87	\$277.94	\$0.00	\$642.40	\$2,720.13
WSDR / Workshelf - Dressed	20.0	\$458.68	\$273.77	\$99.47	\$0.00	\$321.20	\$1,153.12
WSGRB / Workshelf - Grubbed	130.0	\$2,846.97	\$1,841.23	\$618.98	\$0.00	\$1,510.70	\$6,817.87
WSSHN / Workshelf - Shinn cut	189.0	\$4,201.12	\$2,784.79	\$1,252.72	\$0.00	\$2,146.10	\$10,384.73
2013-659 / Ihly Farm - Phase I Sub Total	1,529.5	\$35,006.89	\$16,003.49	\$16,648.48	\$0.00	\$19,543.22	\$87,202.08
Grand Total	1,529.5	\$35,006.89	\$16,003.49	\$16,648.48	\$0.00	\$19,543.22	\$87,202.08

Before



During



After



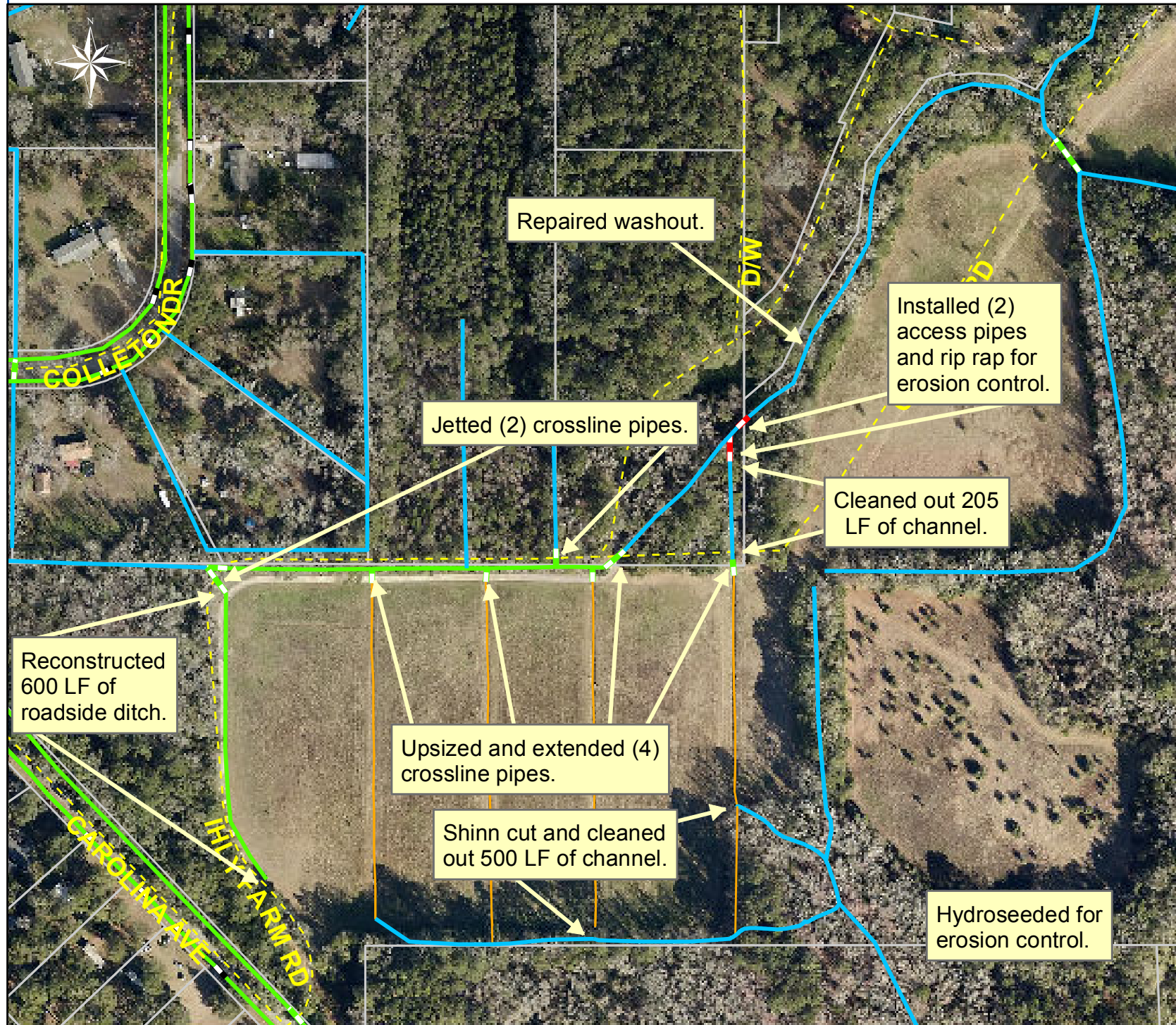
**Project: Ihly Farm
Phase I Map 1**

**Activity: Routine/
Preventive
Maintenance**

**Project #:
2013-659**















**Township: Port
Royal Island**

**Completed:
September 2013**



Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe



1 inch = 234 feet

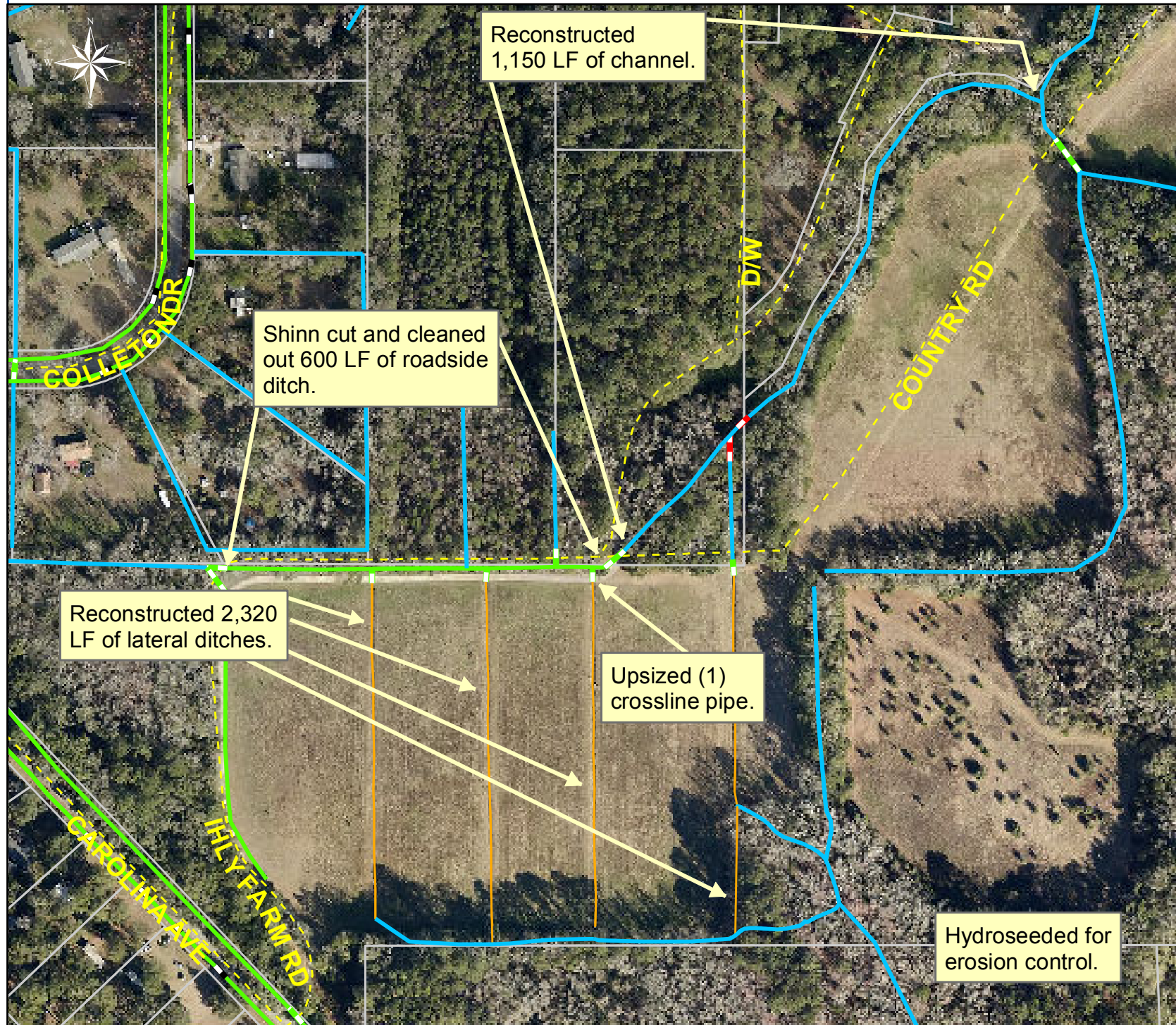
**Project: Ihly Farm
Phase I Map 2**

**Activity: Routine/
Preventive
Maintenance**

**Project #:
2013-659**















**Township: Port
Royal Island**

**Completed:
September 2013**



Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe



1 inch = 234 feet

Project: Cherry Point Road North

Activity: Drainage Improvement


















**Project #:
2014-518**

**Township:
Bluffton**

**Completed:
September 2013**

Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe
-  Drain Inlet
-  Catch Basin

Upsized (1) crossline pipe. Installed rip rap for erosion control.

Dewatered road due to flooding. Installed (1) catch basin, 165 LF of channel pipe, (1) drain inlet, sod and rip rap for erosion control.



1 inch = 46 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/16/13

File: C:/sethdata/projects/projectmaps/Cherry Pt Rd N 2014-518



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Cherry Point Road North

Activity: Drainage Improvement

Narrative Description of Project:

Completion: Sep-13

Project improved 197 L.F. of drainage system. Dewatered road due to flooding. Upsized (1) crossline pipe. Installed (1) drain inlet, (1) catch basin, 165 L.F. of channel pipe, sod and rip rap for erosion control.

2014-518 / Cherry Point Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
CBCO / Catch basin - clean out	9.0	\$194.64	\$99.72	\$49.30	\$0.00	\$74.12	\$417.78
CBIR / Catch Basin - Inlet Raised	50.0	\$1,105.06	\$36.20	\$196.87	\$0.00	\$533.00	\$1,871.13
CLPI / Crossline Pipe - Installation	50.0	\$1,105.06	\$195.24	\$479.98	\$0.00	\$533.00	\$2,313.27
DWR / Dewatered Road	52.0	\$1,292.31	\$116.72	\$106.17	\$0.00	\$597.70	\$2,112.90
Fac040 / New Construction Project	2.0	\$66.36	\$7.24	\$5.94	\$0.00	\$48.94	\$128.48
HAUL / Hauling	108.0	\$2,445.32	\$1,031.14	\$1,722.12	\$0.00	\$1,657.00	\$6,855.58
LM / Loading Materials	18.0	\$375.29	\$94.84	\$52.82	\$0.00	\$238.14	\$761.09
MEET / Meetings	2.0	\$88.54	\$8.04	\$8.91	\$0.00	\$67.92	\$173.41
OFPI / Outfall Pipe - Installation	160.0	\$3,557.52	\$303.84	\$2,477.43	\$0.00	\$1,765.80	\$8,104.59
ONJV / Onsite Job Visit	103.0	\$3,398.73	\$365.62	\$255.12	\$0.00	\$2,245.55	\$6,265.02
PL / Project Layout	2.0	\$88.54	\$7.24	\$11.88	\$0.00	\$67.92	\$175.58
PP / Project Preparation	20.0	\$431.28	\$31.29	\$24.01	\$0.00	\$181.74	\$668.32
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$2,792.35	\$0.00	\$2,792.35
RB / Remove blockage from flowline	13.0	\$306.44	\$16.29	\$12.18	\$0.00	\$113.30	\$448.20
SG / Shoot Grade	10.0	\$228.02	\$18.10	\$8.91	\$0.00	\$139.30	\$394.33
SI / Sod - Installation	30.0	\$695.85	\$75.96	\$809.29	\$0.00	\$268.40	\$1,849.50
SR / Sinkhole repair	18.0	\$424.62	\$21.72	\$49.49	\$0.00	\$160.02	\$655.85
UC / Utility Coordination	2.5	\$51.15	\$0.00	\$0.00	\$0.00	\$33.08	\$84.23
UTLOC / Utility locates	16.0	\$340.36	\$18.10	\$14.85	\$0.00	\$229.78	\$603.09
WSDR / Workshelf - Dressed	60.0	\$1,347.41	\$72.40	\$38.61	\$0.00	\$699.80	\$2,158.22
2014-518 / Cherry Point Road Sub Total	726.5	\$17,562.94	\$2,519.70	\$6,323.88	\$2,792.35	\$9,667.72	\$38,866.59
Grand Total	726.5	\$17,562.94	\$2,519.70	\$6,323.88	\$2,792.35	\$9,667.72	\$38,866.59

Before



During



After





Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Spann Circle Phase I

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Removed 45 L.F. of blockages from flowline.

Completion: Jun-13

2013-630 / Spann Circle Phase I	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
ASBUILT / Asbuilt - Project	2.0	\$80.46	\$8.04	\$66.00	\$0.00	\$67.92	\$222.42
AUDIT / Audit Project	0.5	\$6.32	\$0.00	\$0.00	\$0.00	\$6.62	\$12.93
BW / Bobcat Work	8.0	\$167.12	\$74.35	\$43.79	\$0.00	\$105.84	\$391.10
HAUL / Hauling	8.0	\$174.80	\$85.60	\$25.76	\$0.00	\$115.36	\$401.52
ODCO / Outfall ditch - cleaned out	17.0	\$399.94	\$65.53	\$20.84	\$0.00	\$139.76	\$626.06
ONJV / Onsite Job Visit	29.0	\$1,018.06	\$108.64	\$60.00	\$0.00	\$829.76	\$2,016.46
PRRECON / Project Reconnaissance	5.0	\$123.05	\$20.10	\$17.40	\$0.00	\$91.15	\$251.70
RB / Remove blockage from flowline	8.0	\$176.52	\$45.83	\$31.76	\$0.00	\$92.16	\$346.27
STBY / Stand By	8.0	\$188.92	\$88.64	\$12.88	\$0.00	\$129.88	\$420.32
2013-630 / Spann Circle Phase I Sub Total	85.5	\$2,335.18	\$496.73	\$278.43	\$0.00	\$1,578.44	\$4,688.78
Grand Total	85.5	\$2,335.18	\$496.73	\$278.43	\$0.00	\$1,578.44	\$4,688.78

(Pictures Not Available)

**Project: Spann
Circle Phase I**

**Activity: Routine/
Preventive
Maintenance**















**Project #:
2013-630**

**Township:
Sheldon**

**Completed:
June 2013**

Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe



1 inch = 309 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/18/13

File:C:/sethdata/projects/projectmaps/Spann Cir PhI 2013-630



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Buck Point Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Cleaned out (1) catch basin. Jetted (1) crossline pipe.

Completion: Jul-13

2013-656 / Buck Point Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CLPJT / Crossline Pipe - Jetted	6.0	\$129.76	\$66.48	\$73.30	\$0.00	\$49.41	\$318.95
2013-656 / Buck Point Road	6.5	\$139.99	\$66.48	\$73.30	\$0.00	\$56.03	\$335.80
Sub Total							
Grand Total	6.5	\$139.99	\$66.48	\$73.30	\$0.00	\$56.03	\$335.80

Before



During



After





Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Sheldon Tree Removal - Witsell Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Removed fallen tree.

Completion: Jul-13

2014-510 / Sheldon Tree Removal	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	35.5	\$773.84	\$438.12	\$560.10	\$0.00	\$450.79	\$2,222.85
ONJV / Onsite Job Visit	19.0	\$561.29	\$69.98	\$41.14	\$0.00	\$365.09	\$1,037.50
PP / Project Preparation	2.0	\$88.54	\$7.24	\$8.88	\$0.00	\$67.92	\$172.58
PRRECON / Project Reconnaissance	8.0	\$183.36	\$8.04	\$9.47	\$0.00	\$79.80	\$280.67
RMTRW / Remove trees - Workshelf	40.5	\$926.61	\$370.99	\$111.39	\$0.00	\$406.90	\$1,815.89
SVCREQ / Service Request	4.0	\$177.08	\$14.48	\$8.88	\$0.00	\$135.84	\$336.28
2014-510 / Sheldon Tree Removal Sub Total	109.5	\$2,720.95	\$908.85	\$739.87	\$0.00	\$1,512.96	\$5,882.62
Grand Total	109.5	\$2,720.95	\$908.85	\$739.87	\$0.00	\$1,512.96	\$5,882.62

Before



After





Project: Witsell Road
(Tree Removal)

Activity: Routine/
Preventive
Maintenance

Project #:
2014-510

Township:
Sheldon

Completed:
July 2013

Legend	
TYPE	
	River
	Creek/Stream
	River/Creek/Marsh BANK
	Channel (fka Outfall)
	Channel Pipe
	Lateral
	Lateral Pipe
	Roadside
	Roadside Pipe
	Road Pipe
	Crossline Pipe
	Driveway Pipe
	Access Pipe
	Bleeder Pipe
	Catch Basin



1 inch = 125 feet



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Lady's Island Bush Hog

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Sep-13

First rotation August 2013 - September 2013. Project improved 25,396 L.F. of drainage system. Bush hogged 25,396 L.F. of channel and weedat around catch basins. This project consisted of the following areas: Faculty Drive (1,525 L.F.), Alumni Road (2,240 L.F.), Little Capers Road (421 L.F.), Fairfield Road (700 L.F.), Sheppard Road (968 L.F.), Holly Hall Road (429 L.F.), Royal Pines Boulevard (283 L.F.), Honeysuckle Lane (1,010 L.F.), Token Lane (993 L.F.), Christine Place (386 L.F.), Braeburn Lane (1,215 L.F.), Shallowford Downs (320 L.F.), Sams Point Road (1,835 L.F.), Winthrop Street (1,361 L.F.), Thomas Sumpter Street (2,166 L.F.), Francis Marion Circle (494 L.F.), Wade Hampton Drive (861 L.F.), Jasper Lane (612 L.F.), Broomfield Lane (593 L.F.), Pleasant Point Drive (493 L.F.), Deveaux Road (1,020 L.F.), Ladys Island Airport (3,922 L.F.), Eustis Landing Road (849 L.F.) and Beautyberry Lane (700 L.F.)

2014-302 / Ladys Island Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.0	\$40.92	\$0.00	\$0.00	\$0.00	\$26.46	\$67.38
ODBH / Outfall ditch - bushhogged	327.0	\$7,355.25	\$3,694.16	\$1,275.17	\$0.00	\$4,957.20	\$17,281.78
ONJV / Onsite Job Visit	5.0	\$165.90	\$18.10	\$29.70	\$0.00	\$122.35	\$336.05
2014-302 / Ladys Island Bush Hog Sub Total	334.0	\$7,562.07	\$3,712.26	\$1,304.87	\$0.00	\$5,106.01	\$17,685.21
Grand Total	334.0	\$7,562.07	\$3,712.26	\$1,304.87	\$0.00	\$5,106.01	\$17,685.21

Before



During



After





Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Arnold Lane/ Donaldson Drive

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Sep-13

Project improved 2,009 L.F. of drainage system. Cleaned out 1,374 L.F. of channel, 537 L.F. of roadside ditch, rip rap basins and (2) catch basins. Jetted (2) crossline pipes, (3) driveway pipes and 98 L.F. of roadside pipe.

2014-512 / Arnold Lane/ Donaldson Drive	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CBCO / Catch basin - clean out	16.0	\$346.03	\$177.28	\$81.45	\$0.00	\$131.76	\$736.52
HAUL / Hauling	23.5	\$508.31	\$251.45	\$65.17	\$0.00	\$338.87	\$1,163.80
ODCO / Outfall ditch - cleaned out	48.0	\$1,079.83	\$207.59	\$82.32	\$0.00	\$722.88	\$2,092.62
ONJV / Onsite Job Visit	2.0	\$66.36	\$7.24	\$14.85	\$0.00	\$48.94	\$137.39
RSDCL / Roadside Ditch - Cleanout	10.5	\$236.21	\$29.30	\$18.87	\$0.00	\$158.13	\$442.51
SVCREQ / Service Request	1.0	\$44.27	\$3.62	\$2.97	\$0.00	\$33.96	\$84.82
UTLOC / Utility locates	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
2014-512 / Arnold Lane/ Donaldson Drive Sub Total	102.0	\$2,301.47	\$676.48	\$265.63	\$0.00	\$1,447.77	\$4,691.34
Grand Total	102.0	\$2,301.47	\$676.48	\$265.63	\$0.00	\$1,447.77	\$4,691.34

Before



After



Project: Arnold Lane/ Donaldson Drive Map 1

Activity: Routine/ Preventive Maintenance















Project #: 2014-512

Township: Port Royal Island

Completed: September 2013

Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe

Cleaned out 318 LF of channel.

Cleaned out 1,056 LF of channel.

Cleaned out 395 LF of roadside ditch.

Cleaned out 142 LF of roadside ditch.



1 inch = 317 feet

Project: Arnold Lane/ Donaldson Drive Map 2

Activity: Vacuum Truck





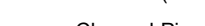



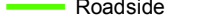

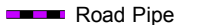




Project #: 2014-512

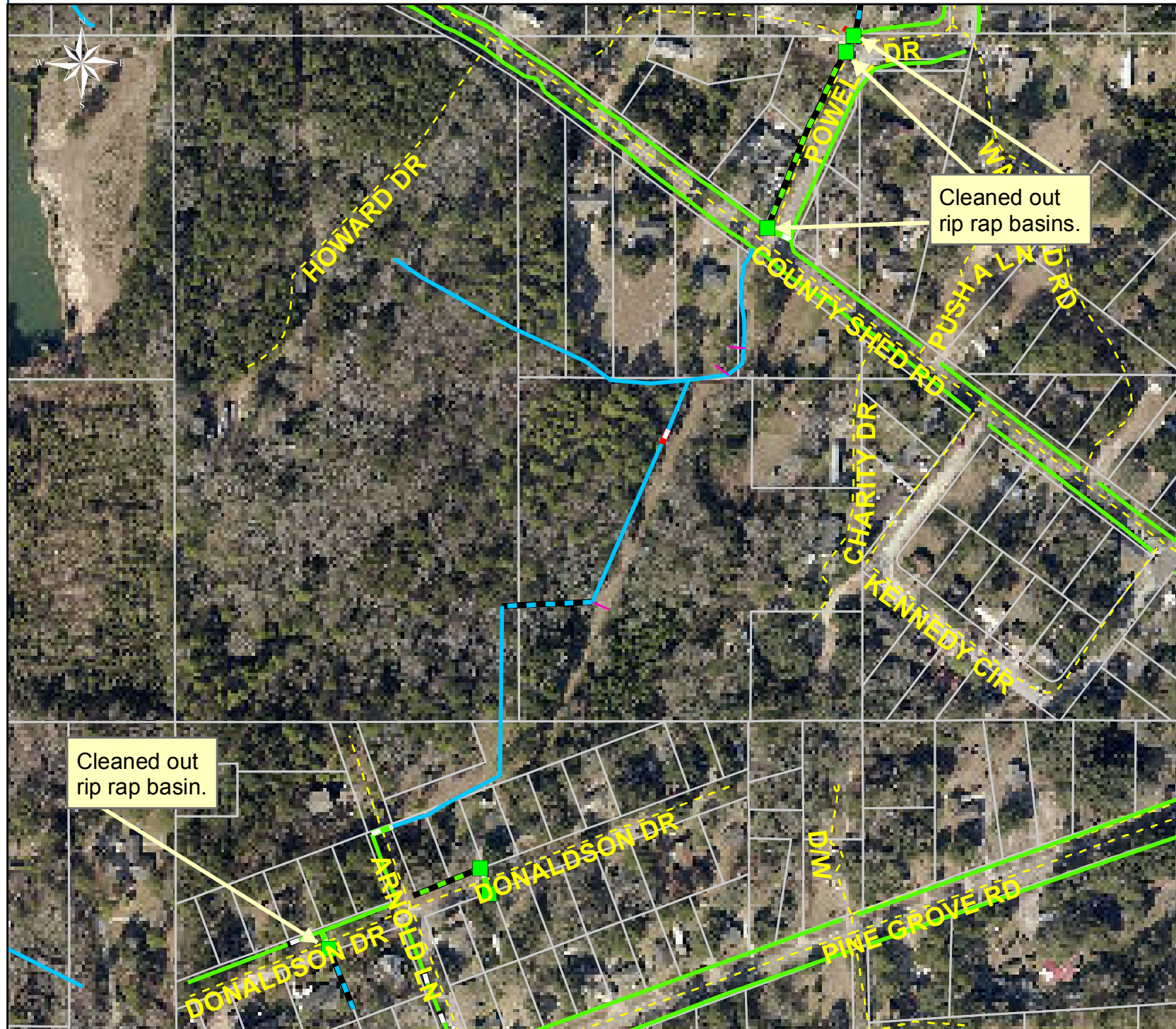
Township: Port Royal Island

Completed: September 2013

Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe
-  Catch Basin



1 inch = 260 feet

Project: Arnold Lane/ Donaldson Drive Map 3

Activity: Vacuum Truck

Project #: 2014-512

Township: Port Royal Island

Completed: September 2013



1 inch = 81 feet



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Honeysuckle Lane

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Sep-13

Replaced (1) access gate.

2014-539 / Honeysuckle Lane	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AGI / Access Gate - Installed	10.0	\$229.34	\$18.10	\$175.18	\$0.00	\$149.55	\$572.16
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
2014-539 / Honeysuckle Lane Sub Total	10.5	\$239.57	\$18.10	\$175.18	\$0.00	\$156.16	\$589.01
Grand Total	10.5	\$239.57	\$18.10	\$175.18	\$0.00	\$156.16	\$589.01

(Pictures Not Available)

Project:
Honeysuckle Lane

**Activity: Routine/
Preventive
Maintenance**

Project #:
2014-539

**Township: Lady's
Island**

Completed:
September 2013



Legend

TYPE

- River
- Creek/Stream
- River/Creek/Marsh BANK
- Channel (fka Outfall)
- Channel Pipe
- Lateral
- Lateral Pipe
- Roadside
- Roadside Pipe
- Road Pipe
- Crossline Pipe
- Driveway Pipe
- Access Pipe
- Bleeder Pipe



1 inch = 85 feet



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Tree Removal - Shanklin Road, Mroz Road and Possum Hill Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Removed fallen trees from workshelf.

Completion: Oct-13

2014-502 / Port Royal Island Tree Removal	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	8.0	\$173.04	\$85.60	\$122.46	\$0.00	\$110.60	\$491.70
ONJV / Onsite Job Visit	2.0	\$59.68	\$7.24	\$2.97	\$0.00	\$36.46	\$106.35
PRRECON / Project Reconnaissance	1.0	\$33.18	\$3.62	\$5.94	\$0.00	\$24.47	\$67.21
RMTRW / Remove trees - Workshelf	30.0	\$672.87	\$143.62	\$67.79	\$0.00	\$337.99	\$1,222.27
2014-502 / Port Royal Island Tree Removal Sub Total	41.5	\$949.00	\$240.08	\$199.16	\$0.00	\$516.14	\$1,904.37
Grand Total	41.5	\$949.00	\$240.08	\$199.16	\$0.00	\$516.14	\$1,904.37

Before



During



After



**Project: Shanklin Road
(Tree Removal)**

**Activity: Routine/
Preventive
Maintenance**
















**Project #:
2014-502**

**Township: Port
Royal Island**

**Completed:
October 2013**

Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe
-  Catch Basin

Removed fallen tree
from workshelf.



SHANKLIN RD

BILLY HILL RD



1 inch = 84 feet

**Project: Mroz Road
(Tree Removal)**

**Activity: Routine/
Preventive
Maintenance**
















**Project #:
2014-502**

**Township: Port
Royal Island**

**Completed:
October 2013**

Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe
-  Catch Basin

Removed fallen tree
from workshelf.



1 inch = 100 feet

**Project: Possum Hill Road
(Tree Removal)**

















**Activity: Routine/
Preventive
Maintenance**

**Project #:
2014-502**

**Township: Port
Royal Island**

**Completed:
October 2013**

Legend

TYPE	
	River
	Creek/Stream
	River/Creek/Marsh BANK
	Channel (fka Outfall)
	Channel Pipe
	Lateral
	Lateral Pipe
	Roadside
	Roadside Pipe
	Road Pipe
	Road Pipe
	Crossline Pipe
	Driveway Pipe
	Access Pipe
	Bleeder Pipe
	Catch Basin



1 inch = 125 feet



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Oyster Street Outfall

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Project improved 350 L.F. of drainage system. Cleaned out 350 L.F. of channel.

Completion: Oct-13

2014-532 / Oyster Street	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	11.0	\$237.93	\$117.70	\$58.31	\$0.00	\$158.62	\$572.56
ODCO / Outfall ditch - cleaned out	25.0	\$571.36	\$102.72	\$53.17	\$0.00	\$384.60	\$1,111.84
ONJV / Onsite Job Visit	5.0	\$165.90	\$18.10	\$17.82	\$0.00	\$122.35	\$324.17
UTLOC / Utility locates	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
2014-532 / Oyster Street Sub Total	42.0	\$995.65	\$238.52	\$129.30	\$0.00	\$678.80	\$2,042.26
Grand Total	42.0	\$995.65	\$238.52	\$129.30	\$0.00	\$678.80	\$2,042.26

Before



During



After





Project: Oyster Street

Activity: Routine/ Preventive Maintenance

Project #: 2014-532

Township: Bluffton

Completed: October 2013

Legend

TYPE	
	River
	Creek/Stream
	River/Creek/Marsh BANK
	Channel (fka Outfall)
	Channel Pipe
	Lateral
	Lateral Pipe
	Roadside
	Roadside Pipe
	Road Pipe
	Crossline Pipe
	Driveway Pipe
	Access Pipe
	Bleeder Pipe



1 inch = 110 feet



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Providence Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Repaired washouts.

Completion: Oct-13

2014-533 / Providence Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	2.0	\$42.42	\$21.40	\$12.94	\$0.00	\$28.84	\$105.60
PRRECON / Project Reconnaissance	2.0	\$66.36	\$7.24	\$5.94	\$0.00	\$48.94	\$128.48
WSREP / Workshelf - Repair	4.0	\$89.40	\$25.52	\$13.72	\$0.00	\$59.82	\$188.46
2014-533 / Providence Road Sub Total	8.5	\$208.41	\$54.16	\$32.60	\$0.00	\$144.22	\$439.39
Grand Total	8.5	\$208.41	\$54.16	\$32.60	\$0.00	\$144.22	\$439.39

(Pictures Not Available)

Project: Providence Road

**Activity: Routine/
Preventive
Maintenance**
















**Project #:
2014-533**

**Township: Port
Royal Island**

**Completed:
October 2013**

Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe
-  Catch Basin



0 50 100 200 300 400 Feet

1 inch = 193 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/16/13

File:C:/sethdata/projects/projectmaps/Providence Rd 2014-533



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Bridgewood Road Outfall

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Repaired workshelf.

Completion: Oct-13

2014-534 / Bridgewood Road Outfall	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	13.0	\$277.83	\$139.10	\$133.76	\$0.00	\$187.46	\$738.15
WSREP / Workshelf - Repair	21.0	\$487.95	\$87.00	\$44.15	\$0.00	\$223.08	\$842.18
2014-534 / Bridgewood Road Outfall Sub Total	34.5	\$776.01	\$226.10	\$177.91	\$0.00	\$417.15	\$1,597.17
Grand Total	34.5	\$776.01	\$226.10	\$177.91	\$0.00	\$417.15	\$1,597.17

Before



During



After



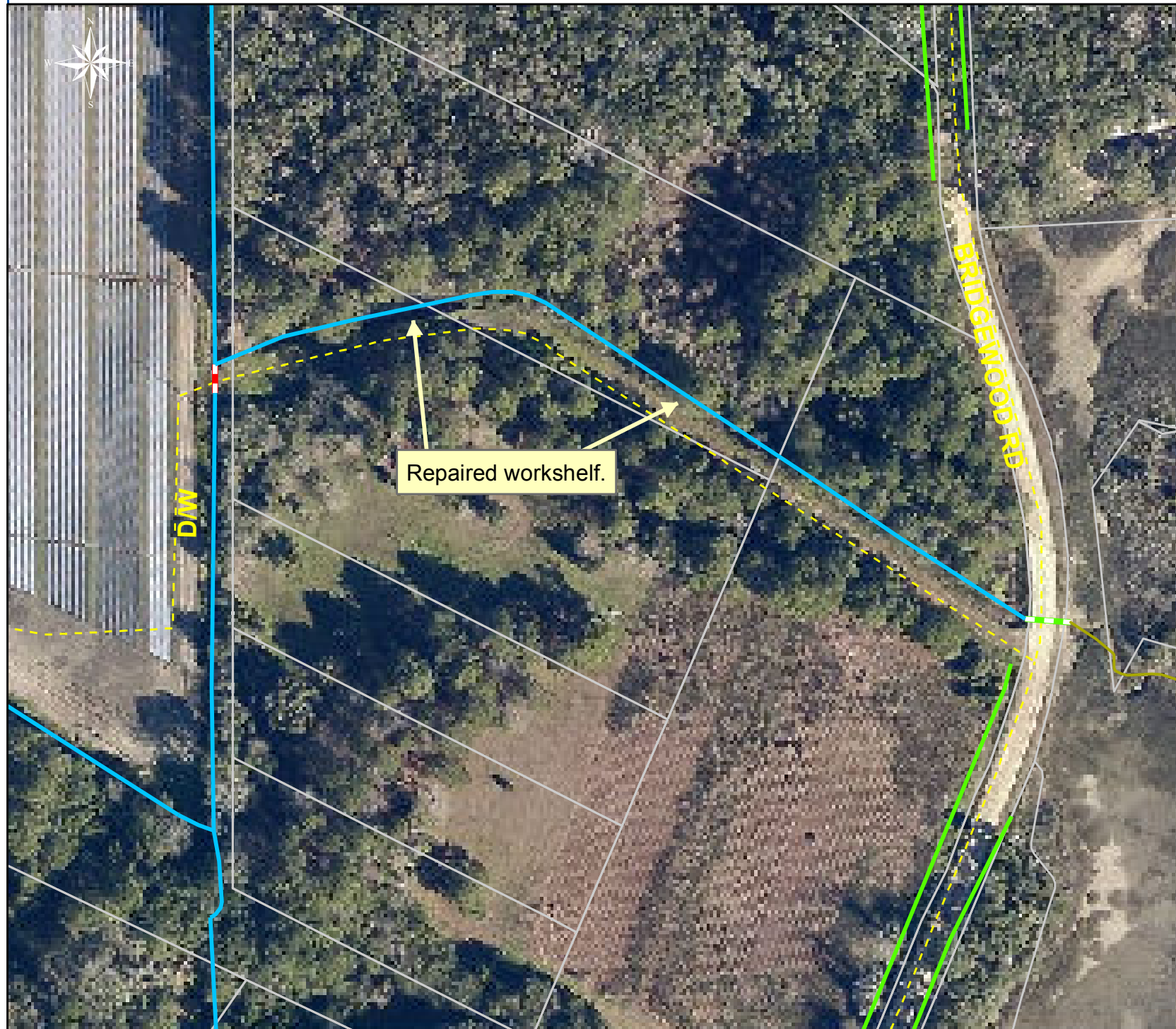
Project:
Bridgewood Road
Outfall

Activity: Routine/
Preventive
Maintenance

Project #:
2014-534















Township: St.
Helena Island

Completed:
September 2013



Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe



1 inch = 118 feet



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Tombee Road Outfall #1

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Oct-13

Project improved 7,948 L.F. of drainage system. Cleaned out 7,232 L.F. of valley drains, 700 L.F. of channel and (2) catch basins. Installed (1) access pipe and rip rap for erosion control. Jetted 16 L.F. of outfall pipe.

2014-535 / Tombee Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
COVD / Cleaned Out Valley Drains	32.0	\$733.87	\$149.32	\$117.99	\$0.00	\$478.56	\$1,479.74
HAUL / Hauling	52.0	\$1,105.45	\$556.40	\$783.34	\$0.00	\$677.74	\$3,122.93
ODCO / Outfall ditch - cleaned out	60.0	\$1,391.90	\$509.76	\$552.50	\$0.00	\$531.30	\$2,985.46
OFPJ / Outfall Pipe - Jetted	8.0	\$177.74	\$88.64	\$24.65	\$0.00	\$118.80	\$409.83
ONJV / Onsite Job Visit	1.0	\$44.27	\$3.62	\$2.97	\$0.00	\$33.96	\$84.82
PI / Project Inspection	15.0	\$353.83	\$18.10	\$24.35	\$0.00	\$133.35	\$529.63
2014-535 / Tombee Road Sub Total	168.0	\$3,807.07	\$1,325.84	\$1,505.81	\$0.00	\$1,973.71	\$8,612.43
Grand Total	168.0	\$3,807.07	\$1,325.84	\$1,505.81	\$0.00	\$1,973.71	\$8,612.43

Before



During



After



Project: Tombee Road Map 1

**Activity: Routine/
Preventive
Maintenance**

**Project #:
2014-535**

**Township: St.
Helena Island**

**Completed:
October 2013**

Cleaned out 3,616
LF of valley drains.

Cleaned out (2)
catch basins.

Cleaned out 3,616
LF of valley drains.

Installed (1) access pipe
and rip rap for erosion
control.

Legend

- Catch Basin
- TYPE**
- River
- Creek/Stream
- River/Creek/Marsh BANK
- Channel (fka Outfall)
- Channel Pipe
- Lateral
- Lateral Pipe
- Roadside
- Roadside Pipe
- Road Pipe
- Crossline Pipe
- Driveway Pipe
- Access Pipe
- Bleeder Pipe

0 110 220 440 660 880
Feet

1 inch = 417 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/18/13

File: C:/sethdata/projects/projectmaps/Toombee Rd 2014-535 Map1

Project: Tombee Road Map 2
















**Activity: Routine/
Preventive
Maintenance**

**Project #:
2014-535**

**Township: St.
Helena Island**

**Completed:
October 2013**

Legend

-  Catch Basin
- TYPE**
-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe



0 45 90 180 270 360
Feet

1 inch = 184 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/18/13

File: C:/sethdata/projects/projectmaps/Toombee Rd 2014-535 Map2



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Simmonsville Road Drop Off Center

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Repaired sinkhole.

Completion: Oct-13

2014-536 / Simmonsville Rd Drop Off Center	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APREP / Asphalt Preparation	24.0	\$547.38	\$43.44	\$60.59	\$0.00	\$257.58	\$908.99
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	16.0	\$346.08	\$171.20	\$388.83	\$0.00	\$230.72	\$1,136.83
ONJV / Onsite Job Visit	18.0	\$537.12	\$65.16	\$32.67	\$0.00	\$328.14	\$963.09
PP / Project Preparation	8.0	\$239.46	\$18.10	\$32.67	\$0.00	\$108.24	\$398.47
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$338.47	\$0.00	\$338.47
SR / Sinkhole repair	50.0	\$1,152.06	\$122.83	\$78.51	\$0.00	\$563.70	\$1,917.10
2014-536 / Simmonsville Rd Drop Off Center Sub Total	116.5	\$2,832.33	\$420.73	\$593.27	\$338.47	\$1,494.99	\$5,679.79
Grand Total	116.5	\$2,832.33	\$420.73	\$593.27	\$338.47	\$1,494.99	\$5,679.79

Before



During



After



Project:
Simmons
Road D/O Center

Activity: Routine/
Preventive
Maintenance













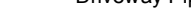
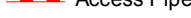
Project #:
2014-536

Township:
Bluffton

Completed:
October 2013

Legend

TYPE

-  River
-  Creek/Stream
-  River/Creek/Marsh BANK
-  Channel (fka Outfall)
-  Channel Pipe
-  Lateral
-  Lateral Pipe
-  Roadside
-  Roadside Pipe
-  Road Pipe
-  Crossline Pipe
-  Driveway Pipe
-  Access Pipe
-  Bleeder Pipe



1 inch = 152 feet



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Seabrook Road Outfall

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Repaired washout.

Completion: Oct-13

2014-543 / Seabrook Road Outfall	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	3.0	\$63.63	\$32.10	\$12.94	\$0.00	\$43.26	\$151.93
RPWO / Repaired Washout	4.0	\$89.40	\$25.52	\$10.29	\$0.00	\$59.82	\$185.03
2014-543 / Seabrook Road Outfall Sub Total	7.5	\$163.26	\$57.62	\$23.23	\$0.00	\$109.70	\$353.81
Grand Total	7.5	\$163.26	\$57.62	\$23.23	\$0.00	\$109.70	\$353.81

Before



After



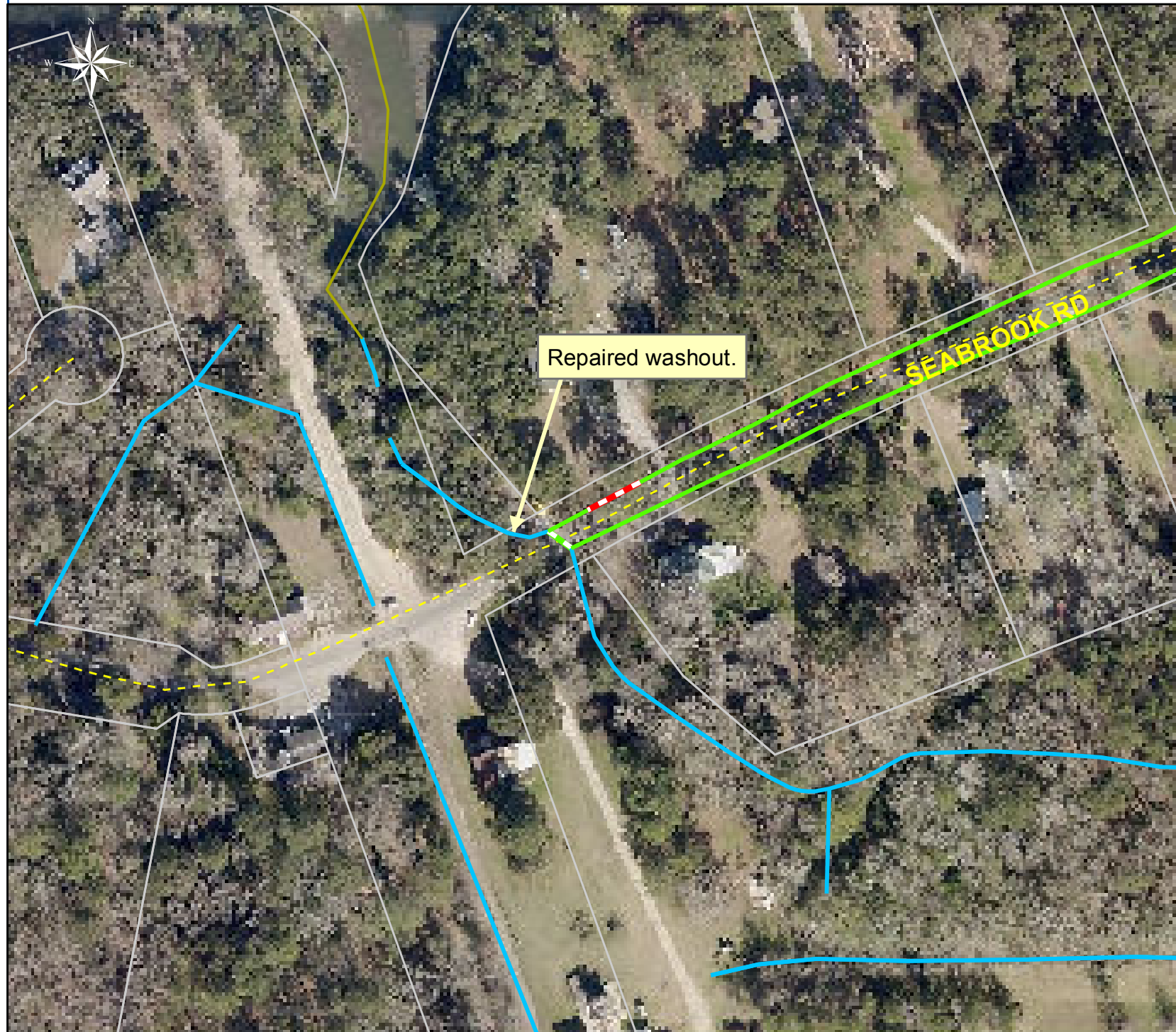
Project: Seabrook Road Outfall

**Activity: Routine/
Preventive
Maintenance**

**Project #:
2014-543**

**Township: Port
Royal Island**

**Completed:
September 2013**



Legend

TYPE

- River
- Creek/Stream
- River/Creek/Marsh BANK
- Channel (fka Outfall)
- Channel Pipe
- Lateral
- Lateral Pipe
- Roadside
- Roadside Pipe
- Road Pipe
- Crossline Pipe
- Driveway Pipe
- Access Pipe
- Bleeder Pipe

0 35 70 140 210 280
Feet

1 inch = 140 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/16/13

File: C:/sethdata/projects/projectmaps/Seabrook Rd OF 2014-543



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD
2014 Meeting Schedule

Draft: November 1, 2013

Frequency: The first Wednesday of each month

Time: 2:00 p.m.

Where: Beaufort Industrial Village, Building 2 Conference Room
102 Industrial Village Road, Beaufort

Dates: January 2014 (TBD)
February 5, 2014
March 5, 2014
April 2, 2014
May 7, 2014
June 4, 2014
July 2, 2014
August 6, 2014
September 3, 2014
October 1, 2014
November 5, 2014
December 3, 2014





BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD
Wednesday, December 4, 2013
2:00 p.m.
Beaufort Industrial Village, Building 2 Conference Room
102 Industrial Village Road, Beaufort
843.255.2801

In accordance with South Carolina Code of Laws, 1976, as amended, Section 30-4-80(d), all local media was duly notified of the time, date, place and agenda of this meeting.

1. CALL TO ORDER – 2:00 p.m.
 - A. Approval of Agenda
 - B. Approval of Minutes – November 6, 2013 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Monitoring Update – Danny Polk
 - B. Utility Update – Robert McFee, P.E.
 - C. Upcoming Professional Contracts Report – Robert McFee, P.E.
 - D. Financial Report ([backup](#))
 - E. Utility's 2014 Goals – Carolyn Wallace ([backup](#))
 - F. Maintenance Project Report – Eddie Bellamy ([backup](#))
5. UNFINISHED BUSINESS
 - A. Regional Coordination – Robert McFee, P.E.
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. January 2013 (Date TBD) ([backup](#))
9. ADJOURNMENT

