

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

December 3, 2014 at 2:00 p.m. in Beaufort Industrial Village Building #3 Conference Room

**Board Members**

<b>Present</b>	<b>Absent</b>
Allyn Schneider	Don Smith
Patrick Mitchell	William Bruggeman
James Fargher	

**Ex-Officio Members**

<b>Present</b>	<b>Absent</b>
Andy Kinghorn	Van Willis
Kimberly Jones	
Scott Liggett	

**Beaufort County Staff**

Eric Larson  
Eddie Bellamy  
Carolyn Wallace  
Kevin Pitts  
Alan Eisenman

**Visitors**

Cynthia Bensch, Beaufort County Council  
Tony Maglione, ATM  
Denise Parsick, Bft Soil & Water Conservation Dist  
Reed Armstrong, Coastal Conservation League  
Jeremy Ritchie, Town of Bluffton  
Marc Feinberg, Citizen

**1. Meeting called to order** – Allyn Schneider

- A. Agenda – No quorum to approve the agenda.
- B. November 5, 2014 Minutes – No quorum to approve the minutes.

**2. Introductions** – Completed.

**3. Public Comment(s)** – None.

**4. Reports** – (Mr. Larson submitted his written report in advance. [Please see attachment.](#))

- A. **Special Presentation** – Mr. Tony Maglione provided a presentation on the Town of Port Royal’s stormwater program, their most recent capital improvements, and “what’s next” for the town’s stormwater program ([please see attachment](#)).
- B. **Financial Report** – Alan Eisenman  
Mr. Eisenman provided a presentation on the stormwater October financials ([please see attachment](#)). Revenue is lower compared to last year. He thinks this is because the Treasurer’s Office had fewer properties up for tax sale this year, indicating property owners’ are paying their taxes in a more timely manner.  
He also mentioned that the Finance Department anticipates the audit of the FY 2014 financials to be finalized by the end of the month.
- C. **Utility Update** – Eric Larson  
*County’s Reorganization* - The County recently went through a staff reorganization ([please see attachment](#)). Engineering has been reorganized into Engineering, Infrastructure, and Land Development. Stormwater has been placed in the Environmental Engineering Division along with Public Works, Planning, and Zoning. Mr. Larson has been promoted to Director of Environmental Engineering. His duties as Stormwater Manager will not change.  
*Board Vacancies* – The County Council had first reading for appointments to the two vacant seats in District 6 and District 9. Second reading is expected at the December 8<sup>th</sup> County Council meeting. Mr. Larson introduced Mr. Marc Feinberg, the candidate for District 9.

*Certification* – Congratulations to Mr. Kevin Pitts in becoming a Certified Erosion Prevention and Sediment Control Inspector (CEPSCI).

*Training Opportunity* - The US EPA training on Post Construction Best Management Practices is scheduled for December 12<sup>th</sup> at the Sonesta Resort on Hilton Head Island ([please see attachment](#)).

**D. MS4 Update** – Eric Larson

*MS4 Permit Application* – The County submitted its MS4 Permit application on November 19th.

*Stormwater Workshop for County Council* – The half day workshop for the County Council will be held January 22, 2015 from 12:30pm to 5:00pm at the County Council Chambers in the Administration Building on Ribaut Road. The board members and public are invited to attend. The county has hired a consultant to help prepare for the half-day intensive workshop. The board will get a preview of the presentation at the January board meeting.

**E. Monitoring Update** – Eric Larson

*USCB Lab* – In his report, Mr. Larson provided a copy of the detail update from Dr. Warren and staff on the status of the lab certification. Mr. Larson recently met with MCAS staff on their monitoring needs for their Hazardous Waste Permits and the USCB lab staff provided what the differences are in testing requirements between the Clean Water Act Methodology and the Hazardous Waste Methodology.

**F. Stormwater Implementation Committee (SWIC) Report** – Eric Larson

*Public Education* – The SWIC is beginning discussions with SC Sea Grant to host a Stormwater Pond Conference in Beaufort County. They have helped Charleston do a pond conference every two years. Ms. Denise Parsick said they are applying for a grant to possibly help with the funding.

**G. Stormwater Related Projects** – Eric Larson

*US 278 Retrofit Ponds* – Bids were received and contractors selected by staff for the hauling and clearing/grubbing contracts. Recommendations for the bid award will go to County Council's Natural Resources Committee on December 8<sup>th</sup> ([please see attachment](#)).

*County Administration Complex Parking Lot Retrofit* – Progress has been swift and the project has had no major issues.

**H. Professional Contracts Report** – Eric Larson

*Financial Analysis of the Stormwater Utility* – The board will be provided a preview of the findings at the January board meeting and deliverables due at the January 22<sup>nd</sup> workshop.

**I. Regional Coordination** - Eric Larson

During this last month, Mr. Larson has had separate meetings with SCDOT, MCAS, and USCB, discussing their stormwater needs and how they can coordinate their efforts.

**J. Maintenance Projects Report** – Mr. Eddie Bellamy submitted his written report in advance ([please see attachment](#)) on two major and five minor or routine projects.

**5. Unfinished Business**

**6. New Business**

**7. Public Comment(s)** – Ms. Kim Jones said neither she nor Mr. Jeremy Ritchie will be able to attend the January meeting.

**8. Next Meeting Agenda** – No quorum to approve the agenda.

**9. Meeting Adjourned.**



**BEAUFORT COUNTY STORMWATER UTILITY**  
**120 Shanklin Road**  
**Beaufort, South Carolina 29906**  
**Voice (843) 255-2801 Facsimile (843) 255-9478**



December 3, 2014

**Stormwater Manager's Report for the Stormwater Utility Board Meeting**

Utility Update

1. On November 17, 2014, Mr. Gary Kubic, County Administrator, announced a county staff reorganization. [The new chart is attached.](#) Engineering, Infrastructure, and Planning Divisions have been consolidated into an Engineering, Infrastructure, and Land Development "Group" with three Divisions. Stormwater has been placed in the Environmental Engineering Division along with Public Works, Planning, and Zoning. Eric W Larson has been promoted to Director of Environmental Engineering. His duties as Stormwater Manager do not change.
2. Board Vacancies – The County Council had first reading for appointments to the two vacant seats in District 6 and District 9. Larry Meisner was selected for District 6 and Marc Feinberg was selected for District 9. Final action is expected at the December 8<sup>th</sup> County Council meeting.
3. Eric Larson, Danny Polk, and Kevin Pitts attended the quarterly SCASM meeting in Columbia. The meeting's training topic was TMDL monitoring.
4. Kevin Pitts received his Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) certification this month.
5. The Utility sponsored the monthly luncheon of the Beaufort Jasper Utility Coordinator Committee on December 2<sup>nd</sup>. The department's involvement in this group is beneficial in building relationships and preventing costly utility damage during maintenance activities.
6. The US EPA training on Post Construction Best Management Practices is scheduled for December 12, 2014 at the Sonesta Resort on Hilton Head Island. [The attached flyer](#) can be used to register. There is no cost.
7. Carolyn Wallace and Eric Larson will be conducting audits of utility fee credit applicants and on-lot volume control exemption applicants in December. These are routine and will assure the required stormwater measures in place are still applicable to the credits and exemptions.
8. Eric Larson held a pre-application meeting with Moss Creek Development for a Utility Fee Credit.

MS4 Update

1. MS4 Permit Application – The County Council approved the permit application at the November 10, 2014 meeting. The permit was submitted on November 19, 2014. DHEC should respond within 90 days. The application has been posted to the Stormwater webpage at the following link:  
[http://www.bcgov.net/departments/Engineering-and-Infrastructure/stormwater-management/documents/Whats%20New/FINAL%20Beaufort%20County%20SMS4%20NOI Nov 19 14.pdf](http://www.bcgov.net/departments/Engineering-and-Infrastructure/stormwater-management/documents/Whats%20New/FINAL%20Beaufort%20County%20SMS4%20NOI%20Nov%2019%2014.pdf)

2. Stormwater Workshop for County Council – The half day workshop for the County Council will be held January 22, 2015 from 12:30pm to 5pm at the County Council Chambers in the Administration Building on Ribaut Road. The Board and public are invited to attend. The agenda will include a summary of the background of the MS4 program regulations, a presentation of the current planning activities the Utility is performing, a look at needs in future years, and a review of the stormwater department's funding needs. At the end of the workshop, the staff hopes to receive feedback from the Council so that the program can implement the recommendations from the meeting.

#### Monitoring Update

1. USCB Lab – Dr. Warren and staff have provided us with the following update:  
The certifications the lab applied for fall under the Clean Water Act Methodology since they are testing surface waters for us. I asked them about the needs of MCAS. Hazardous waste falls under the Hazardous Waste Methodology which has different methods than the Clean Water Act, therefore a different certification for those required methods. Currently, the lab has applications in for Clean Water Act Methodology for:  
**Temperature SM 2550 B-2010 (required for Enterolert)**  
**Enterococci (MPN) Enterolert**  
***E.Coli* (MPN) SM 9223B-2004**  
During review of the application, Bennie Cockerel, SCDHEC certification officer, has asked the lab to also submit for “in-situ” parameter certifications. These include the following:  
**Dissolved Oxygen (DO) SM 4500-O G-2011**  
**Hydrogen-Ion Concentration (pH) SM 4500-H+ B-2011**  
**Specific Conductance SM 2510 B-2011**  
**Turbidity SM 2130 B-2011**  
The initial certification application was submitted to SCDHEC Lab Certification on 9/11/2014, in which SCDHEC has 45 days to respond to applicants. Benny Cockerel responded to the lab on 10/24/2014 asking us to submit for the “in-situ” parameters. This process requires the same criteria as the initial certification; PT's, initial start-up data, SOP's, QAM. Since 10/24/2014, the lab has sent their instrument for an upgrade to analyze for turbidity “in-situ”. They also have been working on field logbooks, SOP's and have ordered the PT's for the “in-situ” parameters. Since the start-up data requires PT results, the application for “in-situ” parameters can only be submitted after the PT study closes, which is 12/29/14. Also, please understand that certification is also being sought for all of the analytes of interest to the County (I think the County has an interest in approximately 25). It is a long process, but one the lab has initiated and is committed to.
2. Monitoring data – Kevin Pitts is in the process of building a Microsoft Access database of our past data. This will help with trend analysis as well as organize the data so that we can access it quickly.

#### Stormwater Implementation Committee (SWIC) Report

1. The SWIC met November 12<sup>th</sup> and reviewed the draft NOI applications for the MS4 permits for the County and the Town of Hilton Head Island. In general, the NOIs are similar and meet minimum permit requirements.

2. The SWIC hosted a webinar on Stormwater Pond retrofits being presented by the Center for Watershed Protection. It was held November 12<sup>th</sup> at the Bluffton Town Hall. It was well attended by over 30 professionals in the development community.
3. Public Involvement – The SWIC is working with a local Boy Scout on a potential Eagle Scout project to perform storm drain markings. We will provide more information in the future.
4. Public Education – The SWIC is beginning discussions with SC Sea Grant to host a Stormwater Pond Conference in Beaufort County in 2015. These have been successfully done in the Charleston area for several years.

#### Stormwater Related Projects

1. US 278 Retrofit Ponds (\$356,000 budget) – The project is moving forward. Bids were solicited for hauling and clearing/grubbing and were due Nov. 14<sup>th</sup>. Recommendations for the bid award will go to County Council on December 8<sup>th</sup>. Clearing should begin late December or early January.
2. County Admin. Complex Retrofit Project (\$327,768 budget) – Construction on the project began November 5<sup>th</sup>. Progress has been swift and the project will likely be completed ahead of schedule.
3. Turtle Lane Paving on Lady's Island – Engineering has begun a project to pave Turtle Lane. There is an existing localized flooding problem in the area we are hoping to correct as part of the project. We are currently seeking a proposal from the design-build consultant to address the design.
4. Bluffton Parkway Flyover Project – Eric Larson is advising the design consultant and contractor on means to address adjacent localized drainage problems as part of the roadway storm sewer system construction.

#### Professional Contracts Report

1. Financial Analysis of the Stormwater Utility (\$28,791 budget) – ATM has been provided a task order to begin a review of the fee structure for the Utility. A draft report is scheduled for the January Board meeting. Findings will be presented to the County Council in January workshop.

#### Regional Coordination

1. Battery Creek Pond Funded by an EPA 319 Grant (\$132,609 budget – county portion) – On going. County and City staff are continuing to work with the property owner to negotiate an easement. (Lamar Taylor may also report)
2. May River Watershed Action Plan – Nothing new to report. (Kim Jones may also report).
3. Salinity Study (\$25,000 budget – county portion) - On going. A final report is expected in the upcoming months.
4. Sea Level Rise and Future Planning – On going. The Sea Grant staff is continuing work on the final report. The report will likely be presented to the Planning Commission and Natural Resources Committee at a future date.
5. Drainage Issue on H.E. McCracken Circle in Bluffton – On going. Stormwater staff is evaluating the field data and defining possible actions.

6. SCDOT Stormwater Maintenance – Beaufort County staff has engaged the SCDOT staff in a conversation to discuss maintenance responsibility for the public infrastructure. In the past, there has been some confusion and disagreement on who is required to maintain “outfall” ditches that drain State Right-of-Way. The SCDOT is covered by a MS4 permit and with the pending MS4 permit for the County, this issue needs resolution. There will be future updates as needed.
7. Rob McFee and Eric Larson attended a meeting with DHEC and MCAS staff to discuss the pending renewal of the MCAS hazardous waste handling permit. While not directly related to stormwater quality, the same staff from both DHEC and MCAS also have involvement with other environmental programs that could potentially effect surface and groundwater. The meeting was for information only, but did open discussion on a variety of on-going topics related to our stormwater program.
8. Eric Larson met with facilities staff from USCB to discuss a potential update to their stormwater master plan to address volume control.

# Citizens of Beaufort County, South Carolina

**Clerk to Council**  
S. Rainey

**Boards & Commissions with Staff Liaisons**

- Accommodations Tax (2% State) Board • Airports Board
- Alcohol & Drug Abuse Board
- Construction Adjustments & Appeals Board
- Design Review Board
- Disabilities & Special Needs Board
- Historic Preservation Review Board • Library Board \*
- Parks & Leisure Services Board • Planning Commission
- Rural & Critical Lands Preservation Board
- Solid Waste & Recycling Board
- Southern Beaufort Co. Corridor Beautification Board
- Stormwater Management Utility Board
- Tax Equalization Board • Zoning Board of Appeals

\* Libraries

*Beaufort County Council*

**Beaufort County Administrator**  
G. Kubic, JD

**Deputy County Administrator**  
J. Gruber, JD, MPA  
"Operations"

**County Attorney**  
Legal Services  
FOIA Services

**Employee Services**  
Benefits Services  
Employee Time Mgmt.  
Human Resources  
Recruiting Services

**Auditor**  
Clerk of Court  
Coroner  
Probate Judge  
Sheriff  
Solicitor  
Treasurer

**Legislative Delegation**

**Board of Elections & Voter Registration**  
Magistrates  
Master-in-Equity  
Veterans Affairs Officer

**Assistant County Administrator**  
M. Spells, MPA  
"Civic Engagement & Outreach"

Broadcast Services

**Communications & Accountability**  
Compliance  
Website Design & Content

Records Management

**Community Services**  
Alcohol & Drug Abuse  
COSY/Human Services Alliance  
Disabilities & Special Needs

Information Technology

**Mapping & Applications**  
Applications Support  
Geographical Info. Systems

**Systems Management**  
Help Desk Support  
Info Services  
Systems Support

**Assistant County Administrator**  
A. Holland, CPA  
"Finance"

Assessor

Business License

Fiscal Operations & Payroll

Purchasing

Register of Deeds

Risk Management

**Assistant County Administrator**  
P. Foot, CJM  
"Public Safety"

Animal Services

Building Inspections

Code Enforcement

Detention Center

Emergency Medical Services

Mosquito Control

Parks & Leisure Services

**Engineering, Infrastructure & Land Development**

**Environmental Engineering**  
E. Larson, P.E., AICP, CFM, CPSWQ

Planning

**Public Works**  
Disaster Recovery  
General Support  
Roads & Drainage  
Solid Waste & Recycling  
Stormwater

Zoning

**Facilities & Construction Engineering**  
J.R. McFee, P.E.

**Engineering**  
Construction Management  
Capital Improvements Projects  
Right of Way Management

**Facility Management**  
Facilities Maintenance  
Grounds Maintenance

**Transportation Engineering**  
C. Kinton, P.E.

Airports

**Traffic Engineering**



November 2014

- Elected Officials
- Appointed Officials
- Operations Staff
- Administrative Staff
- County Divisions
- County Departments
- State Oversight
- Indirect Authority
- Direct Authority

# EPA | Post-Construction Region 4 | Workshop South Carolina



## Hilton Head Island

Date: December 12, 2014

Time: 8:30 am to 4:00 pm

Location: Sonesta Resort Hilton Head Island  
Shipyard Plantation  
130 Shipyard Drive  
Hilton Head Island, SC 29928  
[www.sonesta.com/hiltonhead](http://www.sonesta.com/hiltonhead)  
(843) 842-2400

EPA Region 4 is hosting a one-day workshop in Hilton Head on December 12, 2014 to discuss the use of green infrastructure and low impact development controls to manage post-construction stormwater runoff to maintain pre-development runoff conditions. The workshop will explain site design procedures, present examples and case studies, and discuss the costs and benefits of green infrastructure.

The workshop is open to municipalities, State representatives, developers, and other stormwater practitioners involved in the municipal stormwater program. The workshop will be at no cost, but attendees need to register using the following website:

<http://water.epa.gov/polwaste/npdes/NPDES-Training-Courses-and-Workshops.cfm>

Hotel Rooms: Rooms are available for \$99/night plus taxes. The hotel has waived the resort facilities fee for workshop attendees.

## MUNICIPAL STORMWATER PROGRAM



For more information, please contact  
Mike Mitchell, U.S. EPA Region 4

at 404-562-9303 or via e-mail at [Mitchell.michael@epa.gov](mailto:Mitchell.michael@epa.gov)





## Stormwater Program Update

## Most Recent Capital Improvements


### Cypress Wetlands Stormwater Management System

**History**

- Contained three heavily impacted freshwater wetland system used for the discharge of stormwater
- No outlet to release or control water levels
- Overtopped and flooded streets on a number of occasions
- Contained a non-functioning rookery and some public access
- Heavily overgrown with invasive species

**Project Goals**

- Control flooding
- Create Regional BMP
- Reconnect wetland systems
- Restore wetlands
- Restore rookery
- Provide public access and amenities



### Cypress Wetlands Stormwater Management System

**Six Year Program to Create a Integrated Stormwater Management System**

- Modeled the entire watershed and designed flooding control system
- Undertook program to restore wetland vegetation, open water areas, remove invasive species and restore rookery
- Designed, permitted and constructed loop trail system, amphitheater, over 800 feet of elevated walkways and overlooks
- Developed walking maps and public education materials on Wetlands and Stormwater
- Funded from SW Fund & TIF



### Police Station Parking Lot Improvements

**Demonstration Project to expand building, reduce volume and provide SW capture and treatment**

- Reconstruction of existing asphalt parking lot
- Conversion to pervious paver system
- Capture, storage and treatment of existing and expanded building footprint run off
- Sub system of the larger adjacent Cypress Wetlands SW Management System



### On Going Maintenance

- **Stormwater System Cleaning** – Paris Ave. System, Battery Creek Condos, Hillside Drive and Ribaut Road (SCDOT system)
- **Stormwater System Repairs** – Hillside Drive drainage system improvements, 11<sup>th</sup> Ave. Stormwater System Repairs, Marina Drive outfall (joint project with County), 13<sup>th</sup> street repairs and rerouting
- **Outfalls** - Cleaned, Repaired all outfalls as needed
- **Stormwater System Mapping** – All outfalls and continuation of field location of existing drainage systems
- **Street Sweeping** – two week schedule – Bell Bridge, Ribaut Road, Paris Ave. (weekly)

## Codes & Review

- Recently adopted Form Based Code that includes new stormwater BMP requirements
- Town uses Beaufort County Volume Control Ordinance as its own for all new development and redevelopment per IGA
- Cypress Wetlands “Stormwater Allocation” program
- Town reviews and approves all stormwater projects for new development within Port Royal
- Town does periodic site visits during stormwater system construction to check compliance
- Town participates in final review and engineer’s acceptance process
- Town will hold CO or development permits as necessary to insure compliance to stormwater regulations

## Financial Status & Fees

SW Fund Balance (Nov. 2013)	\$511,739.00
Nov. 2013 to 2014 Expenditures	<del>\$414,069.25</del>
Current SW Fund Balance (as of Nov. 2014)	\$97,670.00
Current Fees	\$50/year per ERU

## What is Next?

- Prepare for MS4
  - Expand current Stormwater Regulations
  - Modify Current Stormwater Ordinance
  - Continued cooperation with County on MCM #1 & #2
  - Continue system mapping program
- Possible new capital project to increase the watershed of the Cypress Wetland Stormwater Management System
- Integration of SCSPA property into current Stormwater Program



## Question and Answers

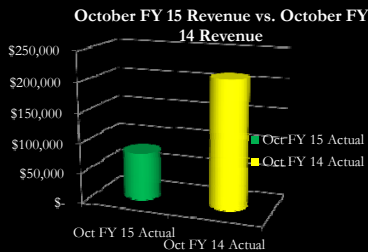


## Stormwater Management Utility Meeting Board

# STORMWATER FINANCIALS

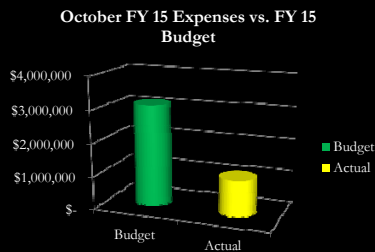
ITEM 04D [BACKUP](#)

## October Unaudited Financials



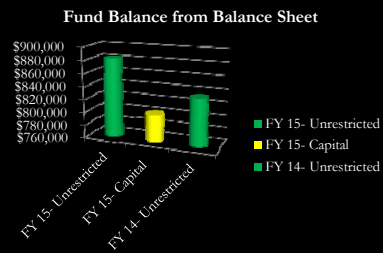
Actual FY15 revenues are \$114,000 less or 65% than actual FY 14 revenues

## October Unaudited Financials



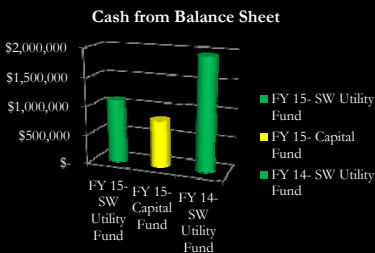
Actual October FY15 expenses are at 35% of budget for FY 15

## October Unaudited Financials



FY15 Fund Balances decreased by \$52,000 or 3%

## October Unaudited Financials



FY15 Cash Balances decreased by \$37,000 or 2%



COUNTY COUNCIL OF BEAUFORT COUNTY  
**FINANCE DEPARTMENT**  
Post Office Drawer 1228  
Beaufort, South Carolina 29901-1228

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November 25, 2014

Alan R. Eisenman, CPA  
Financial Supervisor  
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**October 2014 Stormwater Financials Narrative and Analysis**

Janet Andrews  
Accounting Supervisor  
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Since October is the 4<sup>th</sup> month of the fiscal year, one might expect expenses to be at 33% of budget based on consistent and recurring expenses and Stormwater is currently slightly over this budget level at 35%. However, Stormwater expenses have decreased by about \$23,000 and this can be mostly attributed to fewer supplies expenses compared to last year.

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Stormwater revenues are about \$144,000 lower than October 2013, but this is probably due to more taxpayers paying their property taxes on time and therefore fewer properties available for bidding during the Treasurer's Office October tax sale. Since Stormwater's main source of revenues is from Stormwater Utility fees in property taxes, it should have a better idea of revenue when most of the 2014 tax bills have been paid by the middle of January 2015.

Frances Collins  
Accounts Payable  
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With the recent addition of the Capital Improvement Fund, some Stormwater Utility Funds have been transferred for larger retrofit projects that might take several years to fund and to finish. Therefore, the Stormwater cash balance is now comprised of two cash balances. The Stormwater cash balance has decreased by about \$37,000 compared to last year, along with a decrease in fund balance by about \$52,000.

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Respectively submitted,

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102 Industrial Village Road, Building 2, Beaufort, SC 29906

*"Professionally we serve; Personally we care!"*

**UNAUDITED AND PRELIMINARY**  
**BEAUFORT COUNTY, SOUTH CAROLINA**  
**STATEMENT OF NET ASSETS**  
Stormwater Utility and Capital Improvement Funds  
October 31, 2014 & October 31, 2013

	Stormwater Utility Fund October 31, 2014	Capital Improvements Fund October 31, 2014	Stormwater Utility Fund October 31, 2013
<b><u>ASSETS</u></b>			
<b>Current Assets</b>			
Cash and Investments with Trustee	\$ 1,093,602	\$ 801,368	\$ 1,932,391
Receivables, Net	9,049	-	38,099
Inventories	113,850	-	92,511
Total Current Assets	<u>1,216,501</u>	<u>801,368</u>	<u>2,063,001</u>
Capital Assets	2,894,839	-	2,800,950
Accumulated Depreciation	<u>(2,109,674)</u>	<u>-</u>	<u>(2,021,732)</u>
	785,165	-	779,218
Total Assets	<u>\$ 2,001,666</u>	<u>\$ 801,368</u>	<u>\$ 2,842,219</u>
<b><u>LIABILITIES</u></b>			
<b>Liabilities</b>			
Account Payable	72,086	-	189,095
Accrued Payroll	53,315	-	77,839
Accrued Compensated Absences	6,247	-	4,470
Total Current Liabilities	<u>131,648</u>	<u>-</u>	<u>271,404</u>
<b>Long Term Liabilities</b>			
Accrued Compensated Absences	67,554	-	57,156
Net Other Postemployment Benefits Obligation	<u>920,444</u>	<u>-</u>	<u>777,849</u>
Total Long Term Liabilities	<u>987,998</u>	<u>-</u>	<u>835,005</u>
Total Liabilities	1,119,646	-	1,106,409
<b><u>NET ASSETS</u></b>			
Invested in Capital Assets, Net of Related Debt	785,165	-	779,218
Reserved for Encumbrances	217,156	307,587	123,979
Reserved for Capital Improvements	-	493,781	-
Unrestricted	<u>(120,301)</u>	<u>-</u>	<u>832,613</u>
Total Net Assets	<u>\$ 882,020</u>	<u>\$ 801,368</u>	<u>\$ 1,735,810</u>

**Unaudited and Preliminary**  
 BEAUFORT COUNTY, SOUTH CAROLINA  
 STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS  
 Stormwater Utility Fund  
 For the Period Ended October 31, 2014

	Budget FY 2015	October 31, 2014	Budget to Actual	Percent of Budget
Operating Revenues				
Stormwater Utility Fees	\$ 3,132,205	\$ 77,405	(3,054,800)	2%
Stormwater Utility Project Billings	44,189	798	(43,391)	2%
Total Operating Revenues	<u>3,176,394</u>	<u>78,203</u>	<u>(3,098,191)</u>	<u>2%</u>
Operating Expenses				
Personnel	1,883,440	717,473	(1,165,967)	38%
Purchased Services	684,864	244,757	(440,107)	36%
Supplies	350,509	51,841	(298,668)	15%
Depreciation	182,523	60,844	(121,679)	33%
Total Operating Expenses	<u>3,101,336</u>	<u>1,074,915</u>	<u>(2,026,421)</u>	<u>35%</u>
Operating Income (Loss)	75,058	(996,712)	(1,071,770)	-1328%
Non-Operating Revenues (Expenses)				
Interest Earned	2,955	-	(2,955)	0%
Total Non-Operating Revenues (Expenses)	<u>2,955</u>	<u>-</u>	<u>(2,955)</u>	<u>0%</u>
Transfers Out To Capital Improvement Fund	-	12,365	12,365	100%
Change in Net Assets	78,013	(1,009,077)	(1,087,090)	-1293%
Net Assets, Beginning	<u>1,891,097</u>	<u>1,891,097</u>		
Net Assets, Ending	<u>\$ 1,969,110</u>	<u>\$ 882,020</u>	(1,087,090)	45%

**Unaudited and Preliminary**  
**BEAUFORT COUNTY, SOUTH CAROLINA**  
**STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS**  
**Stormwater Capital Improvements Fund**  
**For the Period Ended October 31, 2014**

	Budget FY 2015	October 31, 2014	Budget to Actual	Percent of Budget
<b>Transfers In from Stormwater Utility Fund</b>				
Administration Complex Parking Lot Retrofit	\$ -	\$ -	-	0%
Okatie East Retrofit	-	-	-	0%
Highway 278 Retrofit	-	-	-	0%
Okatie West Retrofit	-	-	-	0%
Buckingham Plantation Retrofit	-	12,365	12,365	100%
Upper Battery Creek Retrofit	-	-	-	0%
<b>Total Transfers In</b>	<u>-</u>	<u>12,365</u>	<u>12,365</u>	<u>0%</u>
<b>Capital Improvement Expenses</b>				
Administration Complex Parking Lot Retrofit	-	360	360	100%
Okatie East Retrofit	-	1,458	1,458	100%
Highway 278 Retrofit	-	-	-	0%
Okatie West Retrofit	-	12,938	12,938	100%
Buckingham Plantation Retrofit	-	-	-	0%
Upper Battery Creek Retrofit	-	4,634	4,634	100%
<b>Total Operating Expenses</b>	<u>-</u>	<u>19,390</u>	<u>19,390</u>	<u>100%</u>
<b>Change in Net Assets by Project</b>				
Administration Complex Parking Lot Retrofit		(360)	(360)	
Okatie East Retrofit		(1,458)	(1,458)	
Highway 278 Retrofit		-	-	
Okatie West Retrofit		(12,938)	(12,938)	
Buckingham Plantation Retrofit		12,365	12,365	
Upper Battery Creek Retrofit		(4,634)	(4,634)	
<b>Total Change in Net Assets by Project</b>		<u>(7,025)</u>	<u>(7,025)</u>	
<b>Net Assets, Beginning</b>				
Administration Complex Parking Lot Retrofit		327,169		
Okatie East Retrofit		40,892		
Highway 278 Retrofit		207,722		
Okatie West Retrofit		100,000		
Buckingham Plantation Retrofit		-		
Upper Battery Creek Retrofit		132,610		
<b>Total Net Assets, Beginning</b>		<u>808,393</u>		
<b>Net Assets, Ending</b>				
Administration Complex Parking Lot Retrofit		326,809		
Okatie East Retrofit		39,434		
Highway 278 Retrofit		207,722		
Okatie West Retrofit		87,062		
Buckingham Plantation Retrofit		12,365		
Upper Battery Creek Retrofit		127,976		
<b>Total Net Assets, Ending</b>	<u>\$ -</u>	<u>\$ 801,368</u>		

**Unaudited and Preliminary**  
**BEAUFORT COUNTY, SOUTH CAROLINA**  
**STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS**  
**Stormwater Utility Fund**  
**For the Period Ended October 31, 2013**

	Budget FY 2014	October 31, 2013	Budget to Actual	Percent of Budget
Operating Revenues				
Stormwater Utility Fees	\$ 3,475,000	\$ 211,395	(3,263,605)	6%
Stormwater Utility Project Billings	60,023	11,534	(48,489)	19%
Total Operating Revenues	<u>3,535,023</u>	<u>222,929</u>	<u>(3,312,094)</u>	6%
Operating Expenses				
Personnel	2,160,475	612,392	(1,548,083)	28%
Purchased Services	961,864	272,794	(689,070)	28%
Supplies	381,446	132,773	(248,673)	35%
Depreciation	242,119	80,708	(161,411)	33%
Total Operating Expenses	<u>3,745,904</u>	<u>1,098,667</u>	<u>(2,647,237)</u>	29%
Operating Income (Loss)	(210,881)	(875,738)	(664,857)	415%
Non-Operating Revenues (Expenses)				
Gain (Loss) on Sale of Capital Assets	-	(31,113)	(31,113)	-100%
Interest Earned	6,922	-	(6,922)	0%
Total Non-Operating Revenues (Expenses)	<u>6,922</u>	<u>(31,113)</u>	<u>(38,035)</u>	0%
Change in Net Assets	(203,959)	(906,851)	(702,892)	445%
Net Assets, Beginning	<u>2,642,661</u>	<u>2,642,661</u>		
Net Assets, Ending	<u>\$ 2,438,702</u>	<u>\$ 1,735,810</u>	(702,892)	71%





COUNTY COUNCIL OF BEAUFORT COUNTY  
**PURCHASING DEPARTMENT**  
106 Industrial Village Road, Building 2  
Post Office Drawer 1228  
Beaufort, South Carolina 29901-1228

**TO:** Councilman Brian Flewelling, Chairman, Natural Resources Committee  
**FROM:** Dave Thomas, CPPO, Purchasing Director  
**SUBJ:** CONTRACT AWARD RECOMMENDATION FOR THE US 278 STORMWATER POND RETROFIT PROJECT – DIRT HAULING SERVICES  
**DATE:** December 8, 2014

**BACKGROUND:** The project is part of a larger project to construct four (4) stormwater detention ponds along US 278 to capture and treat runoff from the roadway widening that occurred in 2013 – 2014. The ponds are to be constructed by the Beaufort County Stormwater Utility Infrastructure crews. In conjunction with this project, the excavated soil from the pond sites is being hauled and stockpiled at the Buckwalter Park soccer complex for a future project to construct additional soccer fields. **The scope of this contract is to provide hauling services only.**

Beaufort County advertised for bid submittals on this project on October 24, 2014. On November 14, 2014, Beaufort County received the following quotes for the referenced project.

<b>BIDDERS:</b>	<u>Total Quote</u>
The Lane Construction Corporation, Beaufort, SC	\$ 82.00 / truck / hour
Cleland Site Prep, Inc., Bluffton, SC	\$ 82.50 / truck / hour

Based on the contract specifications, the contractors quoted the hourly rate based on a minimum of six (6) trucks, each operating eight (8) hours per day for sixty (60) working days. Based on the low bidder, the contract amount would be an amount not to exceed \$236,160.

Funding for the four (4) ponds is cost shared among the Stormwater Utility Capital Fund and the US 278 widening project. The US 278 widening project has \$29,693 remaining in the fund and is prorated between this project and the associated Clearing and Grubbing project. The Buckwalter soccer field expansion project is funding 50% of the hauling costs to the soccer field site for stockpiling.

**FUNDING:**  
50260013-51160, Stormwater Capital Improvement Fund - \$95,180  
33402-54503, US 278 2012 STP Fund (1 cent tax fund) - \$22,270  
26520011, Buckwalter Soccer Field Expansion (PALS Impact Fees) - \$118,080

**FOR ACTION:** Natural Resources Committee meeting December 8, 2014.

**RECOMMENDATION:** The Natural Resources Committee approve and recommend to County Council to award the project to The Lane Construction Company, Beaufort, SC in the amount not to exceed \$236,160 for the US 278 Stormwater Pond Retrofit project.

CC: Gary Kubic, County Administrator  
Joshua Gruber, Deputy County Administrator  
Alicia Holland, Chief Financial Officer  
Eric Larson, Director of Environmental Engineering  
Robert McFee, Director of Facilities and Construction Engineering  
Scott Marshall, Parks and Leisure Services



COUNTY COUNCIL OF BEAUFORT COUNTY  
**PURCHASING DEPARTMENT**  
106 Industrial Village Road, Building 2  
Post Office Drawer 1228  
Beaufort, South Carolina 29901-1228

**TO:** Councilman Brian Flewelling, Chairman, Natural Resources Committee  
**FROM:** Dave Thomas, CPPO, Purchasing Director  
**SUBJ:** CONTRACT AWARD RECOMMENDATION FOR THE US 278 STORMWATER POND RETROFIT PROJECT – SITE CLEARING AND GRUBBING  
**DATE:** December 8, 2014

**BACKGROUND:** The project is part of a larger project to construct four (4) stormwater detention ponds along US 278 to capture and treat runoff from the roadway widening that occurred in 2013 – 2014. The ponds are to be constructed by the Beaufort County Stormwater Utility Infrastructure crews. In conjunction with this project, the excavated soil from the pond sites is being hauled and stockpiled at the Buckwalter Park soccer complex for a future project to construct additional soccer fields. **The scope of this contract is to provide clearing and grubbing only for the five sites to facilitate excavation and stockpiling.**

Beaufort County advertised for bid submittals on this project on October 24, 2014. On November 14, 2014, Beaufort County received the following quotes for the referenced project.

<b>BIDDERS:</b>	<u>Total Quote</u>
JS Construction Services Inc., Bluffton, SC	\$ 78,280.
Cleland Site Prep, Inc., Bluffton, SC	\$ 118,526.

Funding for the four (4) ponds is cost shared among the Stormwater Utility Capital Fund and the US 278 widening project. The US 278 widening project has \$29,693 remaining in the fund and is prorated between this project and the associated Hauling project. The Buckwalter soccer field expansion project is funding the clearing of the soccer field site for stockpiling.

**FUNDING:**  
50260013-51160, Stormwater Capital Improvement Fund - \$73,680  
33402-54503, US 278 2012 STP Fund (1 cent tax fund) - \$7,423  
26520011, Buckwalter Soccer Field Expansion (PALS Impact Fees) - \$4,600

**FOR ACTION:** Natural Resources Committee meeting December 8, 2014.

**RECOMMENDATION:** The Natural Resources Committee approve and recommend to County Council to award the project to JS Construction Services Inc., Bluffton, SC in the amount not to exceed \$78,280 for the US 278 Stormwater Pond Retrofit project.

**CC:** Gary Kubic, County Administrator  
Joshua Gruber, Deputy County Administrator  
Alicia Holland, Chief Financial Officer  
Eric Larson, Director of Environmental Engineering  
Robert McFee, Director of Facilities and Construction Engineering  
Scott Marshall, Parks and Leisure Services



## MEMORANDUM

Date: November 5, 2014

To: Stormwater Management Utility Board

From: Eddie Bellamy, Public Works Director

Re: **Maintenance Project Report for November 2014**

1. This report will cover two major and five minor or routine projects. My staff may have been able to have a few more reports ready but I imposed an early cutoff date due to the Thanksgiving holidays and impending duck season. The Project Summary Reports are attached.

2. Major Projects:

- A. **George Williams Lane Channel #1**, completed in October in Sheldon, District 5; we bush hogged and cleaned out 3,215 feet of channel, reconstructed 3,215 feet of workshelf, installed 260 feet of channel pipe, one access pipe, one access gate, and 20 feet of roadside pipe. We also replaced one crossline pipe, replaced and extended one access pipe, jetted four crossline pipes, and installed rip-rap and hydroseeded for erosion control. Total cost of the project was **\$94,333**.
- B. **Milledge Village Road**, completed in September in the Burton area of Port Royal Island, District 6; we cleaned out two catch basins and 3,836 feet of roadside ditch, jetted out 31 driveway pipes, 304 feet of roadside pipe, hydroseeded for erosion control. Total cost of the project was **\$29,835**.

3. Minor or Routine Projects:

- A. **Wimbee Creek Road Channel #1**, completed in June in the Dale section of Sheldon Township, District 5; we cleaned out 735 feet of channel.
- B. **Judge Island Drive**, completed in September on Judge Island, District 7; we upsized one crossline pipe..
- C. **Pinewood Circle Channel # 1**, completed in September in the Burton area of Port Royal Island, District 6; we bush hogged 3,387 feet of channel and cleaned out 600 feet of channel.
- D. **Lady's Island Bush Hogging**, completed in October on Lady's Island, District 7; we bush hogged 29,796 feet of channel and workshelf. Total cost of the effort was **\$24,829** or **\$.83** per linear foot.
- E. **Shell Point Recreation Park**, completed in October on Port Royal Island, District 6; we jetted out one crossline pipe.



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

**Project Summary:** George Williams Lane Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Completion:** Oct-14

Project improved 3,235 L.F. of drainage system. Bush hogged and cleaned out 3,215 L.F. of channel. Reconstructed 3,215 L.F. of workshelf. Installed 260 L.F. channel pipe, (1) access pipe, (1) access gate, 20 L.F. of roadside pipe for erosion prevention and rip rap for erosion control. Replaced (1) crossline pipe. Replaced and extended (1) access pipe. Jetted (4) crossline pipes. Hydroseeded for erosion control.

2014-611 / George Williams Lane Channel #1	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Overhead Cost	Total Cost
AGI / Access Gate - Installed	30.0	\$675.00	\$195.24	\$212.28	\$0.00	\$301.20	\$1,383.72
APINS / Access pipe - installed	28.0	\$656.72	\$178.13	\$393.27	\$0.00	\$468.51	\$1,696.62
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
BKFILL / Back Fill	50.0	\$1,159.60	\$435.28	\$57.98	\$0.00	\$755.10	\$2,407.96
CLPINS / Crossline Pipe - Installed	50.0	\$1,114.78	\$430.24	\$194.43	\$0.00	\$715.35	\$2,454.80
CLPJT / Crossline Pipe - Jetted	38.0	\$840.70	\$217.54	\$85.49	\$0.00	\$484.89	\$1,628.62
DWR / Dewatered Road	12.0	\$267.42	\$51.46	\$30.55	\$0.00	\$169.74	\$519.17
HAUL / Hauling	364.8	\$8,207.30	\$3,909.62	\$15,452.04	\$0.00	\$5,487.86	\$33,056.82
HYDR / Hydroseeding	25.0	\$594.90	\$95.52	\$211.37	\$0.00	\$374.05	\$1,275.84
LM / Loading Materials	33.0	\$751.89	\$235.25	\$62.27	\$0.00	\$502.65	\$1,552.06
LR / Level Road	12.0	\$249.30	\$65.72	\$36.53	\$0.00	\$162.21	\$513.76
ODBH / Channel- bushhogged	31.0	\$698.70	\$180.84	\$295.46	\$0.00	\$492.01	\$1,667.01
ODCO / Channel - cleaned out	152.0	\$3,452.73	\$2,086.46	\$599.82	\$0.00	\$2,292.09	\$8,431.11
OFPI / Channel Pipe - Installation	140.0	\$3,099.83	\$801.32	\$3,865.67	\$0.00	\$1,978.10	\$9,744.91
ONJV / Onsite Job Visit	176.5	\$5,557.86	\$613.59	\$342.81	\$0.00	\$3,664.03	\$10,178.29
PP / Project Preparation	8.0	\$182.44	\$76.52	\$44.07	\$0.00	\$102.90	\$405.93
PRRECON / Project Reconnaissance	16.0	\$356.56	\$14.48	\$27.30	\$0.00	\$226.32	\$624.66
RB / Remove blockage from flowline	47.0	\$1,021.71	\$116.56	\$38.96	\$0.00	\$678.64	\$1,855.87
RRI / Rip Rap - Installed	50.0	\$1,108.12	\$333.52	\$196.45	\$0.00	\$718.17	\$2,356.26
RSPi / Roadside Pipe - Installed	36.5	\$821.31	\$436.32	\$165.51	\$0.00	\$520.86	\$1,944.00
SD / Soft Digging	10.0	\$223.38	\$110.80	\$21.53	\$0.00	\$149.55	\$505.26
STAGING / Staging Materials	83.0	\$1,832.34	\$123.02	\$32.30	\$0.00	\$1,038.99	\$3,026.65
UTLOC / Utility locates	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
WSBH / Workshelf - Bush Hogged	12.5	\$264.49	\$249.99	\$72.35	\$0.00	\$113.28	\$700.10
WSDR / Workshelf - Dressed	119.0	\$2,640.71	\$1,374.91	\$453.00	\$0.00	\$1,867.85	\$6,336.47
<b>2014-611 / George Williams Lane Channel #1</b>	<b>1,526.3</b>	<b>\$35,818.71</b>	<b>\$12,332.33</b>	<b>\$22,891.41</b>	<b>\$0.00</b>	<b>\$23,290.81</b>	<b>\$94,333.25</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>1,526.3</b>	<b>\$35,818.71</b>	<b>\$12,332.33</b>	<b>\$22,891.41</b>	<b>\$0.00</b>	<b>\$23,290.81</b>	<b>\$94,333.25</b>

Before



During



After



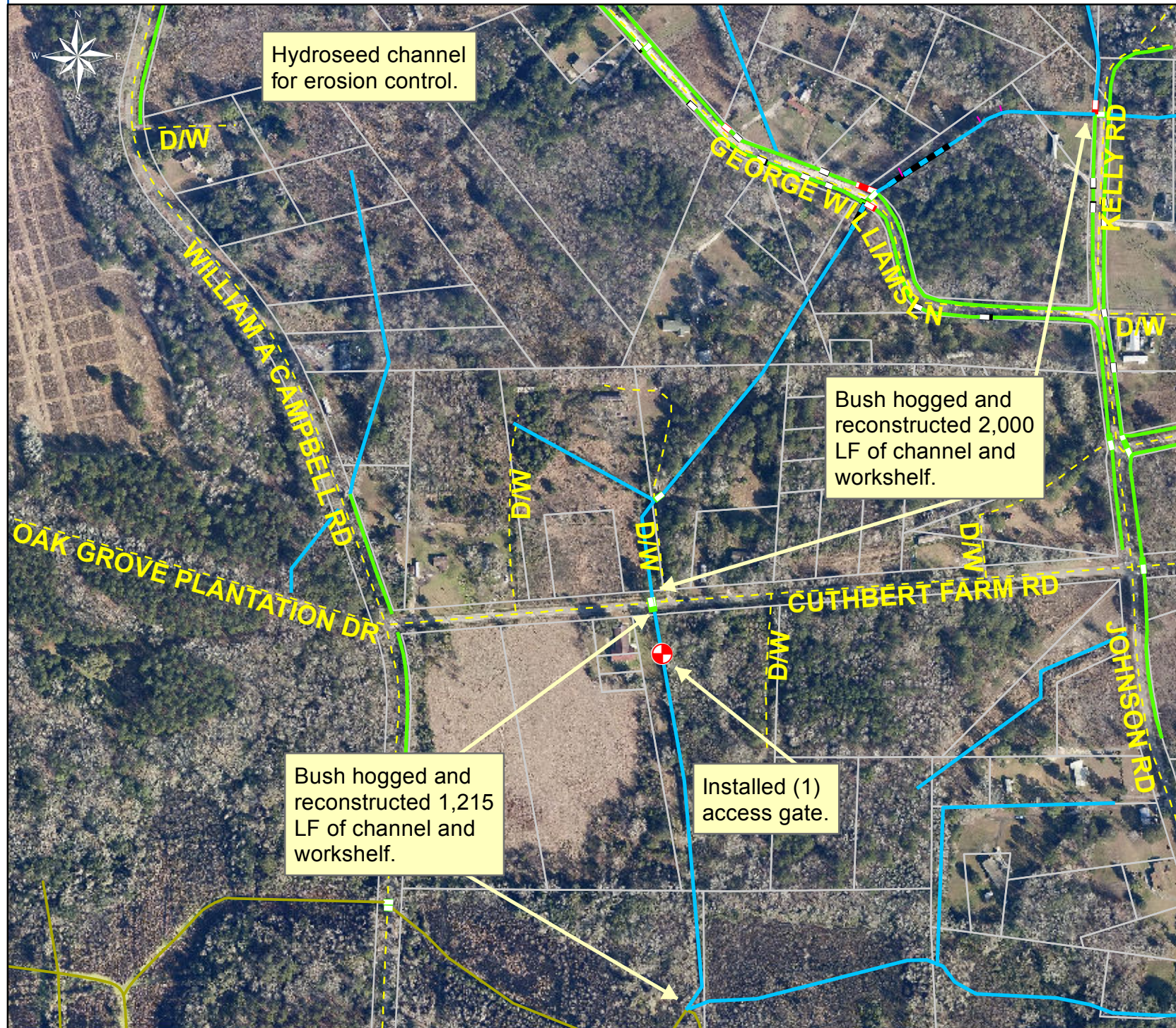
**Project: George William Lane Channel #1 Map 1**

**Activity: Bush Hog**

**Project #: 2014-611**

**Township: Sheldon**

**Completed: October 2014**



**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 = 373 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 11/19/14

File:C:/sethdata/projects/projectmaps/BH/George William Ln 2014-611 Map1

**Project: George William Lane Channel #1 Map 2**

**Activity: Vacuum Truck**















**Project #: 2014-611**

**Township: Sheldon**

**Completed: October 2014**

**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

Jetted (2) crossline pipes.

Jetted (2) crossline pipes.



1 inch = 199 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 11/19/14

File:C:/sethdata/projects/projectmaps/Vac/George William Ln 2014-611 Map2

**Project: George William Lane Channel #1 Map 3**

**Activity: Routine/ Preventive Maintenance**















**Project #: 2014-611**

**Township: Sheldon**

**Completed: October 2014**

**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 = 346 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 11/19/14

File:C:/sethdata/projects/projectmaps//George William Ln 2014-611 Map3

**Project: George William Lane Channel #1 Map 4**















**Activity: Routine/ Preventive Maintenance**

**Project #: 2014-611**

**Township: Sheldon**

**Completed: October 2014**

**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 = 81 feet**





# Beaufort County Public Works Stormwater Infrastructure Project Summary

**Project Summary:** Milledge Village Road

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Completion:** Sep-14

Project improved 4,140 L.F. of drainage system. Cleaned out (2) catch basins and 3,836 L.F. of roadside ditch. Jetted (3) crossline pipes, (31) driveway pipes and 304 L.F. of roadside pipe. Hydroseeded for erosion control.

2014-615 / Milledge Village 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
CBCO / Catch basin - clean out	32.0	\$714.82	\$354.56	\$106.92	\$0.00	\$478.56	\$1,654.86
DPJT / Driveway Pipe - Jetted	40.0	\$893.52	\$443.20	\$210.64	\$0.00	\$598.20	\$2,145.56
HAUL / Hauling	151.5	\$3,300.45	\$1,621.05	\$560.00	\$0.00	\$2,205.13	\$7,686.63
LP / Locate Pipe	16.0	\$356.56	\$14.48	\$5.84	\$0.00	\$226.32	\$603.20
ONJV / Onsite Job Visit	52.0	\$1,820.63	\$188.24	\$186.88	\$0.00	\$1,326.91	\$3,522.66
RB / Remove blockage from flowline	8.0	\$178.70	\$88.64	\$26.00	\$0.00	\$119.64	\$412.98
RSDCL / Roadside Ditch - Cleanout	305.0	\$6,742.95	\$1,524.72	\$621.28	\$0.00	\$4,502.60	\$13,391.55
RSPJ / Roadside Pipe - Jetted	7.0	\$158.00	\$88.64	\$31.00	\$0.00	\$106.20	\$383.84
UTLOC / Utility locates	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
<b>2014-615 / Milledge Village Road Sub Total</b>	<b>612.5</b>	<b>\$14,186.08</b>	<b>\$4,323.53</b>	<b>\$1,748.56</b>	<b>\$0.00</b>	<b>\$9,576.79</b>	<b>\$29,834.96</b>
<b>Grand Total</b>	<b>612.5</b>	<b>\$14,186.08</b>	<b>\$4,323.53</b>	<b>\$1,748.56</b>	<b>\$0.00</b>	<b>\$9,576.79</b>	<b>\$29,834.96</b>

Before



During



After





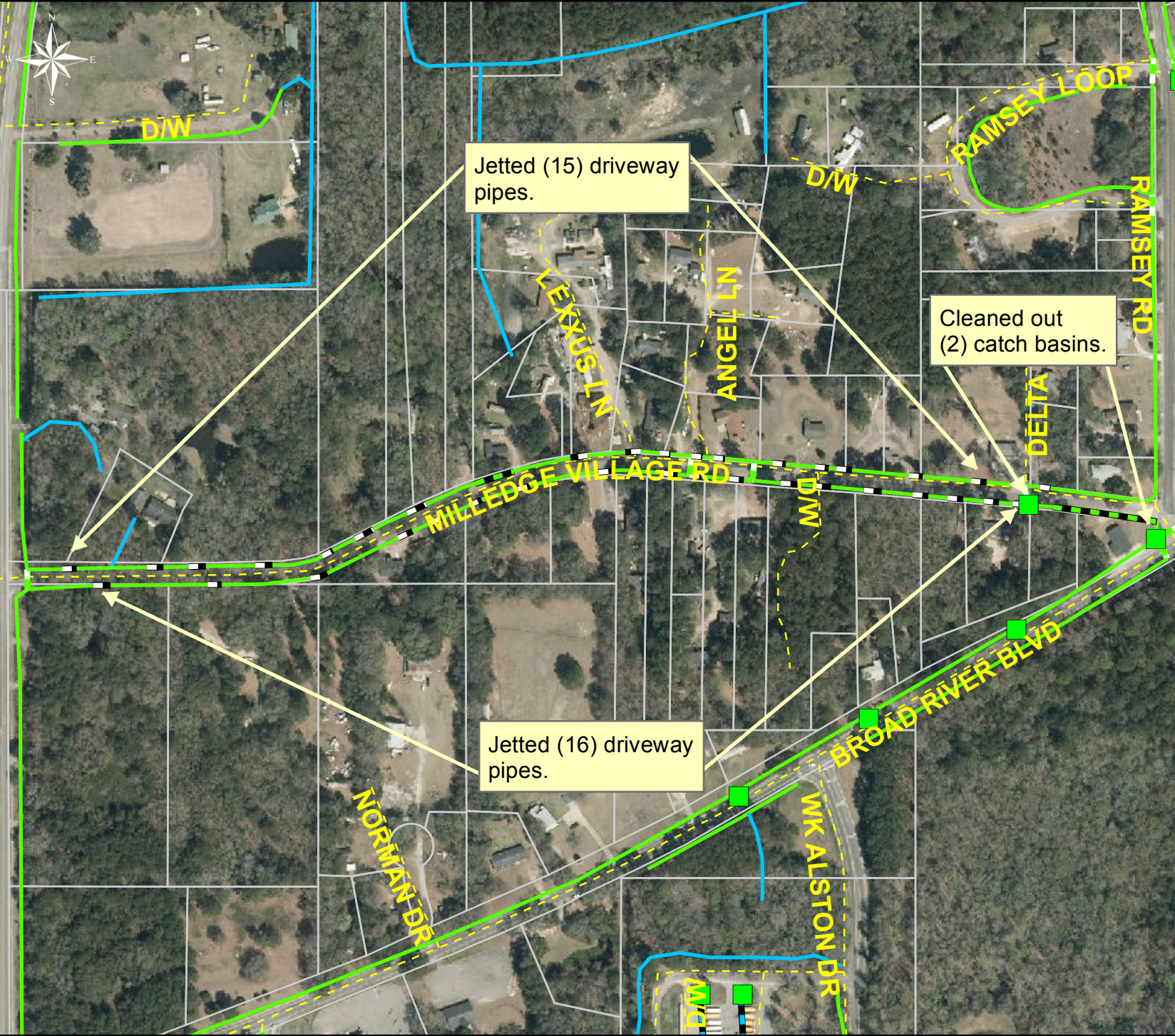
**Project: Milledge Village Road Map 2**

**Activity: Vacuum Truck**

**Project #: 2014-615**

**Township: Port Royal Island**

**Completed: September 2014**



**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 = 306 feet**

**Project: Milledge Village Road Map 3**

**Activity: Vacuum Truck**

**Project #: 2014-615**

**Township: Port Royal Island**

**Completed: September 2014**



**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 = 163 feet**



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

**Project Summary:** Wimbee Creek Road Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 735 L.F. of drainage system. Cleaned out 735 L.F. of channel.

**Completion:** Jun-14

<b>2014-605 / Wimbee Creek Rd Channel #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	16.0	\$351.30	\$171.20	\$120.99	\$0.00	\$235.24	\$878.73
ODCO / Channel - cleaned out	52.0	\$1,223.49	\$362.02	\$81.13	\$0.00	\$785.32	\$2,451.97
ONJV / Onsite Job Visit	2.0	\$59.68	\$7.24	\$6.38	\$0.00	\$36.46	\$109.76
<b>2014-605 / Wimbee Creek Rd Channel #1 Sub Total</b>	<b>70.5</b>	<b>\$1,644.70</b>	<b>\$540.46</b>	<b>\$208.50</b>	<b>\$0.00</b>	<b>\$1,063.64</b>	<b>\$3,457.30</b>
<b>Grand Total</b>	<b>70.5</b>	<b>\$1,644.70</b>	<b>\$540.46</b>	<b>\$208.50</b>	<b>\$0.00</b>	<b>\$1,063.64</b>	<b>\$3,457.30</b>

(Pictures Not Available)

**Project: Wimbee  
Creek Road**

**Activity: Routine/  
Preventive  
Maintenance**





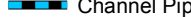





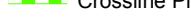
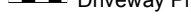
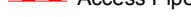

**Project #:  
2014-605**

**Township:  
Sheldon**

**Completed:  
June 2014**

**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 = 198 feet**



# Beaufort County Public Works

## Stormwater Infrastructure

### Project Summary

**Project Summary:** Judge Island Drive

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Completion:** Sep-14

Upsized (1) crossline pipe.

2015-524 / Judge Island 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
BKFILL / Back Fill	10.0	\$204.60	\$80.20	\$29.20	\$0.00	\$132.30	\$446.30
CLJS / Cleaned up jobsite	16.0	\$356.55	\$36.48	\$23.64	\$0.00	\$226.32	\$642.99
CPUP / Crossline Pipe - Upsized	40.0	\$891.40	\$127.43	\$275.30	\$0.00	\$555.60	\$1,849.73
HAUL / Hauling	23.0	\$497.49	\$246.10	\$416.28	\$0.00	\$331.66	\$1,491.53
ONJV / Onsite Job Visit	18.0	\$543.80	\$65.16	\$40.88	\$0.00	\$340.62	\$990.46
STAGING / Staging Materials	20.0	\$450.23	\$18.10	\$35.04	\$0.00	\$302.10	\$805.47
UTLOC / Utility locates	2.5	\$76.59	\$7.24	\$8.76	\$0.00	\$55.56	\$148.15
<b>2015-524 / Judge Island Drive Sub Total</b>	<b>130.0</b>	<b>\$3,030.89</b>	<b>\$580.71</b>	<b>\$829.10</b>	<b>\$0.00</b>	<b>\$1,950.77</b>	<b>\$6,391.47</b>
<b>Grand Total</b>	<b>130.0</b>	<b>\$3,030.89</b>	<b>\$580.71</b>	<b>\$829.10</b>	<b>\$0.00</b>	<b>\$1,950.77</b>	<b>\$6,391.47</b>

Before



During



After



**Project: Judge  
Island Drive**

**Activity: Routine/  
Preventive  
Maintenance**

**Project #:  
2015-524**















**Township: Lady's  
Island**

**Completed:  
September 2014**

Upsized (1)  
crossline pipe.

**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 37.5 75 150 225 300  
Feet

1 inch = 149 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/27/14

File:C:/sethdata/projects/projectmaps/Judge Is Dr 2015-524





# Beaufort County Public Works Stormwater Infrastructure Project Summary

**Project Summary:** Pinewood Circle Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Completion:** Sep-14

Project improved 3,387 L.F. of drainage system. Bush hogged 3,387 L.F. of channel. Cleaned out 600 L.F. of channel.

2015-530 / Pinewood Circle Channel #1	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
EDO / Equipment Drop Off	12.0	\$303.34	\$21.72	\$13.12	\$0.00	\$211.14	\$549.32
HAUL / Hauling	13.0	\$281.19	\$152.15	\$91.84	\$0.00	\$187.46	\$712.64
ODBH / Channel- bushhogged	30.0	\$613.59	\$587.03	\$113.48	\$0.00	\$216.30	\$1,530.39
ODCO / Channel - cleaned out	30.0	\$758.34	\$329.69	\$180.40	\$0.00	\$527.85	\$1,796.28
ONJV / Onsite Job Visit	12.0	\$413.66	\$43.44	\$39.39	\$0.00	\$300.14	\$796.63
<b>2015-530 / Pinewood Circle Channel #1</b>	<b>97.5</b>	<b>\$2,380.34</b>	<b>\$1,134.03</b>	<b>\$438.23</b>	<b>\$0.00</b>	<b>\$1,449.50</b>	<b>\$5,402.10</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>97.5</b>	<b>\$2,380.34</b>	<b>\$1,134.03</b>	<b>\$438.23</b>	<b>\$0.00</b>	<b>\$1,449.50</b>	<b>\$5,402.10</b>

Before



During



After



**Project: Pinewood  
Circle Channel #1  
Map 1**

**Activity: Routine/  
Preventive  
Maintenance**















**Project #:  
2015-530**

**Township: Port  
Royal Island**

**Completed:  
September 2014**

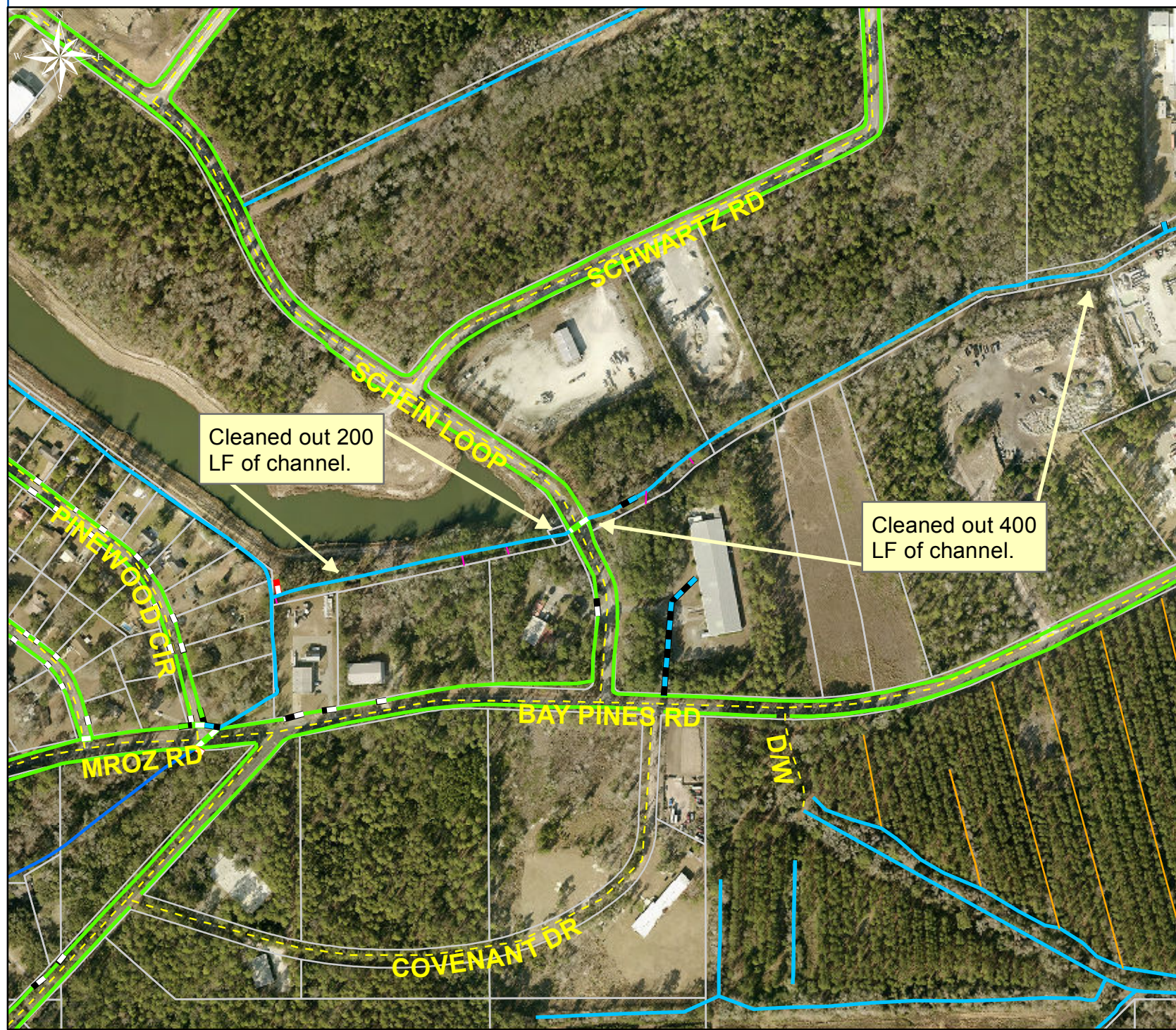
**Legend**

**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 200  
LF of channel.

Cleaned out 400  
LF of channel.



1 inch = 417 feet



**Project: Pinewood  
Circle Channel #1  
Map 2**

**Activity: Bush Hog**

**Project #:  
2015-530**

**Township: Port  
Royal Island**

**Completed:  
September 2014**

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 = 417 feet



# Beaufort County Public Works

## Stormwater Infrastructure

### Project Summary

**Project Summary:** Ladys Island Bush Hog

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Completion:** Oct-14

First rotation from August - October. Project improved 29,796 L.F. of drainage system. Bush hogged 29,796 L.F. of channel.

Project consisted of the following areas: Braeburn Lane (1,710 L.F.), Honeysuckle Lane (1,195 L.F.), Springfield Road (1,141 L.F.), Eustis Landing Road (895 L.F.), Beautyberry Lane (2,322 L.F.), Chowan Creek Bluff (1,045 L.F.), Airport Circle (2,893 L.F.), Old Distant Island (637 L.F.), Christine Place (298 L.F.), Shallowford Downs (182 L.F.), Faculty Drive (690 L.F.), Alumni Road (3,591 L.F.), Brickyard Point Road Ch#2 (601 L.F.), Pleasant Point Drive (1,363 L.F.), Deveaux Road (839 L.F.), Token Lane (873 L.F.), Little Capers Road (442 L.F.), Surf Drive (980 L.F.), Royal Pines Boulevard (1,964 L.F.), Thomas Sumpter Street (2,704 L.F.), Wade Hampton Drive (1,764 L.F.), Jasper Lane (600 L.F.), Francis Marion Circle (329 L.F.), Sheppard Road (311 L.F.) and Holly Hall Road (427 L.F.)

2015-302 / Ladys Island Bush Hog	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
ODBH / Channel- bushhogged	479.0	\$10,183.28	\$4,118.91	\$1,559.50	\$0.00	\$6,738.90	\$22,600.59
ONJV / Onsite Job Visit	33.0	\$1,106.03	\$119.46	\$152.50	\$0.00	\$817.00	\$2,194.99
<b>2015-302 / Ladys Island Bush Hog Sub Total</b>	<b>513.0</b>	<b>\$11,309.77</b>	<b>\$4,238.37</b>	<b>\$1,712.00</b>	<b>\$0.00</b>	<b>\$7,569.13</b>	<b>\$24,829.27</b>
<b>Grand Total</b>	<b>513.0</b>	<b>\$11,309.77</b>	<b>\$4,238.37</b>	<b>\$1,712.00</b>	<b>\$0.00</b>	<b>\$7,569.13</b>	<b>\$24,829.27</b>

Before



During



After





# Beaufort County Public Works

## Stormwater Infrastructure

### Project Summary

**Project Summary:** Shell Point Recreation Park

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Repaired washout. Jetted (1) crossline pipe.

**Completion:** Oct-14

2015-540 / Shell Point Recreation Park	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	4.0	\$89.35	\$44.32	\$17.40	\$0.00	\$59.82	\$210.89
HAUL / Hauling	8.0	\$183.48	\$42.80	\$402.12	\$0.00	\$124.40	\$752.80
ONJV / Onsite Job Visit	5.0	\$149.20	\$18.10	\$3.05	\$0.00	\$91.15	\$261.50
<b>2015-540 / Shell Point Recreation Park Sub Total</b>	<b>17.5</b>	<b>\$432.26</b>	<b>\$105.22</b>	<b>\$422.57</b>	<b>\$0.00</b>	<b>\$281.98</b>	<b>\$1,242.04</b>
<b>Grand Total</b>	<b>17.5</b>	<b>\$432.26</b>	<b>\$105.22</b>	<b>\$422.57</b>	<b>\$0.00</b>	<b>\$281.98</b>	<b>\$1,242.04</b>

Before



During



After



**Project: Shell Point  
Recreation Park  
Map 1**

**Activity: Routine/  
Preventive  
Maintenance**















**Project #:  
2015-540**

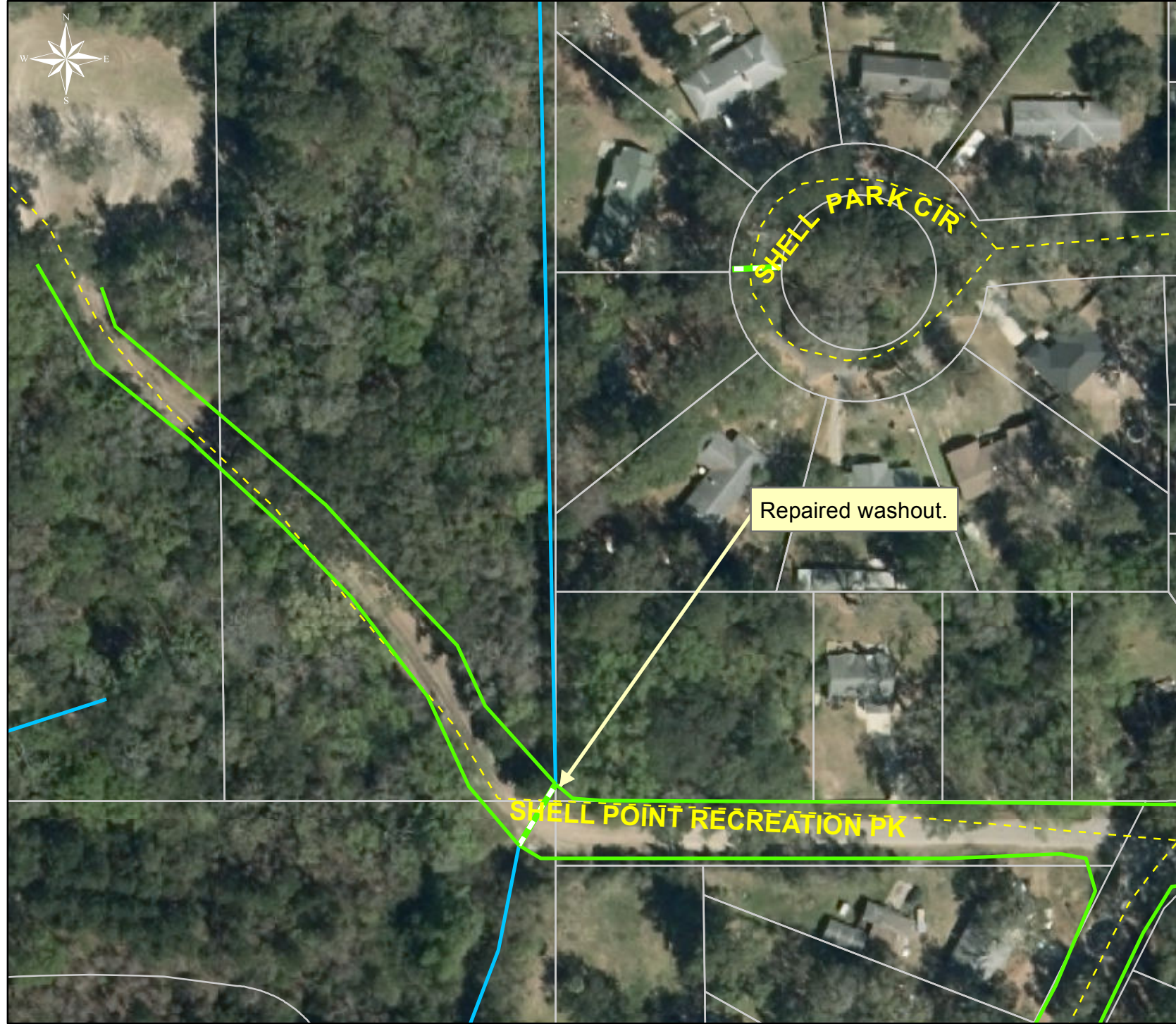
**Township: Port  
Royal Island**

**Completed:  
October 2014**

**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 = 105 feet**

**Project: Shell Point  
Recreation Park  
Map 2**

**Activity: Vacuum  
Truck**















**Project #:  
2015-540**

**Township: Port  
Royal Island**

**Completed:  
October 2014**

**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



Jetted (1)  
crossline pipe.



**1 inch = 105 feet**