



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, April 27, 2016
2:00 p.m.
Executive Conference Room, Administration Building
Beaufort County Government Robert Smalls Complex
100 Ribaut Road, Beaufort, South Carolina
843.255.2805

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 – March 23, 2016 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Utility Update – Eric Larson, P.E. ([backup](#))
 - B. Monitoring Update – Eric Larson, P.E. ([backup](#))
 - C. Stormwater Implementation Committee Report – Eric Larson, P.E. ([backup](#))
 - D. Stormwater Related Projects – Eric Larson, P.E. ([backup](#))
 - E. Upcoming Professional Contracts Report – Eric Larson, P.E. ([backup](#))
 - F. Regional Coordination – Eric Larson, P.E. ([backup](#))
 - G. Municipal Reports – Eric Larson, P.E. ([backup](#))
 - H. MS4 Update – Rebecca Baker ([backup](#))
 - I. Maintenance Projects Report – David Wilhelm ([backup](#))
 - J. Financial Report ([backup](#))
5. UNFINISHED BUSINESS
 - A. Rate Study Final Report/Update on Municipalities
6. NEW BUSINESS
 - A. Fiscal Year 2015 (FY15) Actuals – Carolyn Wallace ([backup](#))
 - B. Fiscal Year 2017 (FY17) Budget– Carolyn Wallace/Eric Larson
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. May 11, 2016 ([backup](#))
9. ADJOURNMENT

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

March 23, 2016 at 2:00 p.m. in Executive Conference Room, Administration Building, Beaufort County Government Robert Smalls Complex, 100 Ribaut Road, Beaufort, South Carolina
Draft Minutes 04/11/2016

Board Members

Present

Allyn Schneider
James Fargher
Marc Feinberg
William Bruggeman
Larry Meisner

Absent

Don Smith
Patrick Mitchell

Ex-Officio Members

Present

Andy Kinghorn
Scott Liggett

Absent

Kim Jones
Van Willis

Beaufort County Staff

Eric Larson
Ezekiel Miller
Rebecca Baker
Patricia Wilson

Visitors

Tony Maglione, Applied Technology & Mgt.
Alan Warren, USCB
Reed Armstrong, Coastal Conservation League
Jill Bolin, Academy Estates
Richard Bolin, Academy Estates
Alice Howard, Beaufort County Council
Paul Moore, Ward Edwards Engineering
Steve Andrews, Andrews Engineering

1. Meeting called to order – Allyn Schneider

- A. Agenda – Approved after adding item B (Alternate 2016 Schedule) to New Business item (6).
- B. February 24, 2016 Minutes - Approved.

2. Introductions – Completed.

3. Public Comment(s) – Mr. Eric Larson prefaced comments from Mr. Richard Bolin (Academy Estates Resident) by updating the board that the Natural Resources Committee (NRC) met and took final action on the Factory Creek Watershed Regional Detention Basin Phase I and Phase II Projects by approving both agreements. This action was taken in response to the developers asking the NRC to reconsider action on both development agreements.

Mr. Bolin passed-out handouts referring to studies that he feels illustrates failure of similar stormsewer systems to reduce bacteria from entering watersheds. He implored the Stormwater Management Utility board to learn from historical data and improve future decisions. Mr. Bolin suggested that Stormwater staff provide preconstruction bacterial sampling prior to site development and post construction bacterial sampling after site completion.

Mr. Larson informed the board that Patrick Mitchell was absent from the meeting because he and his wife had their second baby "Finn" the previous night.

4. Reports – Mr. Eric Larson, Mr. David Wilhelm, and Mrs. Rebecca Baker provided a written report which is included in the posted agenda and can be accessed at:

<http://www.bcgov.net/departments/Administrative/beaufort-county-council/boards-and-commissions/council-appointed/board-list/stormwater-management-utility-board/agendas/2016/032316.pdf>

A. Utility Update – Eric Larson

Utility Rate Study – Mr. Eric Larson said that the municipalities are finalizing their portion of the rate study process and a final report will likely be presented to the Board at the April 2016 meeting.

Credit Manual Update – Mr. Larson said this item would be covered under New Business.

B. Monitoring Update – Eric Larson

USCB and County MOU for the Lab Services – Mr. Larson announced that the MOA has been approved and the revised agreement is being circulated for signatures.

Lab Update – Mr. Larson referenced Dr. Alan Warren’s summary report which highlights how the University is incorporating lab work into student curriculum. Mr. Marc Feinberg requested an update from Dr. Warren on the lab’s certification efforts. Dr. Warren replied by stating that Lab has received about 75% of the 25 requested analyte parameters. Not all 25 parameters are certifiable. The USCB Lab is certified for all the micro biological work and some additional parameters the lab processes. Total Suspended Solids is the next parameter to be certified. State personnel from the Department of Health and Environmental Control (DHEC) should be arriving April 14th to inspect the laboratory and review the lab’s Standard Operating Procedures (SOPs) and other documents. Certifications are renewed on an annual basis upon the lab’s ability to demonstrate proficiency. Examples of non-certifiable parameters include certain types of ammonia and nitrogen that the County requested. Mr. Larry Meisner questioned whether the previously mentioned projects (Factory Creek Watershed Regional Detention Basin Phase I and Phase II) would have pre and post sampling performed and Mr. Larson replied that this type of sampling is becoming Standard Operating Procedures to establish a baseline.

C. Stormwater Implementation Committee (SWIC) Report – Eric Larson

SWIC Meeting March 14, 2016 – Mr. Larson stated that the focus of the meeting was MS4 and setting up subcommittees to focus on certain aspects of the stormwater programs.

D. Stormwater Related Projects – Eric Larson

Okatie West / SC 170 Widening Retrofit Land Purchase – Mr. Larson reported that closing of the land purchase is finally complete. Paul Moore with Ward Edwards Engineering is working on design. Field work and surveying are in process and public meetings are being scheduled as part of the grant requirements.

SC 170 Widening Pond #8 project (Land Acquisition = \$155,694 Budget, Design and Construction = \$630,840) – Closing of the property is complete.

Easements – Staff is developing new internal policies to improve tracking of easement requests and communications with property owners. One-on-one contact is not required, but it helps to educate property owners of the easement need prior to receiving a certified letter.

E. Professional Contracts Report – Eric Larson

Stormwater Management Plan (Master Plan) Update – (\$475,000 Budget; \$239,542 County portion) - ATM is compiling the needed files and GIS data to begin the modeling. They are creating a baseline condition assessment of County watersheds. Public meetings will be held later this spring.

Mint Farm Basin B modification – (\$8,000 Budget) – Andrews Engineering is providing a design for a small project to retrofit a failing Stormwater retention basin.

McTeer Drive Ditch – Staff is soliciting proposals for engineering and surveying to clean a ditch and acquire easements to address a localized flooding issue for multiple parcels served by a private system.

Regional Coordination - Eric Larson

Factory Creek Watershed Regional Detention Basin Phase I and Phase II – Mr. Larson updated the board that the Natural Resources Committee met twice during the month of March and took final action by approving both project agreements.(Also, see Item 3 Public Comments.)

F. Municipal Reports

Town of Hilton Head Island –Mr. Bryan McIlwee submitted a report about the Upper Broad Creek Watershed which is included in the posted agenda.

Town of Bluffton –

May River Watershed Action Plan – No report.

Stoney Creek Project – No report

Pine Ridge Retrofit Project – No report.

City of Beaufort –

Battery Creek Pond Funded by an EPA 319 Grant (\$132,603 Budget) – (Backup) Mr. Larson handed out a memo requesting action from the Natural Resources Committee to increase the County’s portion of this project. Increased construction costs and easement agreement expenses increased the needed budget by \$52,148.40. The NRC passed this requested increase at the March 17th meeting. Mr. Larson said time constraints prevented him from bringing this to the Stormwater Management Utility Board prior to the NRC meeting.

Town of Port Royal Island – The Town is beginning to maintain private systems as needs arise.

G. Municipal Separate Storm Sewer System (MS4 Update) – Rebecca Baker

MS4 Update - Mrs. Rebecca Baker updated the board that the first MS4 Annual Report is due February 2017 and audits will be performed 2 to 3 months after DHEC has received the report.

MS4 Remand Proposed Rule – (Backup) Mrs. Baker and Mr. Larson referred to a letter that Beaufort County submitted to the EPA commenting on the proposed National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) General Permit Remand Rule. One paragraph of the letter stated:

Currently our County has volume control standards based on nearly a decade’s worth of research in which we determined volume reduction is our best means to reduce fecal coliform loading. The method appears to fluctuate from state to state and regarding

TMDL's numeric target for fecal coliform. For this reason, we would like EPA to provide clear and precise standards for a numeric target for fecal coliform.

SWIC Meeting – Mrs. Baker said that the SWIC members have decided to create two subcommittees. A MS4 Committee and a Stormwater Monitoring Committee which will explore sharing outfall inspections, street sweeping, construction inspections, stormwater asset management inventory (videoing storm pipe), inspection of facility management, and monitoring and sampling.

Public Education – Mrs. Baker pointed out a new tab on the Neighbors for Cleanwater website which shows upcoming calendar events to help keep the public informed. She also mentioned the first annual Touch A Truck event scheduled for April 2nd from 11:00 to 2:00 at Tanger Outlets.

BMP Manual – Mrs. Baker said the manual is 70 percent complete and she hopes to have the final product to Mr. Larson soon. Mr. Reed Armstrong asked if municipalities will be accountable to the updated BMP Manual. Mr. Larson stated that other municipalities reference the County BMP Manual and their input is being included. The municipalities may have to update the date of the BMP Manual being referenced.

Stormwater Site Inspections – Mrs. Baker stated that once a development permit is received, stormwater staff uploads the permit into GIS to schedule inspection.

Munis Update - Mrs. Baker said that the stormwater permit data is in the final stage of design and staff hopes to have a test run next month.

Minimum Control Measure 6 (MCM 6) Mr. Scott Liggett questioned how Convenience Drop-off Centers would be affected by MS4 requirements. Council Woman Alice Howard and Mr. Eric Larson referred to a Solid Waste study. Once that study and MS4 Minimum Control Measures have been considered, recommendations will be made concerning each facility.

H. Maintenance Projects Report

Mr. Zeke Miller asked to correct the name of Palmetto Headlands Community to Palmetto Headlands Industrial Park on the maintenance report. Mr. Larson pointed out the Stormwater District Map which includes all projects and the districts. Mr. Larson added that Palmetto Headlands Industrial Park (which is part County and part Town of Hilton Head Island) is a project that illustrates a partnership between the County and the Town. Work on New Orleans Road is also an example of a partnership relationship with the Town. Some projects involve Memorandums of Understanding to complete desired work. Mr. Marc Feinberg questioned why Plantation Business Park was not listed on the project list and Mr. Larson stated the study was used to assess the stormsewer infrastructure condition to discuss whether or not the County should take over maintenance. Mr. Larson also mentioned that County Council will take final action on Monday, March 28th to approve the purchase of a camera to view pipe condition, which should save the County money in the future.

I. Financial Report – (Backup)

The January 2016 Financial report was displayed on the projector. Mr. Larson stated that the County Ordinance only requires an annual financial report and the board voted unanimously (5:0) to switch to quarterly financial reports.

5. Unfinished Business – None.

6. New Business –

Credit Manual Update – (Backup) Mr. Tony Maglione with Applied Technology and Management presented a power point presentation of the draft credit manual update. He presented credit manuals from other counties and discussed proposed changes to the current credit manual. Some of the changes include credits for inundated properties, undevelopable properties and expanding education credits to school facilities that incorporate stormwater curriculum per MS4 standards. Mr. Larry Meisner was told that residents in Property Owners Associations do not get credits, but they benefit from the Property Association receiving credits. Residents who live in condos and apartments have fractional fees based on square footage. Dr. Warren questioned if monitoring credits could be included. Mr. Larson said that revisions could be made up to April 19, 2016. The board voted unanimously (5:0) to recommend the Credit Manual Update to County Council’s Natural Resources Committee. The Ex-officio members voted unanimously (2:0) to recommend the Credit Manual Update to Natural Resources Committee.

Alternate 2016 Stormwater Management Board Meeting Schedule - (Backup) Mr. Larson stated that Natural Resources Committee realigned their schedule to match the Planning Committee Board schedule, so he is recommending switching to the second Wednesday of each month. The board voted unanimously (5:0) to pass the new schedule starting on May 11, 2016.

7. Public Comment(s) – None.

8. Next Meeting Agenda – Included in posted agenda and approved with the next meeting changed to May 11, 2016

9. Meeting Adjourned



COUNTY COUNCIL OF BEAUFORT COUNTY
PURCHASING DEPARTMENT
106 Industrial Village Road, Building 3
Post Office Drawer 1228
Beaufort, South Carolina 29901-1228

TO: Councilman Brian Flewelling, Chairman, Natural Resources Committee

FROM: Dave Thomas, Purchasing Director *DT*

SUBJ: Request to Increase Funding for an Intergovernmental Agreement between the County and the City of Beaufort for the Cross Creek Retrofit, aka Burton Hill M2 Project, a US EPA Clean Water Act Section 319 Grant Funded Project.

DATE: March 17, 2016

BACKGROUND: On September 25, 2013, the County entered into an agreement with the City of Beaufort to cost share in a stormwater project on Old Jericho Road, in the Battery Creek watershed. The City assumed the role as the lead agency and submitted the project for EPA grant funding that same year. The project was awarded \$441,652.80, 60% of the \$736,088.00 project cost. The County and City split the remaining 40% match 50/50, with the County's portion being \$147,217.60.

As the project entered into the design phase in 2014 -2015, a series of project design changes occurred to accommodate the needs to the property owner granting the easement for the project site. At the same time, the local construction industry saw an increase in activity and an improvement in the economy resulting in higher unit prices for services then anticipated in 2013 when the grant was awarded. The result is a need to increase the budget to account for the higher project costs.

On February 26, 2016, the City of Beaufort received three bids for the project. They have recommended the low bidder, Low Coast LLC, in the amount of \$746,769.00. With an original engineering budget of \$81,788.00, part of the \$736,088.00 budget, the increased funding need for construction, including contingency, is \$104,296.80. The County's portion of the increase is \$52,148.40.

DT **FUNDING** Primary Funding - 50250011-51160, Stormwater fees. (\$147, 217.60 Original Budget)

PROPOSED COST: \$52,148.40 increase from 50250011-51160 reserve funding.

FOR ACTION: Natural Resources Committee meeting March 22, 2016.

RECOMMENDATION: The Purchasing Department recommends that the Natural Resources Committee approve to increase funding in the amount of \$52,148.40 for an Intergovernmental Agreement between the County and the City of Beaufort for the Cross Creek retrofit, aka Burton Hill M2 project, a US EPA Clean Water Act Section 319 grant funded project.

ATTACHMENTS:

IGA dated 9/25/13

CC: Gary Kubic, County Administrator *GK*
Joshua Gruber, Deputy County Administrator/Special Counsel *JG*
Alicia Holland, Assistant County Administrator, Finance *AH*
Monica Spells, Assistant County Administrator, Civic Engagement and Outreach
Don Smith, Chairman, Beaufort County Stormwater Board
Eric W. Larson, Division Director for Environmental Engineering *EAL*



BEAUFORT COUNTY STORMWATER UTILITY
120 Shanklin Road
Beaufort, South Carolina 29906
Voice (843) 255-2805 Facsimile (843) 255-9436



March 18, 2016

Greg Schaner
Office of Wastewater Management, Water Permit Division
Environmental Protection Agency
Submitted via <http://www.regulations.gov>

Re: NPDES MS4 General Permit Remand Rule / Docket ID No. EPA-HQ-OW-2015-0671

Dear Mr. Schaner:

I would like to thank you for the opportunity to comment on the proposed National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) General Permit Remand Rule.

Beaufort County is in the first year of the new NPDES Phase II Small Municipal Separate Storm Sewer System (Small MS4) permit. Beaufort County supports the effort of EPA in the proposed "option 1", setting clear and precise goals and objectives for all small Municipal Separate Storm Sewer systems. We welcome comment on our program and have no issue with the procedural approach in "option 2". In fact, South Carolina has recently implemented a similar public notice requirement, advertising our NOI prior to permit issuance last year. However, with the proposed rule change, we encourage the flexibility to allow the local MS4 to recommend BMP's that are specific to their community needs, as outlined in "option 3". An example that we feel supports both sides of the issue is outlined below.

Currently our County has volume control standards based on nearly a decade's worth of research in which we determined volume reduction is our best means to reduce fecal coliform loading. The method appears to fluctuate from state to state and regarding TMDL's numeric target for fecal coliform. For this reason, we would like EPA to provide clear and precise standards for a numeric target for fecal coliform. Listed below are three states methods in which you will see all have different methods.

- CALIFORNIA: The fecal coliform concentration for a minimum of five samples in any 30 day period should not exceed a log mean (i.e. geometric mean) of 200 per 100 ml, or 400 per 100 ml for 10% of total samples.
- FLORIDA: The fecal coliform bacteria shall not exceed a monthly 200 per 100 mL average of 200, nor exceed 400 in 10 percent of the samples, nor exceed 800 mL on any one day.
- SOUTH CAROLINA: Fecal coliforms shall not exceed a geometric mean of 200 cfu/100ml based upon at least five consecutive samples examined during any 30 day period, nor exceed 400cfu/100ml in more than 20 percent of the samples.

Unlike slope, soil conditions, rainfall totals, etc., fecal coliform levels for human health don't change from region to region and a good example of clear and precise language that would be acceptable to us. However, we fully understand that our unique environment allows us to manage volume control in a manner that other regions would find difficult to duplicate; Therefore, we support state to state flexibility.

If you have any questions, please contact me at (843) 255-2805 or elarson@bcgov.net.

Sincerely,

Eric Larson, PE, CPSWQ, AICP, CFM
Director of Environmental Engineering

UNAUDITED AND PRELIMINARY
BEAUFORT COUNTY, SOUTH CAROLINA
STATEMENT OF NET POSITION
Stormwater Utility and Capital Improvement Funds

	Stormwater Utility Fund January 31, 2016	Capital Improvement Fund January 31, 2016
<u>ASSETS</u>		
Current Assets		
Cash and Investments with Trustee	5,181,898	359,802
Receivables, Net	660	-
Inventories	73,741	-
Total Current Assets	<u>5,256,299</u>	<u>359,802</u>
Capital Assets		
Capital Assets	3,067,236	-
Accumulation Depreciation	<u>(2,247,961)</u>	<u>-</u>
Total Assets	<u>819,275</u>	<u>-</u>
	<u>6,075,574</u>	<u>359,802</u>
<u>DEFERRED OUTFLOWS OF RESOURCES</u>		
Contributions to pension plan	126,782	-
Pension experience differences	53,749	-
Total deferred outflows of resources	<u>180,531</u>	<u>-</u>
Total assets and deferred outflows of resources	<u>6,256,105</u>	<u>359,802</u>
<u>LIABILITIES</u>		
Liabilities		
Accounts Payable	49,458	25,745
Accrued Payroll	34,245	-
Accrued Compensated Absences	12,486	-
Total Current Liabilities	<u>96,189</u>	<u>25,745</u>
Long Term Liabilities		
Accrued Compensated Absences	74,919	-
Net Other Postemployment Benefit Obligation	17,770	-
Net Pension Liabilities	1,897,384	-
Total Long Term Liabilities	<u>1,990,073</u>	<u>-</u>
Total Liabilities	<u>2,086,262</u>	<u>25,745</u>
<u>DEFERRED INFLOWS OF RESOURCES</u>		
Net pension change in projected investment earnings	159,919	-
Total deferred inflows of resources	<u>159,919</u>	<u>-</u>
<u>NET POSITION</u>		
Invested in Capital Assets	819,275	-
Reserved for Encumbrances	298,083	107,091
Reserved for Capital Improvements	-	226,966
Unrestricted (Deficit)	<u>2,892,566</u>	<u>-</u>
Total Net Position	<u>4,009,924</u>	<u>334,057</u>
Total Liabilities, deferred inflows and net position	<u>6,256,105</u>	<u>359,802</u>

UNAUDITED AND PRELIMINARY
BEAUFORT COUNTY, SOUTH CAROLINA
STATEMENT OF REVENUES, EXPENSES AND CHANGE NET ASSETS
Stormwater Utility
For the period ending January 31, 2016

	Budget FY 2016	Actual	Budget to Actual	Percent of Budget
Operating Revenues				
Stormwater Utility Fees	\$ 5,058,882	\$ 4,454,744	(604,138)	88%
Countywide Infrastructure	273,351	267,149	(6,202)	98%
Stormwater Utility Project Billings	498,648	176,031	(322,617)	35%
Total Operating Revenues	<u>5,830,881</u>	<u>4,897,925</u>	<u>(932,956)</u>	<u>84%</u>
Operating Expenses				
Personnel	2,563,225	1,326,654	1,236,571	52%
Purchased Services	1,308,162	294,876	1,013,286	23%
Supplies	358,324	150,785	207,539	42%
Capital	611,290	-	611,290	0%
Depreciation	248,481	82,828	165,653	33%
Total Operating Expenses	<u>5,089,482</u>	<u>1,855,143</u>	<u>3,234,339</u>	<u>36%</u>
Operating Income (Loss)	741,399	3,042,782	2,301,383	410%
Non-Operating Revenues (Expenses)				
Interest Earned	2,771	-	(2,771)	100%
Total Non-Operating Revenues (Expenses)	<u>2,771</u>	<u>-</u>	<u>(2,771)</u>	<u>0%</u>
Transfers Out To Capital Improvement Fund	495,908	-	(495,908)	100%
Change in Net Position	248,262	3,042,782		
Net Position, Beginning	<u>967,142</u>	<u>967,142</u>		
Net Position, Ending	<u>\$ 1,215,404</u>	<u>\$ 4,009,924</u>		

UNAUDITED AND PRELIMINARY
BEAUFORT COUNTY, SOUTH CAROLINA
STATEMENT OF REVENUES, EXPENSES AND CHANGE NET ASSETS
Stormwater Utility
For the period ending January 31, 2016

	<u>Budget FY 2016</u>	<u>Actual</u>	<u>Budget to Actual</u>	<u>Percent of Budget</u>
Transfer in From Stormwater Utility Fund				
Administration Complex Parking Lot Retrofit	-	-	-	0%
Okatie East Retrofit	-	-	-	0%
Highway 278 Retrofit	-	-	-	0%
Okatie East Retrofit	-	-	-	0%
Buckingham Plantation Retrofit	400,000	-	(400,000)	0%
Upper Battery Creek Retrofit	95,908	-	(95,908)	0%
Brewer Memorial Park	-	-	-	0%
Total Transfers in	<u>495,908</u>	<u>-</u>	<u>(495,908)</u>	
Capital Improvement Expenses				
Administration Complex Parking Lot Retrofit	-	767	(767)	100%
Okatie East Retrofit	-	1,250	(1,250)	100%
Highway 278 Retrofit	47,590	54,199	(6,609)	114%
Okatie West Retrofit	315,000	-	315,000	0%
Buckingham Plantation Retrofit	400,000	-	400,000	0%
Upper Battery Creek Retrofit	117,604	3,513	114,091	3%
Brewer Memorial Park	9,500	-	9,500	0%
Total Operating Expenses	<u>889,694</u>	<u>59,729</u>	<u>838,591</u>	<u>7%</u>
Change in Net Assets by Project				
Administration Complex Parking Lot Retrofit		(767)		
Okatie East Retrofit		(1,250)		
Highway 278 Retrofit		(54,199)		
Okatie East Retrofit		-		
Buckingham Plantation Retrofit		-		
Upper Battery Creek Retrofit		(3,513)		
Brewer Memorial Park		-		
Total Change in Net Position by Project		<u>(59,729)</u>		
Net Position, Beginning				
Administration Complex Parking Lot Retrofit	24,919	24,919		
Okatie East Retrofit	35,169	35,169		
Highway 278 Retrofit	143,670	143,670		
Okatie East Retrofit	62,285	62,285		
Buckingham Plantation Retrofit	2,500	2,500		
Upper Battery Creek Retrofit	125,243	125,243		
Brewer Memorial Park	-	-		
Total Net Position, Beginning	<u>393,786</u>	<u>393,786</u>		
Net Position, Ending				
Administration Complex Parking Lot Retrofit		24,152		
Okatie East Retrofit		33,919		
Highway 278 Retrofit		89,471		
Okatie East Retrofit		62,285		
Buckingham Plantation Retrofit		2,500		
Upper Battery Creek Retrofit		121,730		
Brewer Memorial Park		-		
Total Net Position, Ending		<u><u>334,057</u></u>		

Stormwater Utility Fee Credit Program Overview

Presentation to SWUB

March 23, 2016

Project Purpose & Program Overview

- ✓ Consideration of existing credits program
- ✓ Rational nexus with new rate structure
- ✓ Accommodate old and new rate structures as simply as possible

Review of Other Programs

Georgetown County

- Similarity: geography, jurisdiction
- Credits: NPDES Industrial, Education, LID, Porous Pavement, Other
- Max Credit: 25-70%
- Eligibility: NSFR
- Application: NPDES permit, engineering plans
- Validity: One year

Horry County

- Similarity: geography, jurisdiction
- Credits: Freshwater wetlands, On-site detention/retention
- Max Credit: No max
- Eligibility: NSFR
- Application: Compliance with technical requirements
- Validity: Not specified

Wilmington, NC

- Similarity: geography
- Credits: Water Quantity, Water Quality, NPDES Industrial
- Max Credit: 40%
- Eligibility: NSFR
- Application: Engineering plans
- Validity: One year

Palm Bay, FL

- Similarity: geography
- Credits: Detention, Retention, Separate System, Rain Barrel, Pervious Pavement
- Max Credit: 100%
- Eligibility: NSFR, SFR
- Application: Survey data, engineering analysis
- Validity: Not specified or one-time

Philadelphia, PA

- Similarity: rate structure
- Credits: Infiltration, Detention, Retention, Volume Reduction, NPDES Industrial
- Max Credit: 90% IA and GA
- Eligibility: NSFR
- Application: Engineering plans or as-builts, permit, application fee
- Validity: Four years

Pasco County, FL

- Similarity: geography
- Credits: SCM, NPDES Industrial, NPDES Phase II MS4, Agricultural BMP
- Max Credit: 25%
- Eligibility: NSFR
- Application: permit, SCM maintenance records and inspection report
- Validity: One year

Jacksonville, FL

- Similarity: geography
- Credits: NPDES Industrial, Permitted Stormwater Pond, Drainage Study, Landlocked System, Non-structural BMPs
- Max Credit: 50%
- Eligibility: NSFR and SFR
- Application: Engineering analysis
- Validity: Indefinite (seeming)

Granville County, NC

- Similarity: jurisdiction, rate structure
- Credits: Structural Control Measures
- Max Credit: 60%
- Eligibility: NSFR or SFR
- Application: compliance with technical standards
- Validity: Five years

Draft Credit Plan for New Rate Structure Jurisdictions

Structural Control Measures

Linked to compliance with existing regulations

Volume Control

MS4 Permit requirements

- ✓ Reference Beaufort County Stormwater BMP guidance document
- ✓ This ties to current treatment of partial impervious area, which is often considered a structural control measure, and matches the percent discount

Credit: Standard at 50% of IA portion of charge

- ✓ Administration:

Perpetual credit applicability until BMP inspection fails

Inundated Properties



- ✓ Properties that are characterized as “marginal water” will not be charged the gross area portion of the stormwater fee
- ✓ Credit: Standard at 100% of GA portion of charge; portions of lots under water would receive credit also
- ✓ Administration:
 - No application
 - Credited in perpetuity

Undevelopable Properties

- ✓ Portions of properties that are undevelopable because they are marshlands or have agreed to an undevelopable status (i.e. through a conservation easement)
- ✓ These are reducing the program's obligation to keep those areas developable
- ✓ Credit: 100% of GA portion of charge for part that is undevelopable
- ✓ Administration:
 - Apply once
 - County will review and maintain a layer of undevelopable properties
 - County will periodically review properties enrolled in this program

Education Credit



- ✓ Credit associated with providing stormwater education as required by the MS4 Public Outreach and Education MCM
- ✓ County costs related to education are part of the fixed portion of the fee, but the benefit of the education will relate more to IA portion of fee
- ✓ Credit: 30% of IA portion of charge
- ✓ Administration:
 - Apply annually
 - Use existing curriculum
 - Provide documentation of curriculum and attendees

Others Considered

- Industrial Individually Permitted properties – similar to current credit, 10% of IA
- Large tracts of vacant land – no
- Separately maintained stormwater systems – no
- Residential BMPs – no
- Non-structural BMP options (pick 6/9 options) – similar to current credit, 25% of IA

Applicability to CWI

- ✓ Any credits granted for impervious or gross area components of a customer's fee will also be applicable to that customer's CWI charge.

Administration

Goals

- ✓ Simple application
- ✓ Clear eligibility
- ✓ Straightforward calculations
- ✓ Minimal burden to customer

Billing Database

PIN	App ID	Related PIN	Credit Type	Credit Percent	Fee Portion	Credit Start Date	Credit End Date	Link to Application	Notes
100-1	1	100-1	Undevelopable	73	GA	3/1/2016	3/1/2019	S:\Stormwater\Credits\100-1	
100-2	2	100-2	Education	30	IA	3/1/2016	3/1/2017	S:\Stormwater\Credits\100-2	
100-3	3	100-3	Inundated	100	GA	3/1/2016	3/1/9999	S:\Stormwater\Credits\100-3	
100-4	4	100-4	SCM	50	IA	3/1/2016	3/1/2019	S:\Stormwater\Credits\100-4	Bioretention cell built 3/13
100-4	4	100-5	SCM	50	IA	3/1/2016	3/1/2019	S:\Stormwater\Credits\100-4	

- New table that is referenced as the final step to fee calculation
- Database form for entry into this table
- Report out expiring credits for County or customer action

Timeline

- ✓ SWIC – last week
- ✓ SWUB – today
- ✓ NRC – April 19th
- ✓ Final Documentation – early May

Alternate 2016 Schedule

SWIC Schedule	Stormwater Management Utility Board Schedule	Time	Location	NRC Schedule
January 20, 2016	January 27, 2016	4th Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Monday, February 01, 2016
February 10, 2016	February 24, 2016	4th Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Monday, March 07, 2016 & Tuesday, March 22, 2016
March 14, 2016	March 23, 2016	4th Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Monday, April 04, 2016
April 20, 2016	April 27, 2016 or April 13, 2016	4th Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Tuesday, April 19, 2016
May 4, 2016	May 11, 2016	2nd Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	May 17, 2016
June 1, 2016	June 8, 2016	2nd Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Tuesday, June 21, 2016
Summer break	Summer break		Summer Break	Summer break
August 3, 2016	August 10, 2016	2nd Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Monday, August 15, 2016
September 7, 2016	September 14, 2016	2nd Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Monday, September 19, 2016
October 5, 2016	October 12, 2016	2nd Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Monday, October 17, 2016
November 2, 2016	November 9, 2016	2nd Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Monday, November 21, 2016
December 7, 2016	December 14, 2016	2nd Wed 2:00PM	Executive Conference Room 170 100 Ribaut Road, Beaufort, SC	Monday, December 19, 2016

Red Font indicates a change from the previously approved schedule.



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April 27, 2016

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Utility Update

1. Annual Tax Run – Staff is still working on one appeal request.
2. Utility Rate Study – The Town of Port Royal and the City of Beaufort have taken final action on their rate studies. Both have adopted Option E, similar to the County. Their reports will be presented during Unfinished Business. The other municipalities are reviewing final drafts of their reports.
3. Credit Manual Update – (\$33,995 budget) Natural Resources Committee recommended approval to the County Council. The resolution was acted upon at the April 25th meeting.
4. Intergovernmental Agreements for SWU – Revisions will be needed but are pending decisions on the rate study by all parties. No action to date.
5. Stormwater Budget for FY 17 / Actuals for FY 16 – The FY 17 will be presented during New Business.
6. Eric attended the Spring SESWA conference in Atlanta. Subject matter was related to emerging trends in stormwater BMPs (Best Management Practices) and Volume Control.
7. Eric spoke to the Beaufort County Senior Leadership Class. The topics included various overviews of the program such as MS4, rate study, and capital projects.



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Monitoring Update

1. USCB and County MOA for the Lab Services – MOU is pending signature by USCB.
2. Lab Update – No information was available at the time of this report.



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April 27, 2016

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Stormwater Implementation Committee (SWIC) Report

1. The SWIC met on April 20, 2016. The focus of the meeting was on a revised public education plan, the rate study, and the FY 17 budget. The next meeting is scheduled for June 1, 2016. [See attached minutes of the April meeting.](#)

DRAFT Minutes

April 20, 2016, 12:00 pm at BJWSA Community Room, Okatie, SC

Attendees:	Eric Larson, Bryan McIllwee, Bates Rambow, Rebecca Baker, Kim Jones, Van Willis, Denise Parsick, Shelby Berry
------------	---

1. 12pm-1pm - Lunch and Learn presented by ADS Pipe.
2. 1pm meeting call to order
3. Approval of March 14, 2016 meeting minutes - approved by common consent.
4. Public Education
 - a. Work plan for remainder of FY 16. - Shelby noted working on Enviroscope Presentations. Presenting at Festivals in April. Billboards are starting to go up. Facebook ads have started.
TO DO - SWIC needs to decide how long to continue the Facebook ads.
 - b. Budget modification for Website development and Mascot development - Quote from media consultant McQueen is \$9,820 to create a new website & \$1,180 for mascot development. County could host the website on our server. Would need to modify the current workplan to fund this new work. The group reviewed the expenses to date and projected expenditures coming up between now and June 30, 2016. Agreement to redirect \$2,000 from survey, \$4,000 from drain markers, \$1,500 from Enviroscope presentations, \$1,750 from rain garden workshop, and \$850 from BCD staff hours.
 - c. N4CW slogan revision - change "river" to "waters". SWIC agreed. Kim says the consultant of the older grant project created the digital product. It was suggested that McQueen (consultant for the website and mascot) to see if they can modify the digital media.
 - d. Subcommittee status - Repts. Selected. Sally Krebs, Beth Lewis, Van Willis, CoB? (assumed, Neil Desai), Rebecca Baker. Rebecca to set up schedule. Committee will elect chairman at first meeting. BSWCD can attend. Invite USCB to future meetings of this sub-committee; Alan Warren had expressed interest.
(Denise and Shelby adjourned.)
 - e. Future of the program - cost share, fairness, management of contract, work plan for FY 2017 from consulting partner. Eric discussed possible agreement with other providers. Eric clarified that the program needs to be evenly shared by all parties and should not weight effort among parties based on funding levels. Eric offered to continue to be managed

by the County and serve as the consulting partner's single point of contact. All agreed.

5. Utility Management Budget Status - County still owes the municipalities the official letter with the management fee for FY 2017. The County hasn't revised the numbers since the presentation given February 11, 2015 via email. Since CoB and ToPR have adopted Option E from the study, there fee will be the \$5.00 per account and will cover all of the proposed cost share agreements except the Masterplan, which is part of FY 2016 funding. For ToB and ToHHI, assuming they choose a Do-Nothing Option (Option A), the fee is based on SFU and cost shares are paid separately. In addition, since the majority of the bodies have chosen Option E, the additional administrative fees would apply to ToB and ToHHI. See the Feb. 11, 2015 PowerPoint presentation for the annual costs.
TO DO - send PPT to Kim.
6. Management Plan Status - ATM is working on data collection and baseline model development. If they have not asked you for your monitoring data, or if you have been asked but not delivered yet, please let Eric know so he can communicate that with ATM. ToB and ToHHI both said they had not been contacted yet. Public meetings planned for June or July.
TO DO - Make sure Joe Mina contacts ToHHI and ToB.
7. Rate Study
 - a. Credit Manual Status - The SWUB and NRC have approved. SWUB vote included municipal SWUB members. Goes to CC next Monday. The municipalities will likely want to take action adopting the new manual by resolution.
TO DO - send package to Muni's for their use.
 - b. Status on County, Towns, & City Rate Studies - The completed municipal reports will be presented at SWUB next week. ATM has been notified of the proposed cost share for FY 2017
 - i. County - Done. Option E.
 - ii. Town of Port Royal - Done. Option E.
 - iii. City of Beaufort - Done. Option E.
 - iv. Town of Bluffton - Draft report in hand. Waiting on action.
 - v. Town of HHI - Draft report in hand. Waiting on action.
8. MS4
 - a. Subcommittee report - Next meeting is May 16th. Invite SCDOT, USCB to future meetings as needed. Sub-committee will decide on meeting frequency.
 - i. Topics should be: Comparing ordinances for consistency, borrowing and sharing tasks and work products, common programs with MOUs

that could yield responsibility to others. Needs to steer away from Pub. Ed. and Monitoring topics since other sub-committees exist.

9. Monitoring

- a. Subcommittee status - Members selected: Beth Lewis, Bates Rambow, Van Willis, CoB? (assumed, Neil Desai), Kevin Pitts. Invite USCB to future meetings. Larson suggested common development of a monitoring plan. ToHHI says they don't need one.

TO DO - County to set first meeting. Committee will elect a chairman.

10. Reports by each jurisdiction

- a. BC - County announced Zeke Miller's retirement and Chad Stanley's appointment.
- b. ToHHI - Their inventory that started in 2010 is almost complete. About 95% complete.
- c. ToB - no report.
- d. CoB - no report.
- e. ToPR - no report.

11. Other items

- a. GIS data sharing - TO DO = Need to set up routine schedule for data swapping.
- b. SWUB meeting next week and reports - Eric and Rebecca invited all municipalities to submit written reports on current activities, etc. Everyone is welcome to present during the meeting as well. Given the lengthy agenda already proposed, Eric suggested presentations wait until the May SWUB meeting.

12. Next Meeting

- a. Revised Schedule - adopted by SWIC members.
- b. Skip May meeting.
- c. Next meeting - June 1, 2016 @ 1:30pm @ BJWSA, 6 Snake Road

13. Adjourned at 2:45pm.



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April 27, 2016

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Stormwater Related Projects

1. US 278 Retrofit Ponds (\$356,000 Budget) - Excavation of the third pond continues. Clearing on the fourth pond is pending due to wet conditions.
2. Turtle Lane Paving on Lady's Island (Stormwater Add-On) (\$8,940 Budget + \$4,964 C.O.) – Easements for the additional pipe are complete. Construction of the pipes are pending.
3. Okatie West / SC 170 Widening Retrofit Land Purchase (Land Acquisition = \$160,415 Budget, Design and Construction = \$915,000 Budget) – Design work is ongoing. The first public meeting is being planned with Sun City.
4. SC 170 Widening Pond #8 project (Land Acquisition = \$155,694 Budget, Design and Construction = \$630,840) – Nothing new to report.
5. Huspah Court South Ditch Easement – Staff continues to negotiate easements with property owners.
6. Extent of Service expansion – Staff committed to this as part of the SWU rate increase. Staff has slowly begun working on a first draft.



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Professional Contracts Report

1. Stormwater Management Plan (Master Plan) Update – (\$475,000 Budget; \$239,542 County portion) – Work continues. Nothing new to report.
2. Mint Farm Basin B modification – (\$8,000 Budget) – Work continues. Nothing new to report.
3. McTeer Drive Ditch – (\$12,225 Budget) – The County selected 4 Waters Engineering for engineering and surveying services to clean a ditch and acquire easements to address a localized flooding issue for multiple parcels served by a private system.



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April 27, 2016

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Regional Coordination

1. Buckingham Plantation Drive Innovation District Conceptual Design Study (\$25,000 Budget – SWU Portion) – No update to report.
2. Factory Creek Watershed Regional Detention Basin & Academy Park Subdivision (cost is pending) – The County is waiting on the Developer to sign the approved agreement.
3. Factory Creek Watershed Regional Detention Basin “Phase II” (cost is pending) - The County is waiting on the Developer to sign the approved agreement.



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Municipal Reports

1. Town of Hilton Head Island (From Bryan McIlwee, Asst. Town Engineer for Stormwater)
 - i. No information was available at the time of this report.
2. Town of Bluffton (From Kim Jones, Stormwater Manager)
 - i. May River Watershed Action Plan – No information was available at the time of this report.
 - ii. Stoney Creek Project – No information was available at the time of this report.
 - iii. Pine Ridge Retrofit Project – No information was available at the time of this report.
 - iv. County staff attended the Town's quarterly May River Watershed Action Plan.
3. City of Beaufort (From Neil Desai, Asst. Public Works Director)
 - i. Battery Creek Pond Funded by an EPA 319 Grant (\$132,609 Budget – County Portion) – A Pre-Con meeting was held. Construction is scheduled to start in June. The City is requesting a grant extension based on the contractor's schedule.
 - ii. City of Beaufort and SCDOT Partnership Projects – Hamar St. project agreement has been reached with the City, County, and SCDOT. Construction will begin as soon as possible.
 - iii. No further information was available at the time of this report.
4. Town of Port Royal (From Van Willis, Town Manager)
 - i. No information was available at the time of this report.



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April 27, 2016

Stormwater Manager's Report for the Stormwater Utility Board Meeting

MS4 Update

1. MS4 Annual Report –

1. The attached stormwater survey was developed by all of the Municipalities in Beaufort County which is required as part of our annual report. The survey will help determine a target audience and the needs of the community. Survey is scheduled to be advertised in May. ([backup](#))
2. Beaufort County staff attended the MS4 group meeting in Charleston. The meeting was very informative on what the various municipalities are reporting for the 2016 annual report. A few of the topics were Public Education and tracking construction inspection.

2. Public Education - See list of events below that we attended in various areas of the County.

1. April 2nd - Bluffton - Touch a Truck. We ordered kid hard hats & construction cones stress balls, and materials for the kid obstacle course. We had enviroscape and other giveaways. (300 People)



2. April 16th - Beaufort County - Hunting Island Beach Sweep
3. April 16th - Port Royal - Soft Shell Crab Fest (5000 People)
4. April 23rd - Bluffton - May River Sweep (300 volunteers)
5. April 23rd - Port Royal - Earth Day - Farmers Market (300 People)
6. May TBD - Beaufort County - Lowcountry Montessori School - Touch a Truck
7. June 25th - Beaufort County - World Oceans Day - Port Royal Sound Foundation is hosting this event in their Okatie location with Neighbors for Clean Water.

3. Monitoring - Hilton Head, Bluffton and Beaufort County would like to request DHEC to approve a standard operating procedures for sampling criteria of fecal. Sampling method will be discussed and developed at the next monitoring subcommittee meeting.
4. SWIC Meeting - Along with sharing various areas of the MS4 program we would also like to have the other municipalities provide and update on their program. Future reports will include noteworthy items from them.
5. Plan Review – 22 projects were brought before the SRT committee for their review for March and April. Two of the larger projects were Parkers at Hwy 170 and St. Gregory Church Road and Parking lot improvements off of Hwy 278.

Stormwater Awareness Survey

Stormwater Survey Educational Program

Please respond to this survey if you live within Beaufort County, South Carolina limits. This survey ends July 1, 2016.

Thank you for taking the time to fill out this brief survey. There are 15 questions and your opinion will greatly assist your local area within Beaufort County, Bluffton, City of Beaufort, Hilton Head Island and Port Royal to create and implement the Stormwater Management outreach program. Listed below is background information before you begin the survey:

- 1. When it rains the stormwater natural drainage system drains into the soil unless there is an impervious surface it falls on before hits the ground such as: rooftops, driveways, patios, parking lots, etc. These impervious surfaces can increase the flow of the stormwater and possibly carry pollutants to your waterways.**
- 2. These pollutants could possibly affect water quality, limit recreational uses of water bodies and affect human health.**
- 3. Wetlands, marshes, swamps and forests are examples of natural systems that help filter pollutants from stormwater.**
- 4. This survey will assist in determining the future stormwater needs and concerns of our community.**

1. Which area of Beaufort County do you live in?

- Port Royal
- City of Beaufort
- Unincorporated Beaufort County
- Hilton Head Island
- Bluffton
- None of the Above

2. What type of community do you live in?

- Apartment/Condo Complex
- Home / Mobile Home
- Gated Community
- Subdivision
- Rural Area
- Other (please specify)

3. Which do you think is the worst stormwater related problem in your community?

- Water Quantity (flooding)
- Water Quality (pollutants)
- Both
- Neither
- Other (please specify)

4. Where do you think stormwater runoff goes after it enters the storm drain? (Select all that apply).

- Sewage treatment plant
- Nearby rivers, streams and waterways
- Nearby yards and fields
- Other (please specify)

5. Which of the following do you feel causes or contributes to stormwater pollution? Check all that apply.

- Agriculture operations
- Septic Tanks
- Residential development
- Commercial development
- Industrial activities
- Construction runoff
- Feeding the wildlife
- Boating
- Golf Courses
- Landscape Fertilizers
- Stormwater Ponds
- Lack of Forested areas
- Lack of vegetated buffers around waterways
- All of the above.
- None of the above
- Other (please specify)

6. Please select the top three items that you believe can effect your waterways?

- Pet Waste
- Septic Tanks
- Fertilizers
- Trash/Liter/Illegal Dumping
- Car Washing (soap and wax)
- Oil, Solvents
- Water Temperature
- Freshwater runoff
- Restaurant waste (oil, trash, grease)
- Leaves, grass clippings
- Other (please specify)

7. How do you dispose of unwanted paint, oil?

- Pour down the sink?
- Dispose of in the toilet?
- Pour down the storm drain?
- Place in the household trash pick up?
- Deliver to the County Convenience drop off center?
- County Wide Great American Clean up?
- All of the above?
- None of the above?
- Other (please specify)

8. Do you think pet waste left on the ground causes pollution in any of these areas? (Select all that apply).

- Waterways
- Potable water supply
- Groundwater
- Oyster beds
- All of the above
- None of the above
- Other (please specify)

9. What time of year do you fertilize your lawn? (Select all that apply).

- Winter
- Spring
- Summer
- Fall
- All of the above

Other (please specify)

10. Do you practice any of the following water conservation methods? (Select all that apply).

- Have a rain barrel attached to downspout?
- Have a low flow showerhead?
- Have installed a rain garden?
- Have installed pervious pavement?
- Irrigate with reclaimed water?
- All of the above?
- None of the above?
- Other (please specify)

11. In the past 12 months have you seen advertising about protecting your waterways from pollutants?

- Yes
- No

12. If so, where have you seen advertising information? (Select all that apply)

- TV
- Internet
- Newspaper
- Radio
- Church/Social Club
- Festival
- Schools
- Work
- POA Newsletter
- Library
- Business Organization
- Neighbors For Clean Water
- Social Media (Facebook)
- All of the above
- None of the above
- Other (please specify)

13. How did you hear about this survey? (Select all that apply).

- TV
- Internet
- Radio
- Newspaper
- Church/Social Club
- Festival
- Business Organization
- School
- POA Newsletter
- Library
- Work
- Neighbors for Clean Water
- Social Media (Facebook)
- All of the above
- None of the above
- Other (please specify)

14. Where are you and your family most likely to learn about water quality and stormwater runoff? (Select all that apply).

- School
- Work
- Church/Social Club
- Radio
- Newspaper
- TV
- Internet
- Radio
- POA newsletter
- Festivals
- Business organization
- Social Media (Facebook)
- All of the above
- Non of the above
- Other (please specify)

15. Who do you feel needs stormwater education in your area? (Select all that apply).

- Schools
- Golf Courses
- HOA's / POA's
- Landscape Companies
- Construction Companies
- Septic Tank Owners
- Pet Owners
- Other (please specify)



MEMORANDUM

Date: April 27, 2016

To: Stormwater Management Utility Board

From: David Wilhelm, Public Works Director

Re: **Maintenance Project Report**

This report will cover two major and eight minor or routine projects. The Project Summary Reports are attached. ([Stormwater Summary Map by District](#))

Major Projects – Storm Drainage System Improvements:

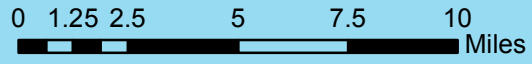
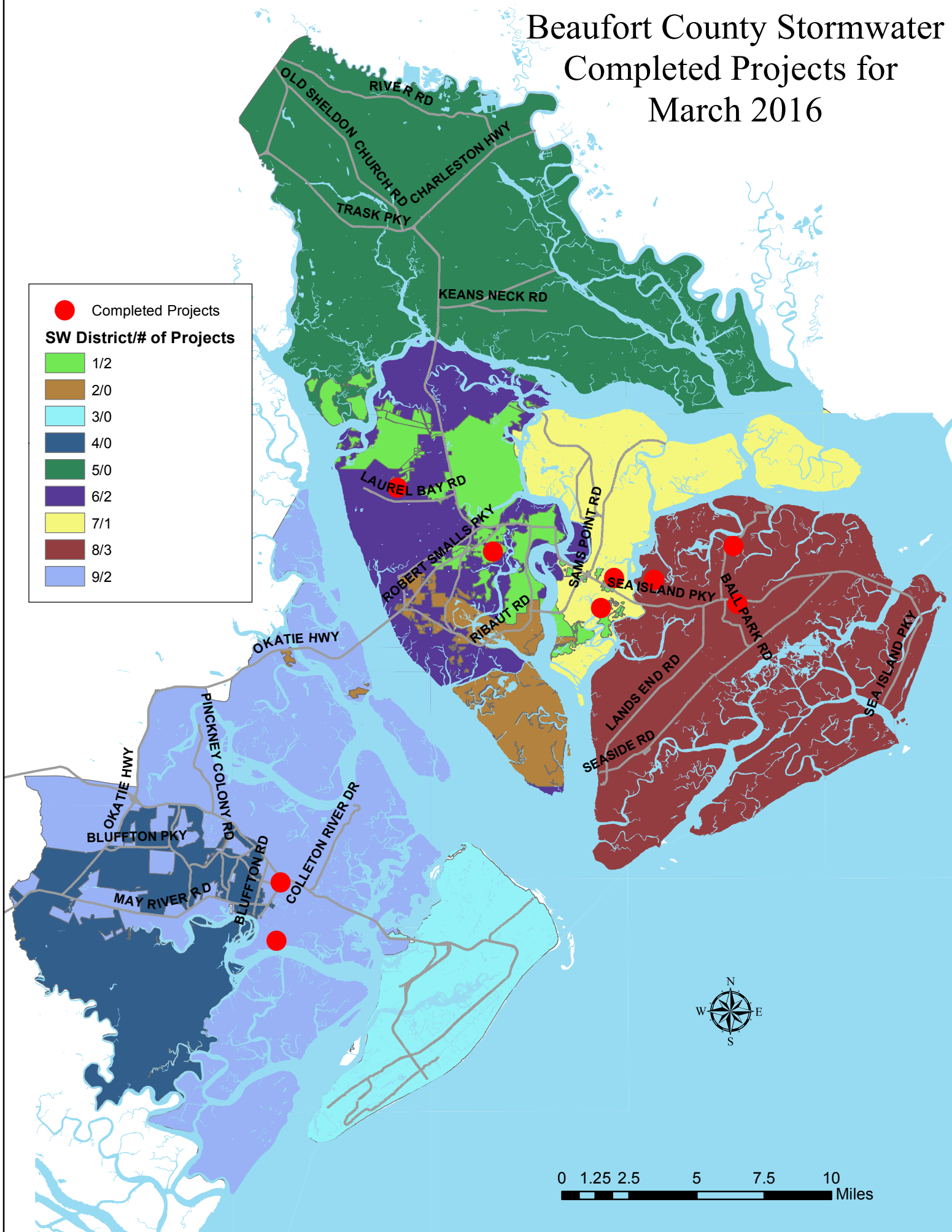
- **Lady's Island Airport – Stormwater Utility District (SWUD) 1:** This project consisted of improving 1,380 feet of drainage channel through open fields at Lady's Island Airport. Other work included bush hogging the channel, installing an access pipe, placing rip rap, and hydroseeding. Work began August 20, 2015 and was completed October 21, 2015. The total cost of the project was **\$23,284.96.**
- **Gardner Drive – SWUD 8:** This project repaired a failed crossline pipe on St. Helena Island. Items of work included jet cleaning various pipes, excavating and backfilling the failed area, patching the roadway, and placing rip rap. Work began February 8, 2016 and was completed February 18, 2016. The total cost of the project was **\$16,401.28.**

Minor or Routine Projects:

- **Lady's Island Bush Hog Clearing** – An extensive amount of bush hogging work was completed on Lady's Island from February 3, 2016 through March 21, 2016. Over 5 miles (28,251 ft.) of channel was cleared. The total cost was **\$21,338.31.**
- **Sailors Choice – SWUD 9:** Project scope included cleaning out nine catch basins, installing one new catch basin, building a roadside flume, and installing sod. The total cost was **\$11,887.93.**
- **Mary Jenkins Circle/Pineland Avenue – SWUD 8:** Work included for this project included cleaning 5,137 feet of valley drain, 3,007 feet of roadside ditch, and jet cleaning crossline and driveway pipes. The total cost was **\$9,227.38.**
- **Lost Island Road – SWUD 7:** This project on Lady's Island improved 3,994 feet of drainage system. The scope included cleaning out 3,720 feet of valley drain, 820 feet of roadside ditch, jet cleaning various pipes, and placing rip rap. The total cost was **\$9,077.01.**
- **Ann Smith Drive – SWUD 9:** This project consisted of repairing a sinkhole on a paved road in Bluffton. The total cost was **\$6,443.28.**

- **Ball Park Road/Village Creek Channel – SWUD 8:** Work included bush hogging 1,643 feet of workshelf and removing blockage from the flowline in the drainage channel. The total cost was **\$2,238.46.**
- **Pinewood Circle – SWUD 6:** Our crew responded to a complaint regarding a sinkhole on Pinewood Circle. They dug around the sinkhole to determine the cause of the problem. The sinkhole was the result of an issue with a BJWSA line. BJWSA was contacted to perform the necessary repair work. The total cost of the inspection and evaluation was **\$737.92.**
- **Salem Road – SWUD 1 and 6:** This project included removing blockage in the channel by hand and jet cleaning one pipe. The total cost was **\$675.29.**

Beaufort County Stormwater Completed Projects for March 2016





Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Ladys Island Airport

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Duration: 8/20/15 - 10/21/15

Project irmpoved 1,380 L.F. of drainage system. Bush hogged 1,145 L.F. of channel. Cleaned out 1,380 L.F. of channel. Installed (1) access pipe, rip rap and hydroseeded for erosion control.

2016-530 / Ladys Island Airport	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APRPL / Access pipe - replaced	24.0	\$560.00	\$79.86	\$301.54	\$0.00	\$346.80	\$1,288.20
AUDIT / Audit Project	1.0	\$23.49	\$0.00	\$0.00	\$0.00	\$13.23	\$36.72
CBH / Channel- bushhogged	60.0	\$1,372.95	\$472.28	\$95.58	\$0.00	\$891.00	\$2,831.81
CCO / Channel - cleaned out	109.0	\$2,446.97	\$621.92	\$126.99	\$0.00	\$1,575.93	\$4,771.81
CLJS / Cleaned up jobsite	3.0	\$92.25	\$10.62	\$1.72	\$0.00	\$54.69	\$159.28
CLPJT / Crossline Pipe - Jetted	6.0	\$137.30	\$26.04	\$29.08	\$0.00	\$89.10	\$281.52
DEBREM / Debris Removal - Jobsite	24.0	\$553.18	\$64.26	\$52.31	\$0.00	\$343.14	\$1,012.89
HAUL / Hauling	93.0	\$2,095.41	\$743.07	\$549.54	\$0.00	\$1,361.56	\$4,749.58
HYDR / Hydroseeding	14.0	\$296.66	\$49.66	\$239.74	\$0.00	\$186.69	\$772.75
LM / Loading Materials	46.0	\$1,026.92	\$100.24	\$62.99	\$0.00	\$645.96	\$1,836.11
LP / Locate Pipe	3.8	\$85.35	\$17.36	\$12.67	\$0.00	\$55.28	\$170.67
ONJV / Onsite Job Visit	44.0	\$1,493.01	\$150.77	\$63.64	\$0.00	\$1,011.68	\$2,719.09
PP / Project Preparation	15.0	\$340.20	\$17.70	\$8.60	\$0.00	\$219.75	\$586.25
SG / Shoot Grade	22.0	\$522.93	\$42.48	\$22.63	\$0.00	\$332.04	\$920.08
TC / Traffic Control - Jobsite	27.5	\$633.27	\$70.04	\$33.14	\$0.00	\$411.77	\$1,148.22
2016-530 / Ladys Island Airport Sub Total	492.3	\$11,679.88	\$2,466.30	\$1,600.16	\$0.00	\$7,538.62	\$23,284.96
Grand Total	492.3	\$11,679.88	\$2,466.30	\$1,600.16	\$0.00	\$7,538.62	\$23,284.96

Before



During



After





Bush hogged and cleaned out 345 LF of channel. Installed (1) access pipe, rip rap and hydroseeded for erosion control.

Bush hogged and cleaned out 800 LF of channel.

Cleaned out 235 LF of channel. Hydroseeded for erosion control.

Project: Ladys Island Airport

Activity: Routine/ Preventive Maintenance

Project #: 2016-530

Township/SW Dist: Ladys Island/1

Completed: October 2015

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 320 feet



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Gardner Drive

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Repaired (1) crossline pipe. Jetted (1) crossline pipe, (1) access pipe and (1) driveway pipe.
Installed rip rap for erosion control.

Duration: 2/8/16 - 2/18/16

2016-591 / Gardner Drive	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CLPJT / Crossline Pipe - Jetted	10.0	\$247.00	\$86.80	\$36.45	\$0.00	\$164.70	\$534.95
CPREP / Crossline Pipe - Repaired	70.0	\$1,542.60	\$104.06	\$924.19	\$0.00	\$964.40	\$3,535.25
HAUL / Hauling	46.0	\$1,053.73	\$367.54	\$2,076.06	\$0.00	\$687.86	\$4,185.19
ONJV / Onsite Job Visit	27.0	\$925.12	\$95.74	\$30.40	\$0.00	\$642.23	\$1,693.49
PI / Project Inspection	2.0	\$91.20	\$7.24	\$3.04	\$0.00	\$67.92	\$169.40
PP / Project Preparation	12.0	\$267.40	\$14.16	\$5.72	\$0.00	\$164.20	\$451.48
PRRECON / Project Reconnaissance	25.0	\$563.00	\$131.62	\$23.60	\$0.00	\$363.15	\$1,081.36
RRI / Rip Rap - Installed	48.5	\$1,121.63	\$180.30	\$150.28	\$0.00	\$710.34	\$2,162.55
SD / Soft Digging	60.0	\$1,384.13	\$147.12	\$55.77	\$0.00	\$883.70	\$2,470.72
SVCREQ / Service Request	1.0	\$45.60	\$0.00	\$0.00	\$0.00	\$33.96	\$79.56
UTLOC / Utility locates	0.5	\$12.35	\$0.00	\$0.00	\$0.00	\$6.62	\$18.97
2016-591 / Gardner Drive Sub Total	302.5	\$7,265.51	\$1,134.58	\$3,305.50	\$0.00	\$4,695.69	\$16,401.28
 Grand Total	302.5	\$7,265.51	\$1,134.58	\$3,305.50	\$0.00	\$4,695.69	\$16,401.28

Before



During



After





Repaired (1) crossline pipe. Jetted (1) crossline pipe, (1) access pipe and (1) driveway pipe. Installed rip rap for erosion control.

Project: Gardner Drive

Activity: Routine/ Preventive Maintenance

Project #: 2016-591

Township/SW Dist: St. Helena Island/8

Completed: February 2016

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 100 feet



Beaufort County Public Works Stormwater Infrastructure Project Summary

Project Summary: Ladys Island Bush Hog

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Duration: 2/3/16 - 3/21/16

Second rotation from February 2016 to March 2016. Project improved 28,251 L.F. of drainage system.

Bush hogged 28,251 L.F. of channel. This project consisted of the following areas: Eustis Landing Road (819 L.F.), Beautyberry Lane (1,700 L.F.), Chowan Creek Bluff (1,044 L.F.), Old Distant Island Road (634 L.F.), Lady's Island Airport (2,943 L.F.), Faculty Drive (1,171 L.F.), Alumni Road (3,376 L.F.), Little Capers Road (828 L.F.), Sheppard Road (302 L.F.), Honeysuckle Lane (772 L.F.), Token Lane (1,086 L.F.), Lucy Creek Drive (160 L.F.), Braeburn Lane (1,132 L.F.), Shallowford Downs (340 L.F.), Royal Pines Boulevard (1,488 L.F.), Red Tip Road (440 L.F.), Pine Run Trail (325 L.F.), Wade Hampton Drive (1,314 L.F.), Pickens Street (588 L.F.), Thomas Sumpter Street (3,000 L.F.), Francis Marion Circle (505 L.F.), Jasper Lane (595 L.F.), Sams Point Road (272 L.F.), Brickyard Point Road (1,000 L.F.), Pleasant Point Drive (1,363 L.F.), and Deveaux Road (1,054 L.F.)

2016-302A / Ladys Island Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contracto Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$35.24	\$0.00	\$0.00	\$0.00	\$19.85	\$55.08
CBH / Channel- bushhogged	432.0	\$9,595.94	\$3,361.50	\$525.22	\$0.00	\$6,174.38	\$19,657.04
ONJV / Onsite Job Visit	25.0	\$854.50	\$88.50	\$71.44	\$0.00	\$611.75	\$1,626.19
2016-302A / Ladys Island Bush Hog	458.5	\$10,485.68	\$3,450.00	\$596.66	\$0.00	\$6,805.97	\$21,338.31
Sub Total							
Grand Total	458.5	\$10,485.68	\$3,450.00	\$596.66	\$0.00	\$6,805.97	\$21,338.31

Before



During



After





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

Project Summary: Sailors Choice

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Cleaned out (9) catch basins. Installed (1) catch basin. Constructed a flume for roadside runoff. Installed sod for erosion control.

Duration: 2/22/16 - 3/30/16

2016-559 / Sailors Choice	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
BKFILL / Back Fill	20.0	\$474.85	\$17.70	\$7.44	\$0.00	\$300.15	\$800.14
CBCO / Catch basin - clean out	32.0	\$732.16	\$138.88	\$38.90	\$0.00	\$475.20	\$1,385.13
CBINS / Catch basin - installed	60.0	\$1,368.40	\$168.02	\$458.99	\$0.00	\$863.65	\$2,859.06
FC / Flume - Constructed	18.0	\$417.84	\$21.24	\$14.75	\$0.00	\$265.50	\$719.33
HAUL / Hauling	56.0	\$1,247.20	\$447.44	\$1,213.99	\$0.00	\$807.52	\$3,716.15
ONJV / Onsite Job Visit	21.0	\$645.75	\$74.34	\$22.80	\$0.00	\$382.83	\$1,125.72
SI / Sod - Installation	30.0	\$659.95	\$157.15	\$17.88	\$0.00	\$410.10	\$1,245.07
UTLOC / Utility locates	0.5	\$12.35	\$0.00	\$0.00	\$0.00	\$6.62	\$18.97
2016-559 / Sailors Choice Sub Total	238.0	\$5,570.25	\$1,024.77	\$1,774.73	\$0.00	\$3,518.18	\$11,887.93
Grand Total	238.0	\$5,570.25	\$1,024.77	\$1,774.73	\$0.00	\$3,518.18	\$11,887.93

Before



During



After



Project: Sailors Choice

Activity: Routine/
Preventive
Maintenance

Project #:
2016-559

Township/SW Dist:
Bluffton/9

Completed:
March 2016



Legend

Drainage Type

- Access Pipe
- Bleeder Pipe
- Channel Pipe
- Channel
- Stream
- Crossline Pipe
- Driveway Pipe
- Lateral
- Lateral Pipe
- River
- Road Pipe
- Roadside
- Roadside Pipe

Cleaned out (3) catch basins.

Cleaned out (5) catch basins.

Cleaned out (1) catch basin.

Installed (1) catch basin. Constructed a flume for roadside runoff. Installed sod for erosion control.



1 inch = 67 feet



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Mary Jenkins Circle/Pineland Avenue

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Duration: 1/11/16 - 1/27/16

Project improved 5,137 L.F. of drainage system. Cleaned out 5,137 L.F. of valley drain and 3,007 L.F. of roadside ditch. Jetted (2) crossline pipes and (11) driveway pipes.

2015-575 / Mary Jenkins Circle/Pineland Ave

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
COVD / Cleaned Out Valley Drains	20.0	\$409.20	\$126.80	\$36.18	\$0.00	\$254.40	\$826.58
DPJT / Driveway Pipe - Jetted	19.0	\$432.90	\$78.12	\$42.88	\$0.00	\$280.53	\$834.43
HAUL / Hauling	44.0	\$979.88	\$351.56	\$105.82	\$0.00	\$634.48	\$2,071.74
ONJV / Onsite Job Visit	6.0	\$205.08	\$21.24	\$19.76	\$0.00	\$146.82	\$392.90
RSDCL / Roadside Ditch - Cleanout	120.0	\$2,789.85	\$474.20	\$74.75	\$0.00	\$1,725.60	\$5,064.40
UTLOC / Utility locates	0.5	\$12.35	\$0.00	\$0.00	\$0.00	\$6.62	\$18.97
2015-575 / Mary Jenkins Circle/Pineland Ave Sub Total	210.0	\$4,841.01	\$1,051.92	\$279.39	\$0.00	\$3,055.06	\$9,227.38
 Grand Total	210.0	\$4,841.01	\$1,051.92	\$279.39	\$0.00	\$3,055.06	\$9,227.38

Before



After





Project: Mary Jenkins Circle/
Pineland Avenue
Map 1

Activity: Routine/
Preventive
Maintenance














Project #:
2015-575

Township/SW Dist:
St. Helena Island/8

Completed:
January 2016

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

0 80 160 320 480 640
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/10/16

File:C:\project summaries map\Mary Jenkins Circle-Pineland Avenue Map1_2015-575



Project: Mary Jenkins Circle/
Pineland Avenue
Map 2

Activity: Routine/
Preventive
Maintenance














Project #:
2015-575

Township/SW Dist:
St. Helena Island/8

Completed:
January 2016

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe



1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 3/10/16

File:C:\project summaries map\Mary Jenkins Circle-Pineland Avenue Map2_2015-575



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

Project Summary: Lost Island Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Duration: 12/2/15 - 2/11/16

Project improved 3,994 L.F. of drainage system. Cleaned out 3,720 L.F. of valley drain and 820 L.F. of roadside ditch. Jetted (1) crossline pipe, (11) driveway pipes and 274 L.F. of roadside pipe. Installed rip rap for erosion control.

2016-537 / Lost Island Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CLPJT / Crossline Pipe - Jetted	20.0	\$457.60	\$86.80	\$52.88	\$0.00	\$297.00	\$894.28
COVD / Cleaned Out Valley Drains	49.0	\$1,081.99	\$113.20	\$28.60	\$0.00	\$669.33	\$1,893.12
HAUL / Hauling	30.0	\$692.40	\$239.70	\$446.91	\$0.00	\$453.10	\$1,832.11
ONJV / Onsite Job Visit	17.0	\$570.77	\$60.18	\$30.40	\$0.00	\$397.27	\$1,058.62
PI / Project Inspection	2.0	\$40.92	\$3.54	\$2.86	\$0.00	\$25.44	\$72.76
PRRECON / Project Reconnaissance	2.0	\$64.93	\$3.54	\$3.04	\$0.00	\$42.70	\$114.21
RSDCL / Roadside Ditch - Cleanout	80.0	\$1,755.90	\$255.87	\$68.34	\$0.00	\$1,075.50	\$3,155.61
UTLOC / Utility locates	1.0	\$24.70	\$0.00	\$0.00	\$0.00	\$13.23	\$37.93
2016-537 / Lost Island Road Sub Total	201.5	\$4,700.96	\$762.83	\$633.04	\$0.00	\$2,980.19	\$9,077.01
Grand Total	201.5	\$4,700.96	\$762.83	\$633.04	\$0.00	\$2,980.19	\$9,077.01

Before



During



After



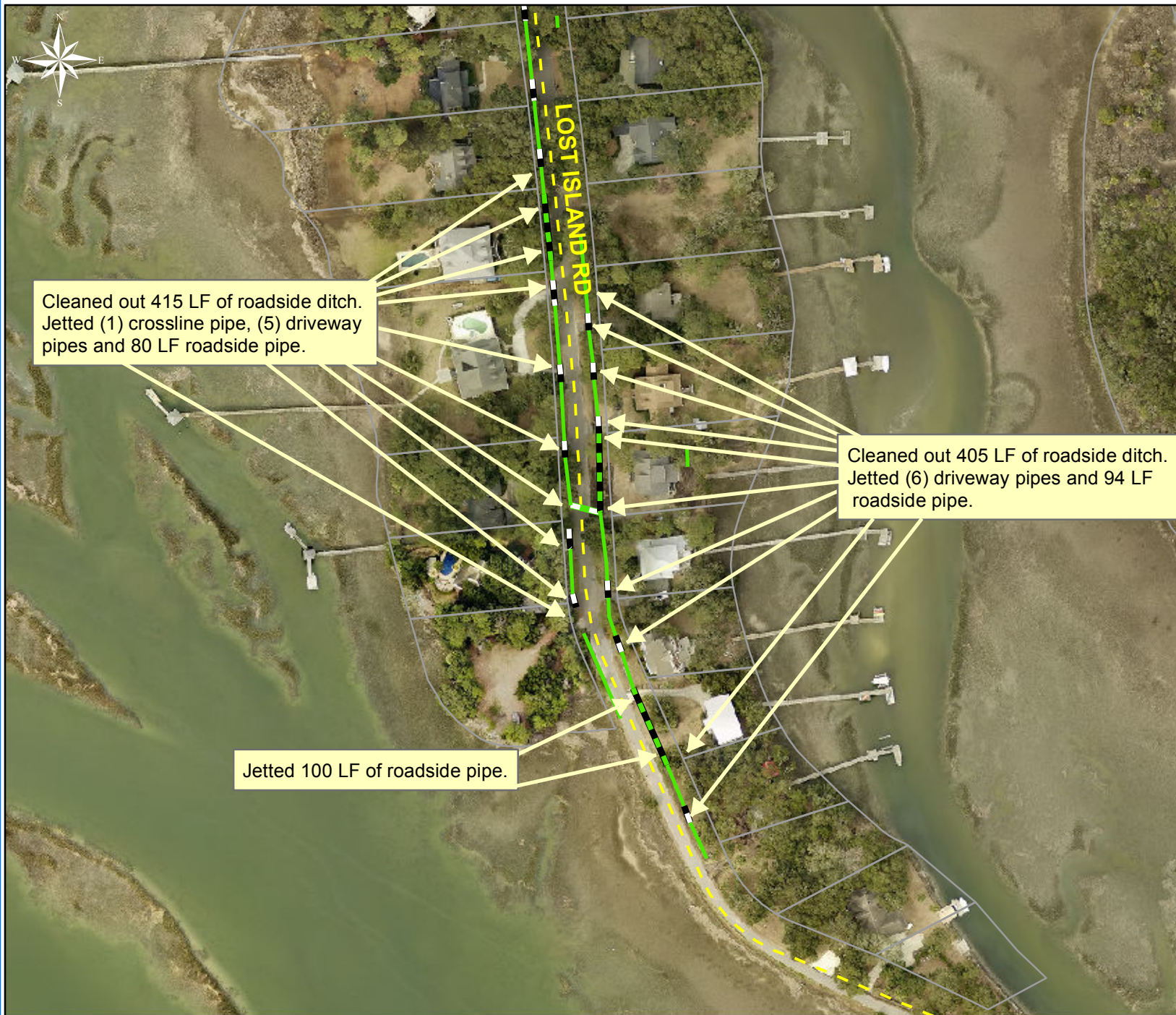
Project: Lost Island
Map 1

Activity: Routine/
Preventive
Maintenance

Project #:
2016-537














Township/SW Dist:
Ladys Island/7

Completed:
February 2016



Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

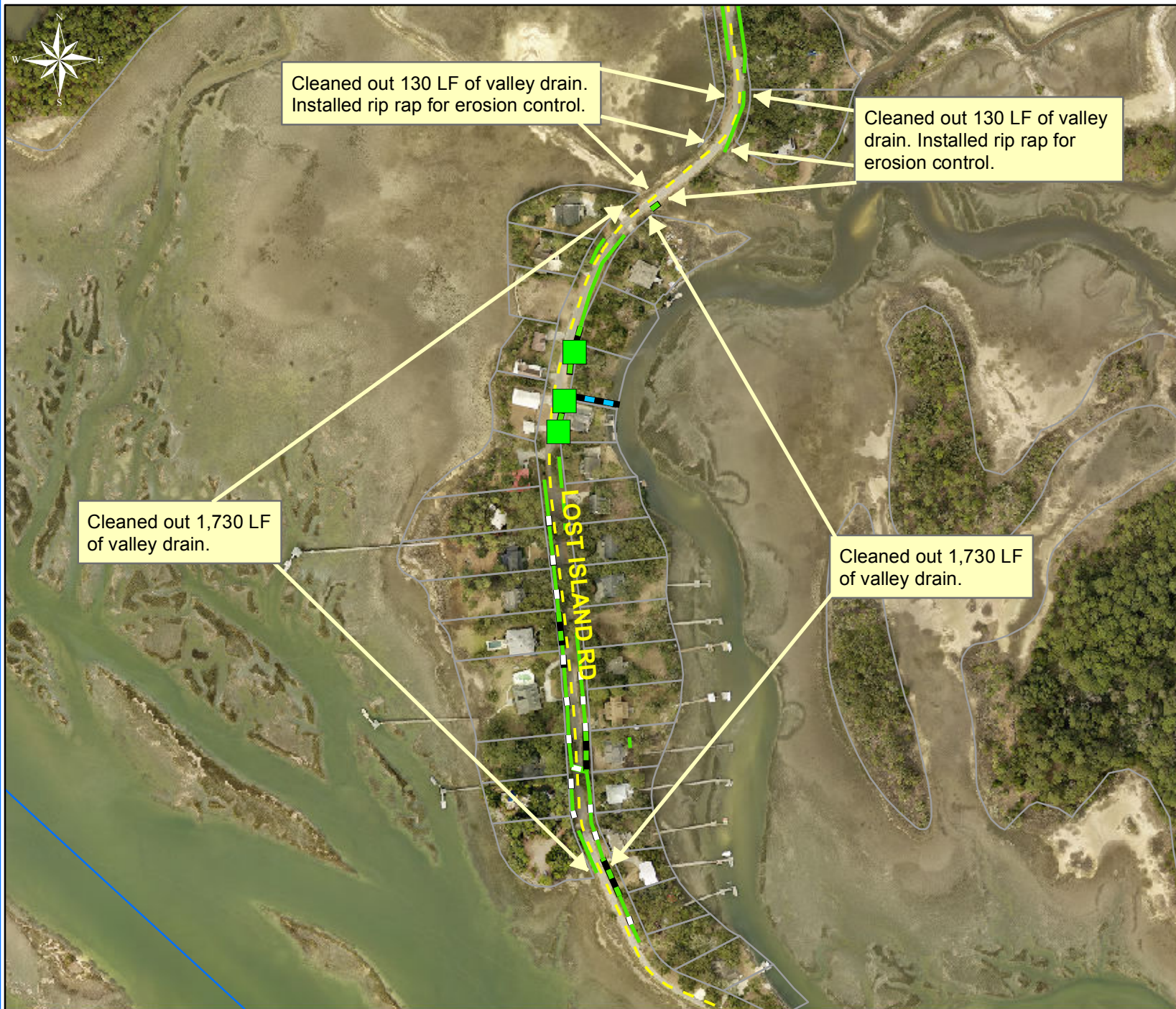
0 40 80 160 240 320
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/14/16

File:C:\project summaries map\Lost Island Map1_2016-578



Project: Lost Island
Map 2

Activity: Routine/
Preventive
Maintenance

Project #:
2016-537

Township/SW Dist:
Ladys Isalnd/7

Completed:
February 2016

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 330 feet

Prepared By: BC Stormwater Management Utility
Date Print: 04/14/16
File:C:\project summaries map\Lost Island Map2_2016-578



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

Project Summary: Ann Smith Drive

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Repaired sinkhole.

Duration: 1/20/16 - 3/3/16

2016-580 / Ann Smith Drive

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APREP / Asphalt Preparation	30.0	\$696.40	\$52.03	\$16.27	\$0.00	\$442.50	\$1,207.20
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
HAUL / Hauling	28.0	\$647.86	\$151.81	\$674.58	\$0.00	\$424.10	\$1,898.35
ONJV / Onsite Job Visit	17.0	\$522.75	\$60.18	\$21.28	\$0.00	\$309.91	\$914.12
SD / Soft Digging	15.0	\$341.38	\$60.76	\$43.60	\$0.00	\$221.13	\$666.87
SR / Sinkhole repair	42.0	\$976.50	\$116.08	\$22.88	\$0.00	\$603.96	\$1,719.42
UTLOC / Utility locates	0.5	\$12.35	\$0.00	\$0.00	\$0.00	\$6.62	\$18.97
2016-580 / Ann Smith Drive Sub Total	133.0	\$3,208.99	\$440.86	\$778.61	\$0.00	\$2,014.83	\$6,443.28

Grand Total **133.0** **\$3,208.99** **\$440.86** **\$778.61** **\$0.00** **\$2,014.83** **\$6,443.28**

Before

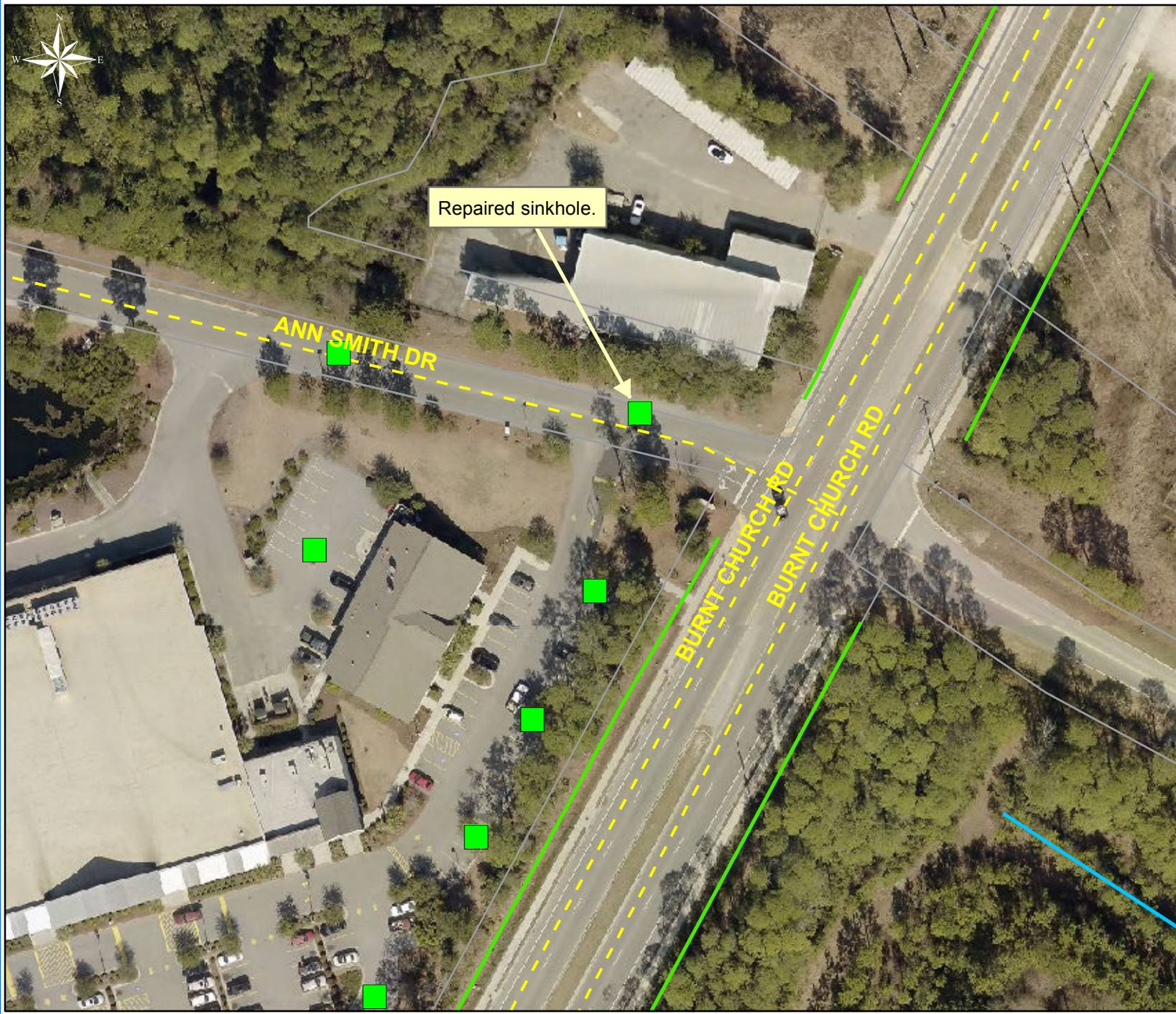


During



After





Project: Ann Smith Drive

Activity: Routine/
Preventive
Maintenance

Project #:
2016-580

Township/SW Dist:
Bluffton/9

Completed:
March 2016

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 83 feet

Prepared By: BC Stormwater Management Utility
Date Print:04/14/16
File:C:\project summaries map\Ann Smith Drive_2016-580



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Ball Park Road/Village Creek Channel

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Project improved 1,683 L.F. of drainage system. Bush hogged 1,643 L.F. of workshelf. Removed 40 L.F. of blockage from flowline.

Duration: 10/6/15

2016-544 / Ball Park Rd/Village Creek	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
HAUL / Hauling	10.0	\$222.70	\$79.90	\$18.10	\$0.00	\$144.20	\$464.90
ONJV / Onsite Job Visit	2.0	\$61.50	\$7.08	\$1.72	\$0.00	\$36.46	\$106.76
STBY / Stand By	6.0	\$137.28	\$26.04	\$9.59	\$0.00	\$89.10	\$262.01
WSBH / Workshelf - Bush Hogged	30.0	\$719.50	\$157.32	\$56.11	\$0.00	\$453.50	\$1,386.43
2016-544 / Ball Park Rd/Village Creek Sub Total	48.5	\$1,152.73	\$270.34	\$85.52	\$0.00	\$729.88	\$2,238.46
Grand Total	48.5	\$1,152.73	\$270.34	\$85.52	\$0.00	\$729.88	\$2,238.46

Before



During



After





Project: Ball Park Road / Village Creek

Activity: Routine/ Preventive Maintenance

Project #: 2016-544

Township/SW Dist: St. Helena Island/8

Completed: October 2015

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 50 100 200 300 400 Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print:04/18/16

File:C:\project summaries map\Ball Park Road-Village Creek_2016-544



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Pinewood Circle

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Responded to a complaint regarding a sinkhole. After inspection, it was determined it was a Beaufort Jasper Water and Sewer issue.

Duration: 11/16/15

2016-567 / Pinewood Circle	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
ONJV / Onsite Job Visit	3.0	\$95.68	\$10.62	\$6.80	\$0.00	\$60.93	\$174.03
SD / Soft Digging	13.0	\$307.37	\$27.98	\$14.73	\$0.00	\$195.45	\$545.53
2016-567 / Pinewood Circle Sub Total	16.5	\$414.80	\$38.60	\$21.53	\$0.00	\$263.00	\$737.92
Grand Total	16.5	\$414.80	\$38.60	\$21.53	\$0.00	\$263.00	\$737.92

(Pictures Not Available)



Project: Pinewood Circle

Activity: Routine/ Preventive Maintenance














Project #: 2016-567

Township/SW Dist: Port Royal Island/6

Completed: November 2015

Legend

Drainage Type

-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe



1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/14/16

File: C:\project summaries map\Pinewood Circle_2016-567



Beaufort County
Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Salem Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Removed blockage from flowline by hand. Jetted (1) crossline pipe.

Duration: 11/5/15 - 11/9/15

2016-560 / Salem Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CLPJT / Crossline Pipe - Jetted	4.0	\$91.52	\$17.36	\$14.67	\$0.00	\$59.40	\$182.95
RB / Remove blockage from flowline	10.0	\$230.56	\$7.08	\$1.70	\$0.00	\$149.76	\$389.10
SVCREQ / Service Request	1.0	\$45.60	\$3.62	\$1.70	\$0.00	\$33.96	\$84.88
2016-560 / Salem Road Sub Total	15.5	\$379.43	\$28.06	\$18.07	\$0.00	\$249.74	\$675.29
Grand Total	15.5	\$379.43	\$28.06	\$18.07	\$0.00	\$249.74	\$675.29

Before



During



After





Project: Salem Road

Activity: Routine/ Preventive Maintenance

Project #: 2016-560

Township/SW Dist: Port Royal Island/ 1&6

Completed: November 2015

Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility
 Date Print: 3/10/16
 File:C:\project summaries map\Dean Hall Road_2016-592

UNAUDITED AND PRELIMINARY
BEAUFORT COUNTY, SOUTH CAROLINA
STATEMENT OF NET POSITION
Stormwater Utility and Capital Improvement Funds
March 31, 2016

	Stormwater Utility Fund	Capital Improvement Fund
<u>ASSETS</u>		
Current Assets		
Cash and Cash Equivalents	\$ 5,000,723	\$ 325,583
Receivables, Net	354	-
Inventories	73,741	-
Total Current Assets	5,074,818	325,583
Capital Assets	3,067,236	-
Accumulated Depreciation	(2,351,494)	-
	715,742	-
Total Assets	5,790,560	325,583
<u>DEFERRED OUTFLOWS OF RESOURCES</u>		
Contributions to pension plan	126,782	-
Pension experience differences	53,749	-
Total deferred outflows of resources	180,531	-
Total assets and deferred outflows of resources	\$ 5,971,091	\$ 325,583
<u>LIABILITIES</u>		
Current Liabilities		
Accounts Payable	\$ 75,572	\$ -
Accrued Payroll	68,729	-
Accrued Compensated Absences	10,926	-
Total Current Liabilities	155,227	-
Noncurrent Liabilities		
Accrued Compensated Absences	76,479	-
Net Other Postemployment Benefits Obligation	17,770	-
Net Pension Liability	1,897,384	-
Total Noncurrent Liabilities	1,991,633	-
Total Liabilities	2,146,860	-
<u>DEFERRED INFLOWS OF RESOURCES</u>		
Net pension change in projected investment earnings	159,919	-
Total deferred inflows of resources	159,919	-
<u>NET POSITION</u>		
Net investment in capital assets	715,742	-
Reserved for Encumbrances	1,120,096	206,073
Reserved for Capital Projects	-	119,510
Unrestricted	1,828,474	-
Total Net Position	\$ 3,664,312	\$ 325,583
Total liabilities, deferred inflows of resources, and net position	\$ 5,971,091	\$ 325,583

UNAUDITED AND PRELIMINARY
BEAUFORT COUNTY, SOUTH CAROLINA
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET POSITION
Stormwater Utility Fund
For the Period Ended March 31, 2016

	Fiscal Year 2016			
	Budget	Actual	Budget to Actual	
			\$ Variance	% Variance
<u>OPERATING REVENUES</u>				
Stormwater Utility Fees	\$ 5,058,882	\$ 4,662,008	\$ (396,874)	-7.8%
Countywide Infrastructure Fees	496,148	456,600	(39,548)	-8.0%
Stormwater Utility Project Billings	275,851	-	(275,851)	-100.0%
Total Operating Revenues	<u>5,830,881</u>	<u>5,118,608</u>	<u>(712,273)</u>	<u>-12.2%</u>
<u>OPERATING EXPENSES</u>				
Personnel	2,563,225	1,589,834	973,391	38.0%
Purchased Services	1,308,162	419,464	888,698	67.9%
Supplies	358,324	195,365	162,959	45.5%
Capital	611,290	31,212	580,078	94.9%
Depreciation	248,481	186,361	62,120	25.0%
Total Operating Expenses	<u>5,089,482</u>	<u>2,422,236</u>	<u>2,667,246</u>	<u>52.4%</u>
Operating Income (Loss)	741,399	2,696,372		
<u>NON-OPERATING REVENUES (EXPENSES)</u>				
Interest Earned	2,771	-	(2,771)	-100.0%
Miscellaneous	-	798	798	100.0%
Total Non-Operating Revenues (Expenses)	<u>2,771</u>	<u>798</u>	<u>(1,973)</u>	<u>-71.2%</u>
Transfers out to Capital Improvement Fund	<u>495,908</u>	<u>-</u>	<u>495,908</u>	<u>0.0%</u>
Change in Net Position	248,262	2,697,170		
Net Position, Beginning	<u>967,142</u>	<u>967,142</u>		
Net Position, Ending	<u>\$ 1,215,404</u>	<u>\$ 3,664,312</u>		

UNAUDITED AND PRELIMINARY
BEAUFORT COUNTY, SOUTH CAROLINA
STATEMENT OF REVENUES, EXPENSES AND CHANGES IN FUND NET POSITION
Stormwater Utility Capital Improvement Fund
For the Period Ended March 31, 2016

	Fiscal Year 2016			
	Budget	Actual	\$ Variance	% Variance
Transfers in From Stormwater Utility Fund				
Administration Complex Parking Lot Retrofit	\$ -	\$ -	\$ -	0.0%
Okatie East Retrofit	-	-	-	0.0%
Highway 278 Retrofit	-	-	-	0.0%
Okatie West Retrofit	-	-	-	0.0%
Buckingham Plantation Retrofit	400,000	-	(400,000)	-100.0%
Upper Battery Creek Retrofit	95,908	-	(95,908)	-100.0%
Brewer Memorial Park	-	-	-	0.0%
Total Transfers In	<u>495,908</u>	<u>-</u>	<u>(495,908)</u>	<u>-100.0%</u>
Capital Improvement Expenses				
Administration Complex Parking Lot Retrofit	-	-	-	0.0%
Okatie East Retrofit	-	-	-	0.0%
Highway 278 Retrofit	47,590	54,199	(6,609)	-13.9%
Okatie West Retrofit	315,000	10,491	304,509	96.7%
Buckingham Plantation Retrofit	117,604	3,513	114,091	97.0%
Upper Battery Creek Retrofit	400,000	-	400,000	100.0%
Brewer Memorial Park	9,500	-	9,500	100.0%
Total Capital Improvement Expenses	<u>889,694</u>	<u>68,203</u>	<u>821,491</u>	<u>92.3%</u>
Change in Net Position by Project				
Administration Complex Parking Lot Retrofit	-	-		
Okatie East Retrofit	-	-		
Highway 278 Retrofit	(47,590)	(54,199)		
Okatie West Retrofit	(315,000)	(10,491)		
Buckingham Plantation Retrofit	282,396	(3,513)		
Upper Battery Creek Retrofit	(304,092)	-		
Brewer Memorial Park	(9,500)	-		
Total Change in Net Position by Project	<u>(393,786)</u>	<u>(68,203)</u>		
Net Position, Beginning				
Administration Complex Parking Lot Retrofit	24,919	24,919		
Okatie East Retrofit	35,169	35,169		
Highway 278 Retrofit	143,670	143,670		
Okatie West Retrofit	62,285	62,285		
Buckingham Plantation Retrofit	2,500	2,500		
Upper Battery Creek Retrofit	125,243	125,243		
Brewer Memorial Park	-	-		
Total Net Position, Beginning	<u>393,786</u>	<u>393,786</u>		
Net Position, Ending				
Administration Complex Parking Lot Retrofit		24,919		
Okatie East Retrofit		35,169		
Highway 278 Retrofit		89,471		
Okatie West Retrofit		51,794		
Buckingham Plantation Retrofit		(1,013)		
Upper Battery Creek Retrofit		125,243		
Brewer Memorial Park		-		
Total Net Position, Ending		<u>\$ 325,583</u>		

Beaufort County Public Works Stormwater Utility

FY 2015 Actuals

March 9, 2016

Revenue/Reserve Utilization

	FY2014 Audited Actuals	Approved Budget	FY 2015 Audited Actuals	Variance
Revenue				
Admin SWU Fees	\$ 312,900	\$ 313,460	\$ 316,363	\$ 2,903
Utility Activities SWU Fees	2,737,540	2,766,881	2,809,244	42,363
Total Revenue from SWU Fees	3,050,440	3,080,341	3,125,606	45,265
Reimbursable Projects	1,197	2,500	21,607	19,107
Interest	2,771	2,955	864	(2,091)
Gain (Loss) Sale of Capital Assets	(38,450)	-	1,806	1,806
Other	1,198	-	1,079	1,079
Cost-Share for Joint Efforts	139,068	41,689	85,286	43,597
Reserve Utilization				
Capital Improvement Fund	859,705	767,500	12,365	(755,135)
Stormwater Utility	(878,672)	351,091	(569,435)	(920,526)
	\$ 3,137,257	\$ 4,246,076	\$ 2,679,178	\$ (1,566,898)

Efforts (Expenditures)

	FY2014	FY 2015		
Admin	\$ 317,313	\$ 313,460	\$ 311,733	\$ (1,727)
Utility Activities				
UA/Control Reg	88,418	216,956	176,209	(40,747)
UA/WQ Monitoring	258,971	120,000	135,971	15,971
UA/WQ Controls	129,604	-	-	-
UA/Annual Maintenance	2,305,871	2,736,160	1,510,488	(1,225,672)
UA/Public Information/Outreach	(37,233)	50,000	16,678	(33,322)
UA/Drainage Enhancement	10,395	7,000	3,765	(3,235)
UA/Additional Studies	12,606	35,000	97,363	62,363
<i>Utility Activities Subtotal</i>	<i>2,768,632</i>	<i>3,165,116</i>	<i>1,940,474</i>	<i>(1,224,642)</i>
Reserve Utilization				
Capital Improvement Fund				
Admin Parking Lot Retrofit	2,481	327,169	302,250	(24,919)
Okatie East Retrofit	19,345	-	5,723	5,723
Hwy 278 Retrofit	14,878	207,722	64,052	(143,670)
Okatie West/SC 170 Retrofit	-	100,000	37,715	(62,285)
Battery Creek Upper Retrofit	14,608	132,609	7,367	(125,242)
Buckingham Plantation			9,865	9,865
<i>Reserve Utilization Subtotal</i>	<i>51,312</i>	<i>767,500</i>	<i>426,971</i>	<i>(340,529)</i>
Efforts Total	\$ 3,137,257	\$ 4,246,076	\$ 2,679,178	\$ (1,566,898)

Personnel
\$126,580 - SW Inspection Super & SW Inspector
Supplies & Services
\$15,365 - Services/supplies
\$1,428 - Step 2 webtool upgrade
\$300 - Webhost
Professional Services
\$32,536 - MS4 NOI

\$90K - USCB Lab service
\$10,724 - USCB bacteria testing
\$13,421 - USCB equipment
\$21,826 - GEL Engr

\$33,688 - Professional and non-professional services
\$806K - Accruals reversed w/ OPEB being discontinued (\$2,316,488)

Contract with BSWCD
Design assistance for Turtle Rd

\$28,791 - Financial planning services (CC Workshop 012215)
\$54,109 - Rate Study related services
\$2,887 - Various services from SW consultant
\$2,696 - Salinity Study
\$5,998 - Hwy Delineation in Bluffton (Ward Edwards)

\$100,503 - Replacements
\$29,503 - Replace pick up truck
\$31,328 - Replace Chevy Blazer
\$39,672 - Replace labor truck for FY14 but delivered in FY15
Regulatory Section
\$27,291 - Pick up truck (SW Inspector)
\$33,221 - WQ Monitoring
\$17,583 - (2) Flow Meters
\$8,992 - Handheld flowmeter
\$6,646 - Multiparameter meter

Change in Capital Assets On Balance Sheet

	FY2014	FY 2015		
Capital Assets Additions	\$ 175,460	165,561	161,015	\$ (4,546)
Depreciation	(211,656)	(182,523)	(187,973)	(5,450)
	\$ (36,196)	\$ (16,962)	\$ (26,958)	\$ (9,996)



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, May 11, 2016
2:00 p.m.
Executive Conference Room, Administration Building
Beaufort County Government Robert Smalls Complex
100 Ribaut Road, Beaufort, South Carolina
843.255.2805

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 – April 27, 2016 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Utility Update – Eric Larson, P.E. ([backup](#))
 - B. Monitoring Update – Eric Larson, P.E. ([backup](#))
 - C. Stormwater Implementation Committee Report – Eric Larson, P.E. ([backup](#))
 - D. Stormwater Related Projects – Eric Larson, P.E. ([backup](#))
 - E. Upcoming Professional Contracts Report – Eric Larson, P.E. ([backup](#))
 - F. Regional Coordination – Eric Larson, P.E. ([backup](#))
 - G. Municipal Reports – Eric Larson, P.E. ([backup](#))
 - H. MS4 Update – Rebecca Baker ([backup](#))
 - I. Maintenance Projects Report – David Wilhelm ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. June 8, 2016 ([backup](#))
9. ADJOURNMENT

