



BEAUFORT COUNTY STORMWATER MANAGEMENT UTILITY BOARD AGENDA

Wednesday, October 1, 2014 2:00 p.m.

Beaufort Industrial Village, Building 3 Conference Room 104 Industrial Village Road, Beaufort 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 September 3, 2014 (backup)
- 2. INTRODUCTIONS
- 3. PUBLIC COMMENT
- 4. REPORTS
 - A. Special Presentation Draft MS4 Permit Application Eric Larson, P.E.
 - B. Utility Update Eric Larson, P.E. (backup)
 - C. MS4 Update Eric Larson, P.E. (backup)
 - D. Monitoring Update Eric Larson, P.E. (backup)
 - E. Stormwater Implementation Committee Report Eric Larson, P.E. (backup)
 - F. Stormwater Related Projects Eric Larson, P.E. (backup)
 - G. Upcoming Professional Contracts Report Eric Larson, P.E. (backup)
 - H. Regional Coordination Eric Larson, P.E. (backup)
 - I. Financial Report (backup)
 - J. Maintenance Projects Report Eddie Bellamy (backup)
- 5. UNFINISHED BUSINESS
- 6. NEW BUSINESS
 - A. Shadow Moss Phase 4 Easement Release— Eric Larson, P.E. (backup)
- 7. PUBLIC COMMENT
- 8. NEXT MEETING AGENDA
 - A. November 5, 2014 (backup)
- 9. ADJOURNMENT





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

September 3, 2014 at 2:00 p.m. in Beaufort Industrial Village Building #3 Conference Room Draft as of September 18, 2014

Board Members	Ex-Officio Members
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Present	Absent	Present	Absent
Don Smith	James Fargher	Andy Kinghorn	Van Willis
Allyn Schneider		Kimberly Jones	
William Bruggeman		Scott Liggett	
Patrick Mitchell			

Beaufort County Staff

Eric Larson
Eddie Bellamy
Danny Polk
Carolyn Wallace
Alan Eisenman

Visitors

Lamar Taylor, City of Beaufort Denise Parsick, Bft Soil & Water Conservation Dist

- **1. Meeting called to order** Don Smith
 - **A.** Agenda Approved.
 - **B.** June 4, 2014, July 2, 2014 and August 6, 2014 Minutes Approved.
- **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. Eric Larson provided a presentation on two current projects; Highway 278 retrofit project and the Administration Building Parking Lot Retrofit Project. (please see attachment).
 - **B.** Utility Update Eric Larson

Annual Tax Run — The TY 2014 tax run preparations have begun. Mrs. Carolyn Wallace is coordinating with our stormwater staff to review the parcel information changes since last year. Annual Reports — Per our IGA with the Towns and City, an annual report of fiscal year revenue projections and their rates was due August 15th. ToHHI and ToB submitted. A second report was due September 1 which summarizes revenue and expenses from the last fiscal year. Mr. Lamar Taylor mentioned that a key person in the City of Beaufort's Finance Department was on vacation but the report would be provided soon.

C. MS4 Update – Eric Larson

MS4 Update – The contract for professional consulting services was approved by the County Council on August 18th. ATM is the consulting firm and Mr. Tony Maglione will be the Project Manager from the firm. Mr. Larson will be having a day long work session with the consultants tomorrow and he has several meetings set up with different county departments.

Stormwater Public Education and Outreach – The county has received one proposal from a team put together by the Beaufort Water and Soil Conservation District. The Stormwater Implementation

Committee reviewed the proposal at their last meeting. The committee has a list of questions to discuss with the proposer.

D. Monitoring Update – Eric Larson

University of South Carolina, Beaufort (USCB) Laboratory – Certification processes are on schedule.

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

SWIC Meeting – The committee met in August. They went over the Notice of Intent (NOI) template provided by SC Department of Health and Environmental Control (DHEC). They discussed what items of the application they could share in the preparation of. Because of scheduling conflicts, the next meeting will be in November and they will reviewing each other's NOI.

F. Stormwater Related Projects – Eric Larson

Policy for Acquisition of Stormwater Drainage Easements – The County Council approved the drainage easement acquisition protocol.

Stormwater Related Complaints – There seem to be a rise in complaints this month, probably due to more rainfall and more publicity of stormwater related issues. All complaints have been addressed.

G. Professional Contracts Report – Eric Larson

SC 170 Widening and Stormwater – The conceptual design study is due this week. Ward Edwards presented the draft document and they will be finalizing the draft document in written form. Mr. Larson will then be sharing the report with the County Administrator and the engineering report will probably be issued by the following week after that.

H. Regional Coordination - Eric Larson

Battery Creek Pond – Mr. Larson has been working with Mr. Taylor to draft and negotiate an easement with the property owner.

May River Watershed Action Plan – The Town of Bluffton has started the baseline study on their second 319 project which is the Pineridge Subdivision's retrofit of their ponds and reuse for irrigation. Ms. Kim Jones said this project is related to stormwater volume reduction. She also mentioned the May River Watershed Sewer Master Plan was developed, and they are currently investigating a mandatory sewer hookup policy and program. They are working with BJWSA on the mandatory hookup and expanding sewer services.

Salinity Study – The Watershed Action Plan Committee is meeting next week to review the work over the last year. Committee members received the draft document last week.

Sea Level Rise and Future Planning – Two public meetings were held last week. Mr. Larson attended both meetings and he said it was well attended by the public.

I. Financial Report – Alan Eisenman

Mr. Eisenman provided the timeline for the auditing process since the county has reached the end of the fiscal year. The auditors should be here next month and he hopes to present on the end of the fiscal year financials the next time he is scheduled to appear at the board meeting.

Mr. Eisenman provided a presentation on the stormwater July financials (please see attachment). There was not a lot to show this early in the budget cycle.

Mr. Don Smith said he would try to move Mr. Eisenman up on the agenda the next time he presents.

J. Maintenance Projects Report – Mr. Eddie Bellamy submitted his written report in advance (please see attachment) on five major and five minor projects.

5. Unfinished Business

Vacant SWMU Board Member Seats – Mr. Smith mentioned that he knows Mr. Larson has made several inquiries soliciting candidates for the vacant board seats. Mr. Larson said he has not received any responses for a candidate. Mr. Bellamy suggested that anyone who is interested enough to watch the board meeting on TV, would perhaps be interested in being a member of the board.

6. New Business – None.

7. Public Comment(s) –

No Wake Zone on the May River – Mr. Larson provided a copy of the Town of Bluffton staff's recommendation to their town council on their recommendation to SCDNR on a "no wake zone" on the May River advance (please see attachment). Of the three options, the town recommended option one and they are waiting on a response from DNR. A group of citizens have expressed concerns because they think the no wake zone should be option two or three. They have contacted the county because some of the parcels area in the unincorporated county. Mr. Larson suggested the board wait until SCDNR responds before weighing in, if needed.

8. Next Meeting Agenda – Mr. Larson said he anticipates having the Shadow Moss Subdivision Phase 7 Easement Release under New Business at the next board meeting and he is also anticipating the Town of Port Royal to be the presenters for the Special Presentation during the November board meeting.

9. Meeting Adjourned.



BEAUFORT COUNTY STORMWATER UTILITY

120 Shanklin Road Beaufort, South Carolina 29906 Voice (843) 255-2801 Facsimile (843) 255-9478



September 3, 2014

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Utility Update

- 1. I am working on a mid-year update to the 5 year plan submitted with the budget for FY 2015. This work is in preparation for a series of presentations to the Utility Board, County Council, and the public in upcoming months.
- 2. The TY 2014 tax run preparations have begun. Carolyn Wallace is coordinating with our stormwater staff to review the parcel information changes since last year.
- 3. Board Vacancies I have made several inquiries to County Council, Administration, and several POA organizations to solicit member nominations. I have not received any feedback at this time.
- 4. Per our IGA with the Towns and City, an annual report of fiscal year revenue projections and their rates was due August 15th. ToHHI and ToB submitted. A second report was due September 1 which summarizes revenue and expenses from the last fiscal year.

MS4 Update

- 1. The contract for professional consulting services was approved by the County Council on August 18th. The contract has been signed. The first task order for \$6,767 has been issued. Work will consist of evaluating our current program and creating a work plan for the next 12-24 months to accomplish the other scope tasks.
- 2. Stormwater Public Education and Outreach We received only one proposal for this RFP. The selection committee, made up of the SWIC members, met on August 28, 2014. Selection is pending and a recommendation for an award is expected for the September 3, 2014 Utility Board meeting.

Monitoring Update

1. USCB Lab – Nothing new to report this month. The lab continues to conduct field work with Danny Polk and GEL Engineering and continues to analyze our samples. Certification processes are on schedule. Danielle Mickel, lab manager, reports that "currently, the Water Quality Laboratory is working on proficiency testing. SCDHEC certification requires a proficiency test to be purchased from an approved supplier, and performed on each parameter that is requested for certification. Proficiency tests are scheduled tests in which results for submitted tests are supplied once the study has closed. These results, in our case, are not only supplied to the proficiency supplier, but also SCDHEC. Hard copy results are supplied to us within the time frame of approximately two weeks, once a study has closed. We have scheduled our proficiency testing to incorporate both Total Coliform/E.coli and Enterococci. Our study closes 8/28.

Proficiency testing is the first step towards certification and is the required start-up documentation for certification. We are also working on other documentation required for and included in the SCDHEC certification application; Quality Assurance Manual, Analysis Records, Training Records, QC Records (media, temperatures, sterility checks, QT sealer checks, autoclave checks), Resumes, Laboratory Director Designation letter, Standard Operating Procedures, and Qualifications for each employee and their responsibilities."

Stormwater Implementation Committee (SWIC) Report

- 1. The SWIC met in August. The topic of discussion was the Notice of Intent submittal. We reviewed the DHEC template and discuss opportunities to partner on various items. Minutes are attached.
- 2. The next meeting is scheduled for November. The SWIC will be reviewing draft NOI applications for the MS4 permits.

Stormwater Related Projects

- 1. I have dealt with an unusual amount of stormwater related complaints this month. I am assuming the recent amount of wet weather and the press related to flooding in the County has prompted renewed interest in these isolated problems. I have been reviewing these problems individually with Eddie Bellamy and Ezekial Miller and we have addressed them as appropriate.
- 2. The County Council approved the drainage easement acquisition protocol. We now have a tool to use to obtain easements on projects staff determines are needed to protect public health, safety, welfare. Each request will go back through the Utility Board and County Council for approval. See attached policy memo.

Professional Contracts Report

- 1. US 278 retrofit ponds (\$356,000 budget) The project is moving forward. We are soliciting bids for hauling and clearing. Engineering is preparing a site plan for the stockpile area. Construction is currently scheduled to start in November.
- 2. County Admin. Complex Retrofit Project (\$327,768 budget) Bids were due Aug 7, 2014. We received 5 bids. JS Construction was selected and awarded the contract for \$299,653 by County Council on August 25. We are now working to get a signed contract and schedule for construction.
- 3. SC 170 widening and stormwater (\$14,000 budget) The conceptual design study for the road corridor to determine methods, needs, and cost was due September 1, 2014. It will be reviewed and finalized in the first week or two in September.

Regional Coordination

1. Battery Creek Pond funded by an EPA 319 grant (\$132,609 budget – county portion) – On going. Preliminary design is complete. County and City staff are working with the property owner to negotiate an easement. (Lamar Taylor may also report)

- 2. May River Watershed Action Plan On going. Town staff has begun base line monitoring at the second 319 grant site, Pine Ridge Subdivision. (Kim Jones may also report)
- 3. Salinity Study (\$25,000 budget county portion) On going. Nothing new to report.
- 4. Sea Level Rise and Future Planning On going. Two public meetings were held on August 25 and 26 to review the work done and seek input.
- 5. Drainage issue on H.E. McCracken Circle in Bluffton On going. The Town of Bluffton staff is performing additional field work to verify the feasibility of a conceptual solution.
- 6. Stormwater PSAs The Town of Bluffton staff and County staff are preparing a series of stormwater public service announcements to be aired on the County Channel. Topic range from septic tank maintenance, pet waste, lawn care / fertilizer use, and a general topic segment.

Draft Minutes

August 13, 2014, 1:30pm at the BJWSA Community Room, 6 Snake Road, Okatie, SC

Attendees:	Eric Larson, Kim Jones, Jeremy Ritchie, Bryan McIlwee, Lamar Taylor,
	& Tony Maglione

- 1. Approval of July minutes Approved by common consent.
- 2. Status and Discussion of Public Education, Outreach, Involvement proposal solicitation and MOU Proposals are due August 15th. The committee will meet to review the proposal Aug. 28, 2014 at 11am at The Town of Bluffton Stormwater Office, 1261 May River Road. The group briefly discussed other options for public education in the event the proposal process does not successfully yield a educational partner to work with.
- 3. Review and discussion of the DHEC NOI template The group reviewed a template provided by DHEC staff for the completion of the Notice of Intent. It is called "Appendix C" from an early draft of the general permit issued in January. It was noted that this template is different from the adopted permit and has content not required in the permit, so caution is needed when using the template.

The first topic of discussion was the needed formation of citizen advisory groups. The SWIC members discussed various options ranging from expanding the SWIC with Ad Hoc members, adding MS4 progress and citizen input process as part of the regular SWU Board meetings, and establishing new Ad Hoc committees, either as one countywide group or individual committees formed by each MS4. It was suggested that we contact DHEC and ask if the concept of shared citizen input committees would be acceptable and if it would require a MOU between the various MS4s.

The next topic discussed in detail was related to developing a means for citizen input to report problems, etc. Everyone summarized their current process. Eric Larson discussed a proposed service called 311GIS that the County is evaluating. Eric encouraged everyone to discuss this with their respective IT staff and evaluate it for themselves.

Third, the SWIC discussed the development of a construction runoff program. Currently DHEC's program requires construction sites 1 acre or larger and smaller sites part of a common plan of development that is greater than 1 acres to be permitted. OCRM requirements drop that threshold to 1/2 acre under certain circumstances. It was discussed whether or not a local permitting program needed to go down to a lower threshold in order to be able to permit and inspect smaller sites such as single family lots not part of a common plan. Options were discussed but no decisions were made.

General consensus about the NOI development process was to submit a program that meets the intent of the permit without adding additional program elements that are higher standard than the permit. Once approved by DHEC, the MS4s would have the option of developing higher standards and reporting on those but would not be bound by them should those elements not get developed. It was also felt that submitting a "minimum requirements" permit application would speed up DHEC approval.

- 4. Additional discussion on Data Mgt., if needed Not discussed.
- 5. August 15th FY 14 fee report Larson reminded the group of the upcoming deadline.
- 6. September 1st financial report Larson reminded the group of the upcoming deadline. He will email the submittal template again to the SWIC members.
- 7. Due to the proposal meeting on August 28 and schedule conflicts in September and October, the next meeting of the SWIC was moved to November 12, 2014 at 1:30pm at the Community room at BJWSA.



BEAUFORT COUNTY STORMWATER UTILITY

120 Shanklin Road

Beaufort, South Carolina 29906 Voice (843) 255-2801 Facsimile (843) 255-9478



TO:

Councilman Gerald Dawson, Chairman, Public Facilities Committee

FROM:

Robert McFee, PE, Division Director for Engineering and Infrastructure

Eric W. Larson, Beaufort County Stormwater Utility

SUBJECT:

Discussion of a Policy for Acquisition of Storm Water Drainage Easements.

Date:

August 6, 2014

BACKGROUND: The following Standard Operating Procedure is recommended for all drainage easement acquisitions:

- 1) Stormwater Engineer, assisted by Easement Manager, determines easement needs; the easement acquisition process is initiated
 - a) identification of adjacent property owners (names and mailing addresses)
 - b) preparation of easement request letters
 - c) drafting of easement deeds or easement agreements
 - d) initial request letter is mailed
 - e) second request letter, if necessary, is mailed
 - f) if all the easement requests are granted, Easement manager records the documents and the drainage project proceeds
 - g) if the requested easement is not granted, County Staff attorney reports the same to Public Facilities Committee/County Council and recommends one of two courses of action
 - 1) Council designates the drainage as private and removes it from the drainage maintenance inventory; property owners are notified of this action by mail
 - 2) Council agrees to provide funding for the condemnation of the easement; drainage project proceeds when County takes title to the condemned easement
- 2) Stormwater department conducts/oversees the contract letting process
- 3) Contract is awarded
- 4) Construction phase commences

FOR ACTION: Public Facilities Committee meeting occurring on August 18, 2014.

RECOMMENDATION: Staff recommends the above process to be endorsed by the Public Facilities Committee of County Council for the acquisition of drainage easements and maintenance of the stormwater system.

CC:

Gary Kubic, County Administrator

Bryan Hill, Deputy Administrator

/ewl

Government Complex Parking Lot Stormwater Retrofit Project

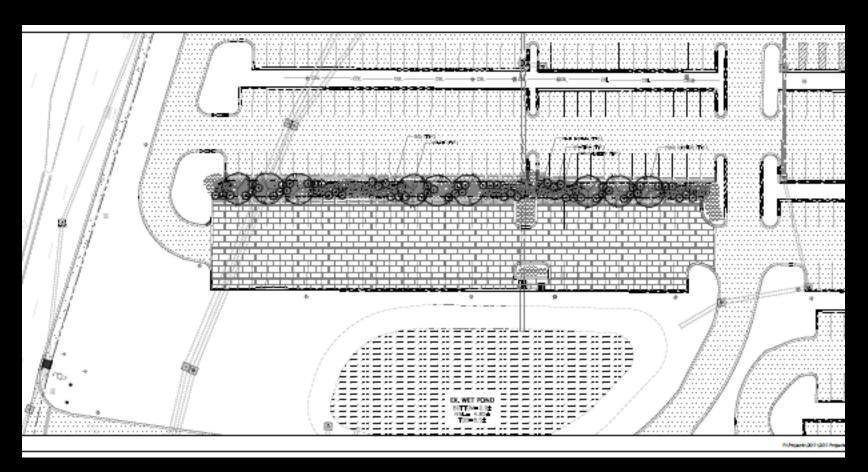
A Report to Beaufort County Stormwater Utility Board September 3, 2014



Site Plan

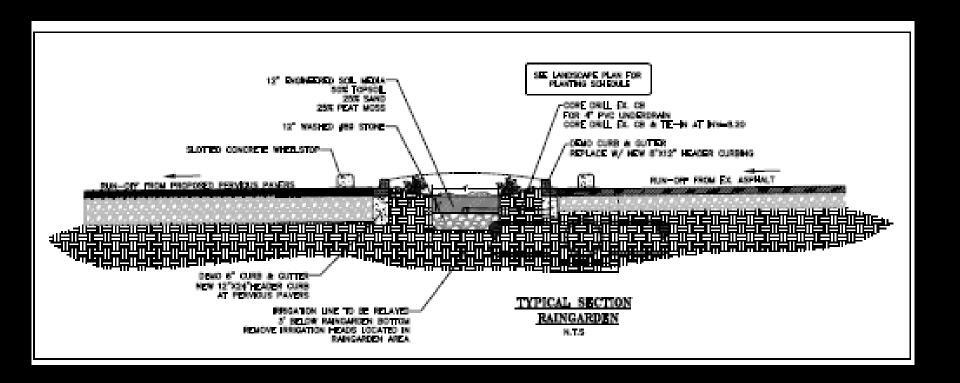


Plan View





Pavement Detail





Example of Completed Project





Project cost / schedule

- Construction Budget = \$327,768
- Contractor Bid = \$299,653

Break ground on or about mid September



Pond Maintenance

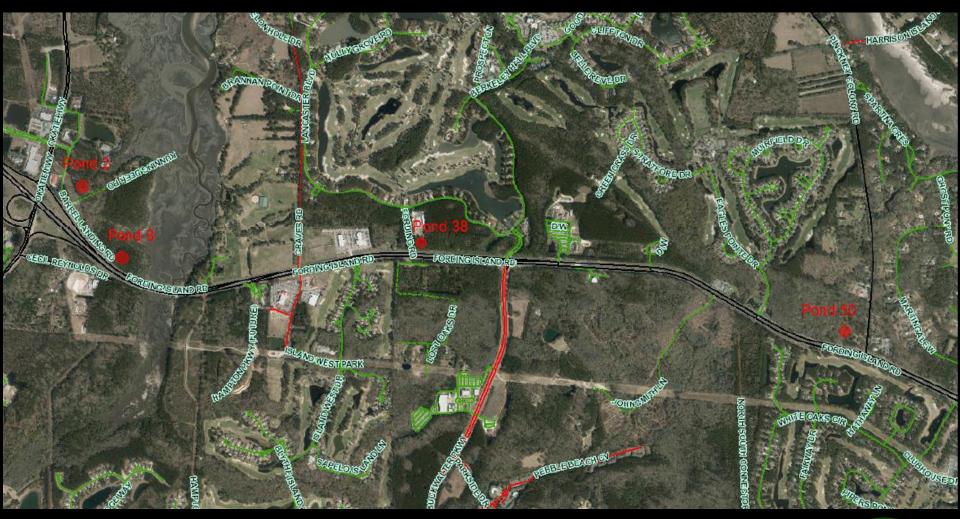


US 278 Widening Stormwater Retrofit Project

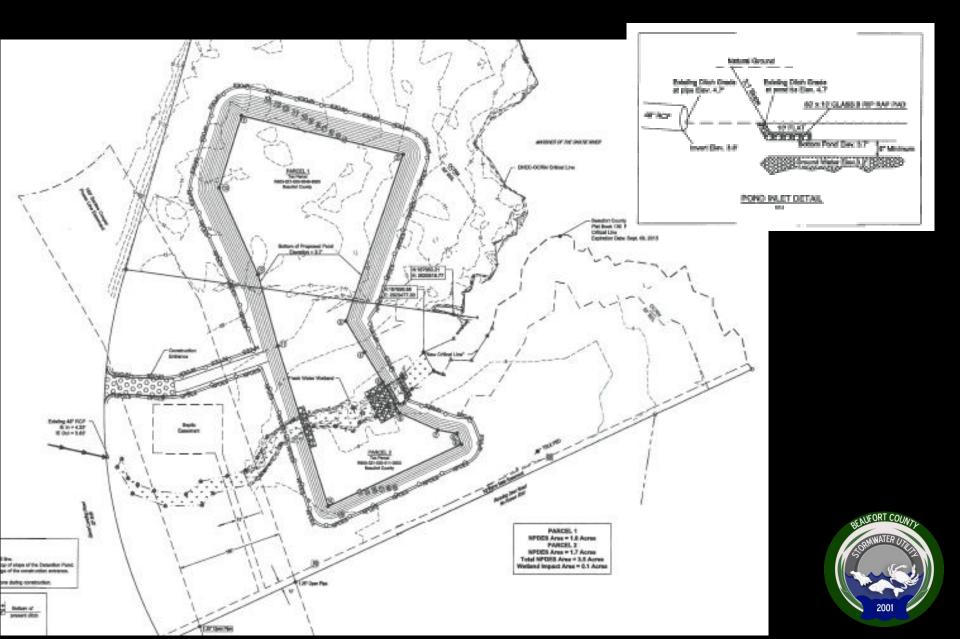
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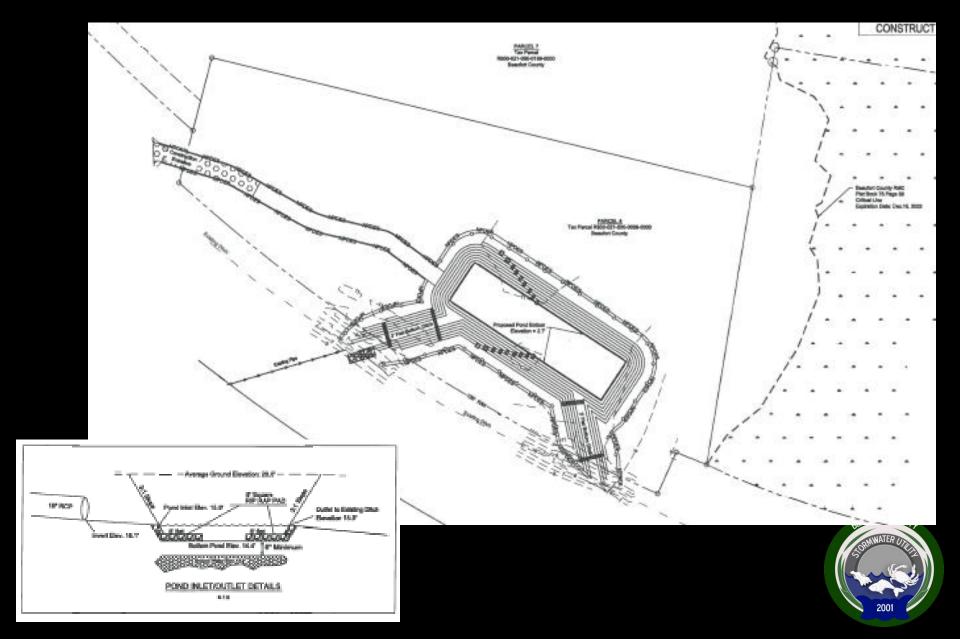


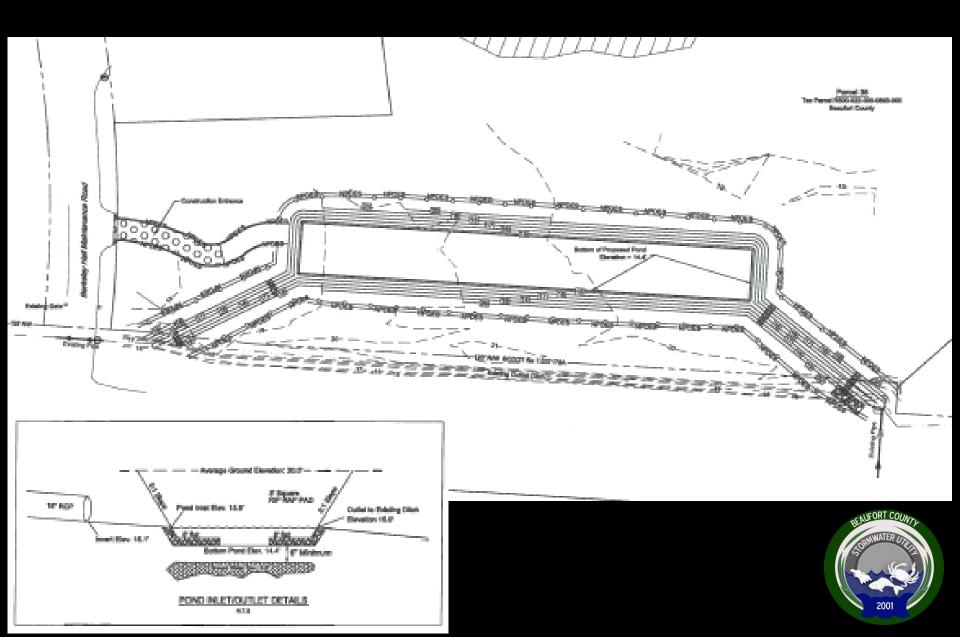
Overview







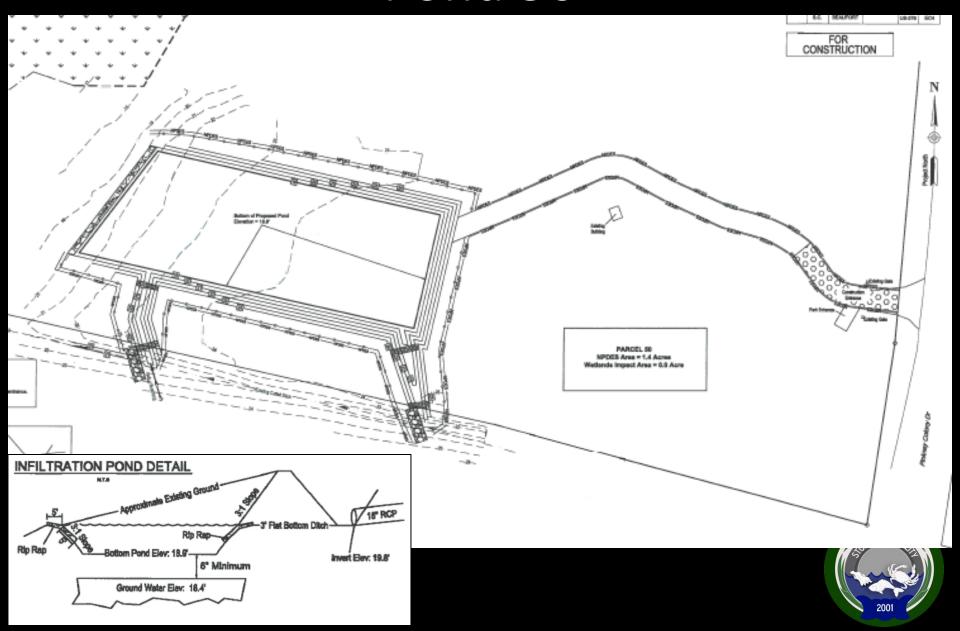




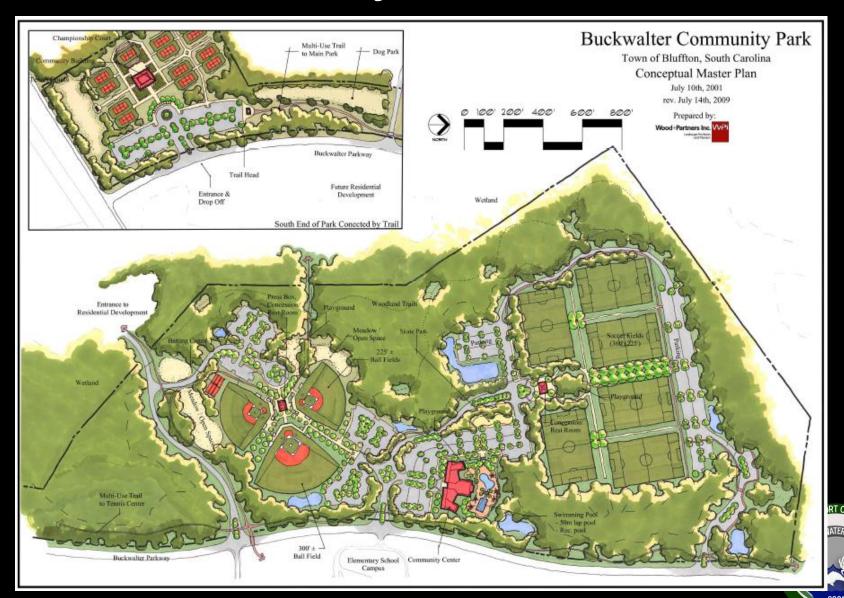
Gate Details







Win-Win Project Coordination



Stockpile site





Project cost / schedule

- Construction Budget = \$359,400
- In-House Estimate of Direct Costs = \$256,592
- Estimated savings to the County = \$137,620

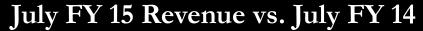
Break ground on or about Nov. 1, 2014

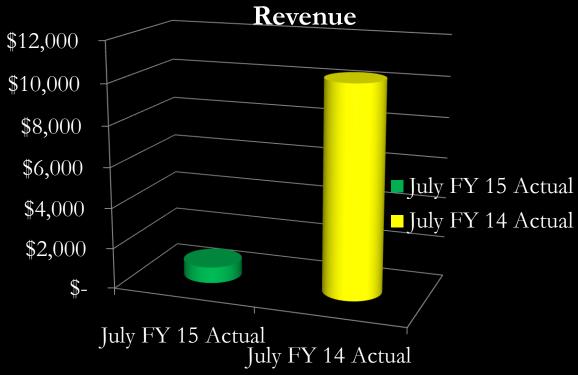




Stormwater Management Utility Meeting Board

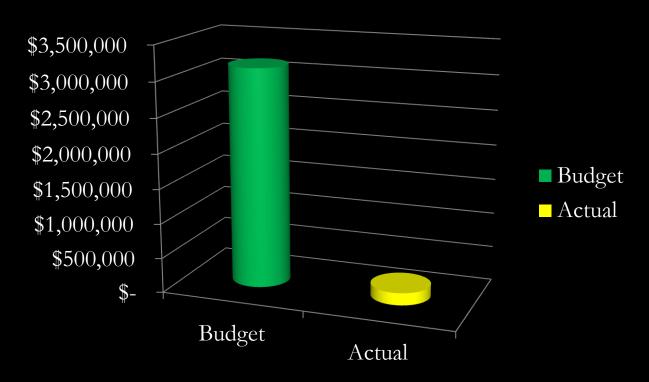
STORMWATER FINANCIALS





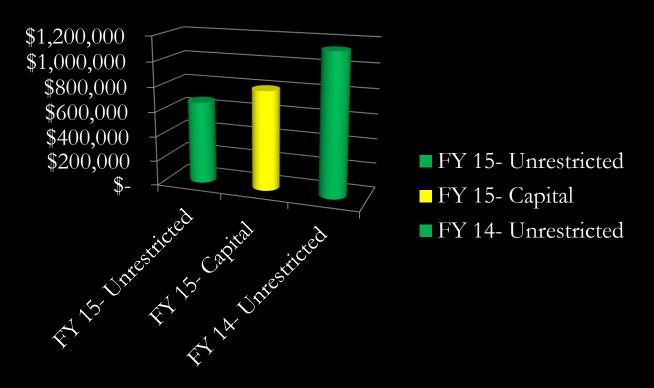
Actual FY15 revenues are \$9,500 less or 92% than actual FY 14 revenues

July FY 15 Expenses vs. FY 15 Budget



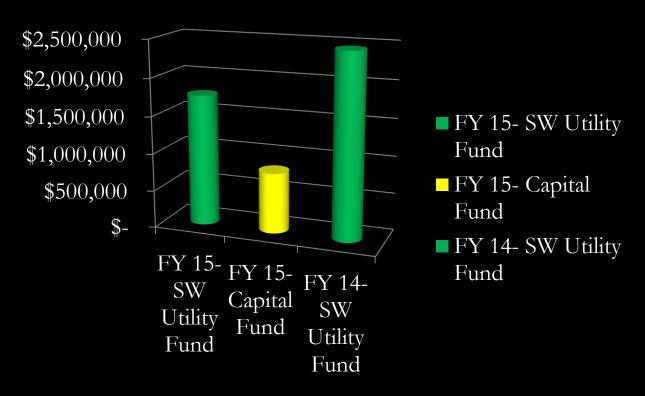
Actual July FY15 expenses are at 6% of budget for FY 15

Fund Balance from Balance Sheet



FY15 Fund Balances increased by \$114,000 or 10%

Cash from Balance Sheet



FY15 Cash Balances increased by \$111,000 or 4.5%



Date: September 3, 2014

To: Stormwater Management Utility Board

From: Eddie Bellamy, Public Works Director

Re: Maintenance Project Report for September 2014

1. This report will cover five major and five minor or routine projects. The Project Summary Reports are attached.

2. Major Projects:

- **A.** Town of Hilton Head Island Bush Hog and Clean-out (Reimbursement), completed in March within the Town of Hilton Head Island, District 3; we bush hogged 19,428 feet of channel and the perimeter of a pond for a total of 19,782 feet. We also cleaned out three catch basins and jetted out three crossline pipes, five driveway pipes, 140 feet of channel pipe, and 214 feet of roadside pipe. Total cost of the project was \$23,523.
- **B.** Confederate Avenue, completed in May in the Alljoy area of Bluffton Township, District 9; we cleaned out 2,314 feet of roadside ditch, repaired a separated joint in a crossline pipe, and jetted out three crossline pipes, 15 driveway pipes, and 90 feet of roadside pipe. Total cost of the project was \$28,844.
- **C. Kitties Landing Road and Drive,** completed in June in Bluffton Township, District 9; we cleaned out 671 feet of roadside ditch and three catch basins and jetted out two access pipes, two crossline pipes, and seven driveway pipes. Total cost of the project was **\$18,021.**
- **D.** Pinckney Colony Road, completed in July in Bluffton Township, District 9; we bush hogged 3,530 feet of channel, cleaned out 5,205 feet of channel, and installed seven access pipes. We also jetted two crossline pipes and seven access pipes. Total cost of the project was \$28,291.
- **E.** Hewlett Road, completed in July on Lady's Island, District 7; we bush hogged 1,583 feet of workshelf and cleaned out three catch basins, 3,891 feet of roadside ditch, and 830 feet of channel. We also jetted one access pipe, nine crossline pipes, and 35 driveway pipes. Total cost of the project was \$40,385.

3. Minor or Routine Projects:

A. Town Of Hilton Head Island Tree Removal (Reimbursement), completed in February within the Town of Hilton Head Island, District 3; we removed fallen trees and debris from channels in three different areas.

- **B.** Hilton Head Airport Main Outfall Channel, completed in July within the Town of Hilton Head Island, District 3; we bush hogged 3,772 feet of channel.
- **C.** Hilton Head Airport Secondary Channels and Ponds, completed in July within The Town of Hilton Head Island, District 3; we bush hogged 4,402 feet of channel, the perimeter of three ponds, and 1,080 feet of fence line. We also removed one tree.
- **D.** Boundary Street (Reimbursement), completed in July within the City of Beaufort, District 1; we cleaned out two catch basins, jetted out 184 feet of channel pipe and 220 feet of roadside pipe, and used the pole camera to view the extent of blockage in the system.
- **E. Keans Neck Road Channel #4,** completed in May in the Dale area, District 5; we bush hogged 1,683 feet of channel, cleaned out 2,666 feet of channel, and jetted one crossline pipe and three access pipes.



Beaufort County Public Works

Stormwater Infrastructure

Project Summary

Project Summary: ToHHI Bush Hog (Reimbursement)

Activity: Routine/Preventive Maintenance

Completion: Mar-14

Narrative Description of Project:

Project improved 19,782 L.F. of drainage system. Bush hogged 19,428 L.F. of channel and perimeter of pond. This project consisted of the following areas: Mathews Drive (8,095 L.F.), Muddy Creek Road (1,637 L.F.), Oakview Road (1,292 L.F.), Nazarene Road (650 L.F.), Wildhorse Road (200 L.F.), Gum Tree Road (3,409 L.F.), Island Drive (819 L.F.), Marshland Road (855 L.F.), Miller Road (1,500 L.F.) and Benjamin Drive (971 L.F.). Cleaned out (3) catch basins. Jetted (3) crossline pipes, (5) driveway pipes, 140 L.F. of channel pipe and 214 L.F. of roadside pipe.

AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
AW / Administrative Work	10.0	\$442.70	\$0.00	\$0.00	\$0.00	\$339.60	\$782.30
CBCO / Catch basin - clean out	20.0	\$432.56	\$221.60	\$155.08	\$0.00	\$286.80	\$1,096.04
CLPJT / Crossline Pipe - Jetted	20.0	\$432.56	\$221.60	\$109.12	\$0.00	\$286.80	\$1,050.08
ODBH / Outfall ditch - bushhogged	327.0	\$7,270.67	\$3,112.12	\$1,229.03	\$0.00	\$4,695.57	\$16,307.38
ONJV / Onsite Job Visit	37.5	\$1,277.52	\$135.75	\$184.59	\$0.00	\$946.10	\$2,543.96
PRRECON / Project Reconnaissance	12.0	\$398.16	\$43.44	\$46.88	\$0.00	\$293.64	\$782.12
WSBH / Workshelf - Bush Hogged	20.0	\$420.88	\$64.80	\$165.62	\$0.00	\$276.50	\$927.80
2014-305A / ToHHI Bush Hog 2014-305A	447.5	\$10,695.50	\$3,799.31	\$1,890.32	\$0.00	\$7,138.23	\$23,523.36
Sub Total							

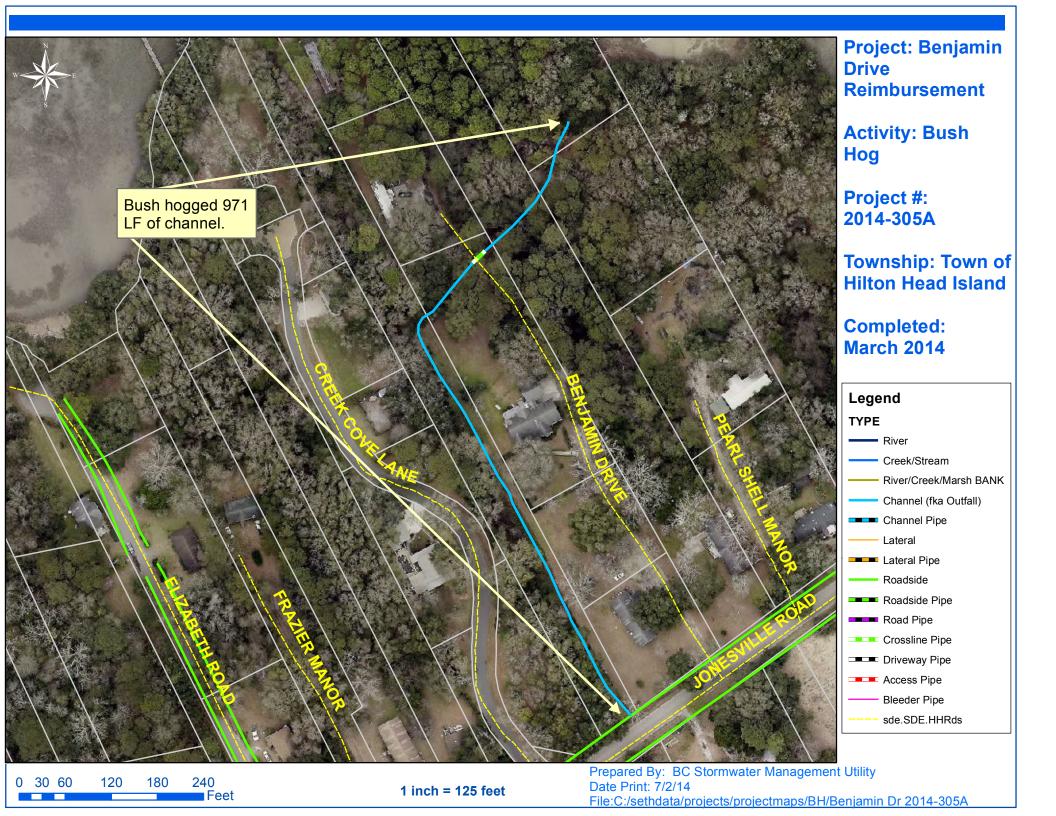
Grand Total	447.5	\$10.695.50	\$3,799,31	\$1.890.32	\$0.00	\$7.138.23	\$23,523,36
Grand Lotal	447.5	310.093.30	35./99.51	31.890.32	50.00	37.138.23	323.323.30

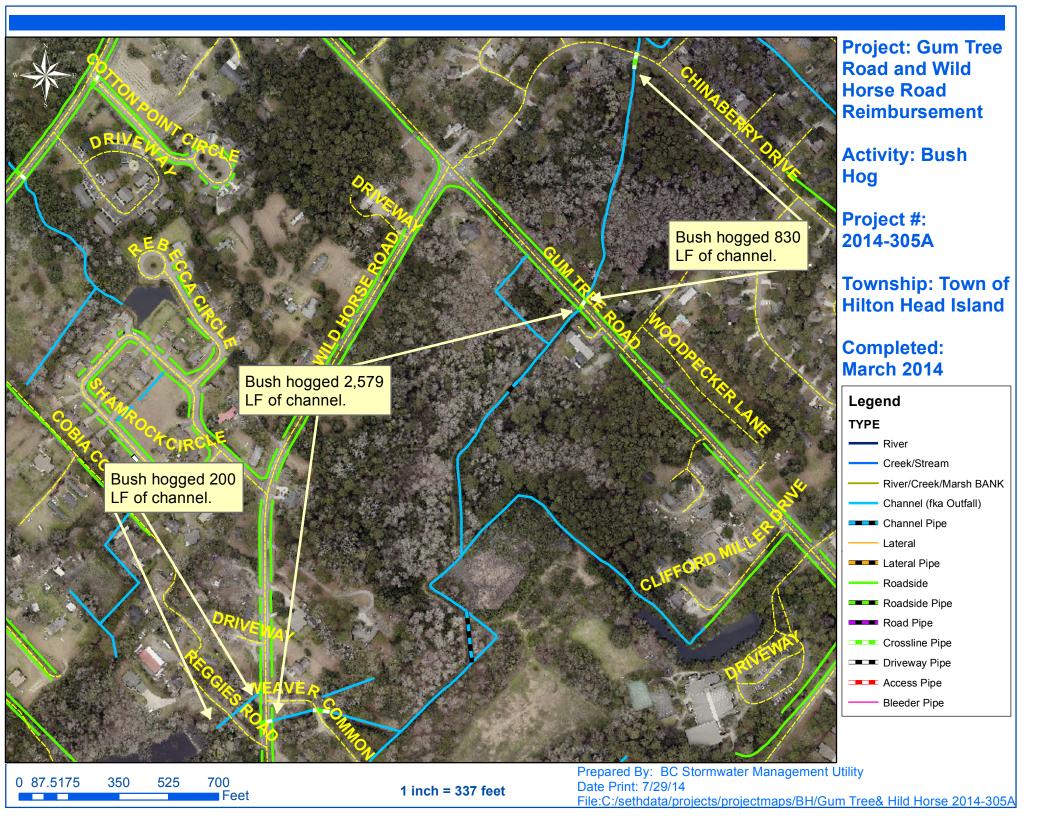


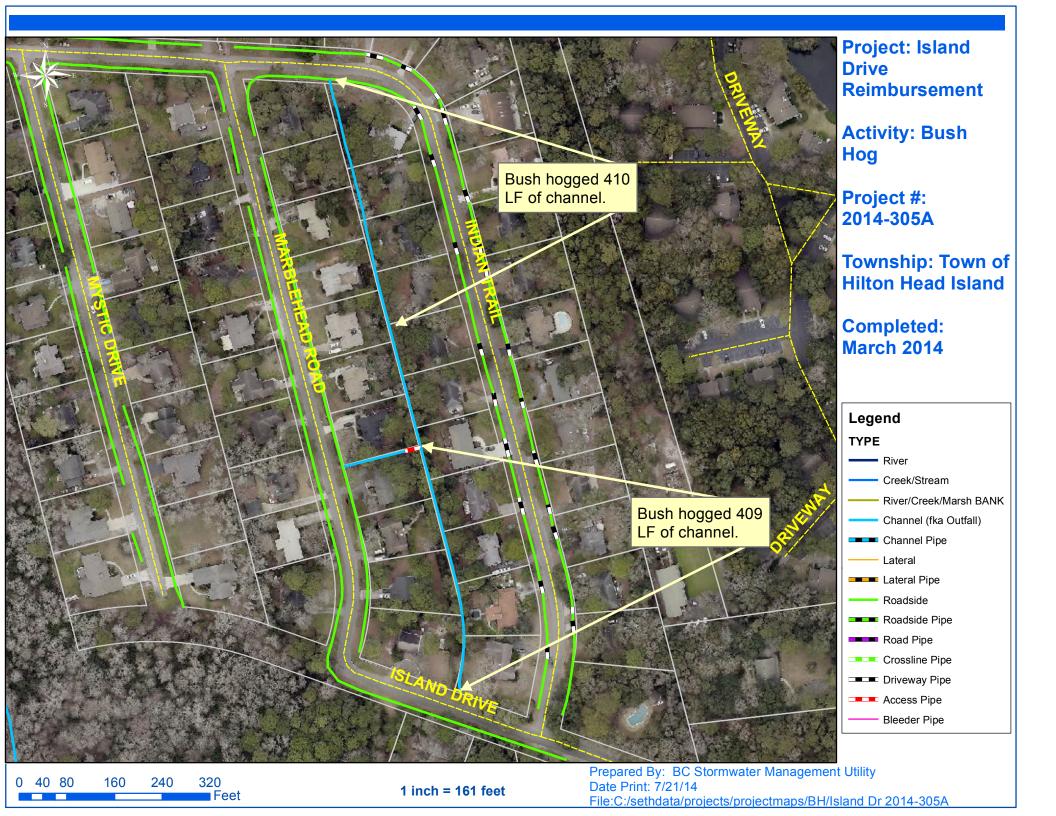


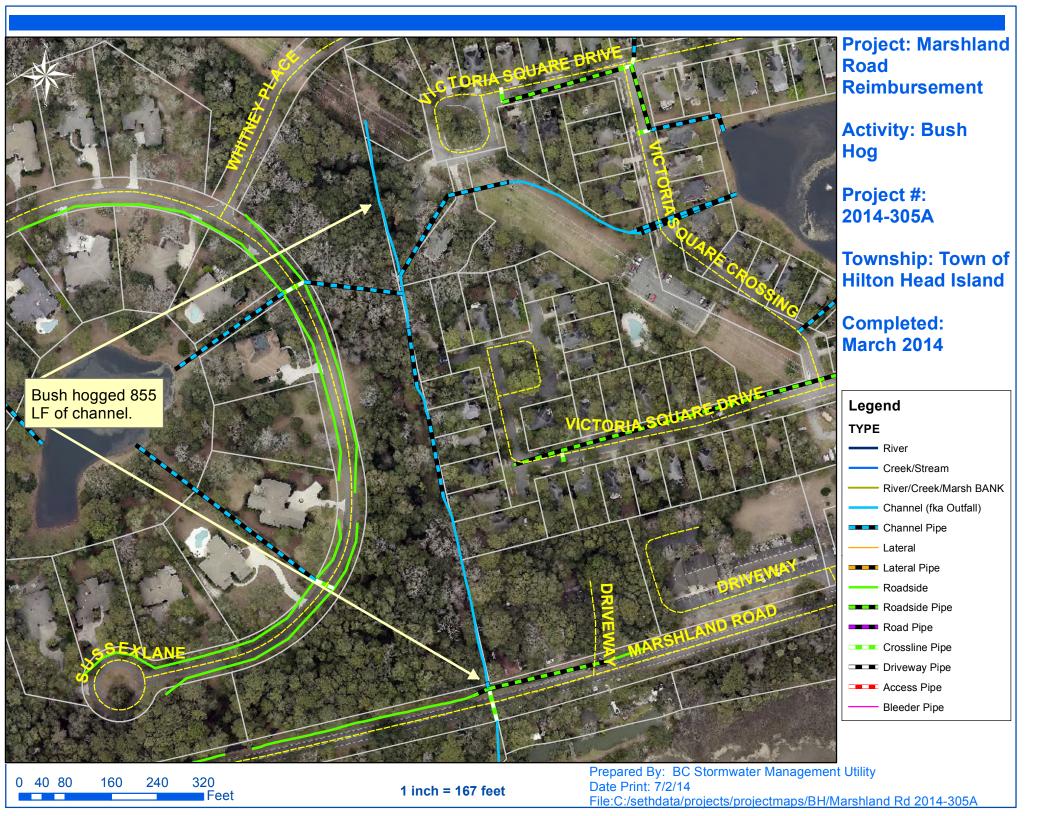


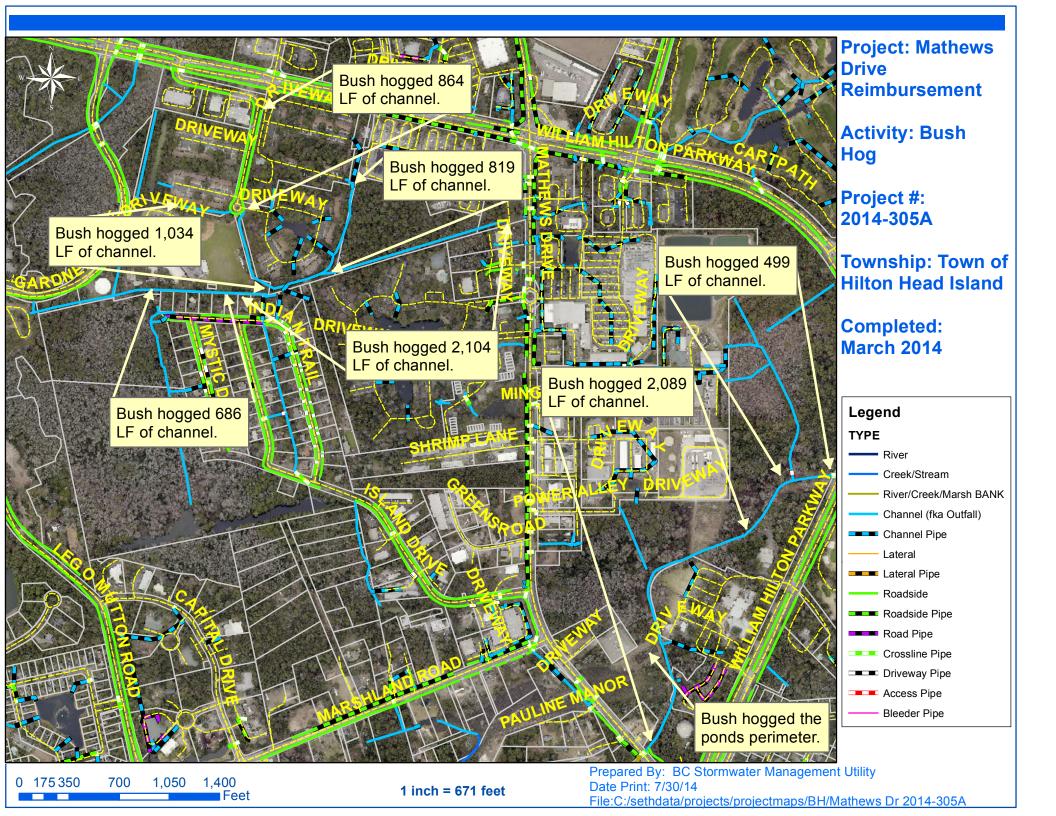


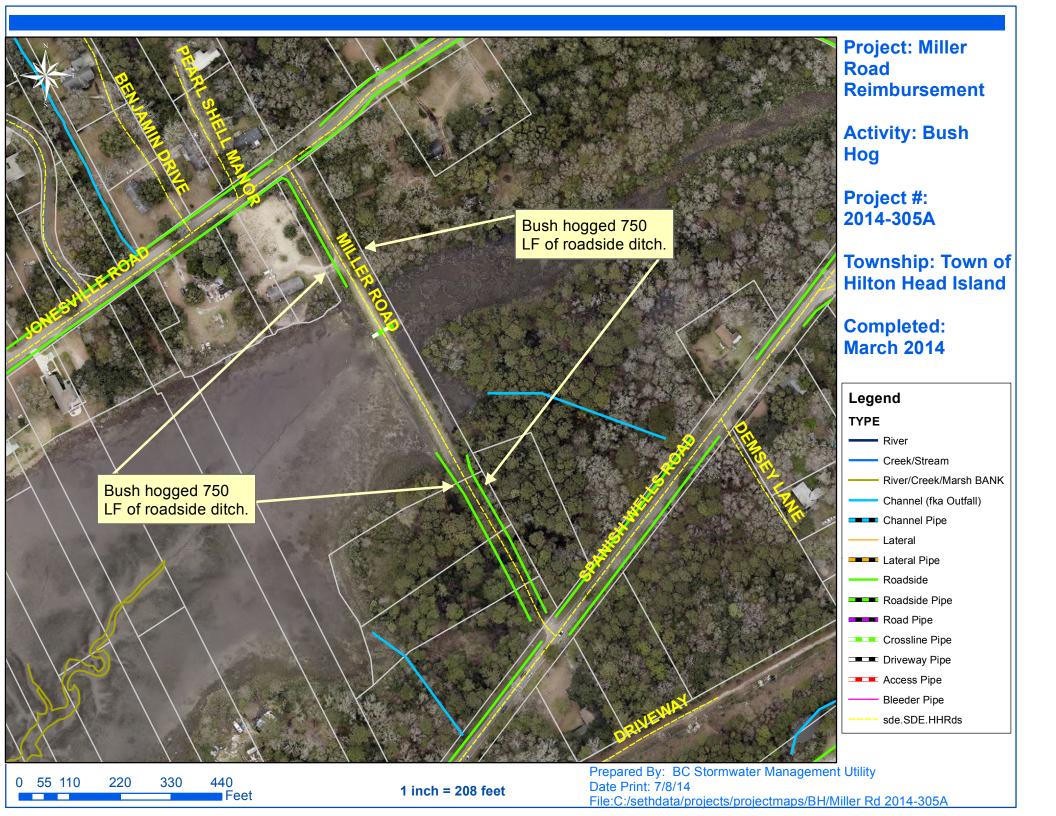


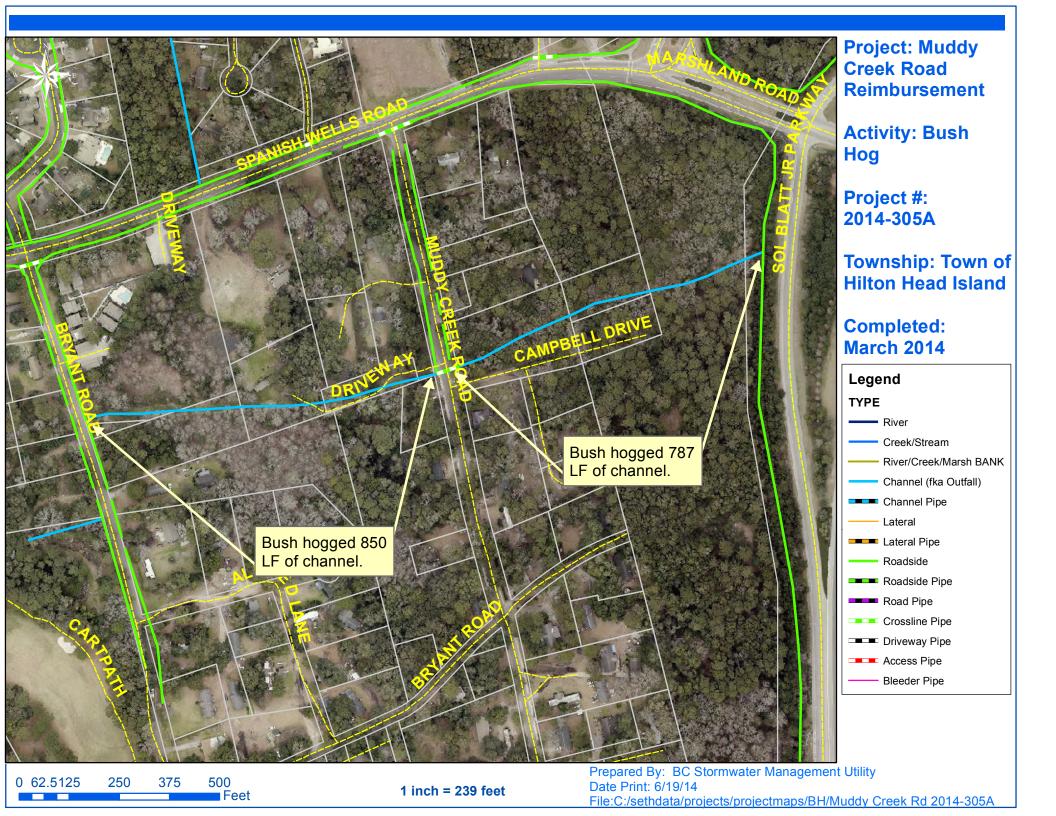


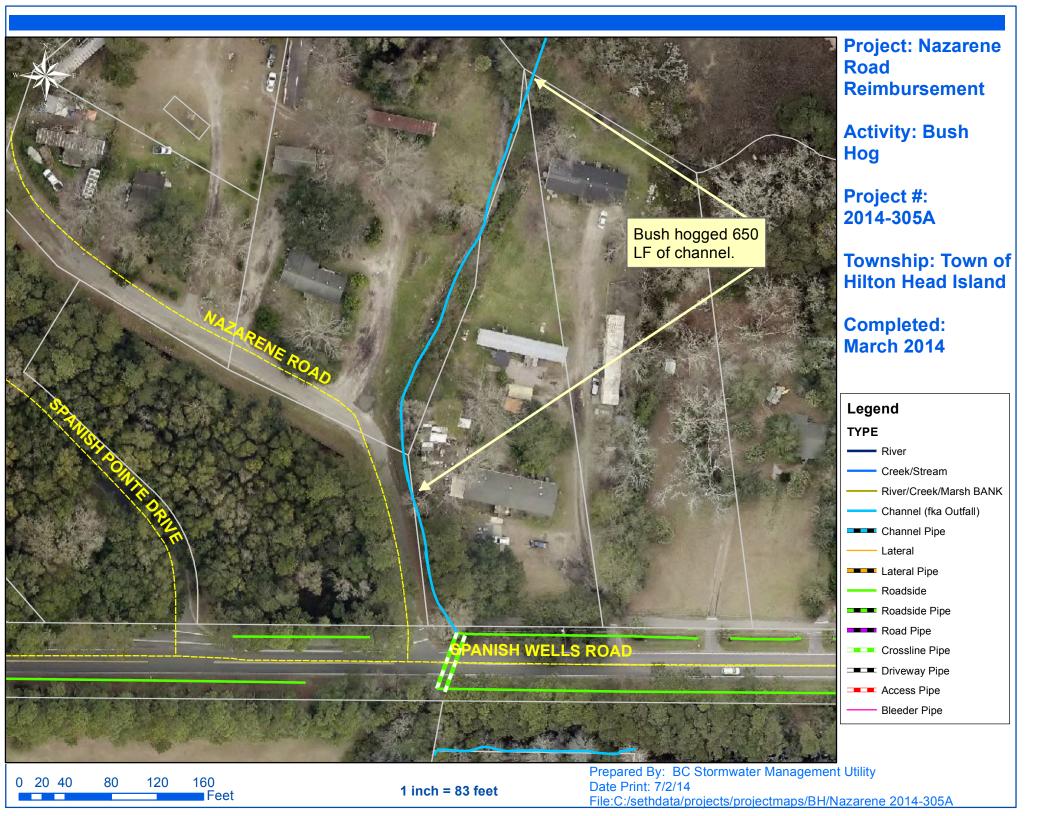


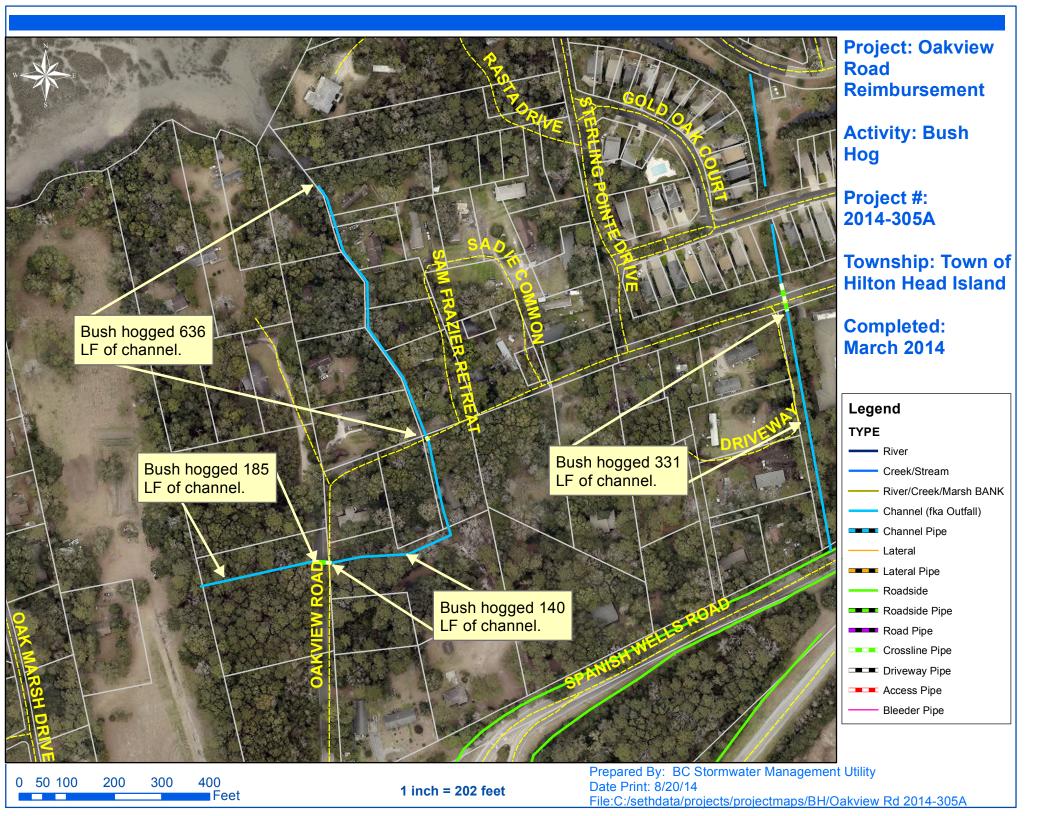


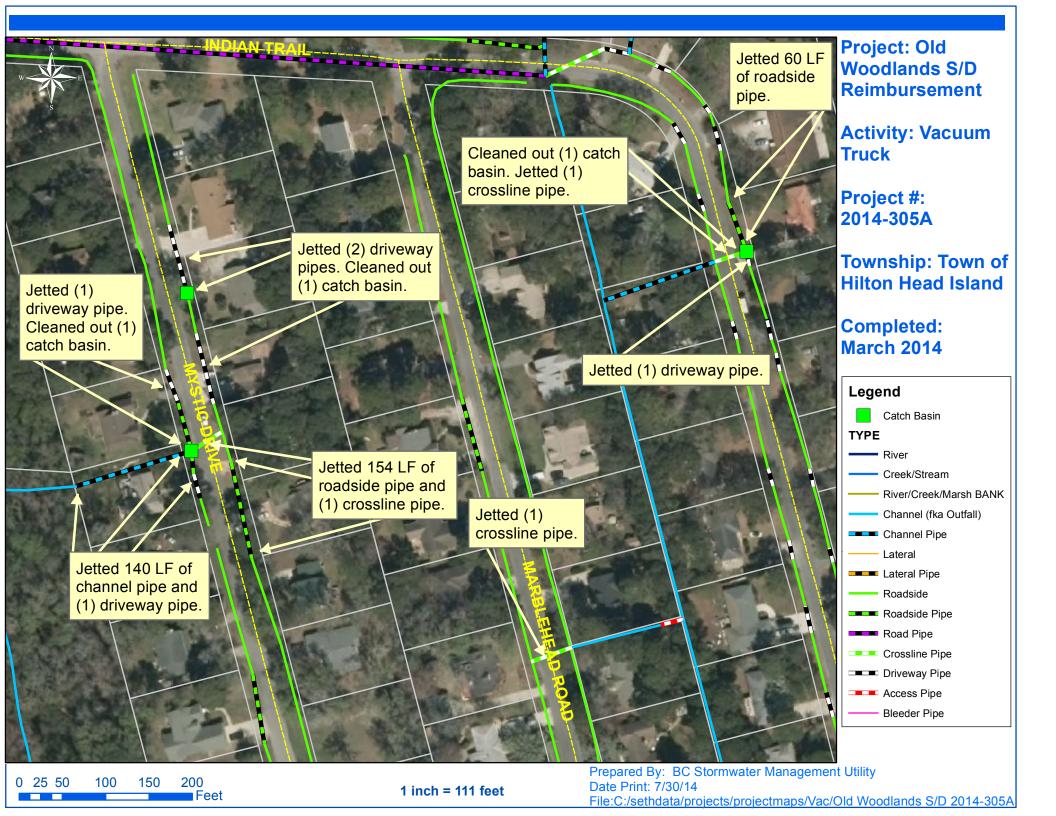














Stormwater Infrastructure

Project Summary

Project Summary: Confederate Avenue

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: May-14

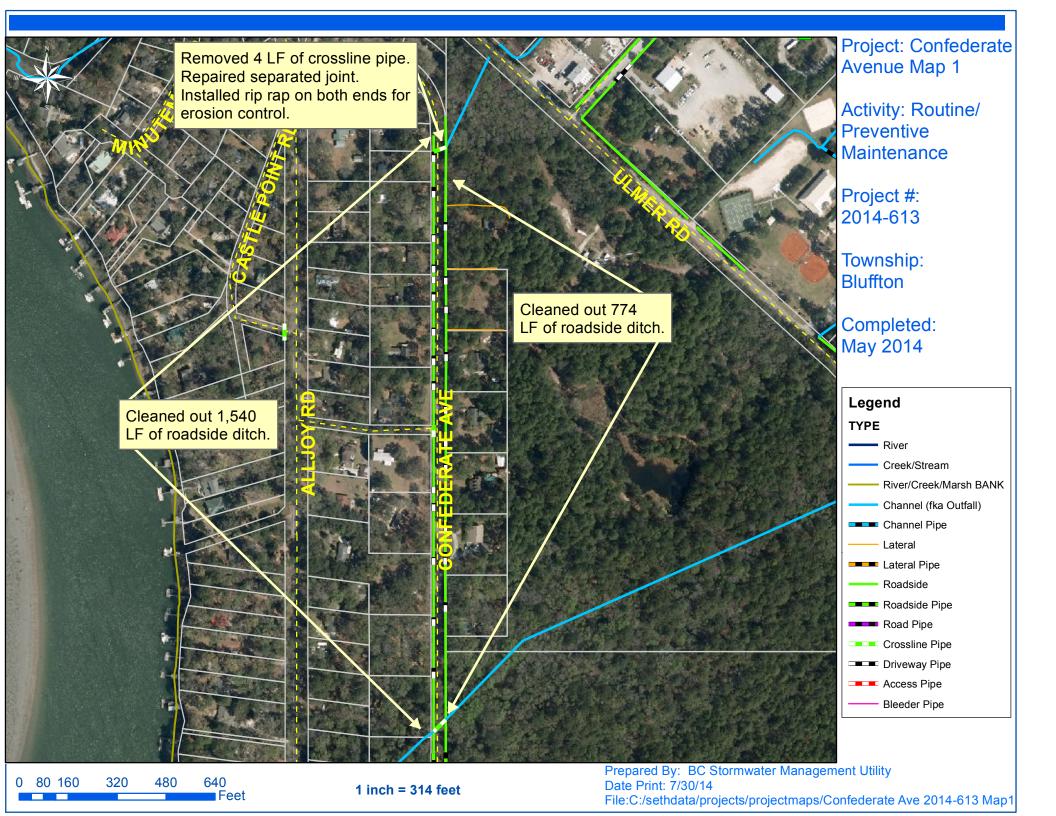
Project improved 2,314 L.F. of drainage system. Cleaned out 2,314 L.F. of roadside ditch. Removed 4 L.F. of crossline pipe. Repaired separated joint. Installed rip rap for erosion control. Jetted (3) crossline pipes and (23) driveway pipes.

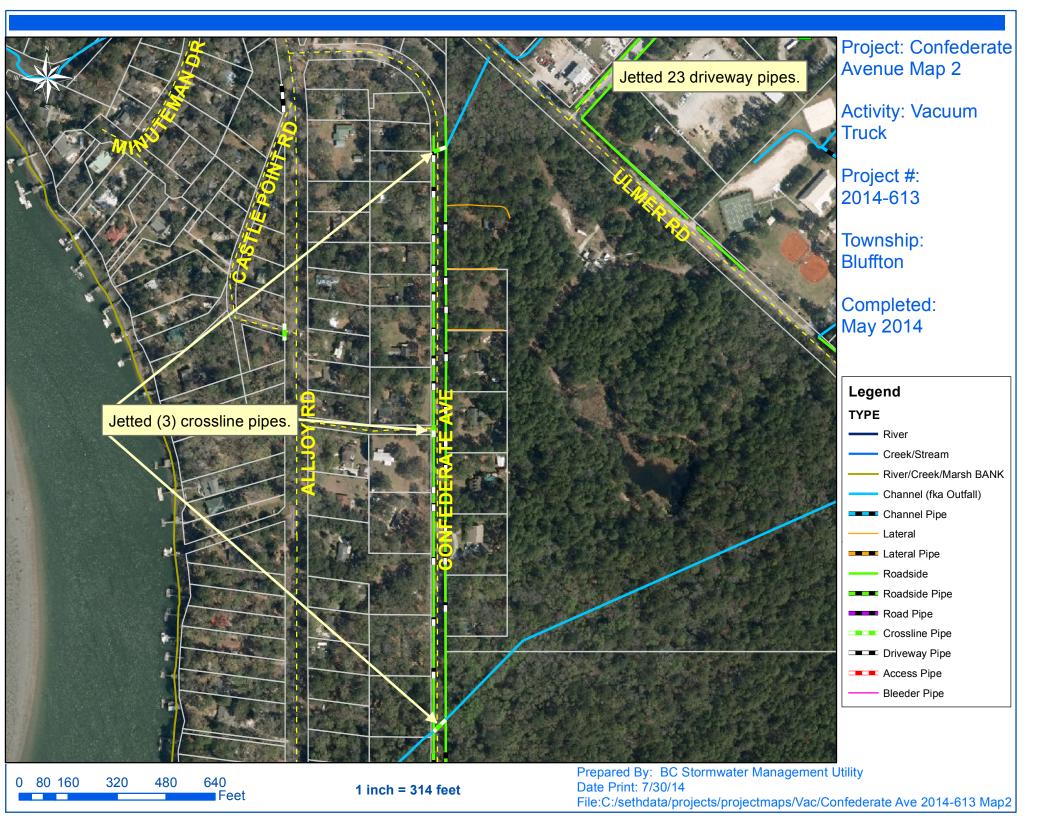
2014-613 / Confederate Avenue	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CPREP / Crossline Pipe - Repaired	32.0	\$692.24	\$28.96	\$85.40	\$0.00	\$449.28	\$1,255.88
DPJT / Driveway Pipe - Jetted	45.5	\$989.94	\$531.84	\$325.57	\$0.00	\$657.80	\$2,505.15
HAUL / Hauling	167.0	\$3,612.21	\$1,786.90	\$888.06	\$0.00	\$2,277.75	\$8,564.92
ONJV / Onsite Job Visit	22.5	\$750.36	\$81.45	\$90.00	\$0.00	\$535.24	\$1,457.05
PI / Project Inspection	4.0	\$177.08	\$14.48	\$12.00	\$0.00	\$135.84	\$339.40
RSDCL / Roadside Ditch - Cleanout	371.0	\$7,888.67	\$1,120.75	\$627.10	\$0.00	\$5,068.32	\$14,704.84
2014-613 / Confederate Avenue	642.5	\$14,120.73	\$3,564.38	\$2,028.13	\$0.00	\$9,130.83	\$28,844.08
Sub Total							
Grand Total	642.5	\$14,120.73	\$3,564.38	\$2,028.13	\$0.00	\$9,130.83	\$28,844.08













Stormwater Infrastructure

Project Summary

Project Summary: Kitties Landing Road/Kitties Landing Drive

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jun-14

Project improved 761 L.F. of drainage system. Cleaned out 671 L.F. of roadside ditch and (3) catch basins. Jetted (3) crossline pipes, (15) driveway pipes and 90 L.F. of roadside pipe.

2014-624 / Kitties Landing Rd/Kitties Landing Dr	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	20.0	\$446.76	\$221.60	\$92.13	\$0.00	\$299.10	\$1,059.59
DPJT / Driveway Pipe - Jetted	6.0	\$134.03	\$66.48	\$50.97	\$0.00	\$89.73	\$341.21
HAUL / Hauling	83.5	\$1,806.11	\$893.45	\$415.29	\$0.00	\$1,092.47	\$4,207.31
OFPJ / Outfall Pipe - Jetted	20.0	\$446.76	\$221.60	\$107.13	\$0.00	\$299.10	\$1,074.59
ONJV / Onsite Job Visit	20.0	\$690.06	\$72.40	\$66.99	\$0.00	\$471.46	\$1,300.91
PL / Project Layout	47.0	\$1,022.59	\$94.12	\$108.78	\$0.00	\$663.93	\$1,889.42
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$109.35	\$0.00	\$109.35
PRRECON / Project Reconnaissance	14.5	\$363.09	\$16.29	\$36.69	\$0.00	\$247.54	\$663.60
RSDCL / Roadside Ditch - Cleanout	160.0	\$3,461.20	\$855.81	\$230.74	\$0.00	\$2,246.40	\$6,794.15
STBY / Stand By	8.0	\$173.04	\$85.60	\$22.89	\$0.00	\$115.36	\$396.89
TRAIN / Training	3.0	\$57.84	\$0.00	\$0.00	\$0.00	\$36.63	\$94.47
UTLOC / Utility locates	1.5	\$42.60	\$0.00	\$0.00	\$0.00	\$30.21	\$72.81
2014-624 / Kitties Landing Rd/Kitties Landing Dr	384.0	\$8,654.30	\$2,527.35	\$1,131.60	\$109.35	\$5,598.54	\$18,021.13
Sub Total							
		40.000	4	** *** **	4	4	4
Grand Total	384.0	\$8,654.30	\$2,527.35	\$1,131.60	\$109.35	\$5,598.54	\$18,021.13

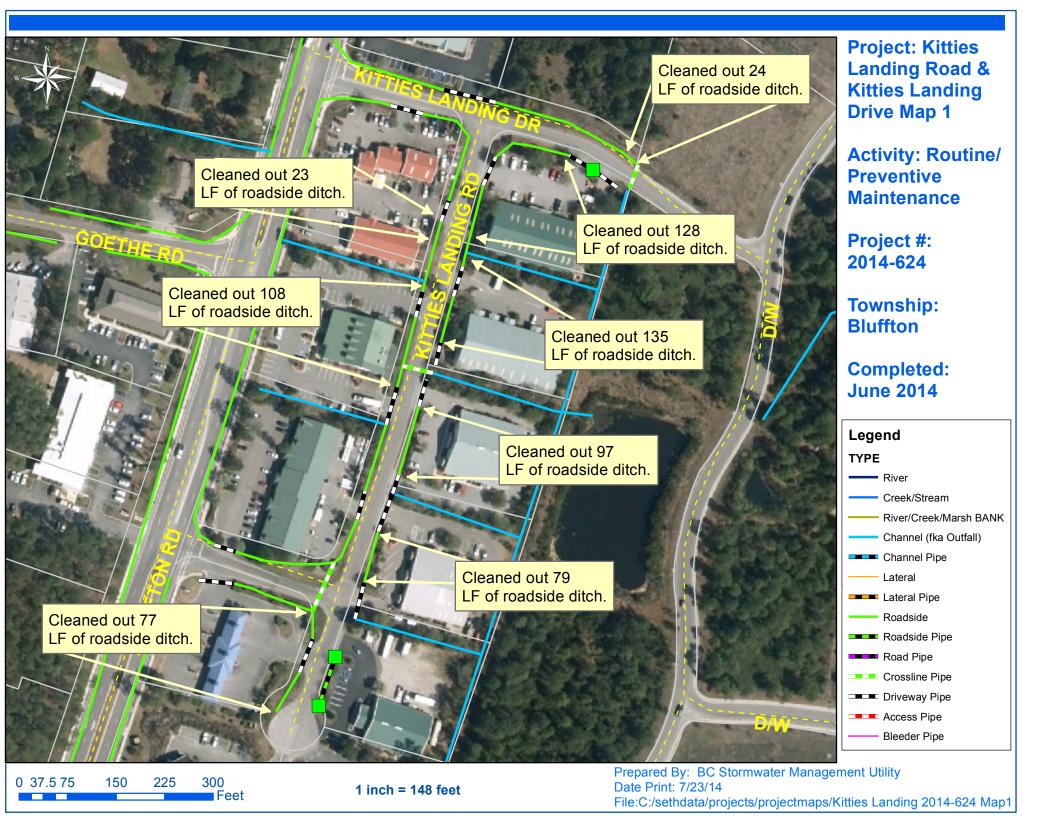


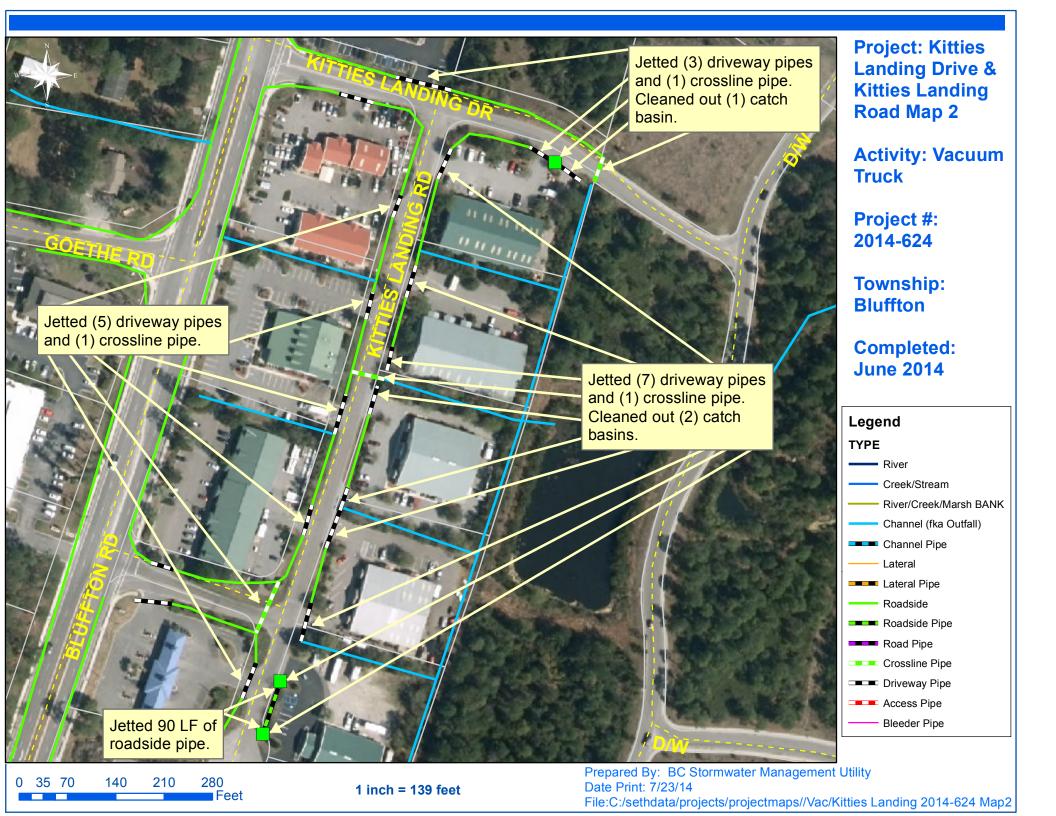
During



After









Project Summary

Project Summary: Pinckney Colony Road Channel #1

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14 Project improved 5,205 L.F. of drainage system. Bush hogged 3,530 L.F. of channel. Cleaned out 5,205 L.F. of channel.

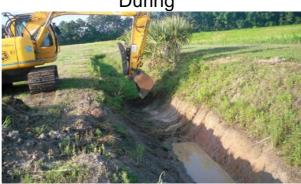
Installed (7) access pipes and rip rap for erosion control. Jetted (2) crossline pipes and (7) access pipes.

2014-631 / Pinckney Colony Rd Channel #1	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
APINS / Access pipe - installed	59.5	\$1,313.11	\$390.48	\$1,045.78	\$0.00	\$873.84	\$3,623.21
APJT / Access pipe - jetted	10.0	\$223.38	\$110.80	\$47.70	\$0.00	\$149.55	\$531.43
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
DLO / Ditch Layout	15.0	\$331.62	\$18.10	\$27.21	\$0.00	\$220.80	\$597.73
HAUL / Hauling	63.0	\$1,344.78	\$642.00	\$1,025.91	\$0.00	\$875.88	\$3,888.57
LM / Loading Materials	30.0	\$687.90	\$363.82	\$174.95	\$0.00	\$463.95	\$1,690.62
ODBH / Outfall ditch - bushhogged	58.0	\$1,289.73	\$526.18	\$313.92	\$0.00	\$860.76	\$2,990.59
ODCO / Outfall ditch - cleaned out	219.0	\$4,873.13	\$1,942.04	\$991.34	\$0.00	\$3,252.51	\$11,059.01
ONJV / Onsite Job Visit	19.5	\$635.12	\$61.54	\$67.20	\$0.00	\$452.58	\$1,216.44
PP / Project Preparation	3.0	\$132.81	\$10.86	\$12.80	\$0.00	\$101.88	\$258.35
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$109.35	\$0.00	\$109.35
RRI / Rip Rap - Installed	20.0	\$458.60	\$195.24	\$123.15	\$0.00	\$309.30	\$1,086.29
STAGING / Staging Materials	6.0	\$137.58	\$10.86	\$26.16	\$0.00	\$92.79	\$267.39
STBY / Stand By	2.0	\$43.26	\$21.40	\$29.43	\$0.00	\$28.84	\$122.93
TRAIN / Training	2.0	\$38.56	\$0.00	\$0.00	\$0.00	\$24.42	\$62.98
WSGRB / Workshelf - Grubbed	18.0	\$397.92	\$61.48	\$27.70	\$0.00	\$264.96	\$752.06
2014-631 / Pinckney Colony Rd Channel #1	526.0	\$11,927.96	\$4,354.80	\$3,913.23	\$109.35	\$7,985.29	\$28,290.63
Sub Total							
- 1- 1				4		4	
Grand Total	526.0	\$11,927.96	\$4,354.80	\$3,913.23	\$109.35	\$7,985.29	\$28,290.63



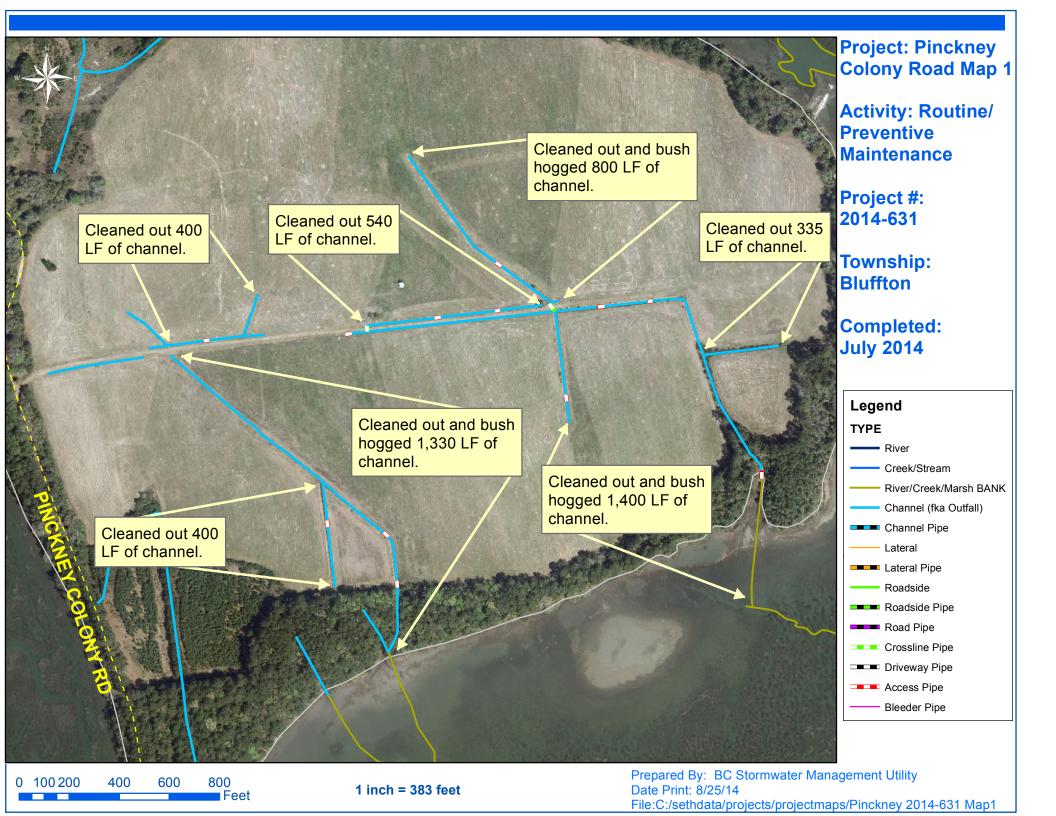


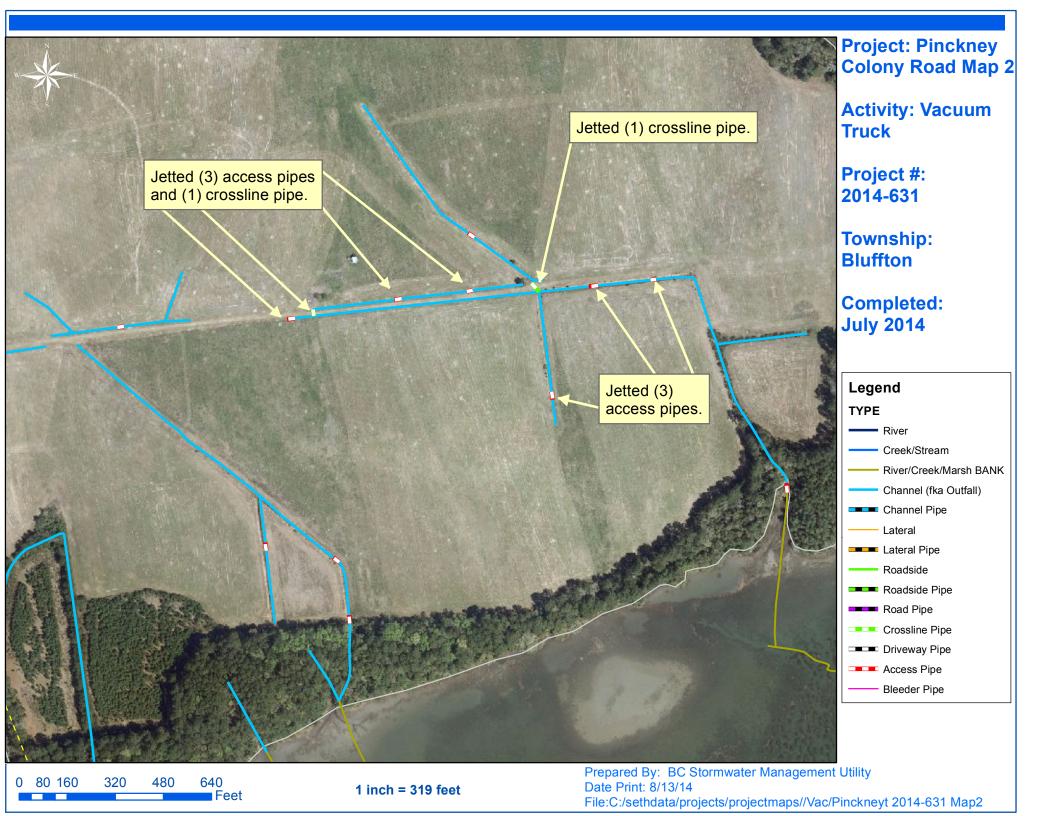
During

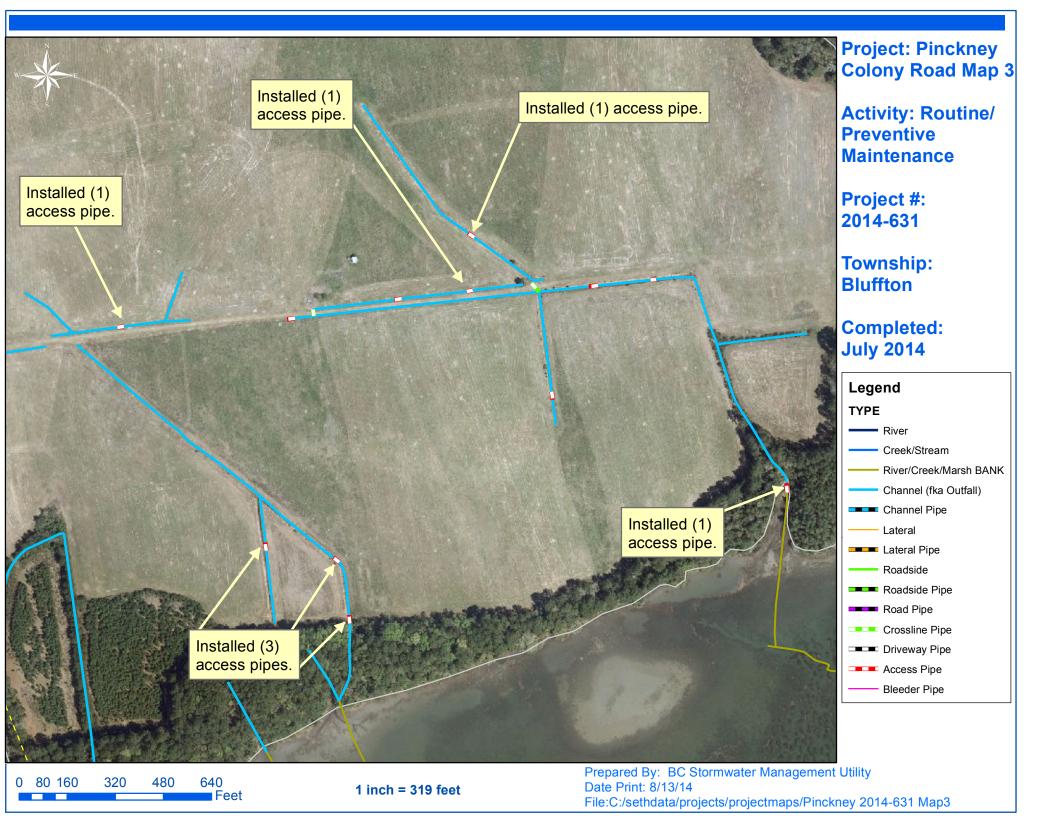


After











Stormwater Infrastructure

Project Summary

Project Summary: Hewlett Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14

Project improved 5,794 L.F. of drainage system. Bush hogged 1,583 L.F. of workshelf. Cleaned out (3) catch basins, 3,891 L.F. of roadside ditch and 830 L.F. of channel. Jetted (1) access pipe, (9) crossline pipes and (35) driveway pipes. Hydroseeded for erosion control.

2014-635 / Hewlett Road	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
CBCO / Catch basin - clean out	12.0	\$268.08	\$132.96	\$73.86	\$0.00	\$179.46	\$654.36
CLPJT / Crossline Pipe - Jetted	26.0	\$580.79	\$288.08	\$140.79	\$0.00	\$388.83	\$1,398.49
DPJT / Driveway Pipe - Jetted	56.0	\$1,255.08	\$664.80	\$253.22	\$0.00	\$831.24	\$3,004.34
HAUL / Hauling	159.0	\$3,403.97	\$1,630.50	\$863.28	\$0.00	\$2,154.91	\$8,052.66
HYDR / Hydroseeding	12.0	\$259.59	\$23.30	\$78.16	\$0.00	\$168.48	\$529.53
ODBH / Outfall ditch - bushhogged	27.0	\$585.25	\$55.75	\$28.54	\$0.00	\$380.91	\$1,050.45
ODCO / Outfall ditch - cleaned out	63.0	\$1,373.40	\$278.03	\$90.21	\$0.00	\$892.83	\$2,634.47
ONJV / Onsite Job Visit	56.0	\$1,871.18	\$202.72	\$208.00	\$0.00	\$1,327.42	\$3,609.32
PI / Project Inspection	1.0	\$44.27	\$3.62	\$3.20	\$0.00	\$33.96	\$85.05
PP / Project Preparation	2.0	\$88.54	\$7.24	\$6.40	\$0.00	\$67.92	\$170.10
RSDCL / Roadside Ditch - Cleanout	427.0	\$9,159.44	\$1,680.49	\$501.18	\$0.00	\$5,964.66	\$17,305.77
TC / Traffic Control - Jobsite	20.0	\$385.60	\$72.40	\$28.80	\$0.00	\$244.20	\$731.00
UC / Utility Coordination	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
UTLOC / Utility locates	2.0	\$88.54	\$7.24	\$9.60	\$0.00	\$67.92	\$173.30
WSBH / Workshelf - Bush Hogged	20.0	\$469.15	\$80.20	\$50.69	\$0.00	\$318.45	\$918.48
2014-635 / Hewlett Road	885.0	\$19,873.80	\$5,127.33	\$2,335.92	\$0.00	\$13,047.65	\$40,384.69
Sub Total							
Grand Total	885.0	\$19,873.80	\$5,127.33	\$2,335.92	\$0.00	\$13,047.65	\$40,384.69

Before

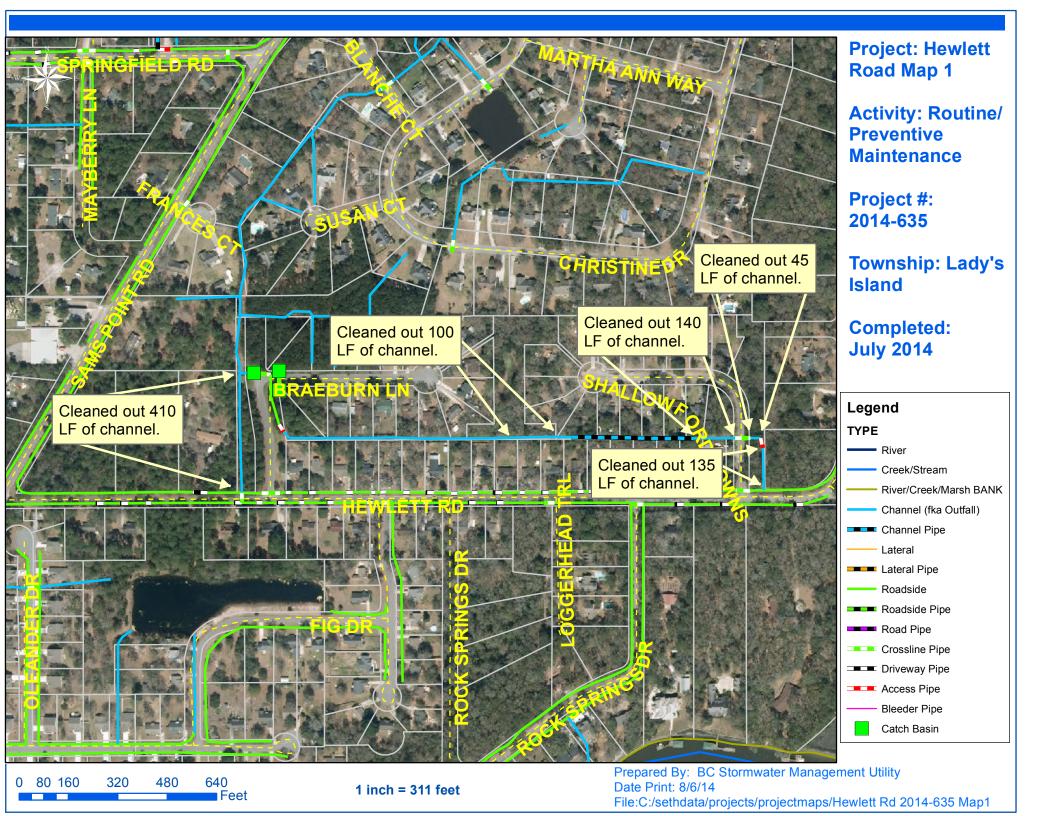


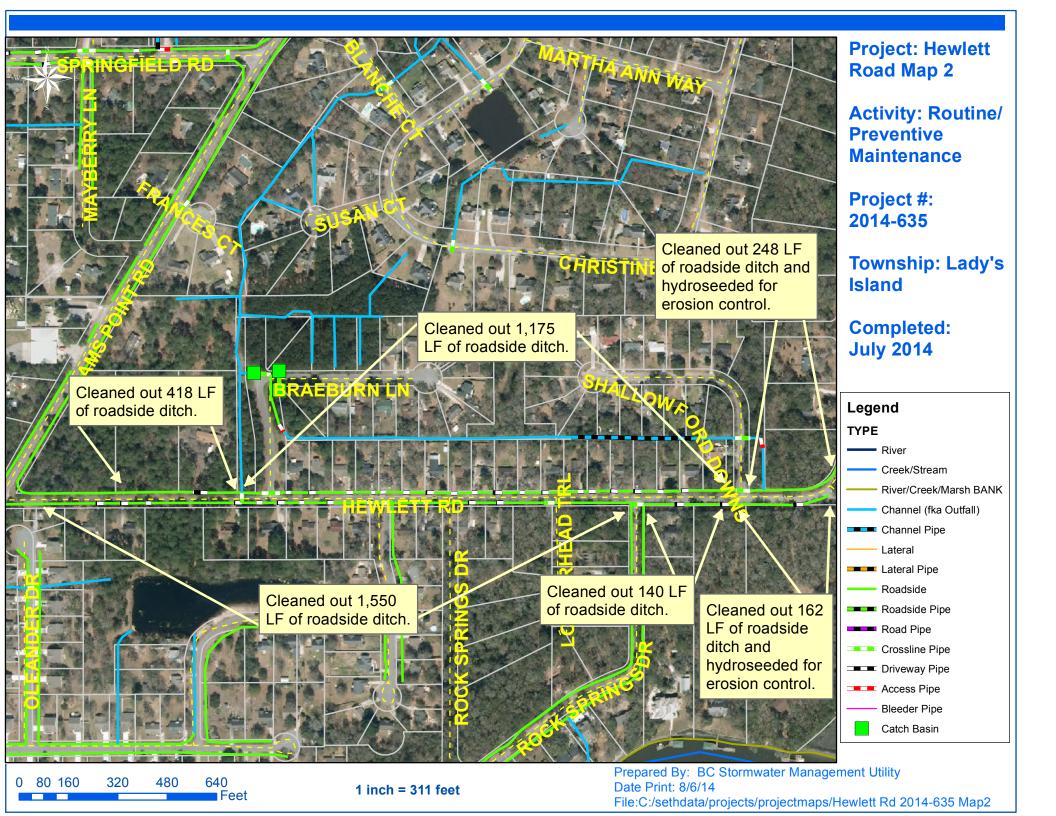
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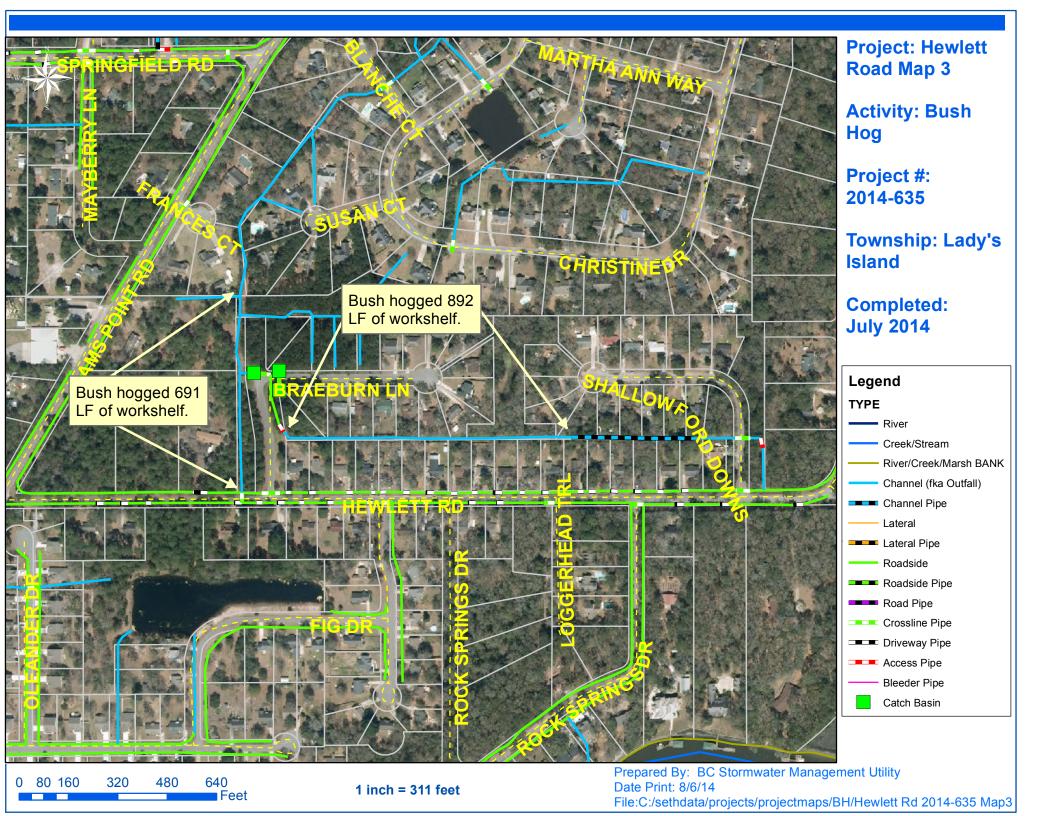


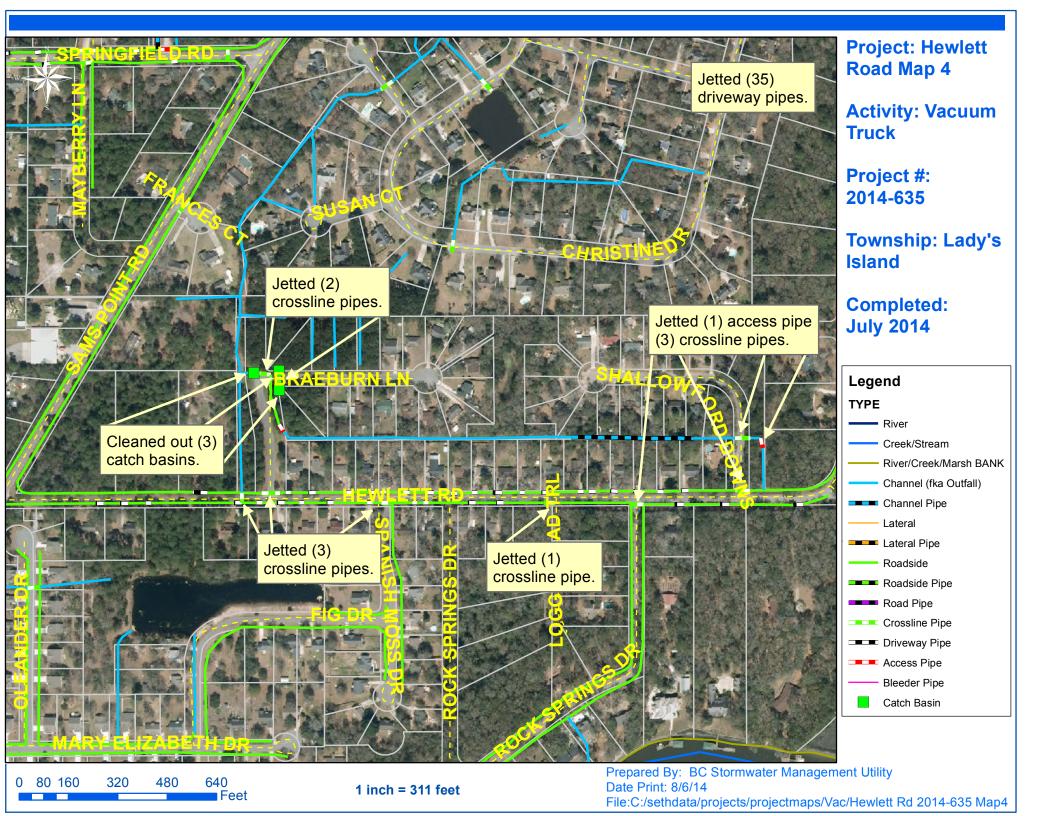
After













Project Summary

Project Summary: ToHHI -Tree Removal (Reimbursement) - Oakview Drive, Matthew Drive,

and Gum Tree Road

Narrative Description of Project:

Removed fallen trees and debris from workshelf and channel.

Activity: Routine/Preventive Maintenance

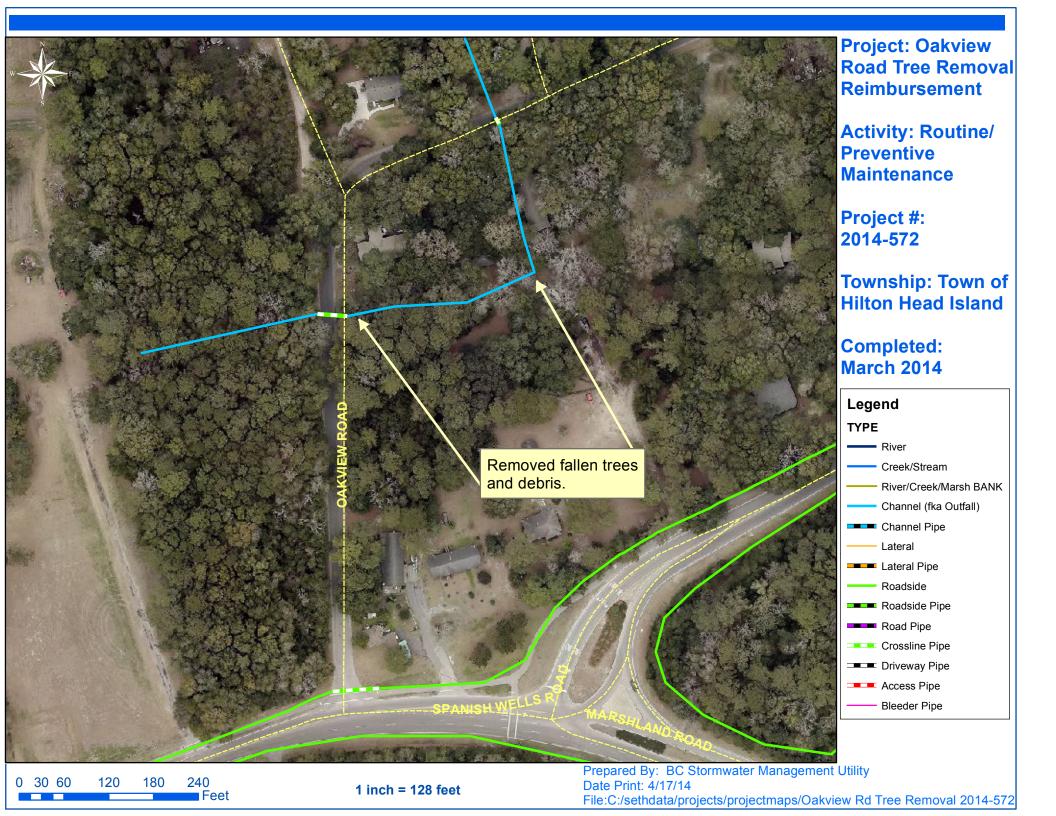
Completion: Feb-14

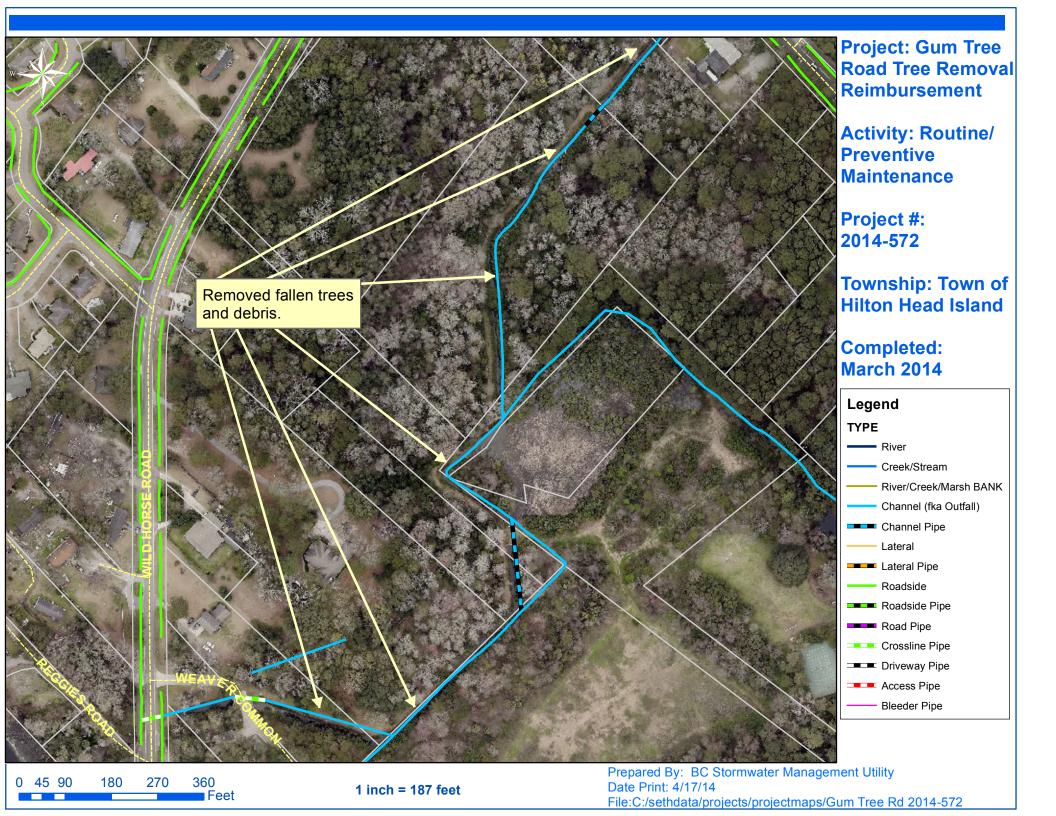
2014-572 / ToHHI -Tree Removal	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
AW / Administrative Work	2.0	\$88.54	\$0.00	\$0.00	\$0.00	\$67.92	\$156.46
HAUL / Hauling	79.5	\$1,790.09	\$840.03	\$1,168.37	\$0.00	\$1,164.80	\$4,963.28
ONJV / Onsite Job Visit	20.0	\$640.09	\$72.40	\$91.52	\$0.00	\$411.79	\$1,215.80
RMTRD / Remove trees - Ditch	40.0	\$865.27	\$157.56	\$109.56	\$0.00	\$563.30	\$1,695.69
RMTRW / Remove trees - Workshelf	80.0	\$1,812.67	\$310.17	\$165.00	\$0.00	\$1,164.70	\$3,452.54
2014-572 / ToHHI -Tree Removal	222.5	\$5,217.11	\$1,380.16	\$1,534.45	\$0.00	\$3,385.73	\$11,517.46
Sub Total							
Grand Total	222.5	\$5,217.11	\$1,380.16	\$1,534.45	\$0.00	\$3,385.73	\$11,517.46















Project Summary

Project Summary: Hilton Head Airport Channel

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14

Project improved 3,772 L.F. of drainage system. Bush hogged 3,772 L.F. of channel.

2015-305 / Hilton Head Airport Channel	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project ODBH / Outfall ditch - bushhogged ONJV / Onsite Job Visit	0.5 31.0 9.0	\$10.23 \$677.52 \$298.62	\$0.00 \$309.48 \$32.58	\$0.00 \$211.00 \$22.40	\$0.00 \$0.00 \$0.00	\$6.62 \$450.93 \$220.23	\$16.85 \$1,648.93 \$573.83
2015-305 / Hilton Head Airport Channel Sub Total	40.5	\$986.37	\$342.06	\$233.40	\$0.00	\$677.78	\$2,239.61
Grand Total	40.5	\$986.37	\$342.06	\$233.40	\$0.00	\$677.78	\$2,239.61

Before



During



After







Project Summary

Project Summary: Hilton Head Airport Channel

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14

Project improved 5,482 L.F. of drainage system. Bush hogged 4,402 L.F. of channel, perimeter of (3) ponds and 1,080 L.F. of fence line. Removed (1) tree.

2015-305A / Hilton Head Airport Channel	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
ODBH / Outfall ditch - bushhogged	63.0	\$1,369.62	\$620.84	\$288.97	\$0.00	\$909.81	\$3,189.24
PDBH / Ponds - bushhogged	40.0	\$865.16	\$325.84	\$126.08	\$0.00	\$573.60	\$1,890.68
PI / Project Inspection	2.0	\$88.54	\$7.24	\$12.80	\$0.00	\$67.92	\$176.50
2015-305A / Hilton Head Airport Channel	105.5	\$2,333.55	\$953.92	\$427.85	\$0.00	\$1,557.95	\$5,273.26
Sub Total							
Grand Total	105.5	\$2,333.55	\$953.92	\$427.85	\$0.00	\$1,557.95	\$5,273.26











Project Summary

Project Summary: City of Beaufort - Boundary Street (Reimbursement)

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14

Project improved 404 L.F. of drainage system. Cleaned out (2) catch basins. Jetted 184 L.F. of channel pipe and 220 L.F. of roadside pipe. Pole Camera used to view extent of blockage in drainage system.

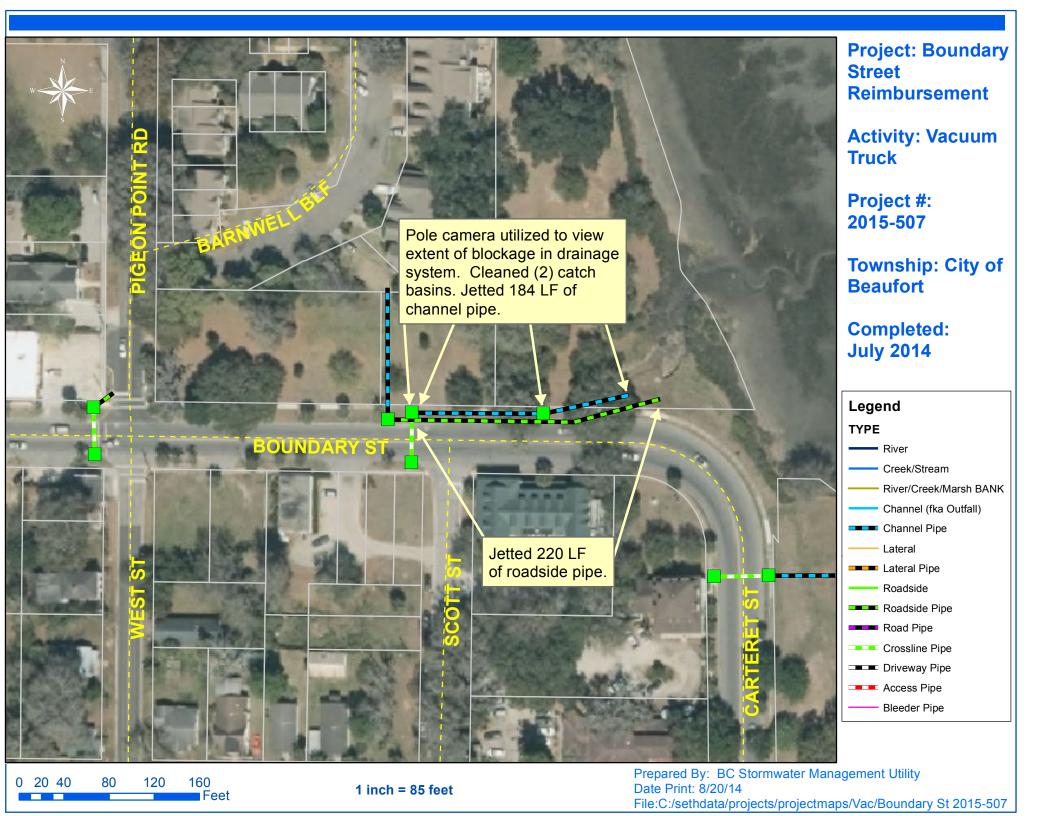
2015-507 / City of Beaufort - Boundary St	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CBCO / Catch basin - clean out	28.0	\$619.78	\$310.24	\$167.91	\$0.00	\$413.82	\$1,511.75
ESTP / Estimating Project	2.0	\$88.54	\$0.00	\$0.00	\$0.00	\$67.92	\$156.46
SD / Soft Digging	16.0	\$355.49	\$214.68	\$111.99	\$0.00	\$237.60	\$919.76
2015-507 / City of Beaufort - Boundary Stre	46.5	\$1,074.04	\$524.92	\$279.90	\$0.00	\$725.96	\$2,604.82
Sub Total							
Grand Total	46.5	\$1,074.04	\$524.92	\$279.90	\$0.00	\$725.96	\$2,604.82













Stormwater Infrastructure

Project Summary

Project Summary: Keans Neck Road Channel #4

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14

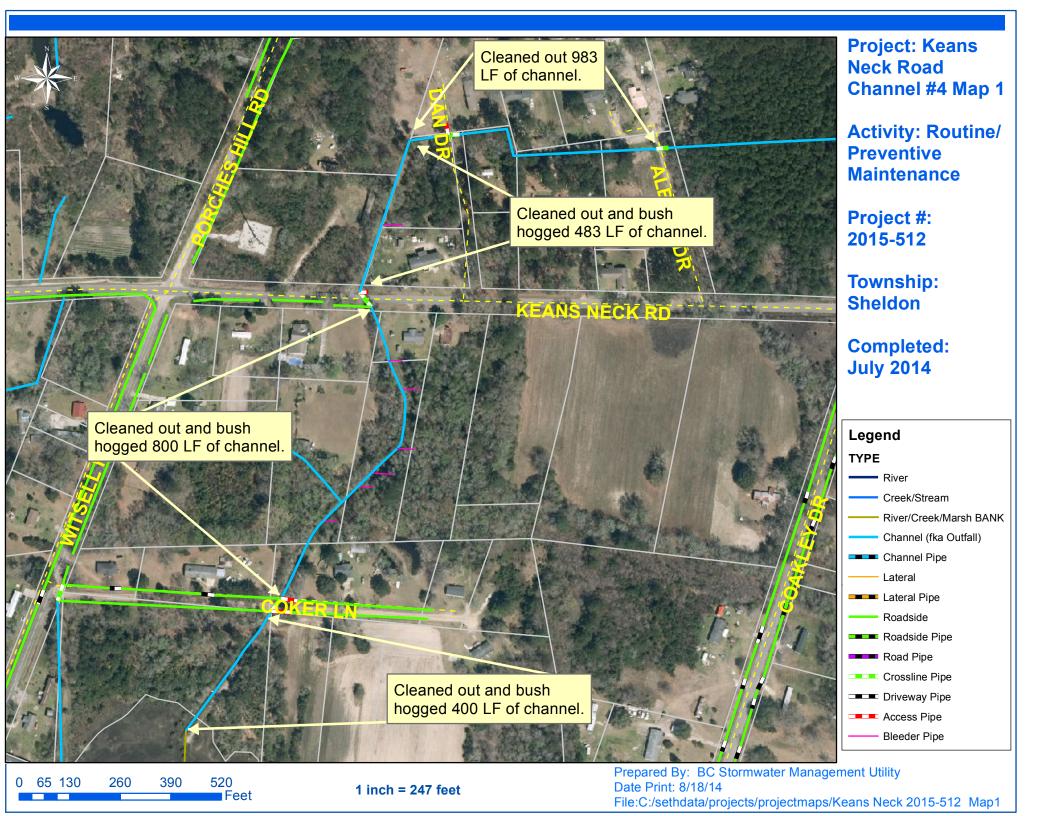
Project improved 2,666 L.F. of drainage system. Bush hogged 1,683 L.F. of channel. Cleaned out 2,666 L.F. of channel. Jetted (1) crossline pipe and (3) access pipes.

2015-512 / Keans Neck Road Channel #4	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APJT / Access pipe - jetted	18.0	\$402.08	\$199.44	\$98.98	\$0.00	\$269.19	\$969.69
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	47.0	\$1,074.76	\$502.90	\$298.37	\$0.00	\$662.04	\$2,538.07
ODBH / Outfall ditch - bushhogged	22.0	\$473.53	\$444.49	\$111.09	\$0.00	\$313.52	\$1,342.63
ODCO / Outfall ditch - cleaned out	97.0	\$2,191.34	\$987.18	\$204.38	\$0.00	\$1,267.13	\$4,650.02
ONJV / Onsite Job Visit	17.0	\$572.88	\$61.54	\$67.20	\$0.00	\$410.01	\$1,111.63
PP / Project Preparation	2.0	\$88.54	\$7.24	\$9.60	\$0.00	\$67.92	\$173.30
UTLOC / Utility locates	2.0	\$40.92	\$8.04	\$9.60	\$0.00	\$26.46	\$85.02
2015-512 / Keans Neck Road Channel #4 Sub Total	205.5	\$4,854.28	\$2,210.83	\$799.21	\$0.00	\$3,022.88	\$10,887.21
Grand Total	205.5	\$4,854.28	\$2,210.83	\$799.21	\$0.00	\$3,022.88	\$10,887.21











TOWN COUNCIL

STAFF REPORT Department of Engineering & Public Works Stormwater Management Division



DATE:	August 5, 2014
SUBJECT:	May River Update – No Wake Zone Establishment
STAFF:	Kim Jones, Director, Stormwater Management Division

Request: Staff requests Town Council's guidance in determining the extent of a "No Wake Zone" request for the public landing.

<u>Background:</u> In September 2013, at Council's direction, staff reported the current protocol for how an individual may request a designated "No Wake Zone" from the South Carolina Department of Natural Resources (DNR). The information has been posted on the Town's website since that time.

As part of the Strategic Planning process, Council stated that establishing a "No Wake Zone" at the Public Landing was a top priority as part of its Policy Agenda for 2014.

<u>Analysis:</u> All boaters should be aware that per South Carolina Code of Laws SECTION 50-21-870 Personal watercraft and boating safety,

(B)(6) No Person may operate a personal watercraft, specialty properaft, or vessel while upon the waters of this State in excess of idle speed within 50 feet of a moored or an anchored vessel, wharf, dock, bulkhead, pier, or a person in the water, or within 100 yards of the Atlantic Ocean coast line. The prohibitions contained in this item (6) do not apply to an unoccupied, moored vessel or watercraft.

However, based upon reading South Carolina Code of Laws SECTION 50-21 Equipment and Operation of Watercraft, as well as staff discussions with the DNR staff responsible for processing "no wake zone" requests, there is no standard "no wake zone" distance around a public landing. Each request is investigated by DNR staff to determine if a "no wake zone" is needed and to what area it may apply.

Based upon previous public comments, there are multiple "no wake zone" options for Council's consideration.

1. Immediately surrounding the Oyster Factory Park landing (Attachment 1).

- 2. Extending from the Oyster Factory Park landing to the Calhoun Street dock (Attachment 2).
- 3. Extending the entire length of the Historic Presevation Overlay District (Attachment 3).
- 4. Other location as described by Town Council.

<u>Next Steps:</u> Following Council's determination of the extent of the "No Wake Zone" request, staff will prepare and submit a formal request to DNR and await notification of the determination to share with Council.

Attachments:

- 1. Proposed No Wake Zone Oyster Factory Park landing
- 2. Proposed No Wake Zone Oyster Factory Park landing to Calhoun Street dock
- 3. Proposed No Wake Zone The Historic Presevation Overlay District







Lisa Sulka

Mayor

Oliver Brown

Mayor Pro Tempore

Anthony Barrett

Town Manager



Council Members
Michael Raymond
Ted Huffman
Karen Lavery
Sandra Lunceford
Town Clerk

September 16, 2013

RE: Establishing a No Wake Zone

The procedure to request a no wake zone from the SC Department of Natural Resources (DNR) has been stream-lined from the cumbersome process of the past. No petition or resolution from a local municipality, nor support from the state legislature, is required any longer.

Any individual may request the establishment of a no wake zone by submitting a written request (via post or email) containing the following information:

- 1. An explanation as to why the no wake zone is needed, and
- 2. A map depicting the area in which the no wake zone is requested. This can be as simple as printing a map from online and highlighting the desired area.

The above materials should be sent to Mr. Donny Pritchard, P.O. Box 12559, Charleston, SC 29422 or via email to elliss@dnr.sc.gov.

Upon receipt of the request, a DNR investigator familiar with the area will evaluate the situation at various days/times and make a determination on the request.

The Island Packet

Previous Story Next Story

Bluffton should help get no-wake zones in place

By IslandPacket

info@islandpacket.comSeptember 13, 2013

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Blufftonian Dyane Lee demonstrates how she had to brace herself in order to keep from falling off her dock when the wake from a speeding boat hit it recently. To prevent such incidents in the future, Lee would like to see her area of the May River made into a no wake zone. The zone would run between the Bluffton Oyster Company on Wharf Street and public dock on Calhoun Street.

JAY KARR — Staff photo Buy Photo

Bluffton officials are correct in pointing out that it doesn't take town action to get a no-wake zone established in the May River.

But that doesn't mean the town shouldn't be involved. Establishing a no-wake zone in the vicinity of All Joy Landing and the Bluffton Oyster Co. landing was one of 11 priorities in the May River Waterbody Management Plan adopted in 2008. The issue goes back much farther than that, and five years seems a long time to wait to address a "priority."

Dock owners along the May River asked for help from the town in August. They complain that boats are regularly creating damaging wakes. They have good reason to complain. Wakes can toss around docks, boats tied to the docks and people standing on them.

And it's not just private property that gets hurt when boats travel too fast in our tidal creeks and rivers. More and more boats traveling our waterways mean more damaging wakes that erode shellfish beds and fragile, but critical, protective shorelines.

In 2007, the state Department of Natural Resources conducted a study on the impact of boat wakes in the New and Cooper rivers. The department found that some banks were eroding as much as 4 feet a year even in areas that didn't see a lot of boat traffic.

Researchers knew small creeks and estuaries changed shape naturally over time, but concerns about the impact of boats raised questions about how much they exacerbate erosion problems.

Mayor Lisa Sulka said of the residents' request for town help, "If each request is looked at the same, then there's no reason to stir the pot. For every 10 people who want a no-wake zone, I've got 10 more who don't."

Sulka and Town Council should be leading the way on appropriate no-wake zones, not avoiding the issue because someone objects.

Why does the town set priorities if only to ignore them?

A more streamlined process to get no-wake zones established is very welcome news. Previously, it took legislative action, a potentially tedious and acrimonious process.

Acrimony certainly was evident in 1998 when the legislature took up no-wake zones in Broad Creek on Hilton Head Island. Then-state Sen. Holly Cork of Hilton Head objected to every House bill that moved to the Senate, stalling more than 40 bills, after the House tabled her version of a no-wake measure that included a ban on boats anchoring within 100 feet of a private dock. Cork removed her objections once the no-wake bill was revived (without the no-anchoring provision).

Today, DNR is responsible for setting no-wake zones. The agency considers criteria that include channel size, boat traffic and water depth. When a request is received, a DNR investigator evaluates the area at high and low tides. A determination could be made within eight weeks. The zones are not automatic; the agency received 44 requests last year, but only granted three.

The town should help determine where no-wake zones would be most effective and help with the process of getting them established, especially since the town's Police Department would help enforce them.

Bluffton officials ought to consider the damage caused by excessive wakes as part of their push to protect the May River from environmental harm.

In the meantime, boaters should know that they are supposed to go no faster than idle speed within 50 feet of a moored or anchored vessel; a wharf, dock, bulkhead or pier; or a person in the water. That's state law, and it's too often ignored.

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Join The Conversation

The Island Packet is pleased to provide this opportunity to share information, experiences and observations about what's in the news. Some of the comments may be reprinted elsewhere in the site or in the newspaper. We encourage lively, open debate on the issues of the day, and ask that you refrain



BEAUFORT COUNTY STORMWATER UTILITY 120 Shanklin Road



Beaufort, South Carolina 29906 Voice (843) 255-2801 Facsimile (843) 255-9478

October 1, 2014

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Utility Update

- 1. The Utility has added a new employee. Kevin Pitts started last week. Kevin will serve as a Stormwater Utility Inspector, assisting Danny Polk with duties related to monitoring, project management, and MS4 permit implementation. He is a graduate of Tennessee Tech University with a B.S. in wildlife and fisheries science. Most of Kevin's work at the university was concentrated in fisheries science with water quality being a large component of those studies. Prior to joining Beaufort County's Stormwater Utility staff, he was a Biologist with SC-DNR, spending the past year working collaboratively with researchers and county officials to determine the sensitivity of Beaufort County tidal creeks to freshwater runoff. Part of his responsibilities was to develop protocols for a monitoring program of several waters in Beaufort County. He helped design and implement the program to measure tidal cycle, salinity, dissolved oxygen, and flow rate of several creek systems in the county and was responsible for data collection, management, and logistics of field work in four watersheds simultaneously. One of the first steps to getting the project off the ground was establishing mutually supportive relationships with property owners to allow monitoring equipment on their property.
- 2. Board Vacancies Nothing new to report. I did receive one inquiry but no action at this time.
- 3. Danny Polk and Eric Larson attended the quarterly SCASM meeting in Columbia this past month. The agenda topics were focused on MS4 permit MCM 6 Municipal facility operations and water pollution prevention. The information was very helpful and will be used to develop our own plan for the MS4 permit.
- 4. Eric Larson has been appointed to the Planning Department's Development Review Team (DRT) on behalf of the Engineering department to provide review on private projects. This was done to facilitate stormwater review. This has increased workload slightly.
- 5. Eric Larson met with engineers with SCDOT to discuss ongoing confusion concerning outfall channels (ditches) that drain state right of ways to receiving water bodies. Given that the County's Extent of Service (EOS) plan specifically excludes stormwater infrastructure that does not drain county roads and properties, and that the State's policies seem to exclude these areas as well, it leaves these ditches unmaintained. We are working to reach an understanding with SCDOT and "close the gap" in operational coverage.
- 6. I spoke to the Marsh Association, a group of private development property managers, on the topic of the Utility's Credit program. The program currently has only 4 participants. As a result of the presentation, we have 4 pre-application meetings pending.

7. The Utility is finalizing a credit application for Belfair Plantation. It will save the POA approx. \$9,500 per year.

MS4 Update

- 1. MS4 permit application A draft version of the permit application is being distributed at the October 1, 2014 meeting for review and discussion. It will be presented again in a final draft version at the November 5, 2014 meeting.
- 2. Stormwater Public Education and Outreach The selection committee, made up of the SWIC members, met with the Beaufort Soil and Water Conservation District on September 25, 2014. A recommendation for an award will be made at the October 1, 2014 Utility Board meeting.

Monitoring Update

1. USCB Lab – Lab Manager Danielle Mickel reports that the lab has submitted their application for certification to SCDHEC Lab Certification for analysis of enterococci and total coliform/e.coli following methods Enterolert and SM9223B-2004, respectively. As mentioned previously, there was much documentation required for and included in the SCDHEC certification application; Quality Assurance Manual, Analysis Records, Training Records, QC Records(media, temperatures, sterility checks, QT sealer checks, autoclave checks), Resumes, Laboratory Director Designation letter, Standard Operating Procedures, and Qualifications for each employee and their responsibilities. The application was received by SCDHEC Lab Certification on 9/12/2014, in which SCDHEC has 45 days from receipt to reply and let the lab know what the next step is. A visit to the lab is required, in which SCDHEC has 3 months from the 45 days.

Stormwater Implementation Committee (SWIC) report

1. The next meeting is scheduled for November. The SWIC will be reviewing draft NOI applications for the MS4 permits.

Stormwater Related Projects

1. Shadow Moss Subdivision / Riley Road easement release — I have attached a recommendation to the Natural Resources Committee to release an easement serving Riley Road. A new development adjacent to the property, Shadow Moss, is re-routing a drainage pipe via stormsewer through the development. The County's responsibility for maintenance of the ditch will end with this construction. I request the Board recommend the approval of the easement release.

Professional Contracts Report

1. US 278 retrofit ponds (\$356,000 budget) – The project is moving forward. The site plan for the stockpile area is slightly behind schedule due to a delay in field surveying. Construction is now scheduled to start in late December or early January.

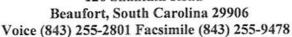
- 2. County Admin. Complex Retrofit Project (\$327,768 budget) The contract and bonds from JS Construction have been received. We will be holding a pre-construction conference within the next month.
- 3. SC 170 widening and stormwater (\$14,000 budget) The conceptual design study for the road corridor is complete and a final draft has been submitted to our office. I will be sharing the report with the County Administrator in the upcoming month. I will make the study available to the Board as soon as it is finalized.

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 Kim Jones may report.
- 3. Salinity Study (\$25,000 budget county portion) On going. The advisory group met last month to review the preliminary data and review the trend analysis performed to date. The committee made recommendations to the DNR staff on how to use the data and analysis to support recommendations for policy changes, technical standards, and/or capital projects.
- 4. Sea Level Rise and future planning I have attached the summary report from the public meeting held in August. The Sea Grant staff is continuing work on the final report.
- 5. Drainage issue on H.E. McCracken Circle in Bluffton On going. The Town of Bluffton staff has delivered additional field work to support a conceptual solution. I am still reviewing the data.
- 6. Stormwater / Water Quality segment for The County Channel I have been working with County staff to develop a TV segment on the topic of water quality. This is at the request of State Representative and former County Council chairman Weston Newton. The project is in conjunction with Water Quality Protection Week to be held in October.



BEAUFORT COUNTY STORMWATER UTILITY 120 Shanklin Road





TO:

Councilman Brian Flewelling Chairman, Natural Resources Committee

FROM:

Robert McFee, PE, Division Director for Engineering and Infrastructure

Eric W. Larson, Beaufort County Stormwater Utility

SUBJECT:

Stormwater Drainage Easement Conveyance to Centex Homes - Shadow Moss Phase 4

Date:

September 12, 2014

BACKGROUND: The Trask Family conveyed a 25' drainage easement to Beaufort County located in the Shadow Moss, Phase 4 Subdivision in May of 2010. An open ditch was then constructed by Stormwater to handle water runoff from Riley Road onto Phase 4 of the Shadow Moss Subdivision as shown on the attached Exhibit "A". Centex Homes, who has subsequently purchased the property from the Trask Family, has now approached the County to request the return of this drainage easement as they are now developing the property and are designing a storm sewer system to re-route runoff that is currently conveyed by the ditch. It is their desire to re-route the drainage across Phase 4 using a buried pipe.

Upon such conveyance, Centex Homes would be responsible for the construction and maintenance of the re-routed drainage easement and Beaufort County would be released from all responsibility.

FOR ACTION: Natural Resources Committee meeting occurring on October 13, 2014.

RECOMMENDATION: Staff recommends the Natural Resources Committee of County Council endorse the conveyance of the above-referenced drainage easement to Centex Homes with the provision that they are responsible for the construction and ongoing maintenance of same and release Beaufort County for all future responsibility.

CC: Gary Kubic, County Administrator OV gallekus

BEAUFORT COUNTY SC - ROD BK 02969 PG 2263 - 2.263 H FILE NUM 2010034615 07/01/2010 04:43:16 PM REC'D BY P BAXLEY RCPT# 621139 RECORDING FEES 0.00

Prepared by and return to: Beaufort County Staff Attorney P.O. Drawer 1228 Beaufort, SC 29901-1228 (843) 255-2055; (843) 470-5383 FAX

Riley/Fair Road (drainage easement)

STATE OF SOUTH CAROLINA

DRAINAGE EASEMENT

COUNTY OF BEAUFORT

KNOW ALL MEN BY THESE PRESENTS, THAT We William Davis Trask, James Heide Trask, John Donald Trask, Harold E. Trask, Jr., Margaret Scheper Trask, and Robert Edward L. Holt, III, (collectively, the "Grantor") in the State aforesaid, for and in consideration of the sum of ONE AND NO/100 DOLLARS (\$1.00) and improvement of drainage on Grantor's land, the receipt whereof is hereby acknowledged, to us in hand paid at and before the sealing of these presents by Beaufort County, P.O. Drawer 1228, Beaufort, South Carolina 29901-1228, have granted and conveyed unto the said Beaufort County (the "Grantee") its Successors and Assigns, a non-exclusive 25' drainage easement (the "Easement") as set forth on that certain plat entitled "TRACT 1, TRACT 2 & A 25' DRAINAGE EASEMENT BEING A PORTION OF SHADOW MOSS PHASE 4" prepared by Thomas & Hutton Engineering Co., dated September 16, 2009 and recorded in the Beaufort County Register of Deeds Office in Plat Book 130 at Page 37 (the "Easement Map"), said property being situated in the Town of Port Royal, County of Beaufort, State of South Carolina.

For or in connection with the construction of a ditch to improve the drainage on the above described lands, such construction to include excavation, widening, or deepening, etc. for or in connection with the operation, maintenance, and inspection of such a ditch.

- This easement includes the right of ingress and egress at any time over and upon the above described land, for the purpose of construction, inspection, and maintenance of ditches as referred to above.
- There is reserved to the Grantee, Beaufort County, the right and privilege to use the above described land of the Grantor for the purposes of maintaining the drainage ditch system.
- 3. The Grantee is responsible for operating and maintaining the work of improvement herein described, and shall remove and dispose of all excess material, soil, and debris generated by the construction or maintenance of the ditch by Grantee.

4. Special Provisions

- a. The Grantee shall have the right to clear and remove all brush and trees to a width necessary to excavate and/or improve the above drainage ditches. Provided, however, if the Grantor desires to salvage merchantable timber from the area to be cleared, he will do so prior to the time the contractor begins work. It is understood that the Grantee will advise the Grantor at least 10 days in advance of construction.
- b. Proposed drainage ditches will be constructed within the boundaries of the Easement location shown on the Easement Map.

7

- c. If the Grantor desires to salvage levees, fences, culverts, or bridges that interfere with the construction or maintenance of drainage ditches, he will have the opportunity to do so prior to construction and maintenance work.
- d. The Grantee acknowledges and agrees that the real property owned by Grantor and burdened by the Easement granted herein is shown as "Tract 3" on a plat recorded in Plat Book 129, at Page 13, in the office of the Register of Deeds for Beaufort County, South Carolina ("Grantor's Parcel"). Grantor (or its successors in title to Grantor's Parcel) intends to develop Grantor's Parcel as an additional phase of a residential subdivision, and has the right to apply to Beaufort County for a development permit based upon construction plans which could potentially change the location and design of the drainage facilities to be constructed on Grantor's Parcel for such development from the location and design of the facilities to be constructed by Grantee as shown on the Easement Map.
- e. Upon the later to occur of (i) the date upon which Grantor (or its successors in title) records a final subdivision plat for Grantor's Parcel on which a street right-of-way is shown to connect to Riley Road, or (ii) the completion by Grantor of street and drainage improvements on Grantor's Parcel that are sufficient in design and capacity to accommodate storm water run-off from Riley Road, the location of the Easement herein granted shall be deemed amended and relocated to and within the street right-of-way shown on such final subdivision plat, without the necessity of any further action by either party.
- f. It is agreed that buildings, fences, signs or other obstructions will not be erected by Grantee, its successors, assigns, or administrators within the limits of the easement herein conveyed.

TO HAVE AND TO HOLD the aforesaid easement in, over and upon the above described land of the Grantor, with all the rights, privileges and appurtenances thereto belonging or in any wise appertaining, unto the Grantee, its successors and assigns, forever, subject to the relocation (if applicable) by Grantor as provided in paragraph (e) above.

IN WITNESS WHEREOF, I (or we) have hereunto set my (or our) hand and seal this day of ______, 2010.

Signed, Sealed and Delivered in the Presence of:

WITENESSES.

Witness #1

Notary Public as Witness #2

GRANTOR:

William Davis Trask

I, the undersigned notary public, do hereby certify that the within named Grantor personally
appeared before me this 13th day of MAY, 2000, and
acknowledged the due execution of the foregoing instrument.
Notary Public for the State of South Carolina (L.S.)
My Commission expires: 6-27-2015

Notary Public as Witness #2

STATE OF SOUTH CAROLINA

COUNTY OF BEAUFORT	ACKNOWLEDGEMENT
I, the undersigned notary public, do hereby appeared before me this2 < 15 da acknowledged the due execution of the foregoing	certify that the within named Grantor personally y of, 2000, and ng instrument.
May May South Carolina Notary Public for the State of South Carolina	(lS.)
My Commission expires: June 16,7	2019
IN WITNESS WHEREOF, I (or we) have 25th day of May	hereunto set my (or our) hand and seal this 2010, 2009.
Signed, Sealed and Delivered in the Presence	of:
WITNESSES:	GRANTOR:
Witness #1	James Heide Trask
Notary Public as Witness #2	
STATE OF SOUTH Carolina	

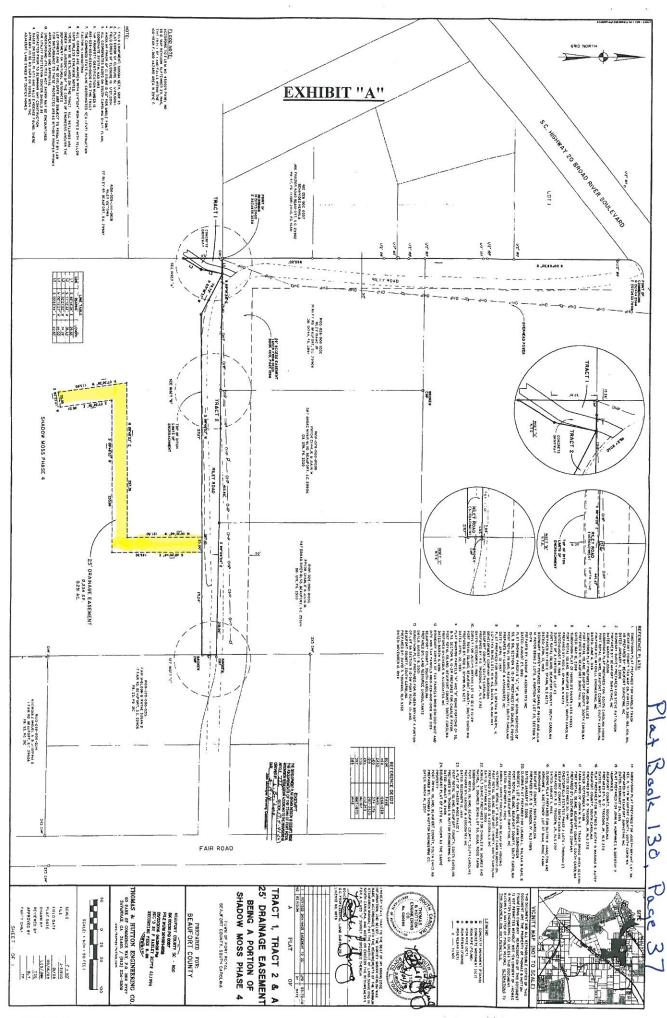
ACKNOWLEDGEMENT

l, the undersigned notary public, do hereby certify that the within named Grantor personally
appeared before me this 36th day of MALL , 2009, and
acknowledged the due execution of the foregoing instrument.
Notary Public for the State of South Carolina (L.S.)
My Commission Expires November 19, 2019

I, the undersigned notary public, do here	eby certify that the within named Gran	ntor personally
appeared before me this 13th	day ofMAL	, 20 09 , and
acknowledged the due execution of the for-	egoing instrument.	
Notary Public for the State of South Caroli	(L.S.)	
My Commission expires: 6.37.	2015	
W. W		
IN WITNESS WHEREOF, I (or we)	have hereunto set my (or our) hand	and seal this
13th day of MAY	, 20 09 .	
Signed, Sealed and Delivered in the Prese	ence of:	
WITNESSES:	GRANTOR:	1 0
La Davida	Mart	A.V
Witness #1	Margaret Schener Track	non
Par Ohiti	rivial garet Scheper Trask	
Notary Public as Witness #2		
,		
C- +/ C-0/		
STATE OF South CAROLINA	ACKNOWI EDOPS	N/P
COUNTY OF BEAUTORY	ACKNOWLEDGEME	NT

IN WITNESS WHEREOF, I (or we) have hereunto set my (or our) hand and seal this day of May , 2009.2010
Signed, Sealed and Delivered in the Presence of:
Betty Harvey Witness # John Donald Trask Notary Public as Witness #2
COUNTY OF BUNCONINE ACKNOWLEDGEMENT
I, the undersigned notary public, do hereby certify that the within named Grantor personally appeared before me this day of 2009, and acknowledged the due execution of the foregoing instrument.
My Commission expires: April 20, 2010 (L.S.) ALLYSON J. WARRINER NOTARY PUBLIC Henderson County, North Carolina My Commission Expires: April 20, 2011

I, the undersigned notary public, do hereby	y certify that the within named Grantor personally
acknowledged the due execution of the foreg	day of, 2009, and, 2010
Notary Public for the State of South Carolina My Commission expires: 8/14/2	(L.S.)
	Address F. Howell
	T. HOWGI
IN WITNESS WHEREOF, I (or we) ha	ive hereunto set my (or our) hand and seal this
Signed, Scaled and Delivered in the Present	ce of:
WITNESSES:	GRANTOR:
Jona Taus	CALOZ INARE 12
Wifness #1 Sandu L Sanda Notary Public as Witness #2	Harold E. Trask, Jr.
STATE OF South Capalina	ACKNOWLEDGEMENT
COUNTY OF Charleston	GAMMANI E



Beaufort County, SC Public Workshops On Sea Level Rise Adaptation Strategies



Summary Report

September 2014

Research Partners

Sean Bath (S.C. Sea Grant Consortium)
Liz Fly, Ph.D. (S.C. Sea Grant Consortium/CISA)
April Turner (S.C. Sea Grant Consortium)
Seth Tuler, Ph.D. (SERI)
Tom Webler, Ph.D. (SERI)
Jess Whitehead, Ph.D. (N.C. Sea Grant)

Beaufort County Partner
Rob Merchant, AICP (Planning Department)

Additional Facilitators/Note Takers
Amanda Brennan (CISA)
Samantha Bruce (S.C. Sea Grant Consortium)
Blaik Keppler (SC DNR, ACE Basin NERR CTP)
Chris Berg (SD DNR)

www.sites.google.com/site/beaufortslr











Introduction

Project Overview

The workshops discussed in this report are part of a larger project titled, "Using Participatory Scenario Building to Encourage Climate-Resilient Planning in the Coastal Carolinas." The work is a collaboration among the Beaufort County Planning Department, the South Carolina Sea Grant Consortium, the Social and Environmental Research Institute (SERI), North Carolina Sea Grant, and the Carolinas Integrated Sciences & Assessments (CISA) program at the University of South Carolina. It is funded by the Community Climate Change Adaptation Initiative (CCCAI) through the National Oceanic and Atmospheric Administration's National Sea Grant Office.

Work on this project began in 2013. Scoping interviews were conducted with local members of county government, municipal government, nonprofit groups, and military facilities. Using the Vulnerability, Consequences, and Adaptation Planning Scenarios (VCAPS) process, the project team facilitated focus group discussions wherein local residents identified a number of county-wide vulnerabilities to sea level rise, consequences of these vulnerabilities, and potential actions to adapt.

Workshop Overview

The goal of the public workshops was to seek input on the sea level rise adaptation actions developed by the Beaufort County focus group. A press release was distributed to area media and event flyers were distributed on electronic mailing lists.

Session 1: August 25, 2014 Bluffton Branch Library Large Meeting Room 120 Palmetto Way, Bluffton, SC 29910

Session 2: August 26, 2014 St. Helena Branch Library Large Meeting Room 6355 Jonathan Francis Sr. Rd., St. Helena, SC 29920











Workshop Format

Time	Section Title	Description
1:00	Welcome, Introductions, and Overview of Agenda	Presentation 1: Sea Level Rise in Beaufort, SC
1:20	Vulnerability to Sea Level Rise in Beaufort County	Presentation 2: Sea Level Rise Science Presentation 3: Mapping SLR in Beaufort County
1:45	Review of Working Group Findings and Adaptation Strategies	Presentation 4: Potential Options for Adapting to Sea Level Rise in Beaufort County, SC
2:00	Question and Answer	
2:15	Break	
2:25	Small Group Discussions	Facilitated group discussions about adaptation strategies, including a prioritization vote.
3:25	Report-outs and Full Group Discussion	Facilitators share key points of each small group with all participants.
3:50	Next Steps and Wrap-Up	

Presentations

Number	Title of Presentation	Presenter
1	Sea Level Rise in Beaufort, SC	Dr. Elizabeth Fly, Coastal Climate Extension Specialist
		(S.C. Sea Grant Consortium/CISA)
2	Sea Level Rise Science	Dr. Elizabeth Fly, Coastal Climate Extension Specialist
		(S.C. Sea Grant Consortium/CISA)
3	Mapping SLR in Beaufort County	Sean Bath, Graduate Student Intern
		(S.C. Sea Grant Consortium / College of Charleston)
4	Potential Options for Adapting to Sea	Dr. Jessica Whitehead, Coastal Communities Hazards
	Level Rise in Beaufort County, SC	Adaptation Specialist (N.C. Sea Grant)











Small Group Discussions

Participants for each workshop were divided into three or four small groups. Each person was handed a printed sheet of adaptation actions and given five minutes to reflect and write down additional ideas. After five minutes, each person introduced themselves and provided one major reflection or addition they had to the list.

Groups then moved to broader discussion that captured answers to the first three questions below:

Questions:

- 1. Do you have any comments or concerns about the list of suggested adaptation strategies?
- 2. Would you suggest any alternative strategies?
- 3. What important trade-offs would you consider with each strategy?

After much discussion on the above questions, participants voted for their top three priority strategies. If priority voting was completed in a timely fashion, group discussion continued emphasizing the following questions:

- 4. What actions do you think can be pursued with currently available resources and political agreement?
- 5. What additional information would help you make decisions?

At the end of the allotted time, groups decided 3-4 key takeaways from their discussion to share with the larger group.



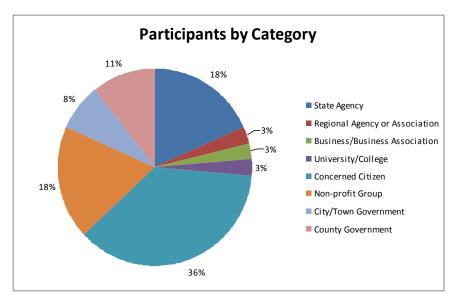




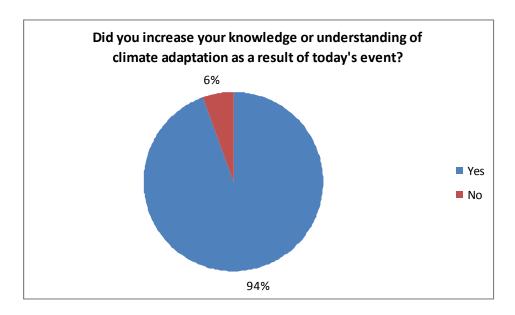




Evaluation Survey Highlights



Seventy-seven individuals attended the two sessions (33 on Monday and 44 on Tuesday). Participants were given an evaluation survey to return by the end of the session. The response rate was 49%. According to this survey, 72% of participants were concerned citizens, nonprofit members, or state agency employees (the three largest groups).



According to the evaluation survey, 94% of participants stated that they increased their knowledge due to the workshop.

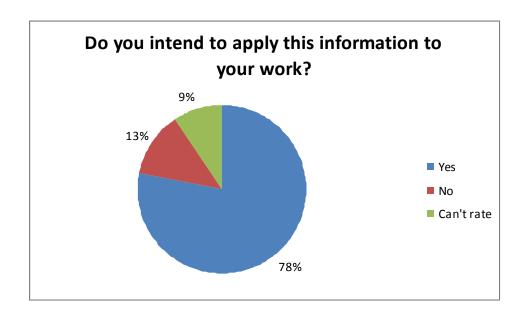












Up to 78% of survey respondents intend to apply this information to their work.

What type of obstacles do you foresee to applying this information?

- 1. Political will (10 comments)
- 2. Financial Cost (9 comments)

Participants identified political will and financial cost as the primary obstacles to applying adaptation information in Beaufort County.

What additional training or assistance would help address these obstacles?

1. Public education/outreach (13 comments)

Participants emphasized public education as the best means to address obstacles. Specific ideas ranged from more workshops to community-level outreach that could target diverse segments of the population.











What component of today's meeting was most useful to you and WHY?

- 1. Breakout sessions (18 comments)
- Presentations (13 comments)

Participants were particularly happy with the productivity of breakout group sessions. They enjoyed the opportunity to hear different perspectives and appreciated the way they could prioritize actions. Participants also complimented the quality of presentations introducing the topic.

The top priorities identified among the breakout groups were:

- Collect more information
- Public education*
- Maintain or strengthen setback policy on growing shorelines
- Elevate existing roads and change future elevation requirements.
- Coordination with key players.
 *This was a new strategy not specifically identified in the focus group.

Breakout groups discussed the adaptation strategies identified by the original focus group. They proposed key edits to action items such as combining similar items (i.e. creating one category of increasing collaboration with key players) and expanding items (i.e. making setback policies more stringent.) Participants also proposed new comprehensive items like living shorelines and low impact development. In many cases, participants used their unique local knowledge to contribute important contextual information. For example, participants noted that homeowners associations (HOAs), planned unit developments (PUDs), and churches were ideal vehicles for community education efforts and important players themselves in determining how the landscape might be affected by sea level rise.





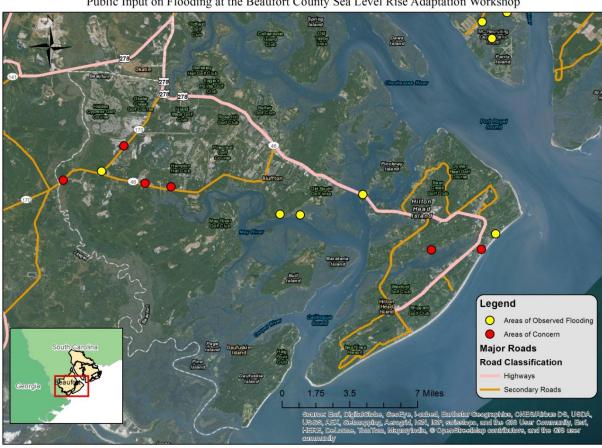






Participatory Mapping

Maps of Beaufort County were displayed during the workshops. Yellow sticker dots were available for participants to mark areas where they had observed flooding. Red sticker dots were available for participants to mark areas of concern. These maps have been digitized and are displayed below.



Public Input on Flooding at the Beaufort County Sea Level Rise Adaptation Workshop











Public input of infooding at the Beaution County Sea Level Rise Adaptation Workshop

Areas of Observed Flooding

Areas of Concern

Major Roads

Road Classification

Highways

Secondary Roads

Scotting crouling

South, caroling

Public Input on Flooding at the Beaufort County Sea Level Rise Adaptation Workshop

Next Steps

The project team will use participant input to write a report on adaptation options for Beaufort County. The document will review the study methodology, highlight findings, and provide a series of recommendations derived from Beaufort County participants.

Relevant Links

NOAA Coastal Services Center Sea Level Rise and Coastal Flooding Impacts Viewer http://www.csc.noaa.gov/digitalcoast/tools/slrviewer

DHEC SC King Tides Initiative

http://mycoast.org/sc/king-tides

Climate Central Surging Seas Tool

http://sealevel.climatecentral.org/







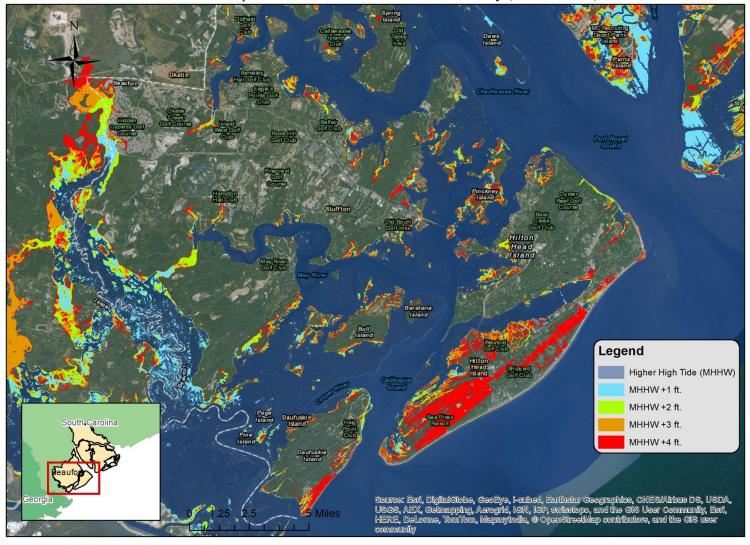




APPENDIX A Sea Level Rise Model of Beaufort County

Mean Higher High Water is the average of the higher of the two daily tides over a ~20 year period. Extreme high tides frequently peak at 1-2 ft. above MHHW. When base sea level rises 1-2 ft., regular extreme tides may peak 3-4 ft. above MHHW.

Potential Impact of Sea Level Rise in Beaufort County (south section)





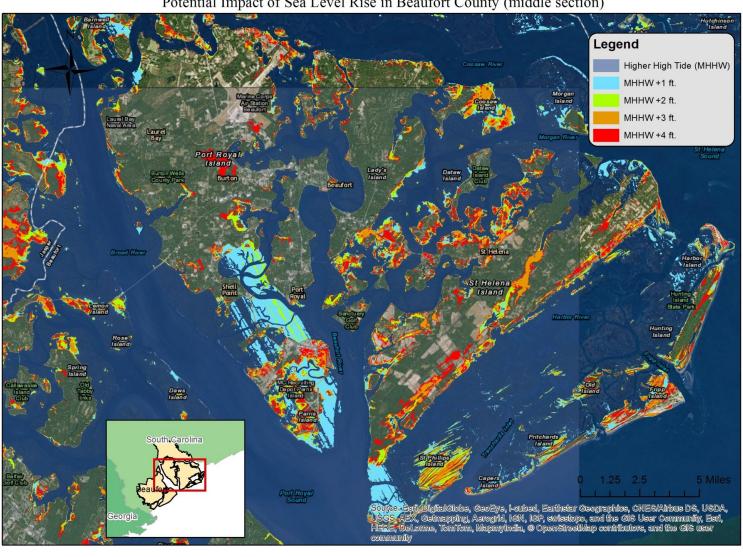








Potential Impact of Sea Level Rise in Beaufort County (middle section)



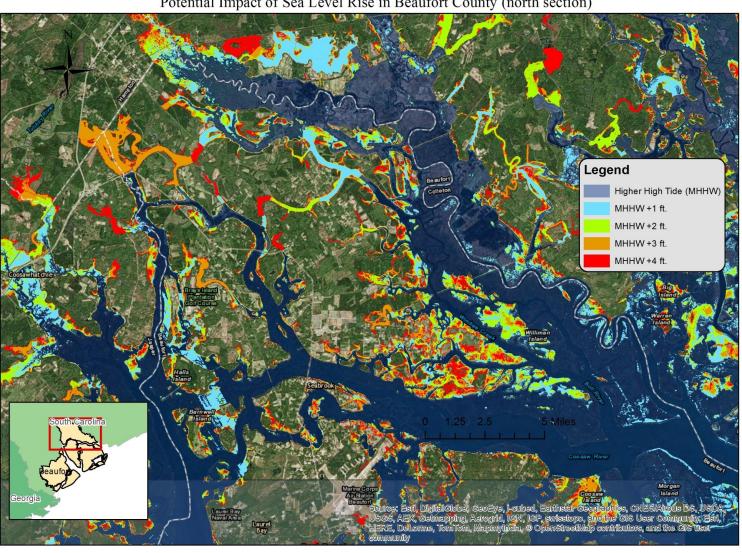








Potential Impact of Sea Level Rise in Beaufort County (north section)











APPENDIX B Beaufort County Sea Level Rise Adaptation Strategies Identified and Ranked by Working Group WORKING DOCUMENT

Rank	Action	Notes
	Maintain setback policy on shorelines	
2	Improve coordination with relevant state agencies (DHEC, DOT, etc.)	
3	Provide disclosure notice that the county will not be held liable for damages to high risk properties or from not maintaining services	
4	Use sea level rise information to inform disaster recovery plan	
5	Elevate existing roads and causeways	
6	Begin a dialogue on how to balance public & private interests	
7	Coordinate efforts with municipalities	
8	Identify planning thresholds (i.e. determine when sea level rise should be addressed by policy)	
9	Change road elevation requirements	
10	Provide sea level rise information on county website to inform & educate	
11	Collect more information (on flooding locations, sea level trends, erosion patterns, infrastructure vulnerabilities, etc.)	
12	Improve regional planning efforts	
13	Revise building codes to higher quality standards & use incentives	
14	Consider social & cultural vulnerability & resilience	
15	Establish new regulations for septic systems	
16	Monitor the health of salt marshes	
17	Require lagoon / storm water pond maintenance	

APPENDIX B Beaufort County Sea Level Rise Adaptation Strategies Identified and Ranked by Working Group WORKING DOCUMENT

Rank	Action	Notes
18	Establish funding structures and/or tax districts to help property owners	
19	Develop affordable housing in safer areas	
20	Control water access points through low-lying ditches	
21	Restore ferry services to isolated communities	
22	Develop a transfer of development rights program for low elevation properties	
23	Increase awareness of the Open Lands Trust fund	
24	Install tidal gates	
25	Purchase lower elevation lands	
26	Assist with beach renourishment	
27	Purchase higher elevation lands	
	Additional Strategies; choose ra	nk you feel most appropriate



COUNTY COUNCIL OF BEAUFORT COUNTY

FINANCE DEPARTMENT

Post Office Drawer 1228 Beaufort, South Carolina 29901-1228

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Michael Dunn Fiscal Tech 843.255.2951 mdunn@bcgov.net September 23, 2014

August 2014 Stormwater Financials Narrative and Analysis

According to Governmental Accounting Standards, Stormwater tax revenues that are received during July and August 2014 will be recorded as revenue in fiscal year 2014. This standard is referred to as the 60 day revenue accrual, therefore Stormwater utility fees revenue is zero.

Since August is the 2nd month of the fiscal year, one might expect expenses to be at 16% of budget based on consistent and recurring expenses and Stormwater is currently at this budget level.

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 increased by about \$76,000 compared to last year, along with an increase in fund balance by about \$73,000.

Please note that these August numbers will change as the Finance Department gets closer to closing out the 2014 fiscal year, which will impact the beginning fund balance for FY15.

Respectively submitted,

Alan Eisenman, CPA

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

UNAUDITED AND PRELIMINARY

BEAUFORT COUNTY, SOUTH CAROLINA STATEMENT OF NET ASSETS

Stormwater Utility and Capital Improvement Funds August 31, 2014 & August 31, 2013

	Stormwater Utility Fund August 31, 2014		•	Capital Improvements Fund August 31, 2014		mwater Utility Fund ust 31, 2013
<u>ASSETS</u>	-			·		
Current Assets Cash and Investments with Trustee Receivables, Net Inventories	\$	1,488,036 3,876 113,850	\$	808,205 - -	\$	2,219,713 53,065 92,511
Prepayments		-		_		-
Total Current Assets		1,605,762		808,205		2,365,289
Capital Assets Accumulated Depreciation		2,930,034 (2,147,016)		- -		2,800,950 (1,981,378)
		783,018		-		819,572
Total Assets	\$	2,388,780	\$	808,205	\$	3,184,861
<u>LIABILITIES</u> Liabilities						
Account Payable		23,365		672.00		174,966
Accrued Payroll		40,098		-		60,482
Accrued Compensated Absences	-	6,247		-		4,470
Total Current Liabilities		69,710		672		239,918
Long Term Liabilities Accrued Compensated Absences Net Other Postemployment		67,554		-		57,156
Benefits Obligation		857,616		_		760,123
Total Long Term Liabilities		925,170		-		817,279
Total Liabilities		994,880		672		1,057,197
NET ASSETS Invested in Capital Assets, Net of Related Debt Reserved for Encumbrances		783,018 251,714		- 21,830		819,572 363,865
Reserved for Capital Improvements Unrestricted		251,714 - 359,168		785,703		944,227
Total Net Assets	\$	1,393,900	\$	807,533	\$	2,127,664

Unaudited and Preliminary

BEAUFORT COUNTY, SOUTH CAROLINA STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS

Stormwater Utility Fund For the Period Ended August 31, 2014

	Dudaat				Dudgette	Percent
	Budget FY 2015	Augus	st 31, 2014		Budget to Actual	of Budget
Operating Revenues	1 1 2010		501, 2014	-	riotadi	Buaget
Stormwater Utility Fees	\$ 3,132,205	\$	-	*	(3,132,205)	0%
Stormwater Utility Project Billings	44,189		799	_	(43,390)	2%
Total Operating Revenues	3,176,394		799	_	(3,175,595)	0%
Operating Expenses						
Personnel	1,883,440		243,254		(1,640,186)	13%
Purchased Services	684,864		189,791		(495,073)	28%
Supplies	350,509		22,458		(328,051)	6%
Depreciation	182,523		30,422	_	(152,101)	17%
Total Operating Expenses	3,101,336		485,925	_	(2,615,411)	16%
Operating Income (Loss)	75,058		(485,126)		(560,184)	-646%
Non-Operating Revenues (Expenses)						
Gain (Loss) on Sale of Capital Assets	-		-		-	0%
Interest Earned	2,955		-		(2,955)	0%
Total Non-Operating Revenues (Expenses)	2,955		-	_	(2,955)	0%
Transfers Out To Capital Improvement Fund	-		-		-	100%
Change in Net Assets	78,013		(485,126)		(563,139)	-622%
Net Assets, Beginning	1,879,026		1,879,026			
Net Assets, Ending	\$ 1,957,039	\$	1,393,900		(563,139)	71%

^{*} NOTE: According to Government Accounting Standards, Stormwater tax revenues received during July and August 2014 will be recorded as revenue in fiscal year 2014.

Unaudited and Preliminary BEAUFORT COUNTY, SOUTH CAROLINA STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS

Stormwater Capital Improvements Fund For the Period Ended August 31, 2014

	Budo FY 20		Augus	st 31, 2014	Budget to Actual	Percent of Budget
Transfers In from Stormwater Utility Fund Administration Complex Parking Lot Retrofit Okatie East Retrofit Highway 278 Retrofit Okatie West Retrofit Upper Battery Creek Retrofit	\$	- - - -	\$	- - - -	- - - -	0% 0% 0% 0%
Total Transfers In				<u>-</u>	-	100%
Capital Improvement Expenses Administration Complex Parking Lot Retrofit Okatie East Retrofit Highway 278 Retrofit Okatie West Retrofit Upper Battery Creek Retrofit Total Operating Expenses		- - - - -		360 500 - - - - 860	360 500 - - - - 860	100% 0% 0% 0% 0% 100%
Change in Net Assets by Project Administration Complex Parking Lot Retrofit Okatie East Retrofit Highway 278 Retrofit Okatie West Retrofit Upper Battery Creek Retrofit Total Change in Net Assets by Project				(360) (500) - - - - (860)	(360) (500) - - - - (860)	
Net Assets, Beginning Administration Complex Parking Lot Retrofit Okatie East Retrofit Highway 278 Retrofit Okatie West Retrofit Upper Battery Creek Retrofit Total Net Assets, Beginning				327,169 40,892 207,722 100,000 132,610 808,393		
Net Assets, Ending Administration Complex Parking Lot Retrofit Okatie East Retrofit Highway 278 Retrofit Okatie West Retrofit Upper Battery Creek Retrofit Total Net Assets, Ending	\$		\$	326,809 40,392 207,722 100,000 132,610 807,533		

Unaudited and Preliminary

BEAUFORT COUNTY, SOUTH CAROLINA STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET ASSETS Stormwater Utility Fund For the Period Ended August 31, 2013

		Budget				Budget to	Percent of
		FY 2014		August 31, 2013	-	Actual	Budget
Operating Revenues	Φ.	0.475.000	Φ.		*	(2.475.000)	00/
Stormwater Utility Fees Stormwater Utility Project Billings	\$	3,475,000 60.023	\$	10,738	*	(3,475,000) (49,285)	0% 18%
Total Operating Revenues		3,535,023		10,738	-	(3,524,285)	0%
				<u> </u>	-		
Operating Expenses							
Personnel		2,160,475		311,175		(1,849,300)	14%
Purchased Services		961,864		84,851		(877,013)	9%
Supplies		381,446		58,241		(323,205)	15%
Depreciation		242,119		40,354	_	(201,765)	17%
Total Operating Expenses		3,745,904		494,621	-	(3,251,283)	13%
Operating Income (Loss)		(210,881)		(483,883)		(273,002)	229%
Non-Operating Revenues (Expenses)							
Gain (Loss) on Sale of Capital Assets		_		(31,113)		(31,113)	-100%
Interest Earned		6,922		(01,110)		(6,922)	0%
Total Non-Operating Revenues (Expenses)		6,922		(31,113)	-	(38,035)	0%
					-		
Change in Net Assets		(203,959)		(514,996)		(311,037)	252%
Net Assets, Beginning		2,642,660		2,642,660			
Net Assets, Ending	\$	2,438,701	\$	2,127,664		(311,037)	87%

^{*} NOTE: According to Government Accounting Standards, Stormwater tax revenues received during July and August 2013 will be recorded as revenue in fiscal year 2013.



Date: October 1, 2014

To: Stormwater Management Utility Board

From: Eddie Bellamy, Public Works Director

Re: Maintenance Project Report for October 2014

1. This report will cover six major and fifteen minor or routine projects. The Project Summary Reports are attached.

2. Major Projects:

- **A.** Basil Green Complex, completed in May in the City of Beaufort, District 1; we corrected a long standing flooding issue in the sports complex by installing a catch basin and an underground detention vault. Total cost of the project was \$38,396.
- **B.** Bonaire Circle, completed in July in the Burton area of Port Royal Island, District 6; we bush hogged and cleaned out 495 feet of channel and installed 149 feet of channel pipe. Total cost of the project was \$28,150.
- **C.** Rhumbline Road, completed in July on Lady's Island, District 7; we grubbed, cleared, and constructed 180 feet of workshelf, reconstructed 320 feet of channel, upsized one driveway pipe, and installed rip-rap and hydroseeded for erosion control. Total cost of the project was \$18,658.
- **D.** Burton Wells Lake Repair, completed in August in the Burton area of Port Royal Island, District 6; we installed one drainage basin, six inline grates, and 300 feet of pipe. We then constructed 100 feet of swale, repaired the washouts, installed reinforcement matting and straw matting, and hydroseeded for erosion control. Total cost of the project was \$23,441.
- **E.** Burton Wells Sports Complex Pond Maintenance, completed in August in the Burton area of Port Royal Island, District 6; cleaned out the detention pond and 385 feet of channel, trimmed the perimeter of the pond, and installed rip-rap and hydroseeded for erosion control. Total cost of the project was \$31,527.
- **F.** Administration Building Detention Ponds, completed in September in the City of Beaufort, District 1; we grubbed, cleared, and reconstructed two existing ponds, extended an inlet pipe 24 feet, and installed straw mat, rip-rap and hydroseeded for erosion control. Total cost of the project was \$64,863.

3. Minor or Routine Projects:

A. Sheldon Washout Repairs –Backache Acres, completed in March in the Lobeco area of Sheldon Township, District 5; we repaired three washouts.

- **B.** Port Royal Island Washout Repairs, completed in June in the Burton area of Port Royal Island, District 6; we repaired three washouts on two channels.
- **C. Ardmore Avenue**, completed in June on Lady's Island, District 7; we cleaned out and repaired a catch basin and sinkhole.
- **D.** Airport Circle, completed in June on Lady's Island, District 7; we bush hogged 467 feet of channel and cleaned out 220 feet of channel.
- **E. Persimmon Street,** completed in June in Bluffton Township, District 9; we replaced a missing catch basin lid.
- **F.** Eustis Landing Road, completed in June on Lady's Island, District 7; we repaired a sinkhole.
- **G.** Old Dawson Acres, completed in June in the Gardens Corner area of Sheldon Township, District 5; we removed a bleeder pipe that was no longer needed.
- **H. St. Helena Tree Removal,** completed in June on St. Helena Island, District 8; we removed two fallen trees from two different channels/workshelves.
- **I. Sheldon Bush Hogging**, completed in July in Sheldon Township, District 5; we bush hogged 79,883 feet of channel and the associated workshelves and the perimeter of one pond. Total cost of the effort was \$38,491, or \$.48/foot.
- **J.** Parkside Drive, completed in July in Bluffton Township, District 9; we repaired a catch basin lid and a washout.
- **K.** Irongate Subdivision, completed in July in the Burton Area of Port Royal Island, district 6; we cleaned out 130 feet of channel.
- **L. Pin Oak Street/Able Street,** completed in July in Bluffton Township, District 9; we repaired a curb inlet and two sinkholes.
- **M. Red Cedar Street,** completed in August in Bluffton Township, District 9; we repaired two sinkholes.
- **N.** Hanna Avenue, completed in August in the Grays Hill area of Port Royal Island, District 6; we cleaned out 437 feet of roadside ditch.
- **O.** Holly Hall Road, completed in August on Lady's Island, District 7; we repaired a washout and installed rip-rap for erosion control.



Stormwater Infrastructure

Project Summary

Project Summary: Basil Green Complex

Activity: Drainage Improvement

Narrative Description of Project:

Completion: May-14 Project improved 63 L.F. of drainage system. Installed (1) catch basin, underground detention vault and sod for

erosion control.

2014-002 / Basil Green Complex	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
BKFILL / Back Fill	3.0	\$64.89	\$61.46	\$27.63	\$0.00	\$43.26	\$197.24
CBINS / Catch basin - installed	40.0	\$865.30	\$392.71	\$9,177.26	\$0.00	\$573.90	\$11,009.17
CLJS / Cleaned up jobsite	40.0	\$841.77	\$218.26	\$110.93	\$0.00	\$542.80	\$1,713.76
EDO / Equipment Drop Off	6.0	\$161.46	\$80.14	\$43.44	\$0.00	\$104.10	\$389.14
HAUL / Hauling	88.0	\$1,999.69	\$870.80	\$7,519.60	\$0.00	\$1,327.44	\$11,717.53
ONJV / Onsite Job Visit	57.0	\$1,868.20	\$248.82	\$135.75	\$0.00	\$1,286.13	\$3,538.90
PI / Project Inspection	2.0	\$88.54	\$7.24	\$6.00	\$0.00	\$67.92	\$169.70
PP / Project Preparation	16.0	\$573.50	\$23.87	\$6.37	\$0.00	\$426.30	\$1,030.04
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$750.00	\$0.00	\$750.00
PRRECON / Project Reconnaissance	7.0	\$254.44	\$25.34	\$24.00	\$0.00	\$190.27	\$494.05
SC / Sediment Control	36.0	\$755.28	\$341.78	\$150.50	\$0.00	\$550.56	\$1,798.12
SI / Sod - Installation	91.0	\$1,839.23	\$164.02	\$817.94	\$0.00	\$1,149.94	\$3,971.13
SODW / Sod - Watered	10.0	\$225.69	\$155.12	\$62.44	\$0.00	\$151.92	\$595.17
STAGING / Staging Materials	12.0	\$265.28	\$14.48	\$6.74	\$0.00	\$176.64	\$463.14
UC / Utility Coordination	0.0	\$0.00	\$0.00	\$0.00	\$525.00	\$0.00	\$525.00
2014-002 / Basil Green Complex	409.0	\$9,823.73	\$2,604.04	\$18,088.60	\$1,275.00	\$6,604.41	\$38,395.78
Sub Total							
Grand Total	409.0	\$9,823.73	\$2,604.04	\$18,088.60	\$1,275.00	\$6,604.41	\$38,395.78

Before



During



After







Stormwater Infrastructure

Project Summary

Project Summary: Bonaire Circle South

Activity: Drainage Improvement

Narrative Description of Project:

Completion: Jun-14

Proejct improved 644 L.F. of drainage system. Bush hogged and cleaned out 495 L.F. of channel. Installed 149 L.F. of channel pipe and sod for erosion control.

2014-623 / Bonaire Circle	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
HAUL / Hauling	94.0	\$2,033.22	\$1,005.80	\$1,970.62	\$0.00	\$1,320.12	\$6,329.76
ODBH / Outfall ditch - bushhogged	40.0	\$923.76	\$119.75	\$57.51	\$0.00	\$592.56	\$1,693.58
ODCO / Outfall ditch - cleaned out	103.0	\$2,372.98	\$624.40	\$176.72	\$0.00	\$1,510.32	\$4,684.42
OFPI / Outfall Pipe - Installation	110.0	\$2,607.56	\$470.98	\$2,324.78	\$0.00	\$1,631.90	\$7,035.23
ONJV / Onsite Job Visit	45.0	\$1,525.98	\$152.04	\$89.60	\$0.00	\$1,027.83	\$2,795.45
PI / Project Inspection	1.0	\$44.27	\$3.62	\$6.40	\$0.00	\$33.96	\$88.25
PL / Project Layout	4.0	\$101.14	\$7.24	\$10.02	\$0.00	\$70.38	\$188.78
PRRECON / Project Reconnaissance	5.0	\$155.88	\$18.10	\$22.40	\$0.00	\$103.63	\$300.01
SCR / Sediment Control - Removed	15.0	\$301.00	\$18.10	\$6.40	\$0.00	\$194.20	\$519.70
SI / Sod - Installation	90.0	\$2,003.78	\$271.83	\$87.99	\$0.00	\$1,258.59	\$3,622.19
STAGING / Staging Materials	19.0	\$439.32	\$10.86	\$16.00	\$0.00	\$288.66	\$754.84
TRAIN / Training	1.0	\$19.28	\$0.00	\$0.00	\$0.00	\$12.21	\$31.49
UTLOC / Utility locates	1.5	\$42.60	\$0.00	\$0.00	\$0.00	\$30.21	\$72.81
2014-623 / Bonaire Circle	529.5	\$12,591.23	\$2,702.72	\$4,768.44	\$0.00	\$8,087.80	\$28,150.19
Sub Total							
Grand Total	529.5	\$12,591.23	\$2,702.72	\$4,768.44	\$0.00	\$8,087.80	\$28,150.19

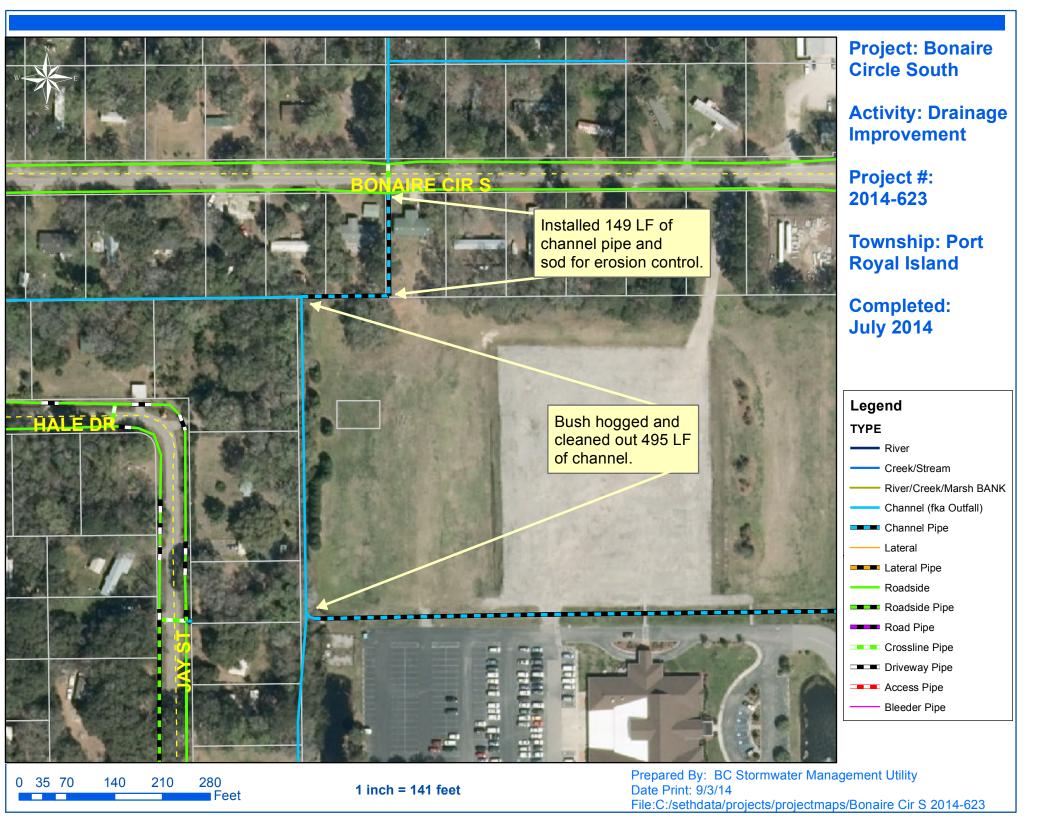
Before





After







Stormwater Infrastructure

Project Summary

Project Summary: Rhumbline Road

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14

Project improved 320 L.F. of drainage system. Grubbed, cleared and constructed 180 L.F. of workshelf. Reconstructed 320 L.F. of channel. Upsized (1) driveway pipe. Installed rip rap and hydroseeded for erosion control. Jetted (2) driveway pipes. Rework - Repaired washout.

2014-006 / Rhumbline Road	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
ADS / Administrative Support	2.0	\$66.36	\$7.24	\$9.60	\$0.00	\$48.94	\$132.14
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
DPINS / Driveway Pipe - Installed	40.0	\$903.10	\$274.76	\$410.23	\$0.00	\$567.50	\$2,155.59
DPJT / Driveway Pipe - Jetted	10.0	\$223.38	\$110.80	\$46.07	\$0.00	\$149.55	\$529.80
ESTP / Estimating Project	2.0	\$88.54	\$0.00	\$0.00	\$0.00	\$67.92	\$156.46
HAUL / Hauling	67.0	\$1,449.21	\$716.90	\$2,046.23	\$0.00	\$921.94	\$5,134.28
HYDR / Hydroseeding	46.0	\$1,037.74	\$141.90	\$246.88	\$0.00	\$651.57	\$2,078.09
LM / Loading Materials	46.0	\$1,082.14	\$256.72	\$53.21	\$0.00	\$676.88	\$2,068.95
ODCO / Outfall ditch - cleaned out	30.0	\$686.80	\$235.00	\$57.26	\$0.00	\$423.30	\$1,402.36
ODGRB / Outfall ditch - grubbed	53.0	\$1,238.27	\$300.16	\$105.29	\$0.00	\$773.54	\$2,417.26
ONJV / Onsite Job Visit	19.0	\$605.84	\$68.78	\$38.40	\$0.00	\$396.55	\$1,109.57
PI / Project Inspection	2.0	\$88.54	\$7.24	\$9.60	\$0.00	\$67.92	\$173.30
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$300.00	\$0.00	\$300.00
PRRECON / Project Reconnaissance	5.0	\$155.88	\$7.24	\$9.60	\$0.00	\$103.63	\$276.35
RRI / Rip Rap - Installed	12.0	\$250.20	\$36.48	\$20.10	\$0.00	\$159.44	\$466.22
UTLOC / Utility locates	6.0	\$122.76	\$12.06	\$9.60	\$0.00	\$79.38	\$223.80
2014-006 / Rhumbline Road	341.0	\$8,019.22	\$2,175.28	\$3,062.07	\$300.00	\$5,101.29	\$18,657.86
Sub Total							
Grand Total	341.0	\$8,019.22	\$2,175.28	\$3,062.07	\$300.00	\$5,101.29	\$18,657.86

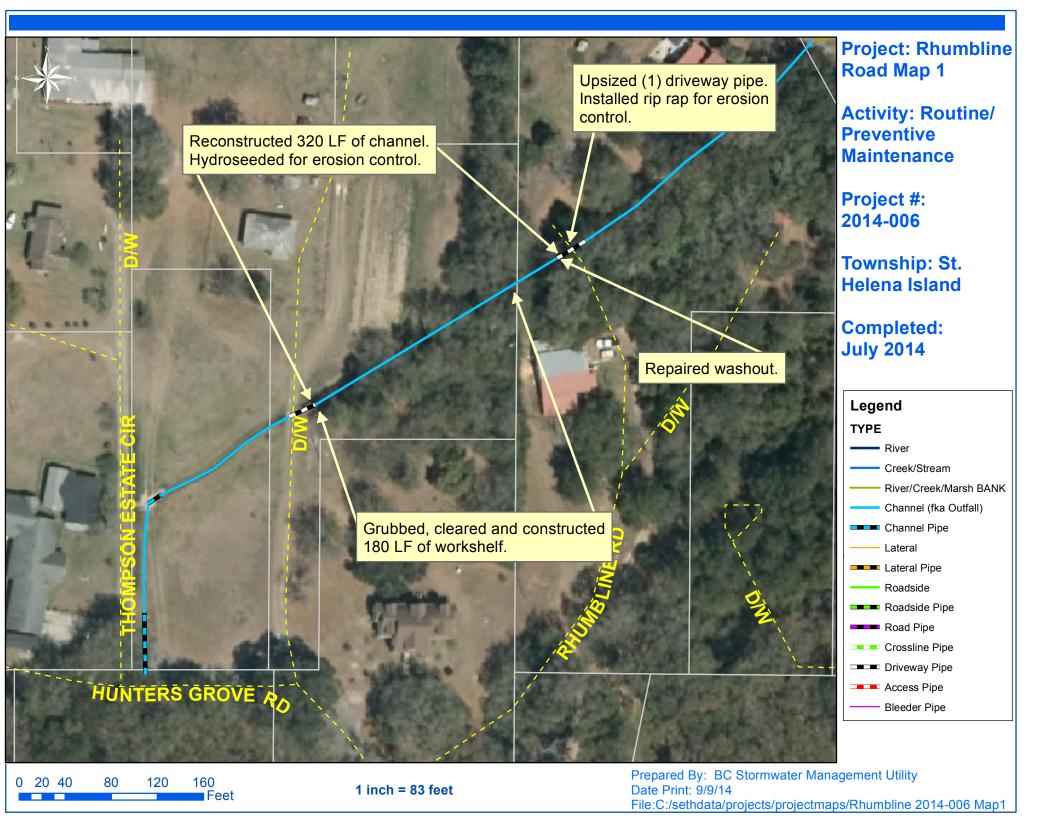


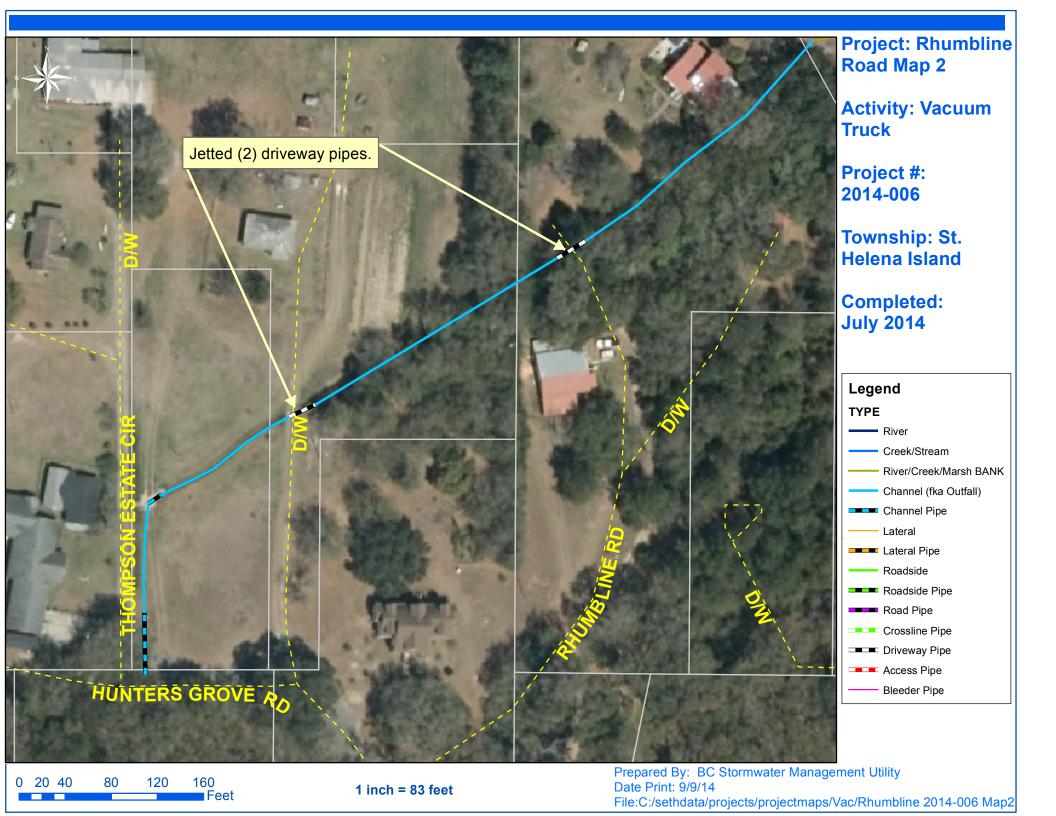




After









Stormwater Infrastructure

Project Summary

Project Summary: Burton Wells Lake Repair

Activity: Drainage Improvement

Narrative Description of Project:

Completion: Aug-14

Project improved 400 L.F. drainage system. Installed (1) drain basin, (6) inline grates 300 L.F. of channel pipe, reinforcement mat, strawmat and hydroseeded for erosion prevention. Constructed 100 L.F. of swale. Repaired washouts.

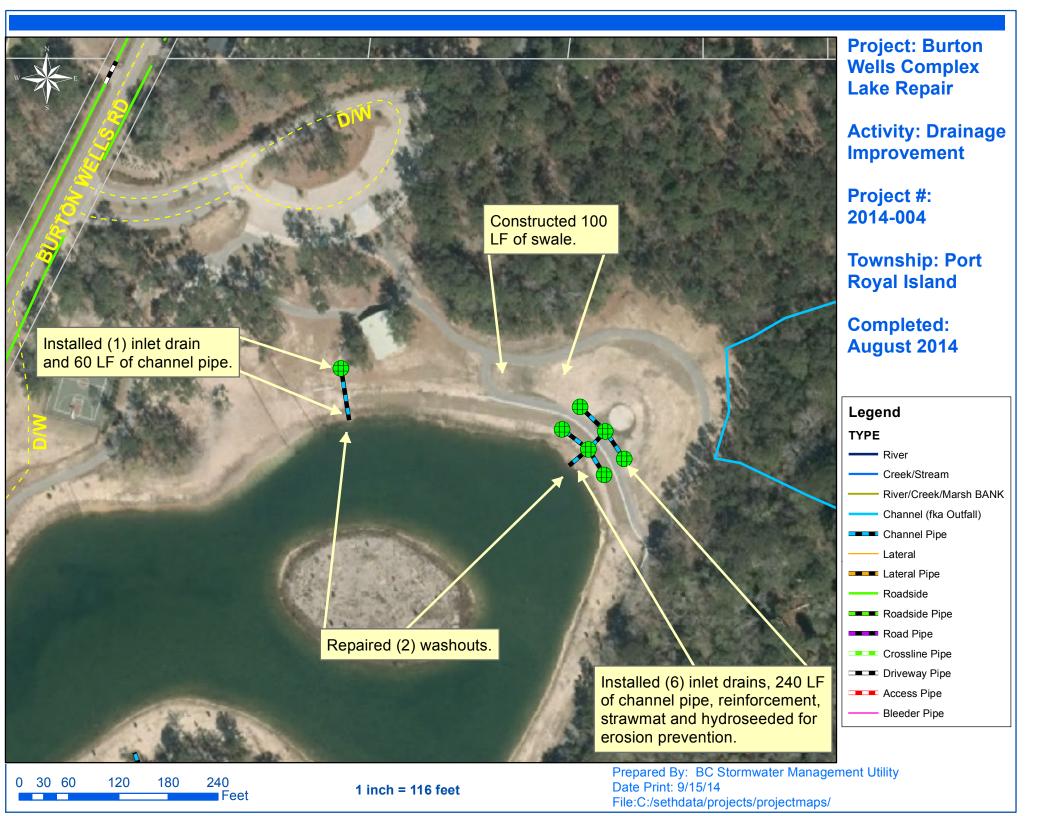
2014-004 / Burton Wells Lake Repair	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
CLJS / Cleaned up jobsite	88.0	\$2,035.44	\$308.16	\$137.97	\$0.00	\$1,307.86	\$3,789.43
HAUL / Hauling	40.0	\$907.96	\$428.00	\$460.38	\$0.00	\$613.75	\$2,410.09
HYDR / Hydroseeding	48.0	\$1,107.63	\$130.25	\$258.00	\$0.00	\$713.46	\$2,209.34
OFPI / Outfall Pipe - Installation	90.0	\$2,017.40	\$359.16	\$5,895.30	\$0.00	\$1,301.80	\$9,573.66
ONJV / Onsite Job Visit	41.0	\$1,325.65	\$148.82	\$54.54	\$0.00	\$882.24	\$2,411.25
PI / Project Inspection	2.0	\$88.54	\$7.24	\$6.06	\$0.00	\$67.92	\$169.76
PL / Project Layout	9.0	\$398.43	\$32.58	\$21.21	\$0.00	\$305.64	\$757.86
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$607.47	\$0.00	\$607.47
UTLOC / Utility locates	27.0	\$629.34	\$25.34	\$18.18	\$0.00	\$426.77	\$1,099.63
WEED / Weedeating	10.0	\$210.45	\$18.10	\$12.12	\$0.00	\$138.25	\$378.92
2014-004 / Burton Wells Lake Repair	356.0	\$8,741.30	\$1,457.65	\$6,863.75	\$607.47	\$5,770.92	\$23,441.10
Sub Total							
Grand Total	356.0	\$8,741.30	\$1,457.65	\$6,863.75	\$607.47	\$5,770.92	\$23,441.10













Beaufort County Public Works Stormwater Infrastructure

Project Summary

Project Summary: Burton Wells Sports Complex Pond Maintenance

Activity: Pond Maintenance

Narrative Description of Project:

Completion: Aug-14

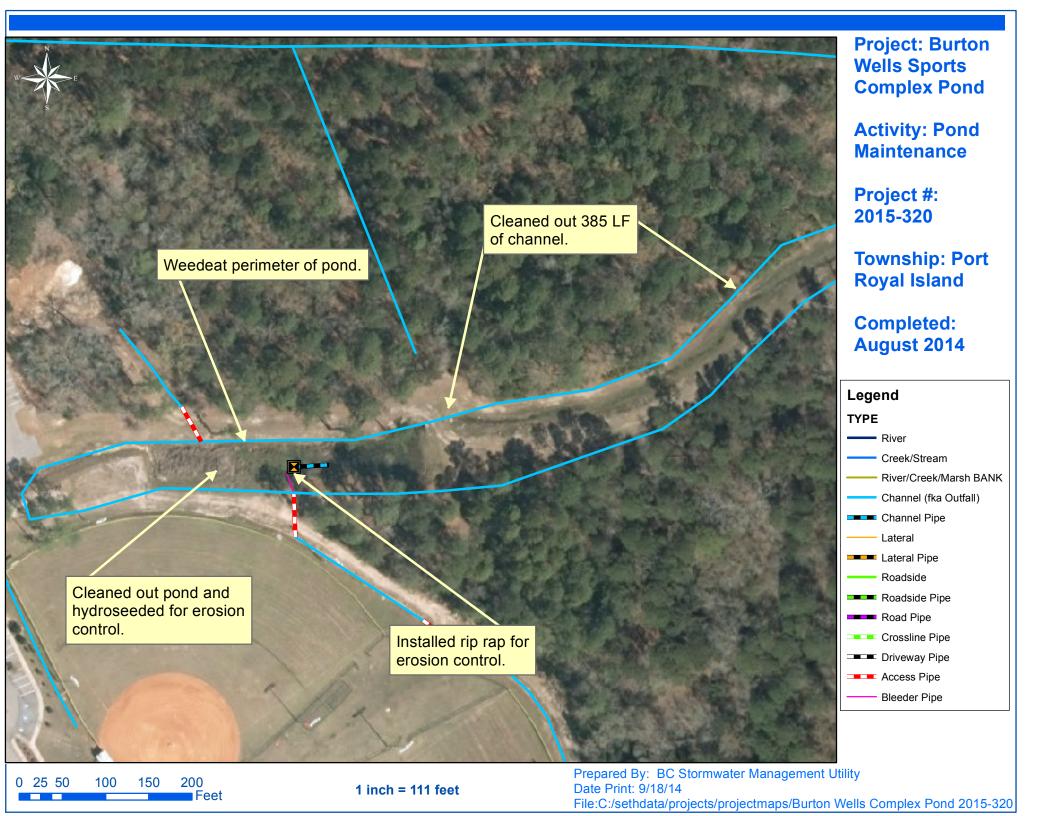
Project improved 385 L.F. of drainage system. Cleaned out pond and 385 L.F. of channel. Weedeat perimeter of pond. Installed rip rap and hydroseeded for erosion control.

2015-320 / Burton Wells Sports Complex Pond	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
	Hours	Cost	Cost	Cost	Cost	Laboi	Total Cost
AUDIT / Audit Project	1.5	\$30.69	\$0.00	\$0.00	\$0.00	\$19.85	\$50.54
HAUL / Hauling	200.5	\$4,550.67	\$2,314.87	\$1,864.39	\$0.00	\$2,802.23	\$11,532.15
HYDR / Hydroseeding	30.0	\$698.40	\$129.30	\$266.65	\$0.00	\$474.00	\$1,568.35
LM / Loading Materials	4.0	\$86.52	\$83.67	\$16.40	\$0.00	\$57.68	\$244.27
ODCO / Outfall ditch - cleaned out	45.5	\$1,020.19	\$113.50	\$136.76	\$0.00	\$672.62	\$1,943.07
ONJV / Onsite Job Visit	46.0	\$1,567.04	\$173.76	\$112.11	\$0.00	\$1,089.48	\$2,942.39
PM / Ponds - Maintenance	172.0	\$3,790.36	\$229.38	\$550.04	\$0.00	\$2,277.12	\$6,846.90
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$5,474.32	\$0.00	\$5,474.32
RRI / Rip Rap - Installed	20.0	\$451.50	\$93.41	\$81.82	\$0.00	\$298.05	\$924.78
2015-320 / Burton Wells Sports Complex Pond	519.5	\$12,195.37	\$3,137.89	\$3,028.17	\$5,474.32	\$7,691.02	\$31,526.77
Sub Total							
Grand Total	519.5	\$12,195.37	\$3,137.89	\$3,028.17	\$5,474.32	\$7,691.02	\$31,526.77











Stormwater Infrastructure

Project Summary

Project Summary: Beaufort County Administration Building Pond

Activity: Pond Maintenance

Narrative Description of Project:

Completion: Sep-14

Grubbed, cleared and reconstructed (2) existing ponds. Extended 24 L.F. of channel pipe. Installed strawmat, rip rap and hydroseeded for erosion control.

2014-321 / Beaufort County Admin Building Pond	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	1.5	\$30.69	\$0.00	\$0.00	\$0.00	\$19.85	\$50.54
HAUL / Hauling	311.3	\$7,099.20	\$3,537.87	\$4,038.46	\$0.00	\$4,696.28	\$19,371.81
HYDR / Hydroseeding	160.0	\$3,585.90	\$714.34	\$1,218.05	\$0.00	\$2,186.10	\$7,704.39
LM / Loading Materials	89.0	\$2,224.07	\$468.65	\$391.46	\$0.00	\$1,166.94	\$4,251.12
OFPI / Outfall Pipe - Installation	85.5	\$2,016.24	\$653.09	\$557.86	\$0.00	\$1,178.81	\$4,406.00
ONJV / Onsite Job Visit	40.0	\$1,596.57	\$144.80	\$94.43	\$0.00	\$1,178.87	\$3,014.67
PGC / Pond - Grubb and Clear	160.0	\$3,675.86	\$575.93	\$244.73	\$0.00	\$2,066.55	\$6,563.08
PI / Project Inspection	2.0	\$88.54	\$7.24	\$6.06	\$0.00	\$67.92	\$169.76
PL / Project Layout	14.0	\$619.78	\$50.68	\$24.24	\$0.00	\$475.44	\$1,170.14
PM / Ponds - Maintenance	56.0	\$1,324.20	\$246.56	\$181.43	\$0.00	\$821.52	\$2,573.71
PP / Project Preparation	15.0	\$458.90	\$21.72	\$18.18	\$0.00	\$312.14	\$810.94
PROFS / Professional Services	0.0	\$0.00	\$0.00	\$0.00	\$6,136.82	\$0.00	\$6,136.82
RRI / Rip Rap - Installed	84.0	\$1,875.34	\$495.45	\$328.41	\$0.00	\$1,141.98	\$3,841.18
SC / Sediment Control	52.0	\$1,188.42	\$57.92	\$141.91	\$0.00	\$728.04	\$2,116.29
UTLOC / Utility locates	2.0	\$40.92	\$0.00	\$0.00	\$0.00	\$26.46	\$67.38
WSL / Workshelf - Level	60.0	\$1,394.30	\$277.04	\$194.97	\$0.00	\$749.00	\$2,615.31
2014-321 / Beaufort County Admin Building Pond	1,132.3	\$27,218.93	\$7,251.29	\$7,440.19	\$6,136.82	\$16,815.90	\$64,863.13
Sub Total							
Grand Total	1,132.3	\$27,218.93	\$7,251.29	\$7,440.19	\$6,136.82	\$16,815.90	\$64,863.13



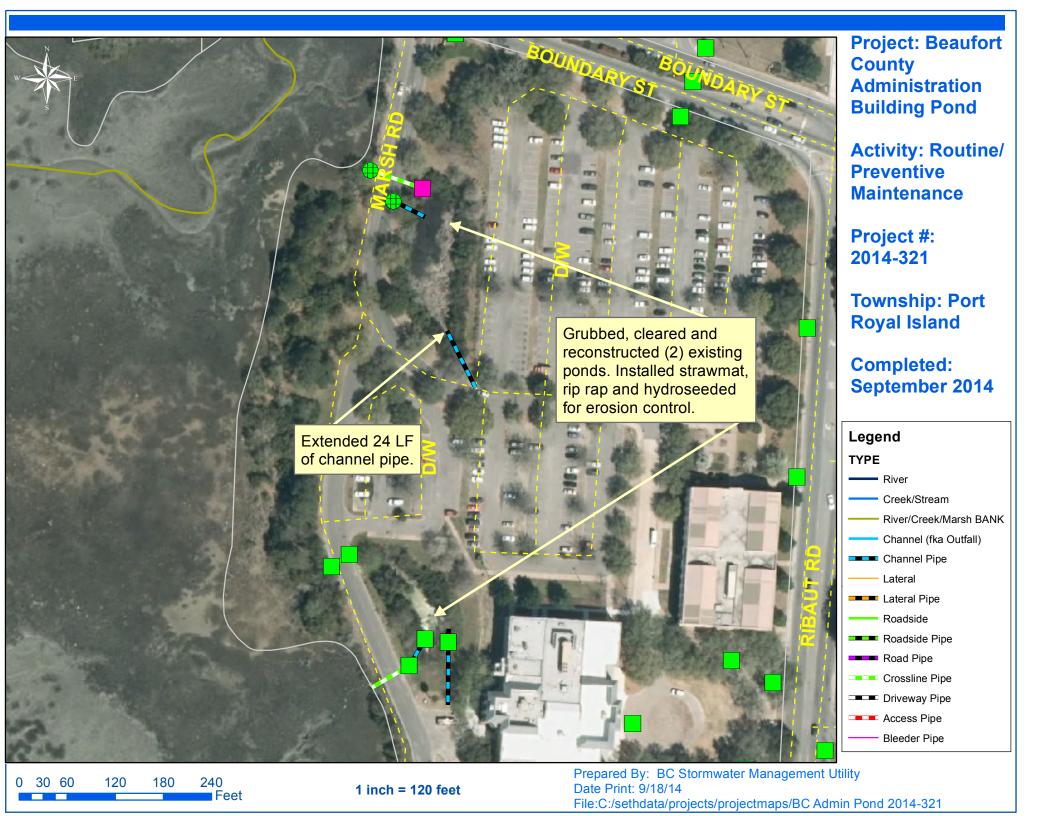


During



After







Stormwater Infrastructure

Project Summary

Project Summary: Sheldon Washout Repair - Backache Acres

Activity: Routine/Preventive Maintenance

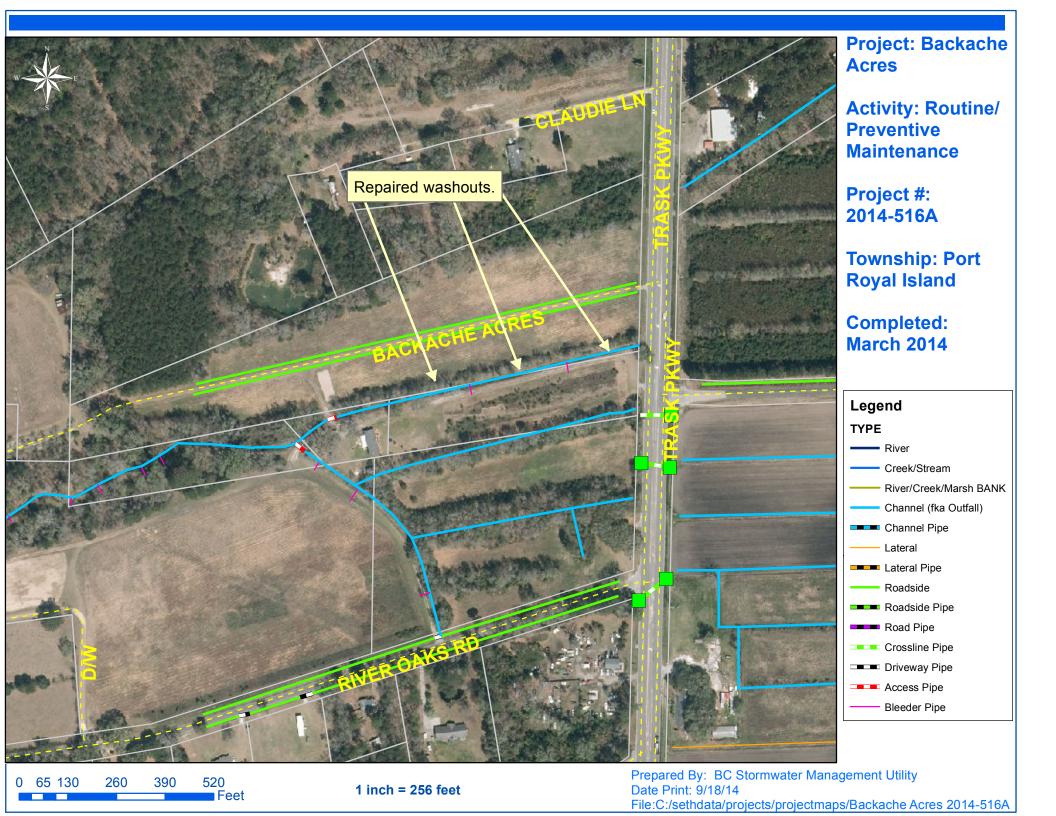
Completion: Mar-14

Narrative Description of Project:

Repaired washouts.

2014-516A / Sheldon Washout Repair	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project HAUL / Hauling RPWO / Repaired Washout 2014-516A / Sheldon Washout Repair Sub Total	0.5 9.0 10.0 19.5	\$10.23 \$206.42 \$210.44 \$427.09	\$0.00 \$96.30 \$40.10 \$136.40	\$0.00 \$31.82 \$0.00 \$31.82	\$0.00 \$0.00 \$0.00 \$0.00	\$6.62 \$140.03 \$132.30 \$278.94	\$16.85 \$474.57 \$382.84 \$874.25
Grand Total	19.5	\$427.09	\$136.40	\$31.82	\$0.00	\$278.94	\$874.25

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Stormwater Infrastructure

Project Summary

Project Summary: Port Royal Island Washout Repairs - Powell Drive and Salem Drive West

Activity: Routine/Preventive Maintenance

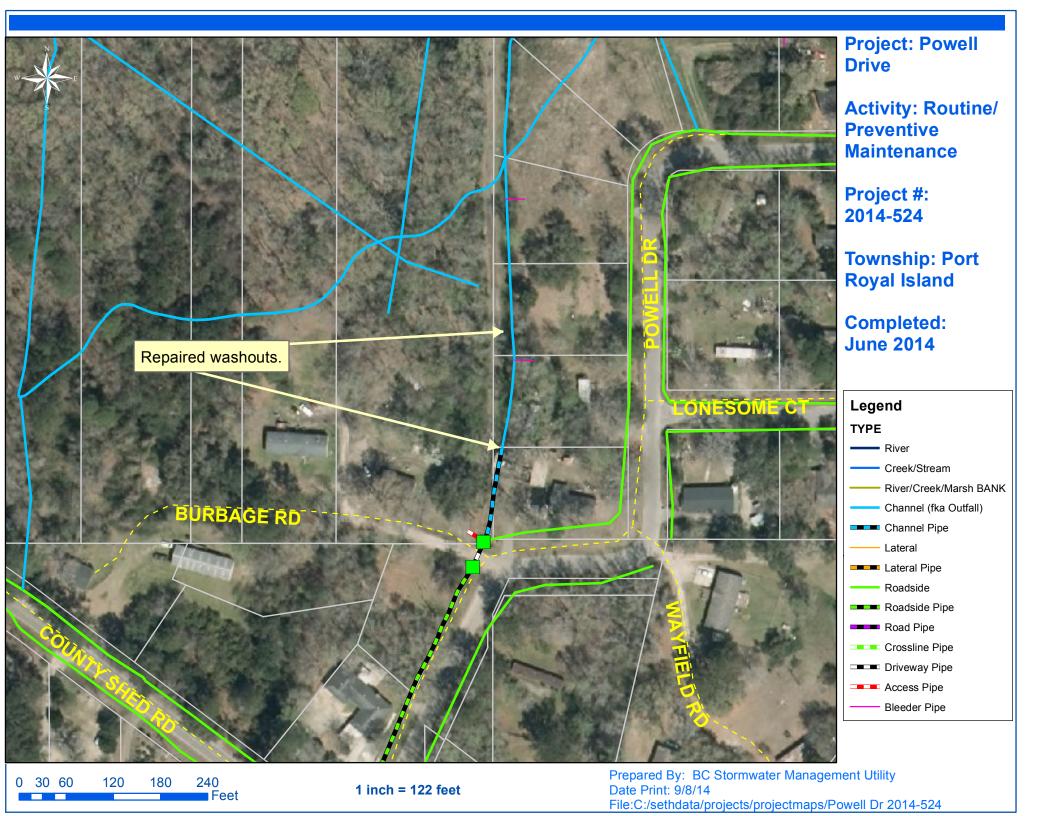
Completion: Jun-14

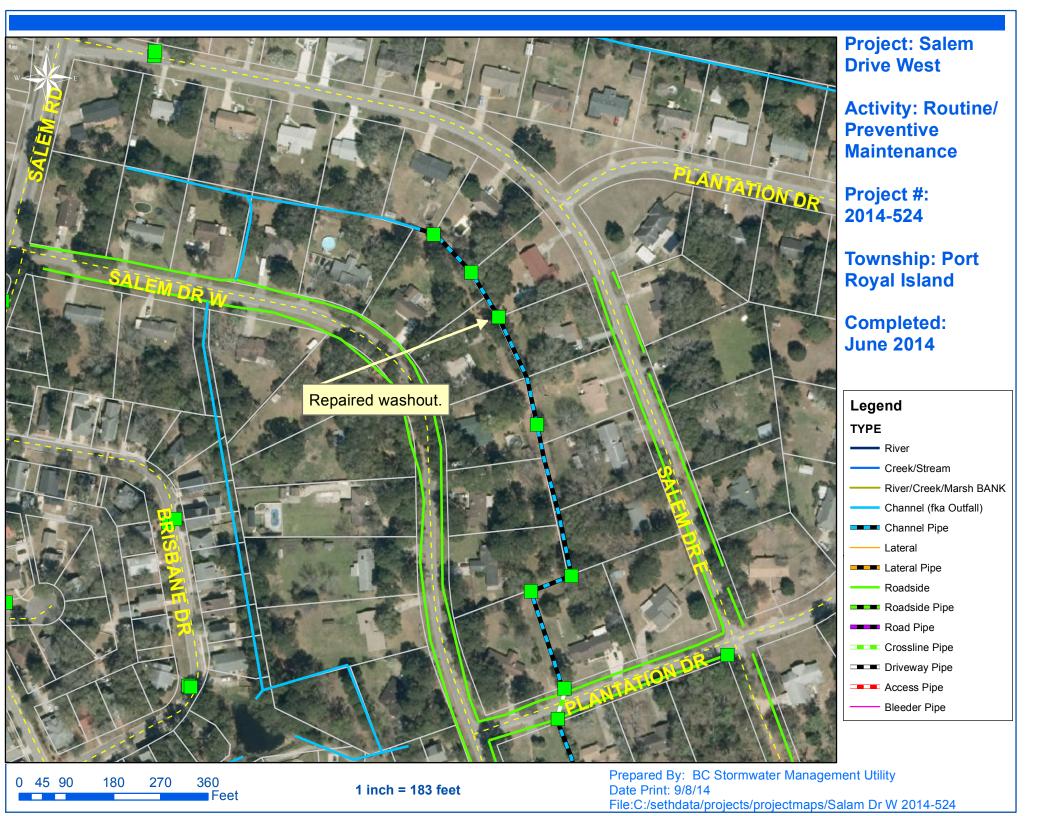
Narrative Description of Project:

Repaired washouts.

2014-524 / Port Royal Island Washout Repairs	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	5.0	\$104.64	\$53.50	\$32.27	\$0.00	\$72.10	\$262.51
RPWO / Repaired Washout	16.0	\$336.71	\$66.36	\$44.44	\$0.00	\$221.20	\$668.70
2014-524 / Port Royal Island Washout Repairs	21.5	\$451.58	\$119.86	\$76.71	\$0.00	\$299.92	\$948.06
Sub Total							
Grand Total	21.5	\$451.58	\$119.86	\$76.71	\$0.00	\$299.92	\$948.06

(Pictures Not Available)







Stormwater Infrastructure

Project Summary

Project Summary: Ardmore Avenue - Rework

Activity: Routine/Preventive Maintenance

Completion: Jun-14

Narrative Description of Project:

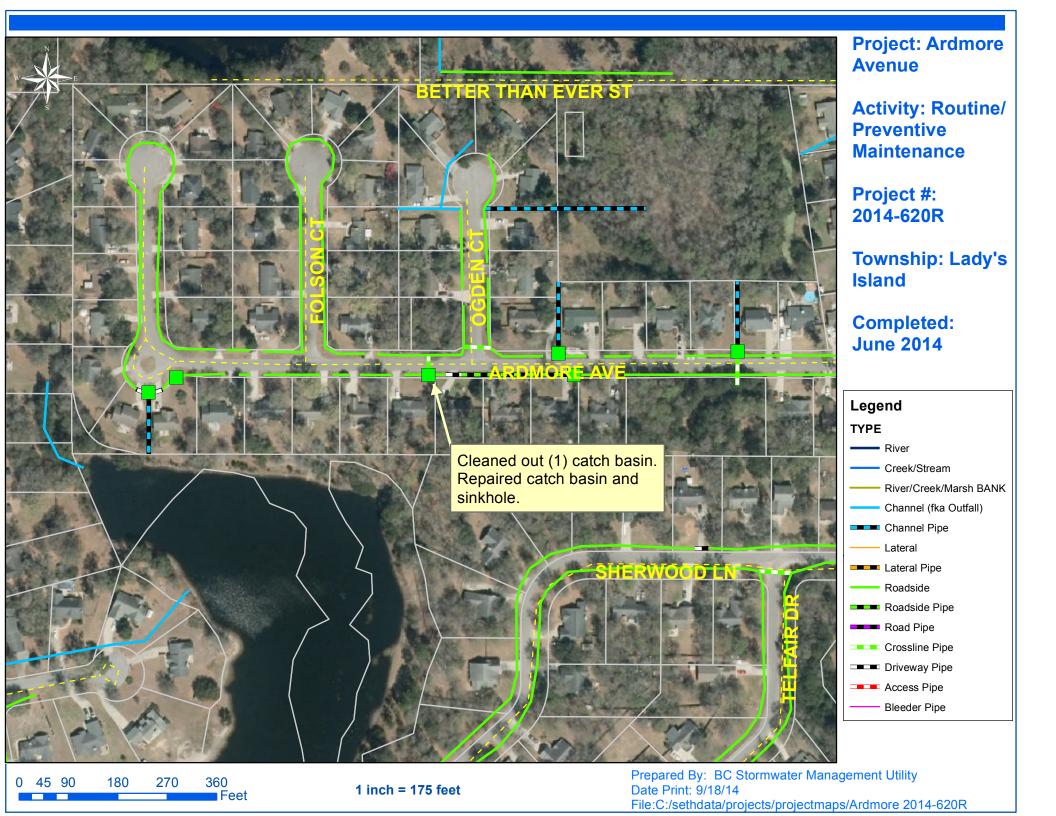
Cleaned out (1) catch basin. Repaired catch basin and sinkhole.

2014-620R / Ardmore Avenue - Rework	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	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	13.0	\$292.92	\$199.44	\$52.82	\$0.00	\$197.07	\$742.25
CBREP / Catch basin - repaired	34.0	\$790.54	\$136.28	\$174.39	\$0.00	\$522.12	\$1,623.33
ONJV / Onsite Job Visit	6.0	\$185.72	\$21.72	\$12.80	\$0.00	\$121.86	\$342.10
TRAIN / Training	1.0	\$19.28	\$0.00	\$0.00	\$0.00	\$12.21	\$31.49
2014-620R / Ardmore Avenue - Rework	54.5	\$1,298.69	\$357.44	\$240.01	\$0.00	\$859.88	\$2,756.01
Sub Total							
Grand Total	54.5	\$1,298.69	\$357.44	\$240.01	\$0.00	\$859.88	\$2,756.01











Stormwater Infrastructure

Project Summary

Project Summary: Airport Circle

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: June-14

Project improved 467 L.F. of drainage system. Bush hogged 467 L.F. of channel. Cleaned out 220 L.F. of channel.

2014-633 / Airport Circle	Labor	Labor	Equipment	Material	Contractor	Indirect	Total Coat
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
DLO / Ditch Layout	6.0	\$143.88	\$7.24	\$10.13	\$0.00	\$92.74	\$253.99
HAUL / Hauling	11.5	\$248.75	\$123.05	\$52.32	\$0.00	\$165.83	\$589.95
ODBH / Outfall ditch - bushhogged	6.0	\$134.10	\$40.10	\$22.49	\$0.00	\$86.67	\$283.36
ODCO / Outfall ditch - cleaned out	30.0	\$719.40	\$152.61	\$55.09	\$0.00	\$463.70	\$1,390.80
ONJV / Onsite Job Visit	3.0	\$89.52	\$10.86	\$15.95	\$0.00	\$54.69	\$171.02
PRRECON / Project Reconnaissance	2.0	\$88.54	\$7.24	\$6.38	\$0.00	\$67.92	\$170.08
2014-633 / Airport Circle	59.0	\$1,434.42	\$341.10	\$162.36	\$0.00	\$938.17	\$2,876.04
Sub Total							
Grand Total	59.0	\$1,434.42	\$341.10	\$162.36	\$0.00	\$938.17	\$2,876.04











Stormwater Infrastructure

Project Summary

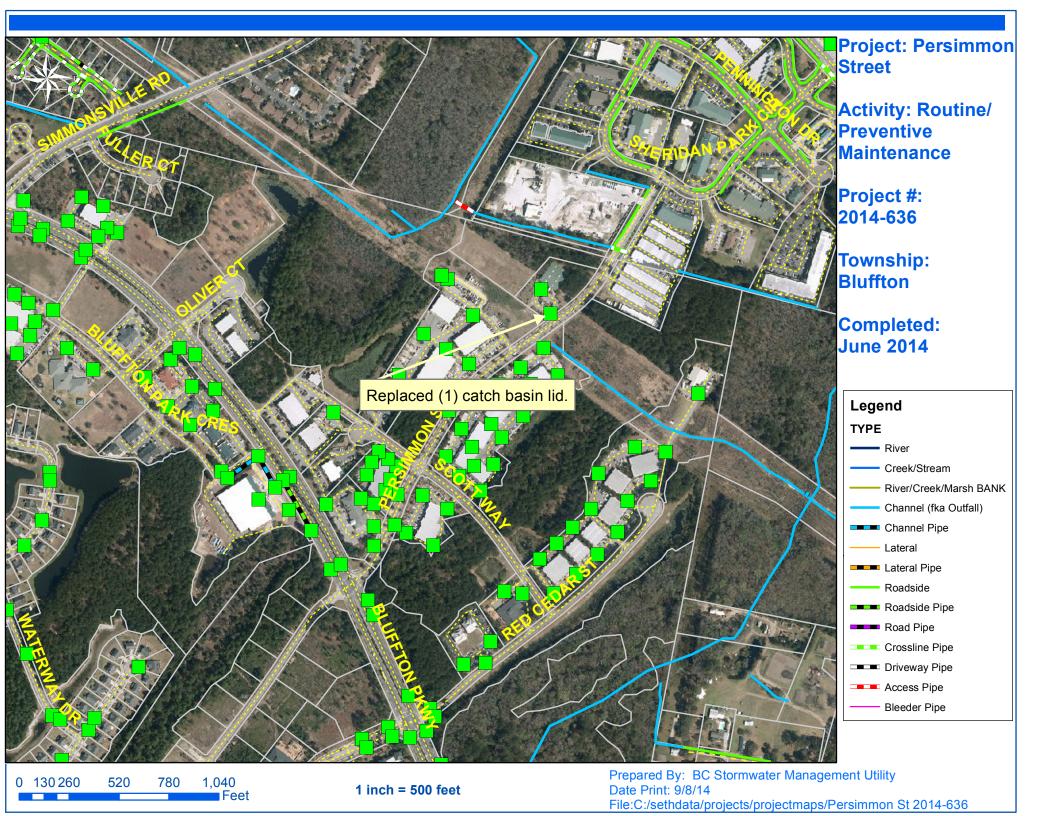
Project Summary: Persimmon Street Activity: Routine/Preventive Maintenance

Narrative Description of Project: Completion: Jun-14

Replaced (1) catch basin lid.

2014-636 / Persimmon Street	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CBLI / Catch Basin Lid - Installed	12.0	\$268.20	\$21.72	\$290.38	\$0.00	\$173.34	\$753.64
2014-636 / Persimmon Street	12.5	\$278.43	\$21.72	\$290.38	\$0.00	\$179.96	\$770.49
Sub Total							
Count Takel	12.5	¢270.42	ć24 7 2	¢200.20	¢0.00	£170.0C	ć770.40
Grand Total	12.5	\$278.43	\$21.72	\$290.38	\$0.00	\$179.96	\$770.49

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Stormwater Infrastructure

Project Summary

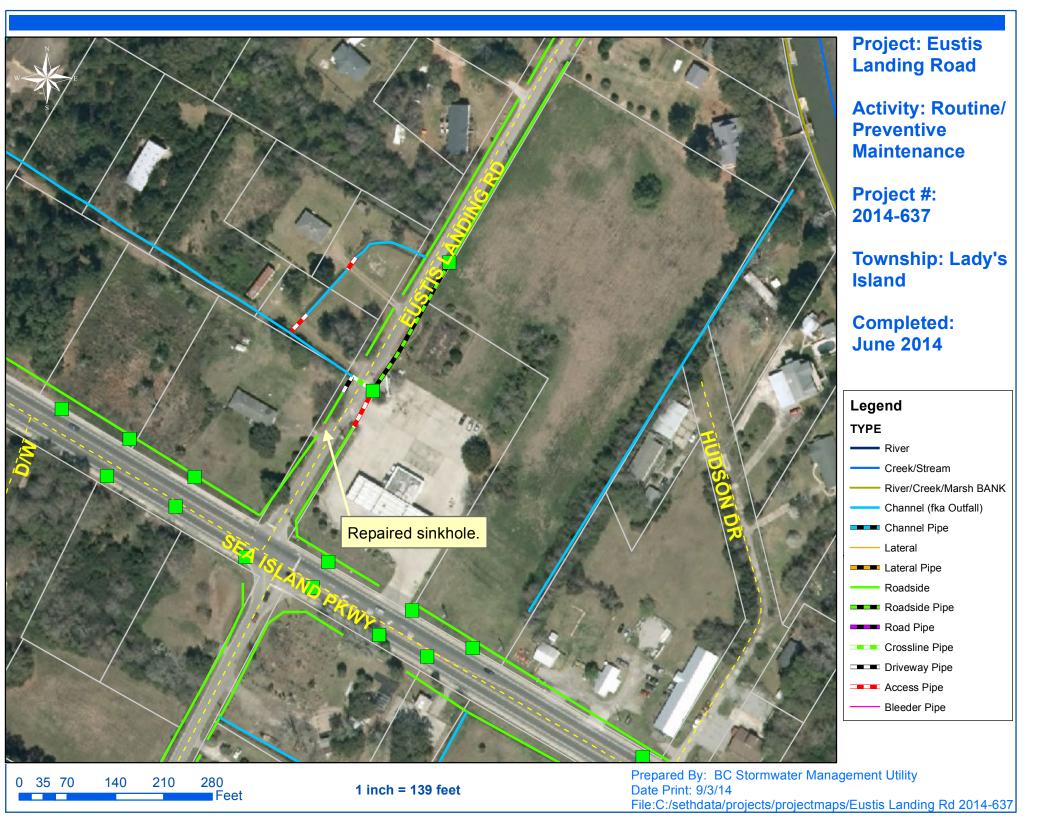
Project Summary: Eustis Landing Road Activity: Routine/Preventive Maintenance

Narrative Description of Project: Completion: Jun-14

Repaired sinkhole.

2014-637 / Eustis Landing Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project HAUL / Hauling SR / Sinkhole repair 2014-637 / Eustis Landing Road Sub Total	0.5 2.0 4.0 6.5	\$10.23 \$43.26 \$89.40 \$142.89	\$0.00 \$21.40 \$7.24 \$28.64	\$0.00 \$2.66 \$12.00 \$14.66	\$0.00 \$0.00 \$0.00 \$0.00	\$6.62 \$28.84 \$57.78 \$93.24	\$16.85 \$96.16 \$166.42 \$279.43
Grand Total	6.5	\$142.89	\$28.64	\$14.66	\$0.00	\$93.24	\$279.43

(Pictures Not Available)





Stormwater Infrastructure

Project Summary

Project Summary: Old Dawson Acres

Activity: Routine/Preventive Maintenance

Completion: Jun-14

Narrative Description of Project:

Removed (1) bleeder pipe.

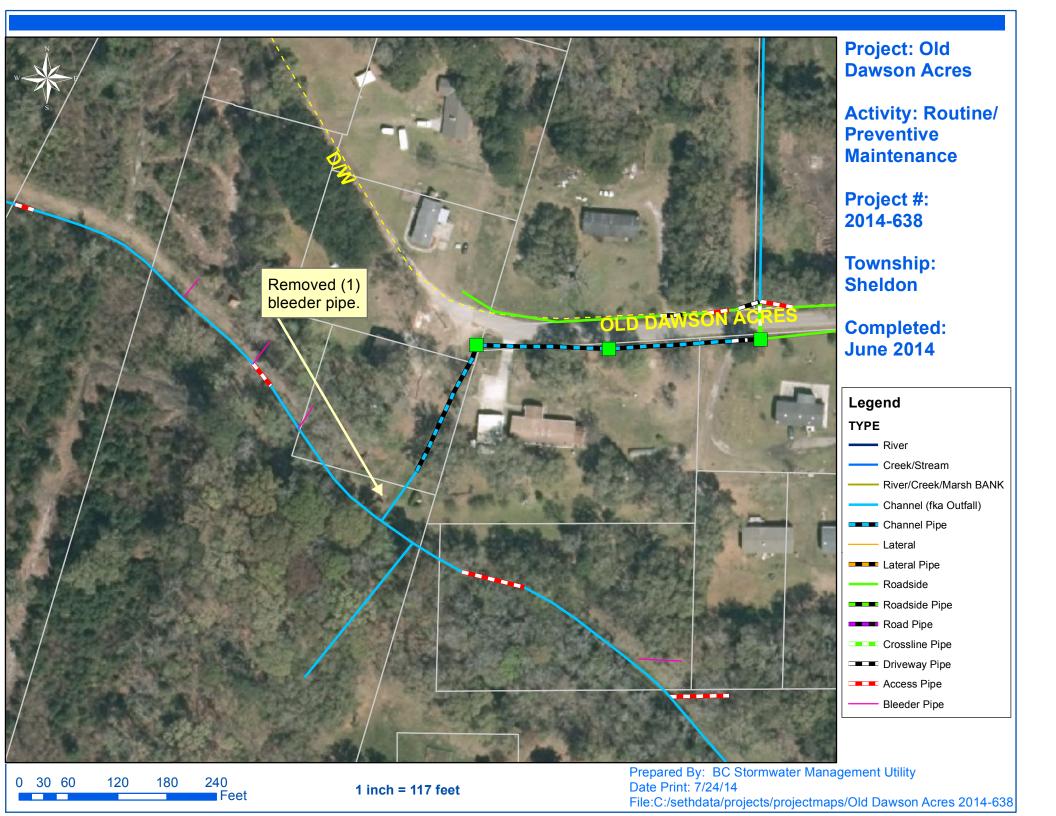
2014-638 / Old Dawson Acres	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project BPR / Bleeder Pipe - Removed HAUL / Hauling ONJV / Onsite Job Visit 2014-638 / Old Dawson Acres Sub Total	0.5 16.0 4.0 3.0 23.5	\$10.23 \$380.04 \$86.52 \$89.52 \$566.31	\$0.00 \$31.11 \$42.80 \$10.86 \$84.77	\$0.00 \$13.48 \$28.82 \$9.57 \$51.87	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$6.62 \$243.36 \$57.68 \$54.69 \$362.35	\$16.85 \$667.99 \$215.82 \$164.64 \$1,065.29
Grand Total	23.5	\$566.31	\$84.77	\$51.87	\$0.00	\$362.35	\$1,065.29

Before



After







Beaufort County Public Works Stormwater Infrastructure

Project Summary

Project Summary: St. Helena Island Tree Removal - Tombee Road and No Man Land Road

Activity: Routine/Preventive Maintenance

Completion: Jun-14

Narrative Description of Project:

Removed fallen trees from workshelf and channel.

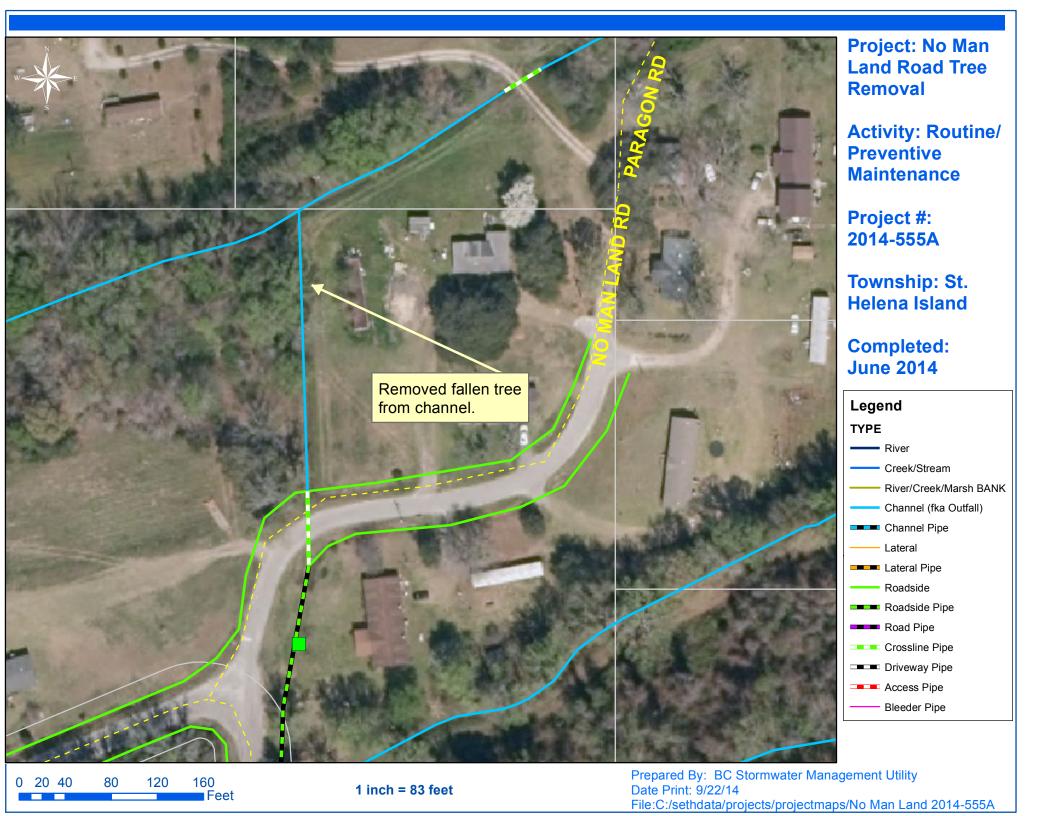
2014-555A / St. Helena Island Tree Removal	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project HAUL / Hauling RMTRD / Remove trees - Ditch RMTRW / Remove trees - Workshelf 2014-555A / St. Helena Island Tree Removal Sub Total	0.5 4.0 15.0 12.0 31.5	\$10.23 \$86.52 \$346.41 \$298.20 \$741.36	\$0.00 \$42.80 \$43.72 \$31.11 \$117.63	\$0.00 \$22.89 \$38.96 \$12.80 \$74.65	\$0.00 \$0.00 \$0.00 \$0.00 \$0.00	\$6.62 \$57.68 \$222.21 \$194.52 \$481.03	\$16.85 \$209.89 \$651.30 \$536.63 \$1,414.67
Grand Total	31.5	\$741.36	\$117.63	\$74.65	\$0.00	\$481.03	\$1,414.67

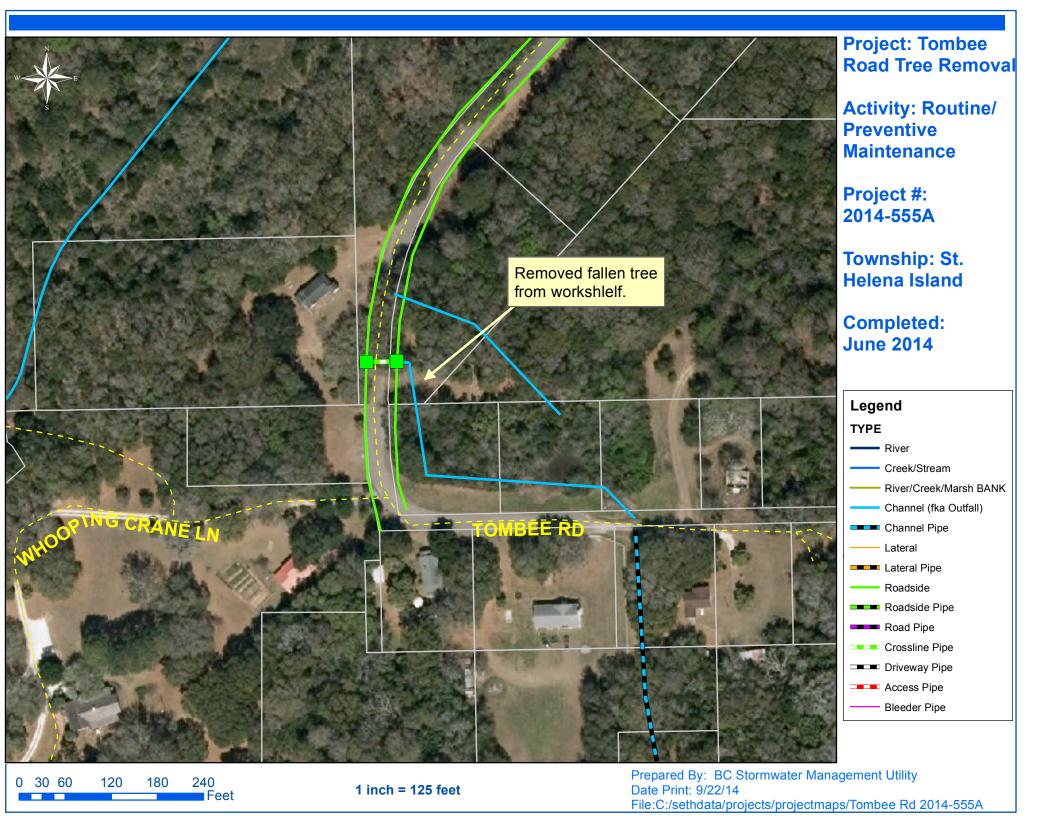




After









Stormwater Infrastructure

Project Summary

Project Summary: Sheldon Bush Hog

Activity: Routine/Preventive Maintenance

Completion: Jul-14

Narrative Description of Project:

First Rotation from May 2014 to July 2014. Project improved 79,883 L.F. of drainage system. Bush hogged 79,883 L.F. of channel and perimeter of pond. This project consisted of the following areas: Mitchell Road (4,958 L.F.), Paige Point Bluff (577 L.F.), Robinson Hill Road (1,820 L.F.), Rail Bed (1,470 L.F.), Johnson Road (3,737 L.F.), Archie Sumpter Road (1,720 L.F.), Cuthbert Farm Road (890 L.F.), George Williams Lane (3,403 L.F.), William Campbell Road (1,596 L.F.), Fire Station Lane (907 L.F.), Huspah Drive (665 L.F.), Huspah Circle South (2,291 L.F.), Huspah Circle North (784 L.F.), Bailey Road (2,700 L.F.), Nix Road (1,155 L.F.), Bailey Circle (1,300 L.F.), Prescott Road (1,689 L.F.), Albertha Fields Circle (2,102 L.F.) Horse Tail Road (1,536 L.F.), African Baptist Church Road (2,634 L.F.), Big Estate Road (2,022 L.F.), Joseph Lane (1,459 L.F.), Swallowtail Lane (2,265 L.F.), Newberry Circle (1,050 L.F.), Twickenham Road (7,541 L.F.), Gray Road (3,252 L.F.), Big Estate Circle (2,042 L.F.), Jenkins Road (635 L.F.), Stroban Road (2,774 L.F.), Horace Dawson Lane (8,931 L.F.), Dean Hall Road (348 L.F.), Pap-Kee Lane (1,394 L.F.), River Oak Road (2,707 L.F.) and Jasmine Hall Road (5,529 L.F.).

2015-303 / Sheldon Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
	nouis	Cost	Cost	Cost	Cost	Laboi	Total Cost
AUDIT / Audit Project	2.0	\$40.92	\$0.00	\$0.00	\$0.00	\$26.46	\$67.38
ODBH / Outfall ditch - bushhogged	748.0	\$15,303.94	\$14,437.22	\$2,812.00	\$0.00	\$5,470.08	\$38,023.24
ONJV / Onsite Job Visit	1.0	\$33.18	\$3.62	\$9.60	\$0.00	\$24.47	\$70.87
PDBH / Ponds - bushhogged	6.0	\$134.10	\$54.86	\$53.61	\$0.00	\$86.67	\$329.24
2015-303 / Sheldon Bush Hog	757.0	\$15,512.14	\$14,495.70	\$2,875.20	\$0.00	\$5,607.68	\$38,490.73
Sub Total							
Grand Total	757.0	\$15,512.14	\$14,495.70	\$2,875.20	\$0.00	\$5,607.68	\$38,490.73





During



After





Stormwater Infrastructure

Project Summary

Project Summary: Parkside Drive

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14

Repaired (1) catch basin lid and washout.

2015-501 / Parkside Drive	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
	nouis	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
CBLREP / Catch Basin Lid - Repaired	22.0	\$496.71	\$19.91	\$26.05	\$0.00	\$312.13	\$854.79
ONJV / Onsite Job Visit	8.0	\$238.72	\$28.96	\$16.00	\$0.00	\$145.84	\$429.52
RPWO / Repaired Washout	12.0	\$274.72	\$14.48	\$28.80	\$0.00	\$169.32	\$487.32
2015-501 / Parkside Drive	42.5	\$1,020.38	\$63.35	\$70.85	\$0.00	\$633.90	\$1,788.48
Sub Total							
Grand Total	42.5	\$1,020.38	\$63.35	\$70.85	\$0.00	\$633.90	\$1,788.48



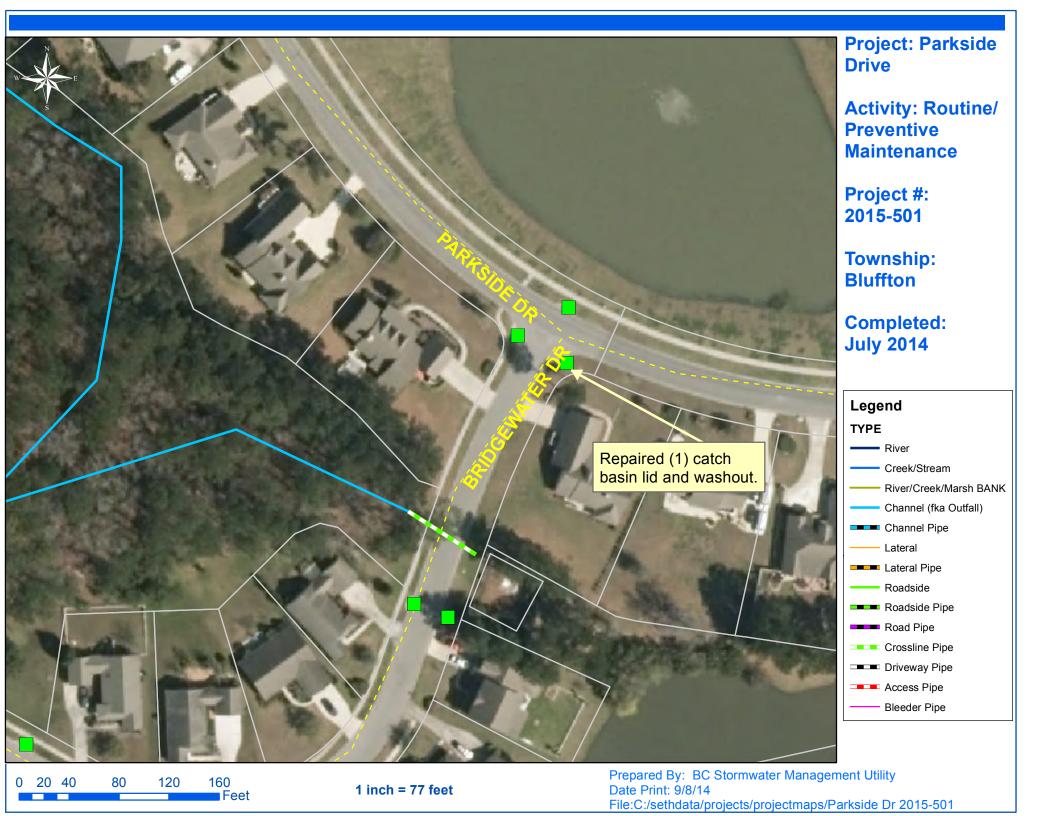


During



After







Stormwater Infrastructure

Project Summary

Project Summary: Iron Gate Subdivision

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14

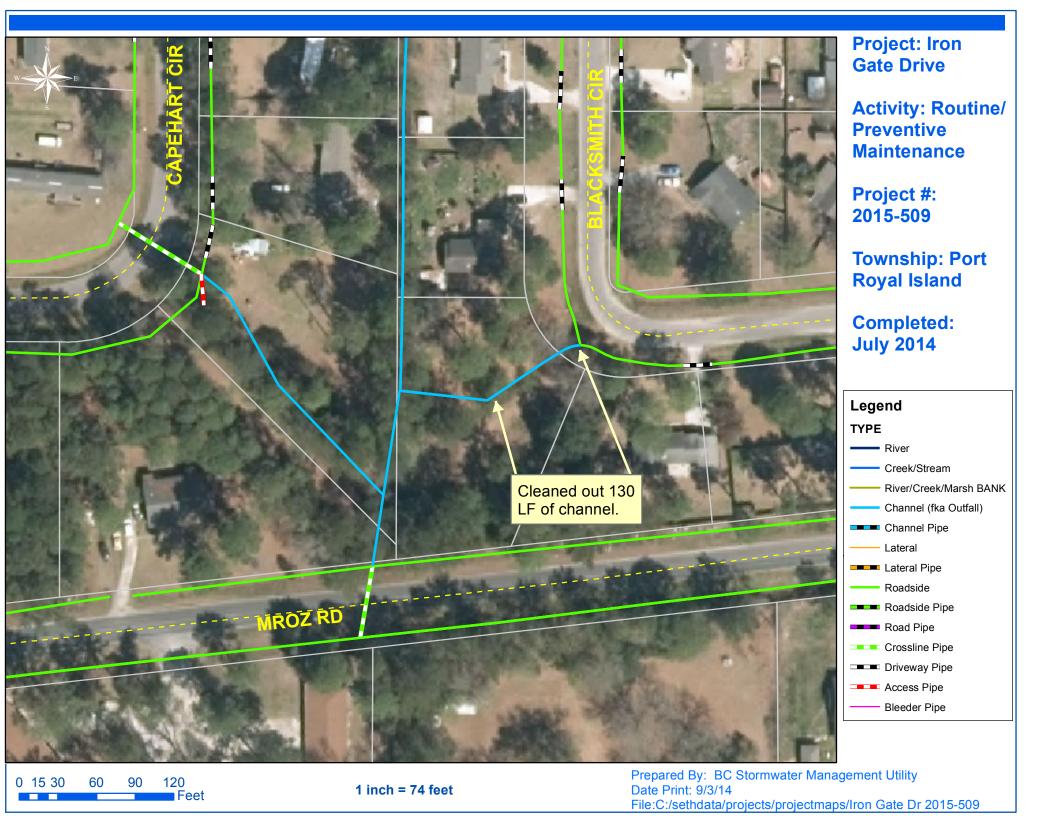
Project improved 130 L.F. of drainage system. Cleaned out 130 L.F. of channel.

2015-509 / Iron Gate Subdivision	Labor 	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	4.0	\$86.52	\$42.80	\$3.27	\$0.00	\$48.84	\$181.43
ODCO / Outfall ditch - cleaned out	9.0	\$184.10	\$50.62	\$13.08	\$0.00	\$82.95	\$330.75
ONJV / Onsite Job Visit	2.0	\$59.68	\$7.24	\$3.20	\$0.00	\$36.46	\$106.58
2015-509 / Iron Gate Subdivision	15.5	\$340.53	\$100.66	\$19.55	\$0.00	\$174.87	\$635.61
Sub Total							
Grand Total	15.5	\$340.53	\$100.66	\$19.55	\$0.00	\$174.87	\$635.61











Stormwater Infrastructure

Project Summary

Project Summary: Pin Oak Street/Able Street

Activity: Routine/Preventive Maintenance

Completion: Jul-14

Narrative Description of Project:

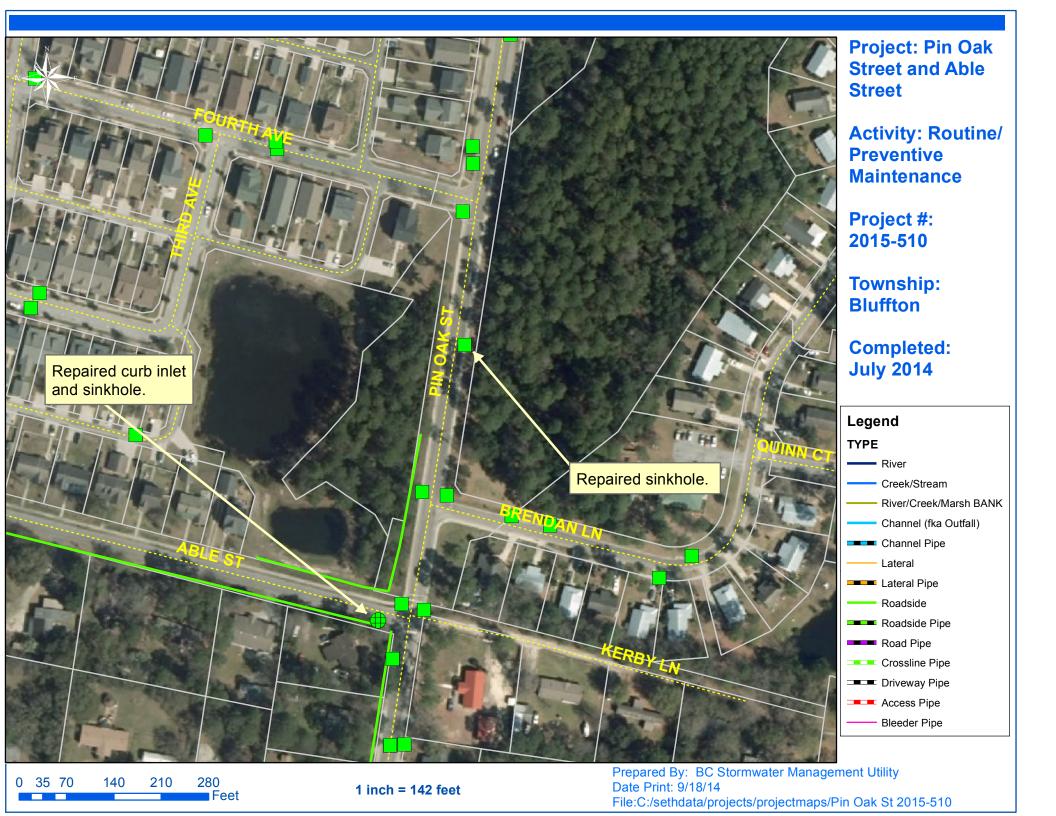
Repaired curb inlet and sinkholes.

2015-510 / Pin Oak Street/Able Street	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	19.0	\$410.97	\$203.30	\$166.96	\$0.00	\$260.72	\$1,041.95
ONJV / Onsite Job Visit	14.0	\$432.19	\$50.68	\$48.00	\$0.00	\$270.95	\$801.82
RCI / Repaired Curb Inlet	42.0	\$945.98	\$63.69	\$132.73	\$0.00	\$598.45	\$1,740.85
UTLOC / Utility locates	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
2015-510 / Pin Oak Street/Able Street Sub Total	76.0	\$1,809.60	\$317.67	\$347.69	\$0.00	\$1,143.35	\$3,618.30
Grand Total	76.0	\$1,809.60	\$317.67	\$347.69	\$0.00	\$1,143.35	\$3,618.30











Stormwater Infrastructure

Project Summary

Project Summary: Red Cedar Street

Activity: Routine/Preventive Maintenance

Completion: Aug-14

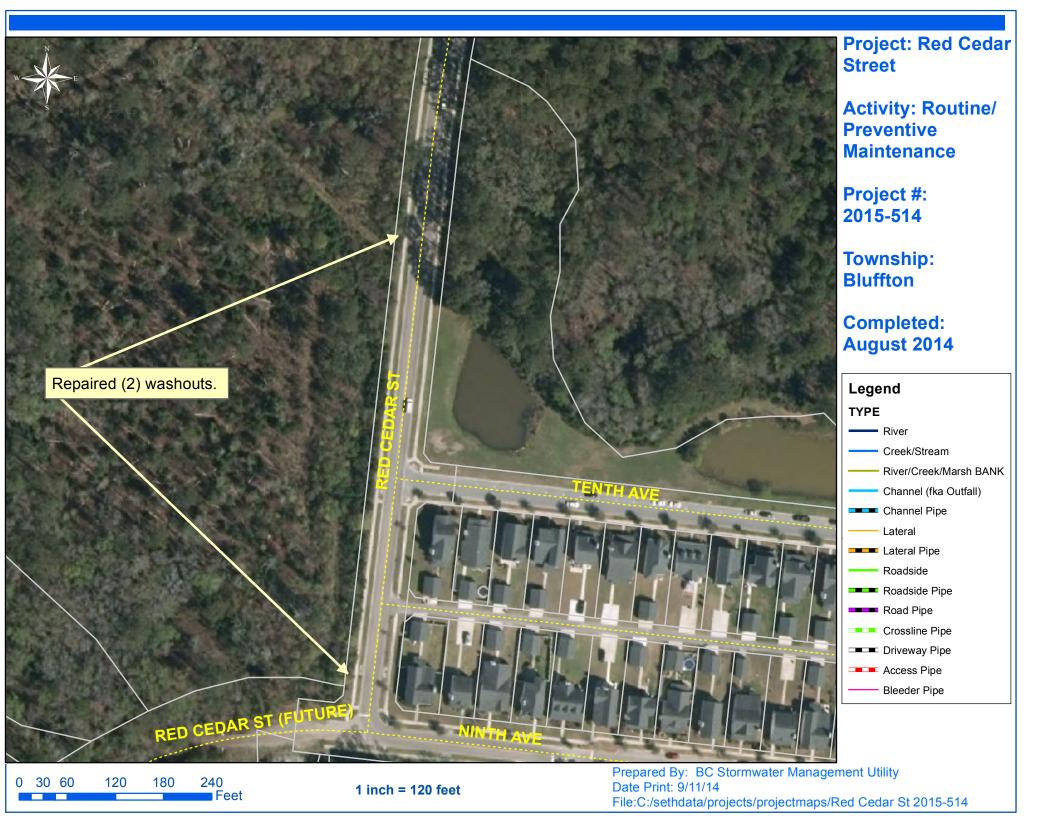
Narrative Description of Project:

Repaired (2) sinkholes.

2015-514 / Red Cedar Street	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
PRRECON / Project Reconnaissance	2.0	\$66.36	\$7.24	\$9.09	\$0.00	\$48.94	\$131.63
RPWO / Repaired Washout	21.0	\$437.85	\$54.54	\$86.88	\$0.00	\$279.02	\$858.29
SD / Soft Digging	10.0	\$223.38	\$110.80	\$33.80	\$0.00	\$149.55	\$517.53
2015-514 / Red Cedar Street	33.5	\$737.82	\$172.58	\$129.77	\$0.00	\$484.13	\$1,524.29
Sub Total							
Grand Total	33.5	\$737.82	\$1 72. 58	\$129.77	\$0.00	\$484.13	\$1,524.29









Stormwater Infrastructure

Project Summary

Project Summary: Hanna Avenue

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Aug-14

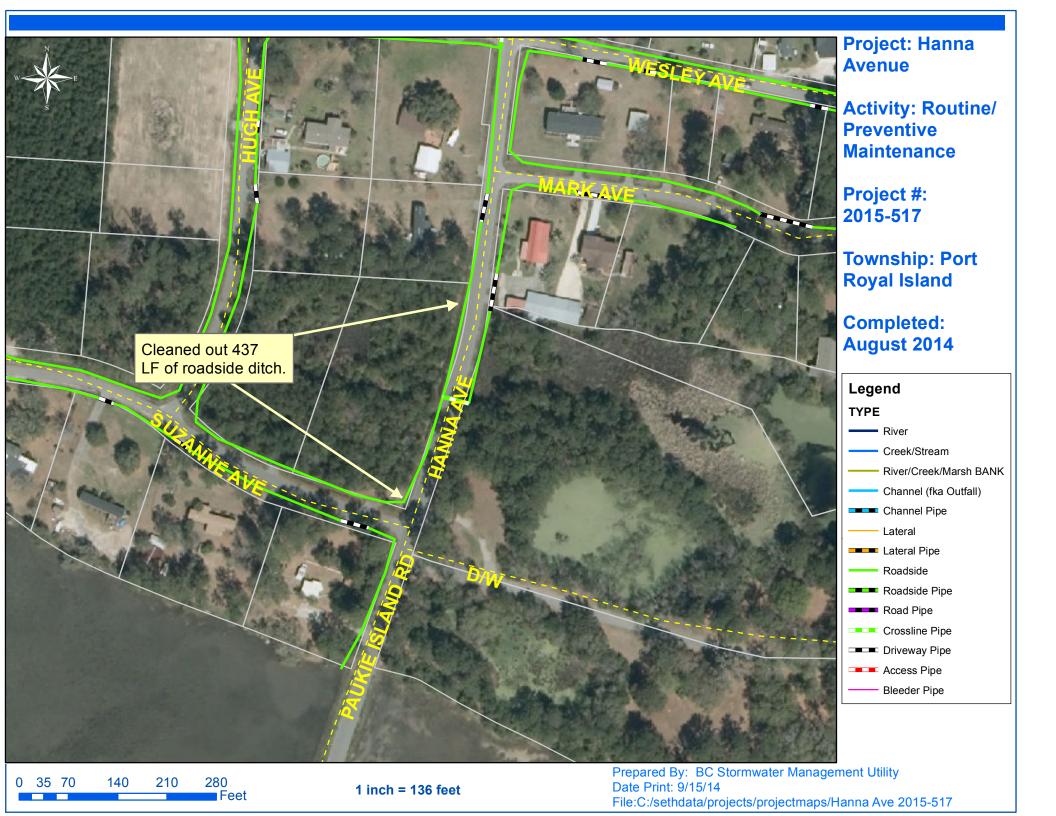
Project improved 437 L.F. of drainage system. Cleaned out 437 L.F. of roadside ditch.

2015-517 / Hanna Avenue	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	0.5	\$10.23	\$0.00	\$0.00	\$0.00	\$6.62	\$16.85
HAUL / Hauling	10.0	\$239.80	\$107.00	\$52.48	\$0.00	\$164.70	\$563.98
ONJV / Onsite Job Visit	5.0	\$165.90	\$18.10	\$18.18	\$0.00	\$122.35	\$324.53
PRRECON / Project Reconnaissance	3.0	\$99.54	\$10.86	\$9.09	\$0.00	\$73.41	\$192.90
RSDCL / Roadside Ditch - Cleanout	24.0	\$537.92	\$120.19	\$58.65	\$0.00	\$263.44	\$980.20
2015-517 / Hanna Avenue	42.5	\$1,053.39	\$256.15	\$138.40	\$0.00	\$630.52	\$2,078.45
Sub Total							
Grand Total	42.5	\$1,053.39	\$256.15	\$138.40	\$0.00	\$630.52	\$2,078.45











Stormwater Infrastructure

Project Summary

Project Summary: Holly Hall Road

Activity: Routine/Preventive Maintenance

Completion: Aug-14

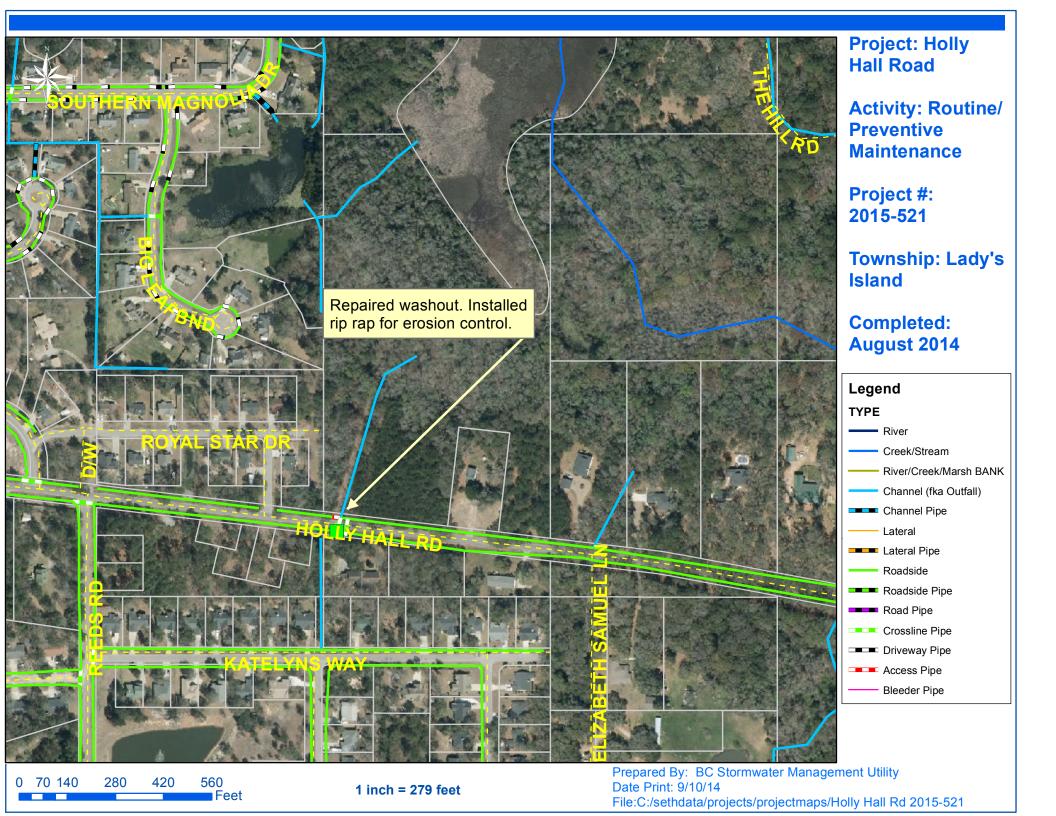
Narrative Description of Project:

Repaired washout. Installed rip rap for erosion control.

2015-521 / Holly Hall Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	5.0	\$102.30	\$0.00	\$0.00	\$0.00	\$66.15	\$168.45
HAUL / Hauling	4.0	\$86.52	\$42.80	\$434.97	\$0.00	\$57.68	\$621.97
ONJV / Onsite Job Visit	2.0	\$66.36	\$7.24	\$9.09	\$0.00	\$48.94	\$131.63
RPWO / Repaired Washout	24.0	\$502.70	\$58.20	\$44.44	\$0.00	\$328.09	\$933.43
2015-521 / Holly Hall Road	35.0	\$757.88	\$108.24	\$488.49	\$0.00	\$500.86	\$1,855.47
Sub Total							
Grand Total	35.0	\$757.88	\$108.24	\$488.49	\$0.00	\$500.86	\$1,855.47











BEAUFORT COUNTY STORMWATER MANAGEMENT UTILITY BOARD AGENDA

Wednesday, November 5, 2014 2:00 p.m.

Beaufort Industrial Village, Building 3 Conference Room 104 Industrial Village Road, Beaufort 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 October 1, 2014 (backup)
- 2. INTRODUCTIONS
- 3. PUBLIC COMMENT
- 4. REPORTS
 - A. Special Presentation Final MS4 Permit Application Eric Larson, P.E. (backup)
 - B. Utility Update Eric Larson, P.E. (backup)
 - C. MS4 Update Eric Larson, P.E. (backup)
 - D. Monitoring Update Eric Larson, P.E. (backup)
 - E. Stormwater Implementation Committee Report Eric Larson, P.E. (backup)
 - F. Stormwater Related Projects Eric Larson, P.E. (backup)
 - G. Upcoming Professional Contracts Report Eric Larson, P.E. (backup)
 - H. Regional Coordination Eric Larson, P.E. (backup)
 - I. Financial Report (backup)
 - J. Maintenance Projects Report Eddie Bellamy (backup)
- 5. UNFINISHED BUSINESS
- 6. NEW BUSINESS
- 7. PUBLIC COMMENT
- 8. NEXT MEETING AGENDA A. December 3, 2014 (backup)
- 9. ADJOURNMENT



