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

October 1, 2014 at 2:00 p.m. in Beaufort Industrial Village Building #3 Conference Room

Board Members

Ex-Officio Members

Present	Absent	Present
Don Smith		Andy Kinghorn
Allyn Schneider		Kimberly Jones
William Bruggema	n	Scott Liggett
Patrick Mitchell		Van Willis
James Fargher		

Beaufort County Staff

Eric Larson Rob McFee Eddie Bellamy Carolyn Wallace Danny Polk Kevin Pitts

Visitors

Denise Parsick, Bft Soil & Water Conservation Dist Shelby Berry, Bft Soil & Water Conservation Dist Paul Moore, Ward Edwards

Absent

- **1. Meeting called to order** Don Smith
 - **A.** Agenda Approved with "Administrative Business" added to New Business.
 - **B.** September 3, 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 the county's draft of their Notice of Intent (NOI) to South Carolina's Department of Health and Environmental Control (DHEC) (please see attachment). He requested board members review the application and provide comments as soon as possible.
 - **B.** Utility Update Eric Larson

Personnel – Mr. Larson introduced the new Stormwater Inspector, Mr. Kevin Pitts.

Planning Department's Development Review Team (DRT) – Mr. Larson has been appointed by Mr. Rob McFee to sit on this committee as the representative from the Engineering Department.

Outfall Channels Draining SCDOT Roads – Mr. 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. The county is working to reach an understanding with SCDOT and "close the gap" in operational coverage.

C. MS4 Update – Eric Larson

Stormwater Public Education and Outreach – Mr. Larson provided a draft copy of the recommendation to County Council's Natural Resources Committee to approve the contract with Beaufort County Soil and Water Conservation District (please see attachment). He provided a presentation on the scope of the contract (please see attachment). The board members recommend that County Council approve the contract.

D. Monitoring Update – Eric Larson

Please see attached written report.

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

Please see attached written report.

F. Stormwater Related Projects – Eric Larson

Please see attached written report.

G. Professional Contracts Report – Eric Larson

Please see attached written report.

H. Regional Coordination - Eric Larson

Please see attached written report.

I. Financial Report – Alan Eisenman

Copies of the August financials were provided.

J. Maintenance Projects Report – Mr. Eddie Bellamy submitted his written report in advance (please see attachment) on six major and fifteen minor projects. Mr. Van Willis complimented the Stormwater Infrastructure Section on the Basil Green Complex (soccer fields) project. Mr. Bellamy said it is the section's first time constructing this type of project (underground vault) and it works well. He said the project was designed by Mr. Ezekiel Miller.

5. Unfinished Business

6. New Business – Eric Larson

Shadow Moss Drainage Easement - A new development adjacent to the property, Shadow Moss, is rerouting a drainage pipe via stormsewer through the development. The County's responsibility for maintenance of the ditch would end with this construction. Mr. Larson provided a draft copy of the recommendation to County Council's Natural Resources Committee to release the easement (please see attachment). The board recommended County Council release the easement.

Administrative Business – Mr. Larson would like the board members to review the information on annual attendance report, review their information on the roster, and complete the Conflict of Interest Reaffirmation form by the next board meeting. The most current draft will be e-mailed to the board members.

7. Public Comment(s) – None.

8. Next Meeting Agenda – Mr. Larson said he would like to add the approval of the 2015 SWMU Board meeting calendar. The agenda was approved with this addition.

9. Meeting Adjourned.



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

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



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 garukus

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.

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- 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 _______, 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 certify appeared before me this _2 \(\frac{15}{25} \) day of acknowledged the due execution of the foregoing instr	My Way, 2000, and
Notary Public for the State of South Carolina	_(L.S.)
My Commission expires: June 16,2010	And an analysis of the second
IN WITNESS WHEREOF, I (or we) have hereur 2010 day of May, , 2009.	nto set my (or our) hand and seal this
Signed, Sealed and Delivered in the Presence of:	
WITNESSES: GRAN	TOR:
Witness #1	Heide Trask
Move My Move Witness #2	
STATE OF SOUTH Canolina	ACKNOWLEDGEMENT

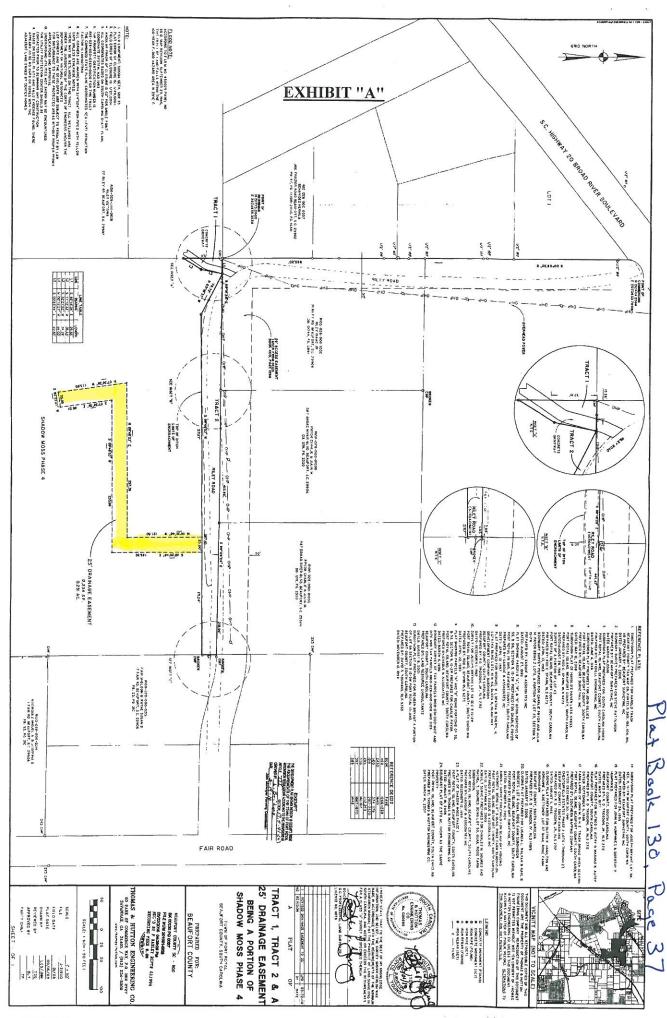
ACKNOWLEDGEMENT

I, the undersigned notary public, do hereby certify that the within named Grantor personally
appeared before me this 36 th day of MAY, 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		
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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 Sanda 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.



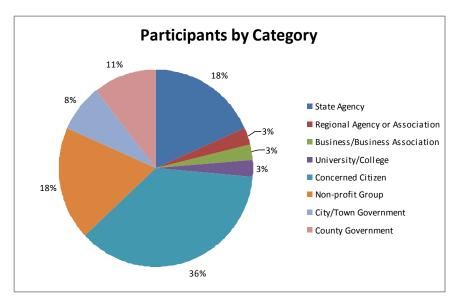




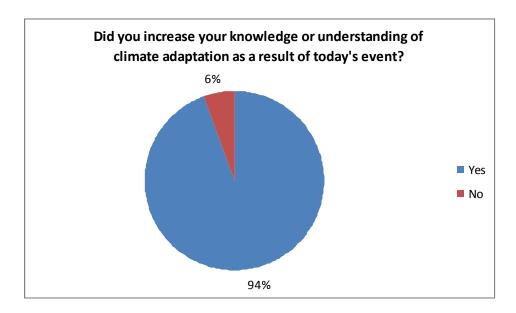




Evaluation Survey Highlights



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.

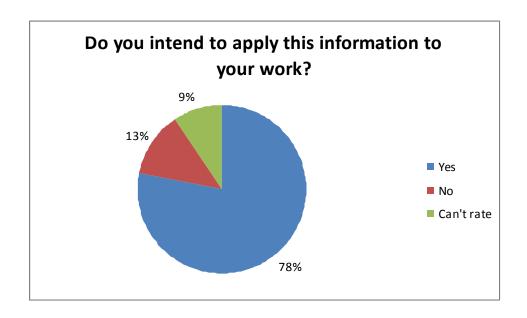












Up to 78% of survey respondents intend to apply this information to their work.

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)
- 2. 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.





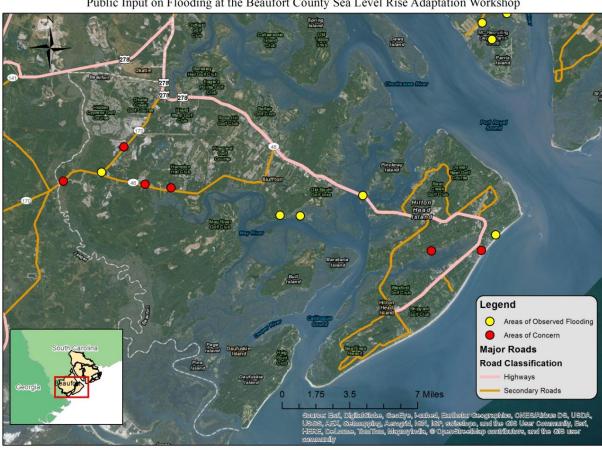






Participatory Mapping

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/







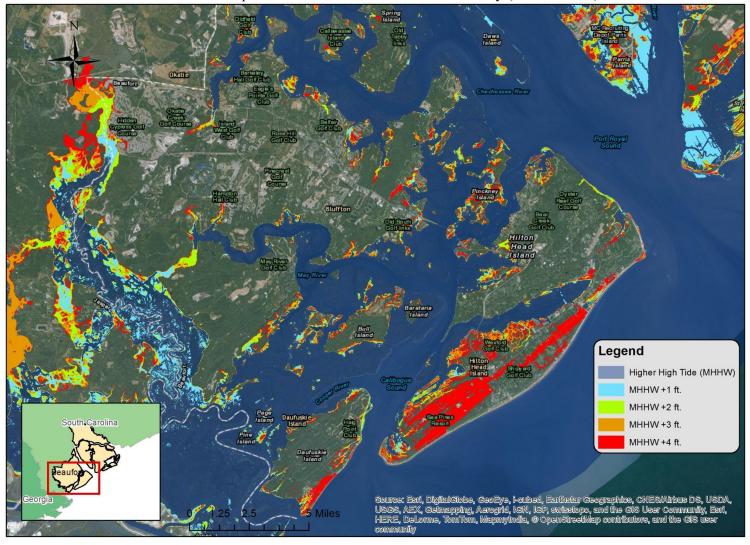




APPENDIX A Sea Level Rise Model of Beaufort County

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)





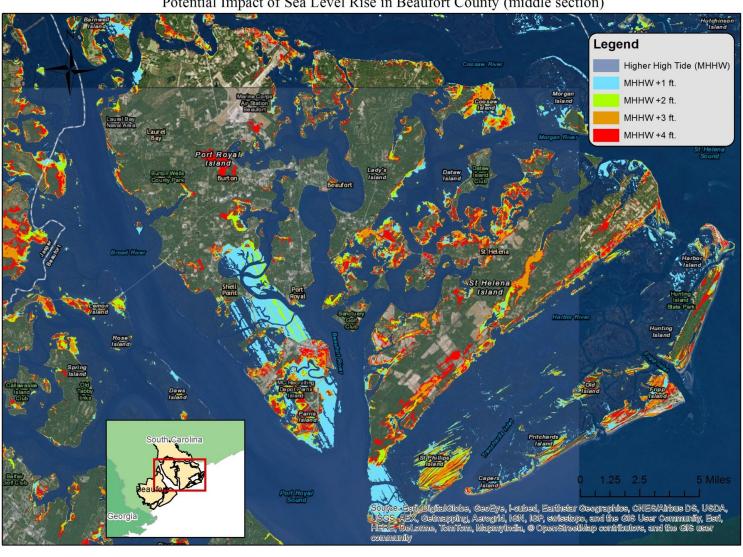








Potential Impact of Sea Level Rise in Beaufort County (middle section)



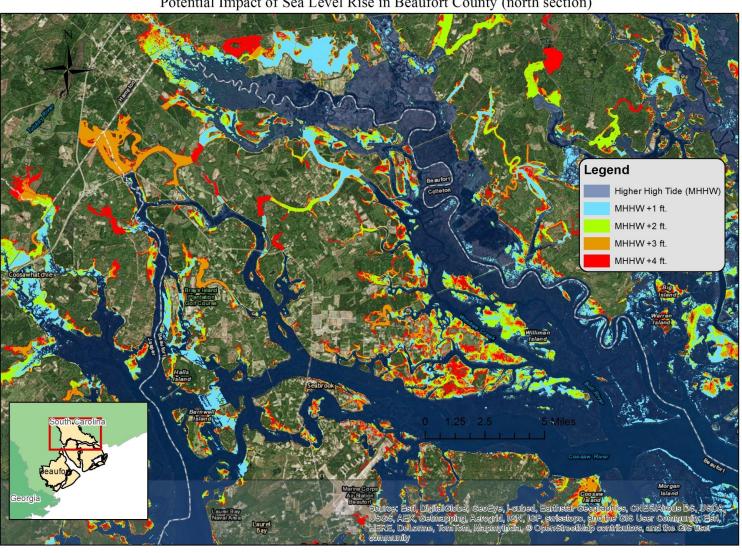








Potential Impact of Sea Level Rise in Beaufort County (north section)











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 rank you feel most appropriate		

South Carolina Department of Health and Environmental Control's Small Municipal Separate Storm Sewer System (SMS4) Notice of Intent (NOI)

> A Summary of Beaufort County Stormwater Utility's Permit Application

SWUB - October 1, 2014



Attachments included with permit application

- Current map of the MS4 system showing critical facilities, outfalls, etc.
- Current ordinances and regulations related to stormwater management, if applicable
- Listing of current stream impairments
- List of staff certifications for plan review, inspections
- Inventory of Municipal Facilities



Section 1 – Public Ed. & Outreach

Proposed Best Management Practices

- Brochures, printed guidance used in various ways to educate citizens
- Website provides education and input from citizens
- Event Participation festivals, volunteer events, speaking engagements
- School Stormwater programs Enviroscape, etc.
- Surveys measure citizen knowledge of issues
- Data Management



Section 2 - Public Involvement

Proposed Best Management Practices

- Storm Drain Stenciling
- Public Meetings seek input on permit, programs, guidance development
- Community Clean Ups
- Volunteer Speakers create a "Speakers Bureau" to educate others
- Data Management



Section 3 – Illicit Discharge, Detection, and Elimination

Proposed Best Management Practices

- Adequate Legal Authority develop written guidance and establish enforcement
- Outfall Inventory Map
- Outfall Screening for illicit discharges field inspection
- Prioritize other potential illicit discharges and nonstormwater discharges – monitor "hot spots"
- Education on illicit discharge staff and public
- Enforcement program / data management



Section 4 – Construction Site Runoff

Proposed Best Management Practices

- Revise Stormwater Management Ordinance add to BMP Manual to provide guidance and legal authority
- Develop Construction site control Best Management Practices – erosion & sediment and waste
- Create plan review procedures
- Define site inspection procedures and enforcement
- Receipt of Public Inquiries website / hot line
- Data Management

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Section 5 – Post Construction Stormwater Management

Proposed Best Management Practices

- Revise Stormwater Management Ordinance add to BMP Manual to provide legal authority
- Review and Revise practices defined in BMP Manual
- Mechanism for long term O&M of BMPs agreements / contracts / deed restrictions
- Define inspection procedures
- Enforcement
- Data Management



Section 6 – Pollution Prevention / Good Housekeeping for Municipal Operations

Proposed Best Management Practices

- Create / modify Spill Prevention plans for critical facilities
- Training of staff
- Create a spill response plan and train staff
- Parking lot and street cleaning reduce amount of pollutants in stormwater runoff
- Inventory system condition, prioritize needs
- Data Management





COUNTY COUNCIL OF BEAUFORT COUNTY

PURCHASING DEPARTMENT

102 Industrial Village Road, Building 3 Post Office Drawer 1228 Beaufort, South Carolina 29901-1228

TO: Councilman Brian Flewelling, Chairman, Natural Resources Committee

FROM: Dave Thomas, CPPO, Purchasing Director

SUBJ: RFP # 08192014 Request for Proposal to provide Education and Outreach Consulting

Services for Stormwater Management

DATE: October 13, 2014

BACKGROUND: Beaufort County Purchasing Department issued a Request for Proposal (RFP) for Education and Outreach Consulting Services for Stormwater Management to assist with the department's programs and projects. The proposal requested that the consultant staff and facilitate stormwater education and outreach within the County and to perform duties and responsibilities necessary to bring and keep Beaufort County compliant with all Federal, State, and local laws/regulation regarding stormwater management for fiscal year 2015, with the option to renew every year for up to four (4) consecutive years. The Evaluation Committee consisted of five (5) representatives of the Beaufort County Stormwater Implementation Committee (SWIC) including Bryan McIlwee with the Town of Hilton Head Island, Kim Jones with the Town of Bluffton, Lamar Taylor with the City of Beaufort, Anthony Maglione representing the Town of Port Royal as a consultant, and Eric Larson with Beaufort County Stormwater Management.

The scope of services to provide stormwater education and outreach is unique and not widely marketed by for-profit businesses. The SWIC wrote the RFP scope of services to solicit non-profit organizations and educational institutions. Many groups such as these exist in Beaufort County and it was a goal to find a consultant that could organize these groups and efficiently utilize our existing resources. Beaufort County received one (1) response to the RFP from Beaufort Soil and Water Conservation District. The Committee reviewed and evaluated the RFP and decided to interview the vendor. Beaufort Soil and Water Conservation District's proposal meets the goals set forth by the SWIC and was unanimously approved by the Evaluation Committee.

The initial contract term is effective October 14, 2014 to June 30, 2015. Contract fee for the term will be a negotiated amount not to exceed \$50,000.00.

<u>FUNDING</u>: Primary Funding - 50250011-51160, Stormwater Fees, as part of the cost share MOU with the Towns of Hilton Head Island, Bluffton, and Port Royal and the City of Beaufort. The County's portion is \$25,218.

PROPOSED YEARLY COST: \$50,000

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

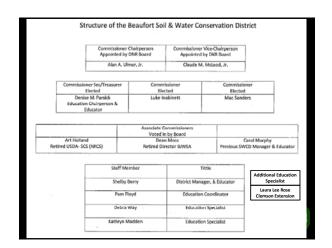
RECOMMENDATION: The Purchasing Department recommends that the Natural Resources Committee approve the contract award to Beaufort Soil and Water Conservation District for Education and Outreach Consulting Services for Stormwater Management.

CC: Gary Kubic, County Administrator
Josh Gruber, Deputy Administrator
Alicia Holland, Chief Financial Officer
Robert McFee, Director of Engineering and Infrastructure
Eric W Larson, Stormwater Manager

Stormwater Education and Outreach Consulting Services Proposal by Beaufort Soil and Water Conservation District

A Report to Beaufort County Stormwater Utility Board October 1, 2014





Proposed Scope of Work

- Public Survey via internet, email, paper
- Public Open House(s) for MS4 input
- Neighbors for Clean Water campaign
 - Printed booklets
 - Website
- Community Education Programs
- School education program using Enviroscape
- Public/School Fact Sheets and Brochures



Proposed Scope of Work cont.

- Pond Clinic for Public, Staff
- Exhibiting at festivals, community events
 - Giveaways, Flyers, Activities, etc.
- Storm Drain Marker program
- Rain Barrel Program
- Rain Garden workshops
- Training for staff, developers, contractors
- MS4 reporting





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

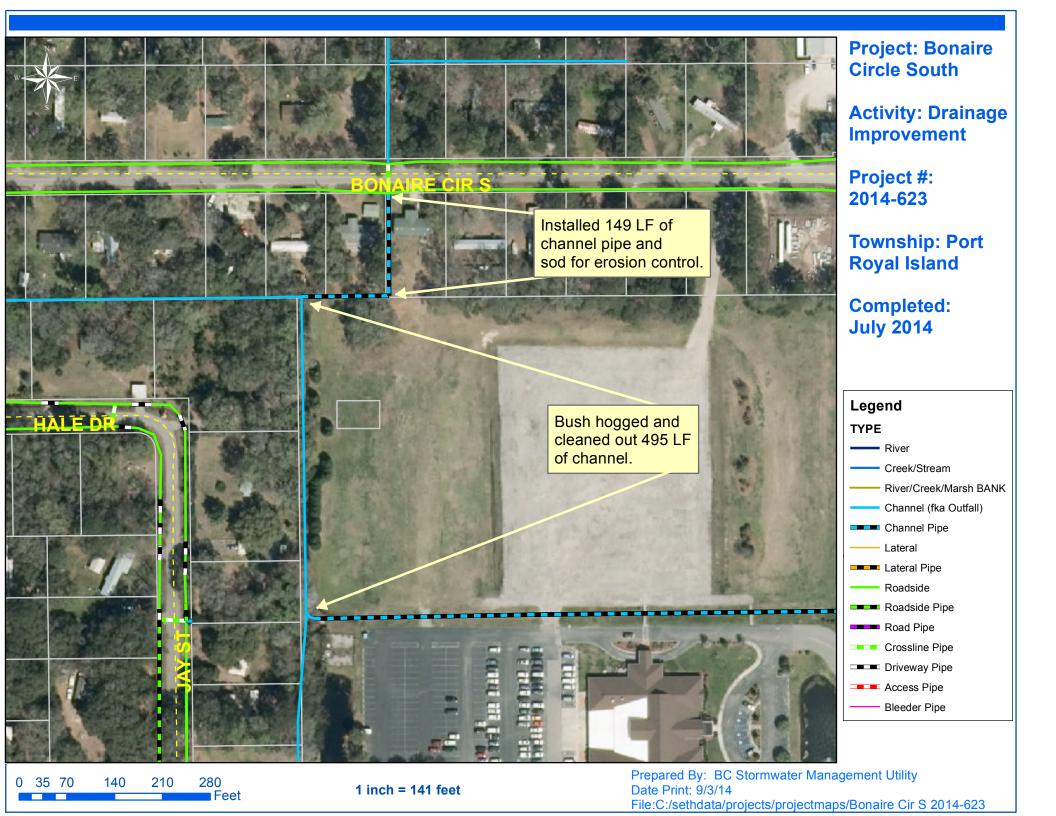
Before





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

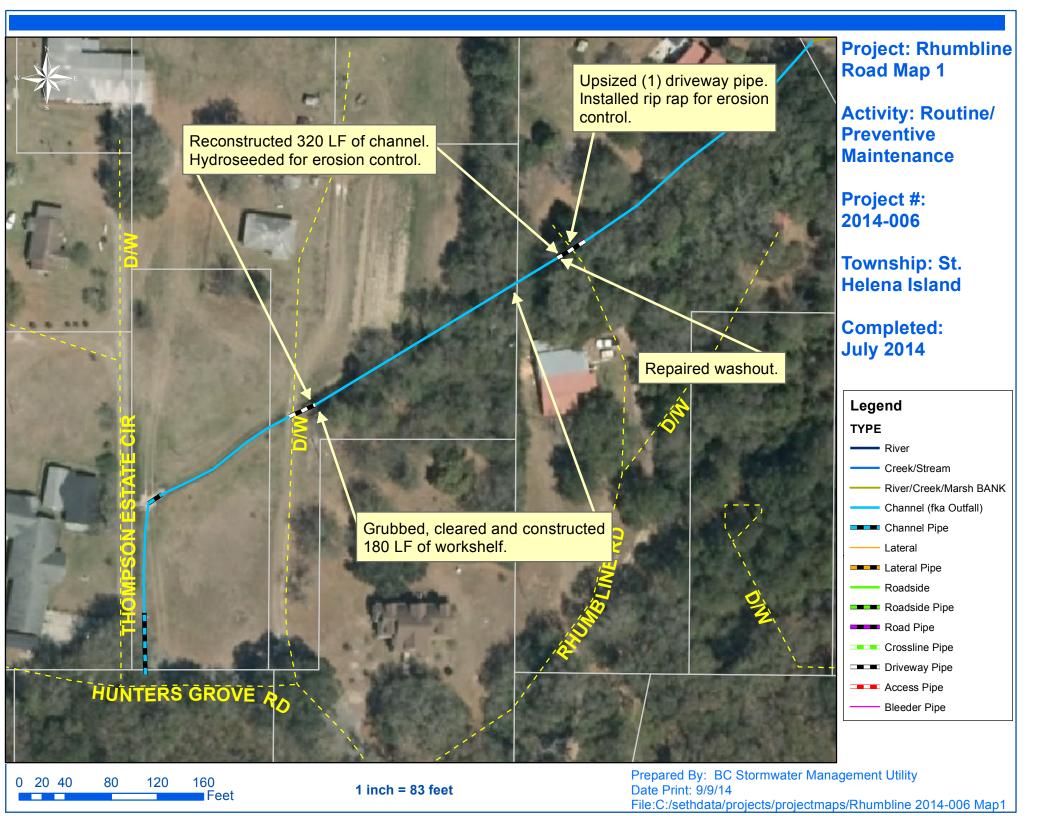


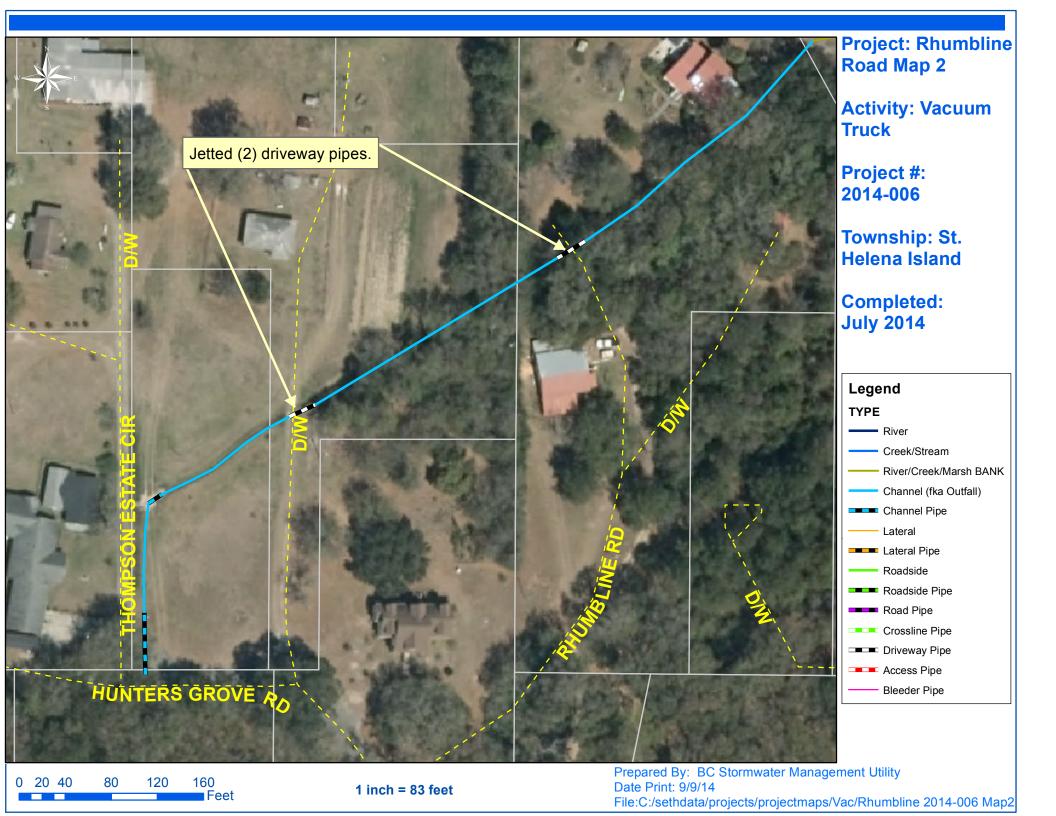




After









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.

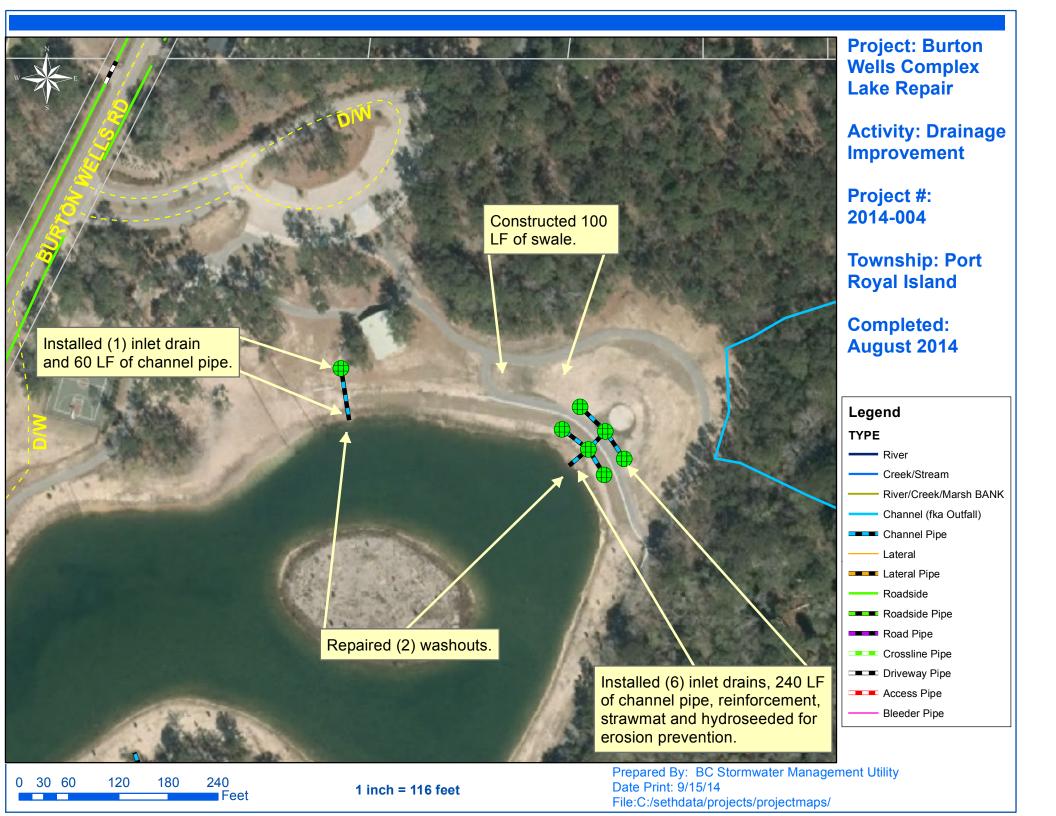
2014-004 / Burton Wells Lake Repair	Labor	Labor	Equipment	Material	Contractor	Indirect	
	Hours	Cost	Cost	Cost	Cost	Labor	Total Cost
AUDIT / Audit Project	1.0	\$20.46	\$0.00	\$0.00	\$0.00	\$13.23	\$33.69
CLJS / Cleaned up jobsite	88.0	\$2,035.44	\$308.16	\$137.97	\$0.00	\$1,307.86	\$3,789.43
HAUL / Hauling	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

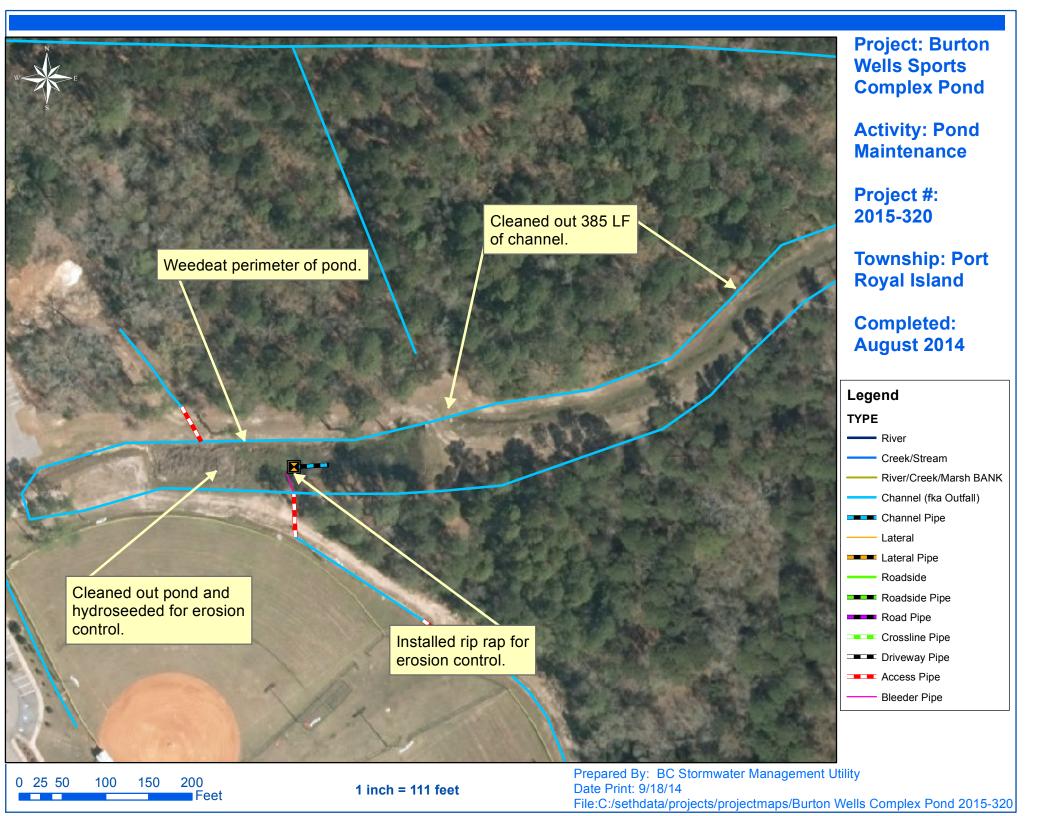
Project improved 385 L.F. of drainage system. Cleaned out pond and 385 L.F. of channel. Weedeat perimeter of pond. Installed rip rap and hydroseeded for erosion control.

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



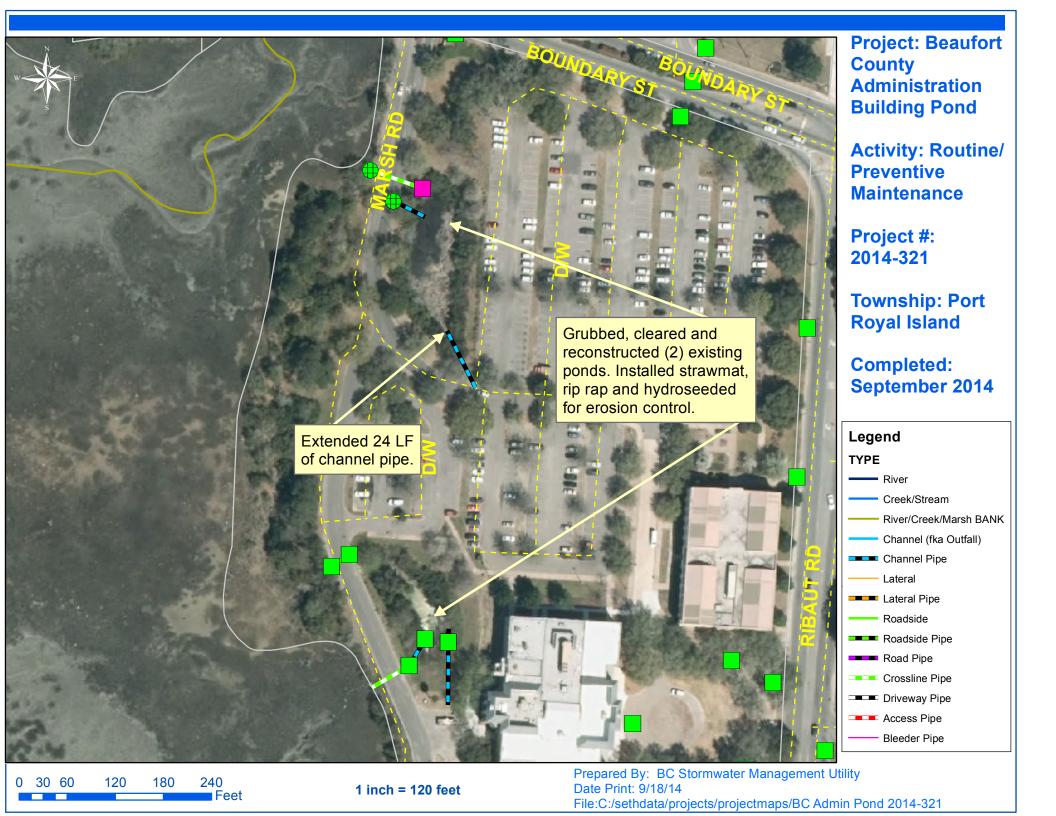


During



After







Stormwater Infrastructure

Project Summary

Project Summary: Sheldon Washout Repair - Backache Acres

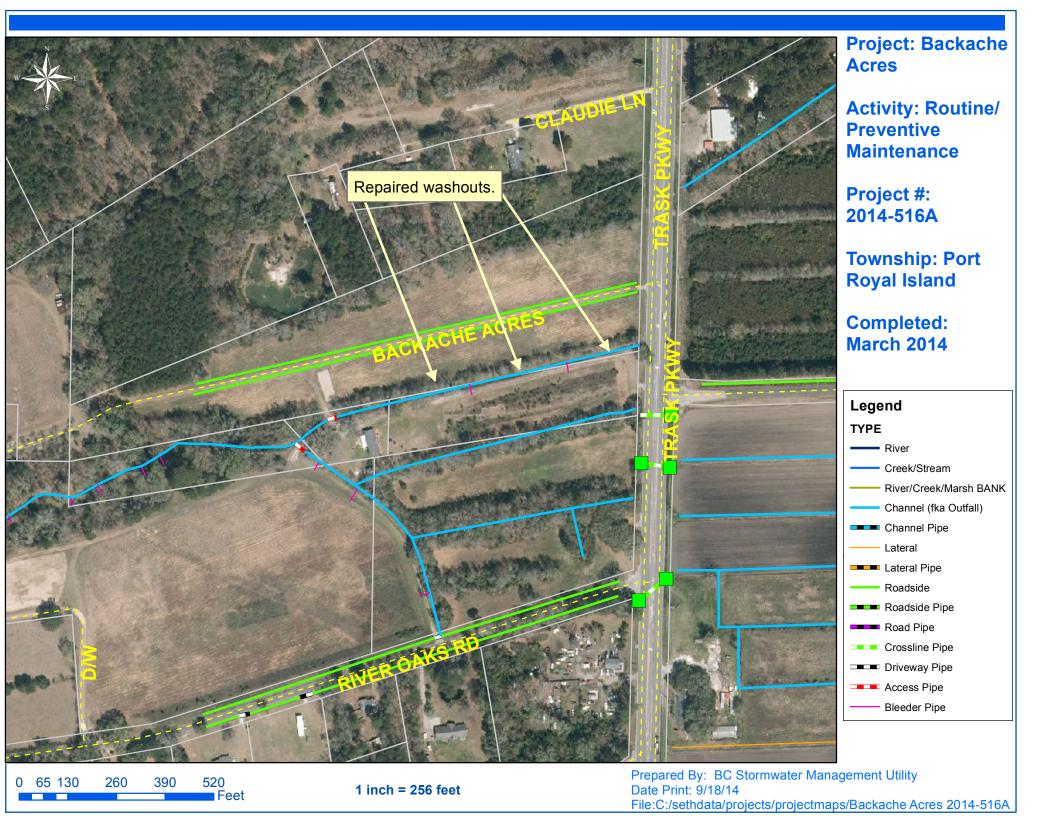
Activity: Routine/Preventive Maintenance

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





Stormwater Infrastructure

Project Summary

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

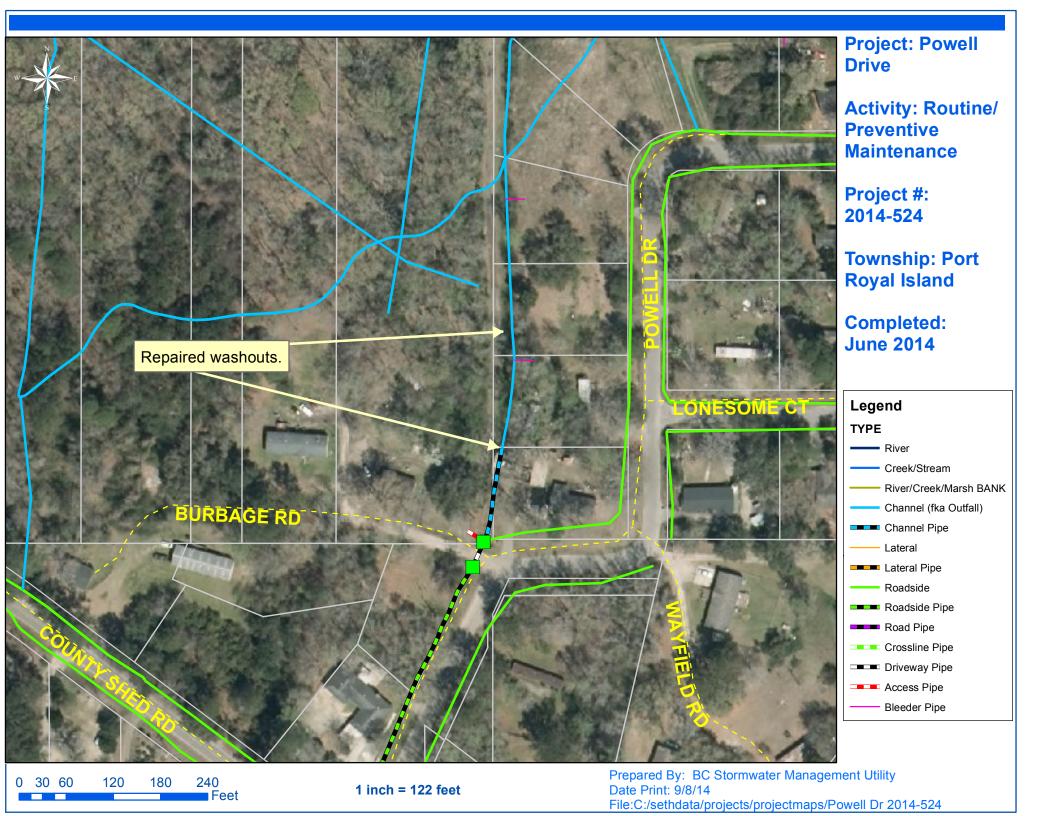
Activity: Routine/Preventive Maintenance

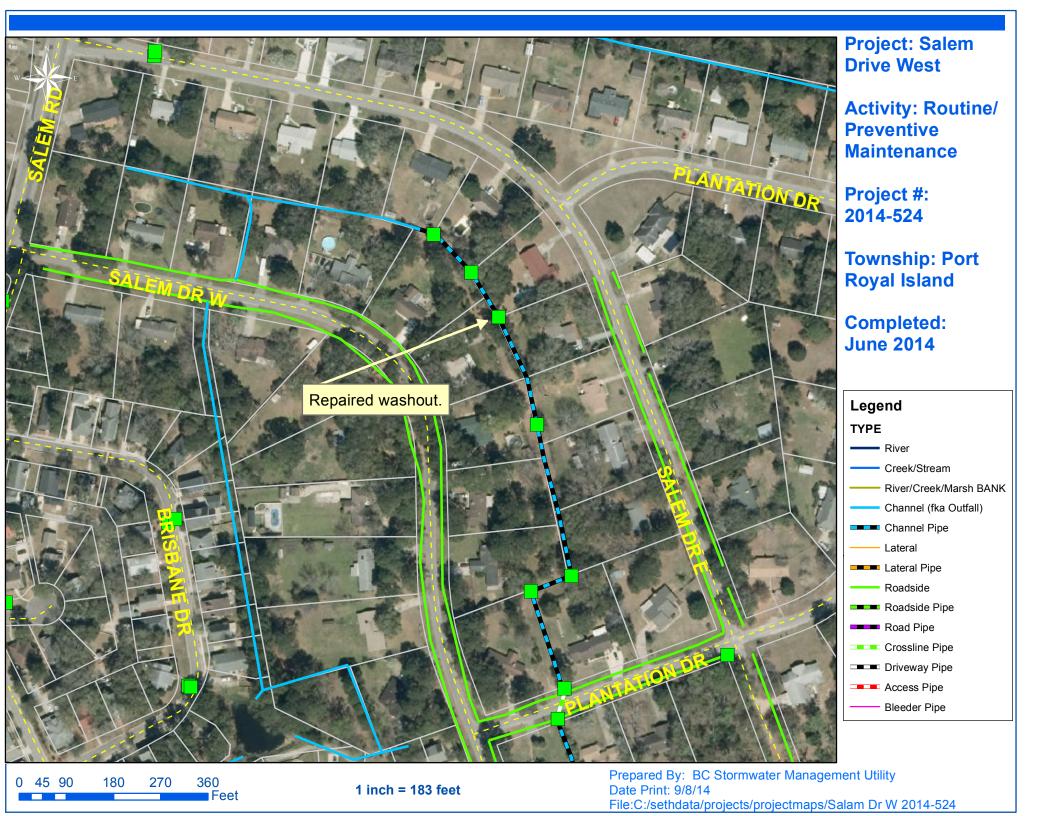
Completion: Jun-14

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







Stormwater Infrastructure

Project Summary

Project Summary: Ardmore Avenue - Rework

Activity: Routine/Preventive Maintenance

Completion: Jun-14

Narrative Description of Project:

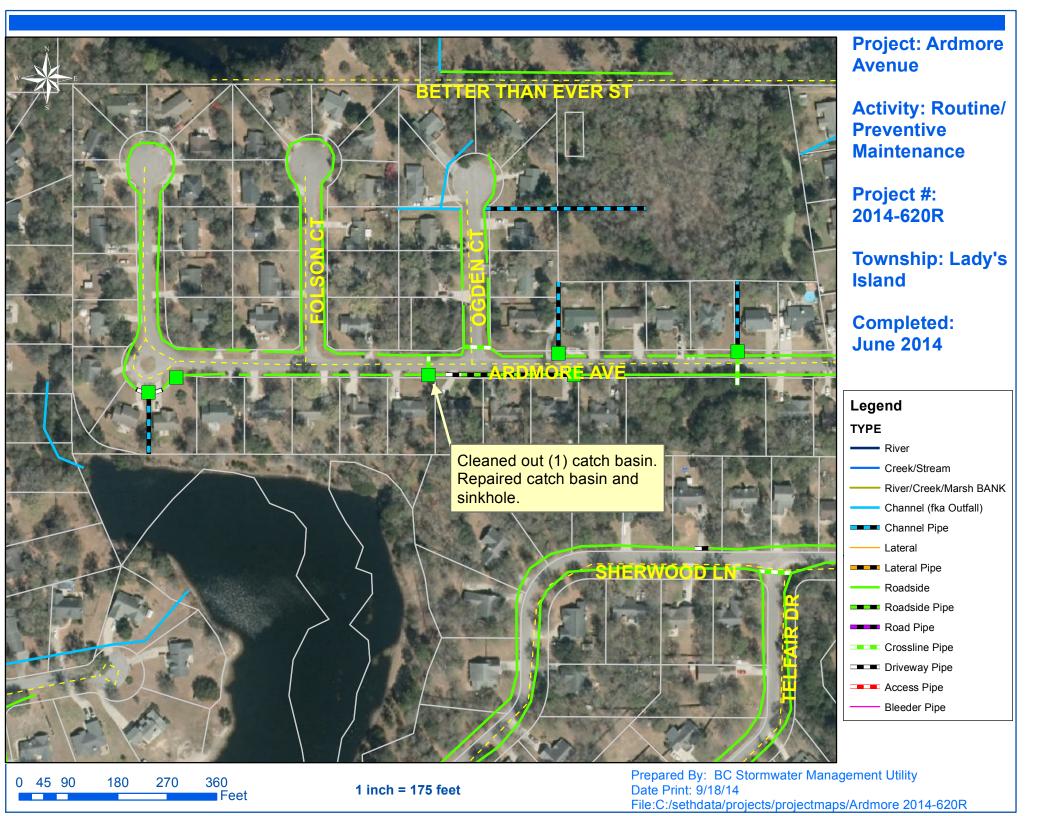
Cleaned out (1) catch basin. Repaired catch basin and sinkhole.

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	Tatal 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

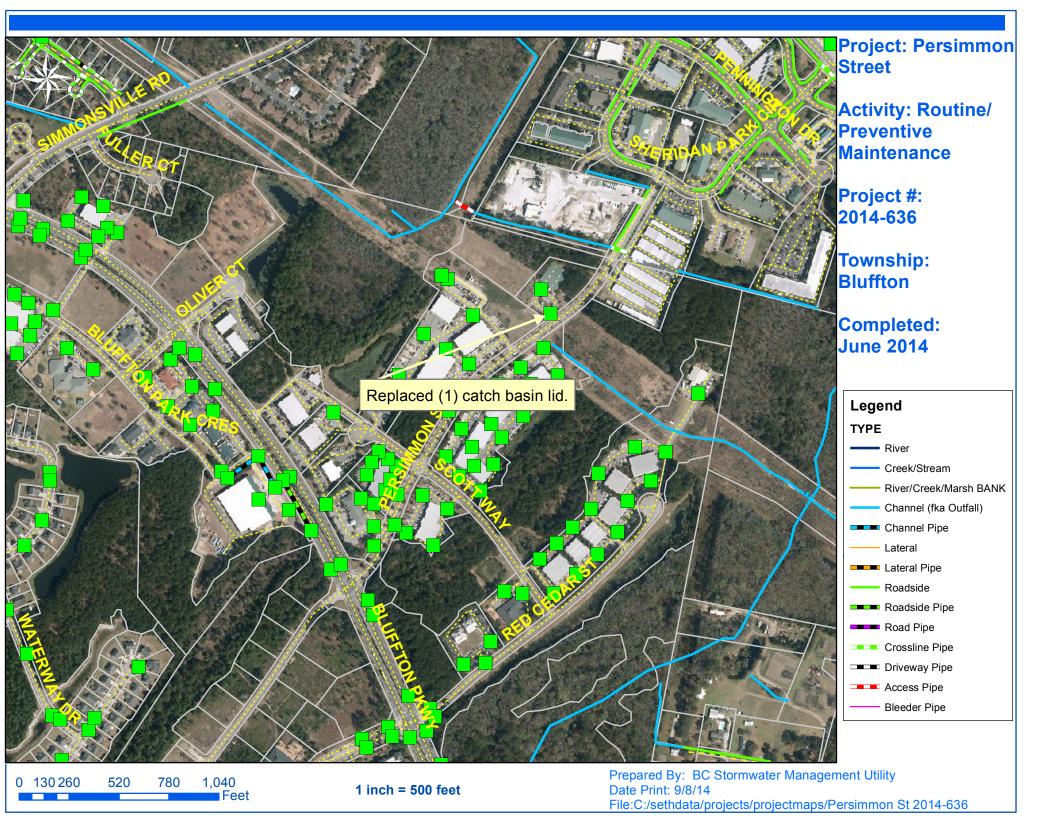
Project Summary

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





Stormwater Infrastructure

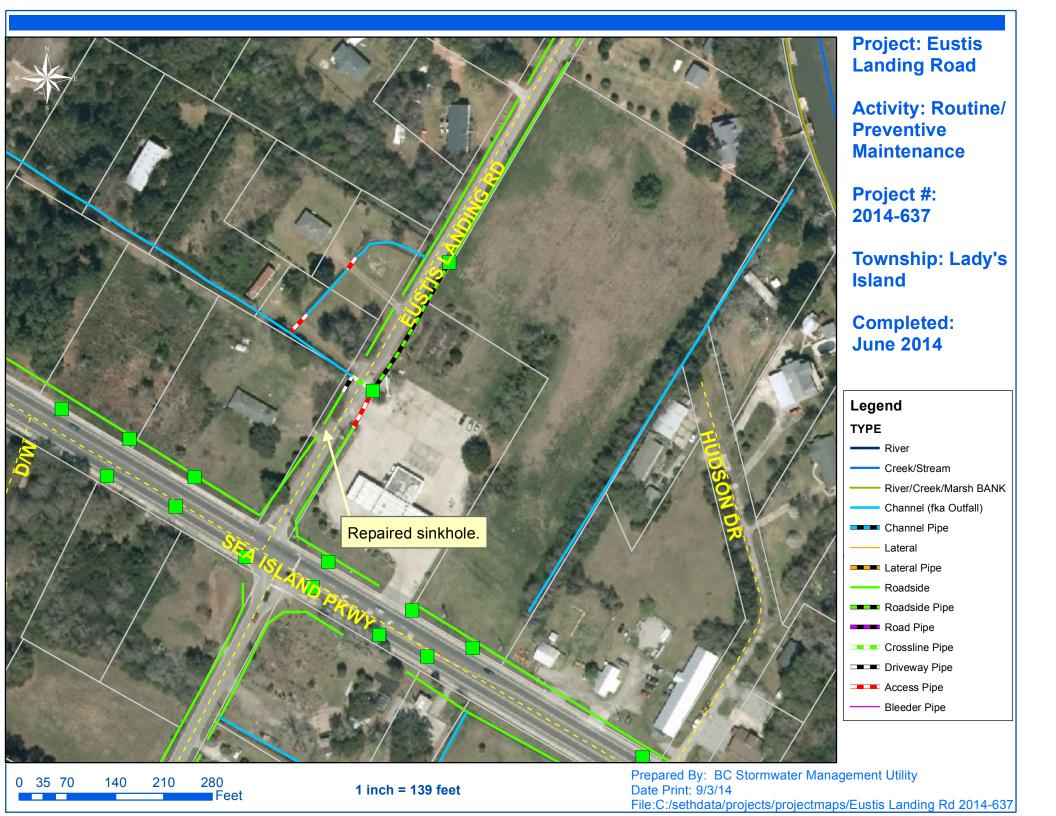
Project Summary

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





Stormwater Infrastructure

Project Summary

Project Summary: Old Dawson Acres

Activity: Routine/Preventive Maintenance

Completion: Jun-14

Narrative Description of Project:

Removed (1) bleeder pipe.

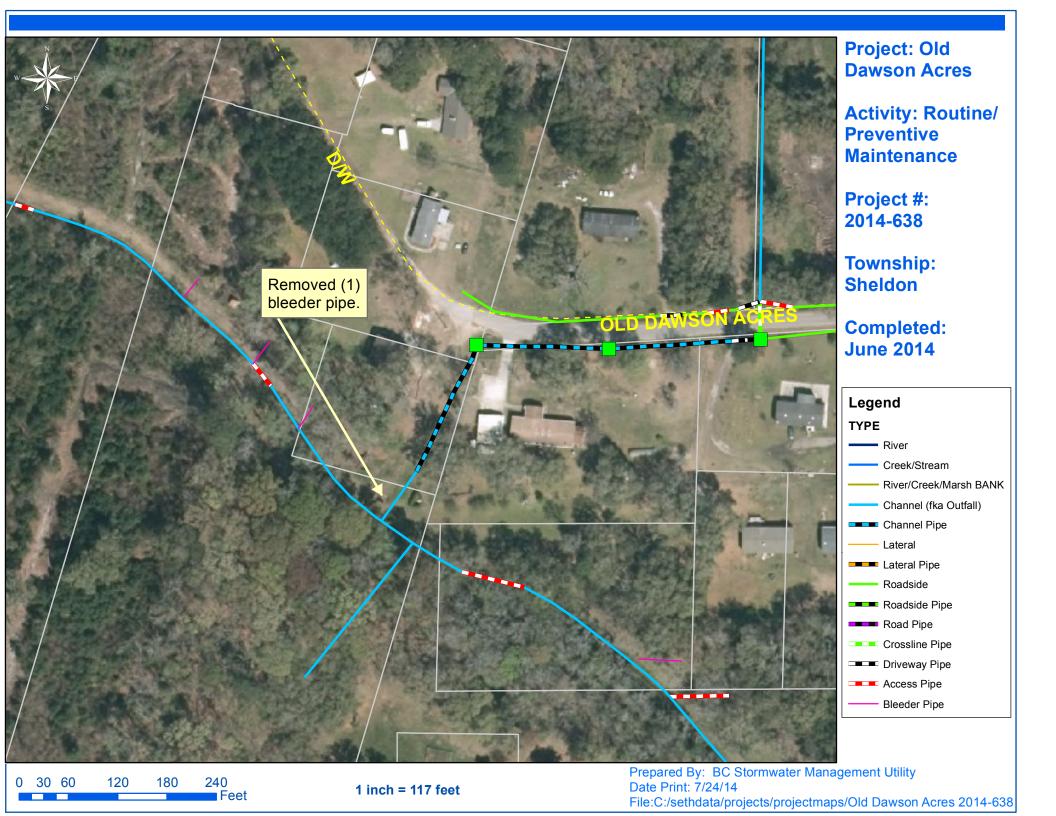
2014-638 / Old Dawson Acres	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project BPR / Bleeder Pipe - Removed HAUL / Hauling ONJV / Onsite Job Visit 2014-638 / Old Dawson Acres Sub Total	0.5 16.0 4.0 3.0 23.5	\$10.23 \$380.04 \$86.52 \$89.52 \$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.

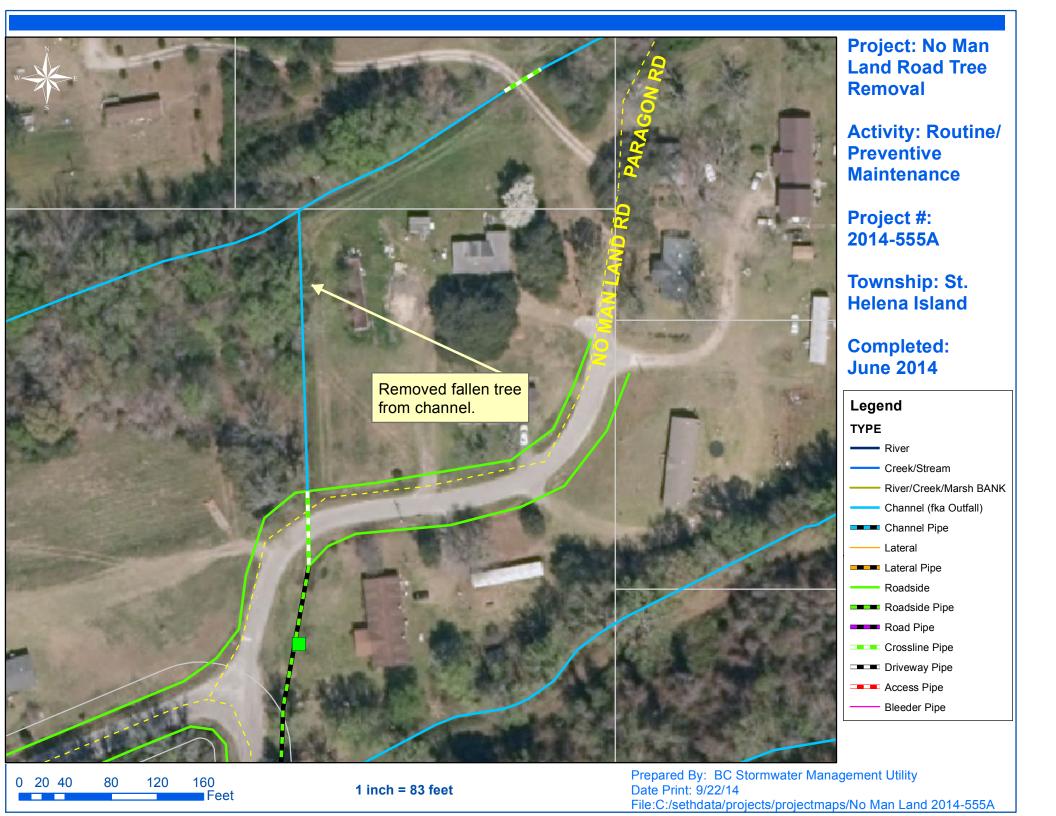
2014-555A / St. Helena Island Tree Removal	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project HAUL / Hauling RMTRD / Remove trees - Ditch RMTRW / Remove trees - Workshelf 2014-555A / St. Helena Island Tree Removal Sub Total	0.5 4.0 15.0 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

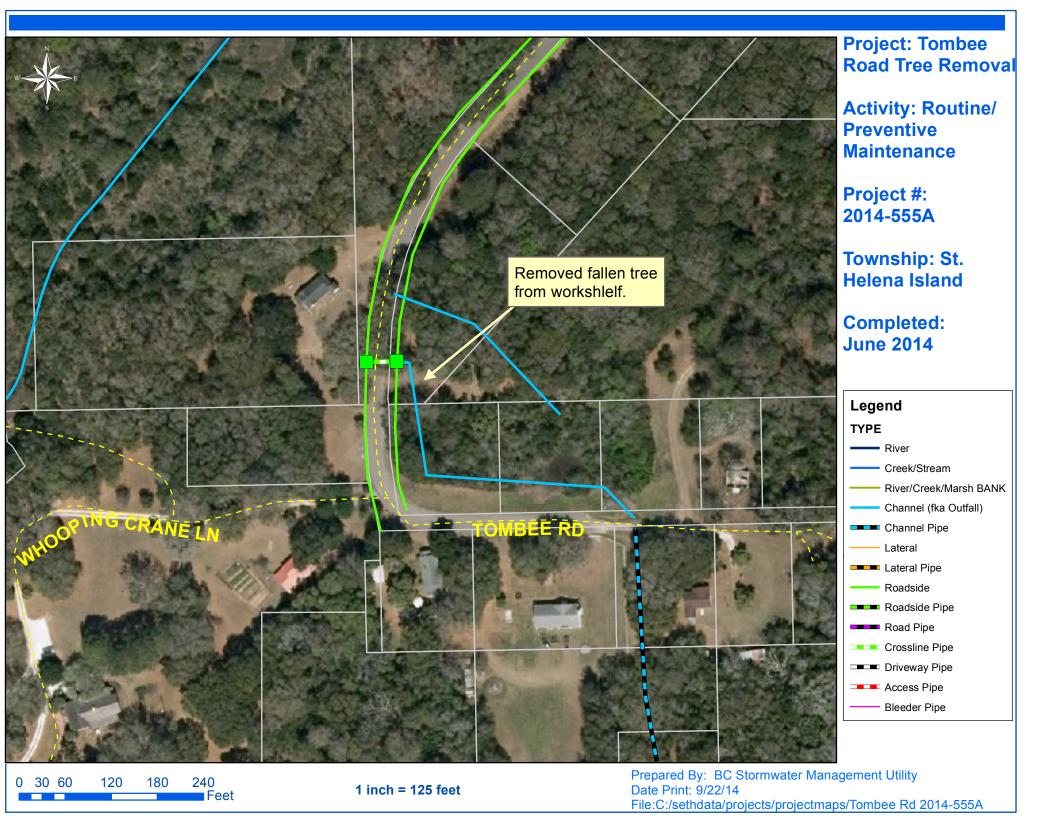




After









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



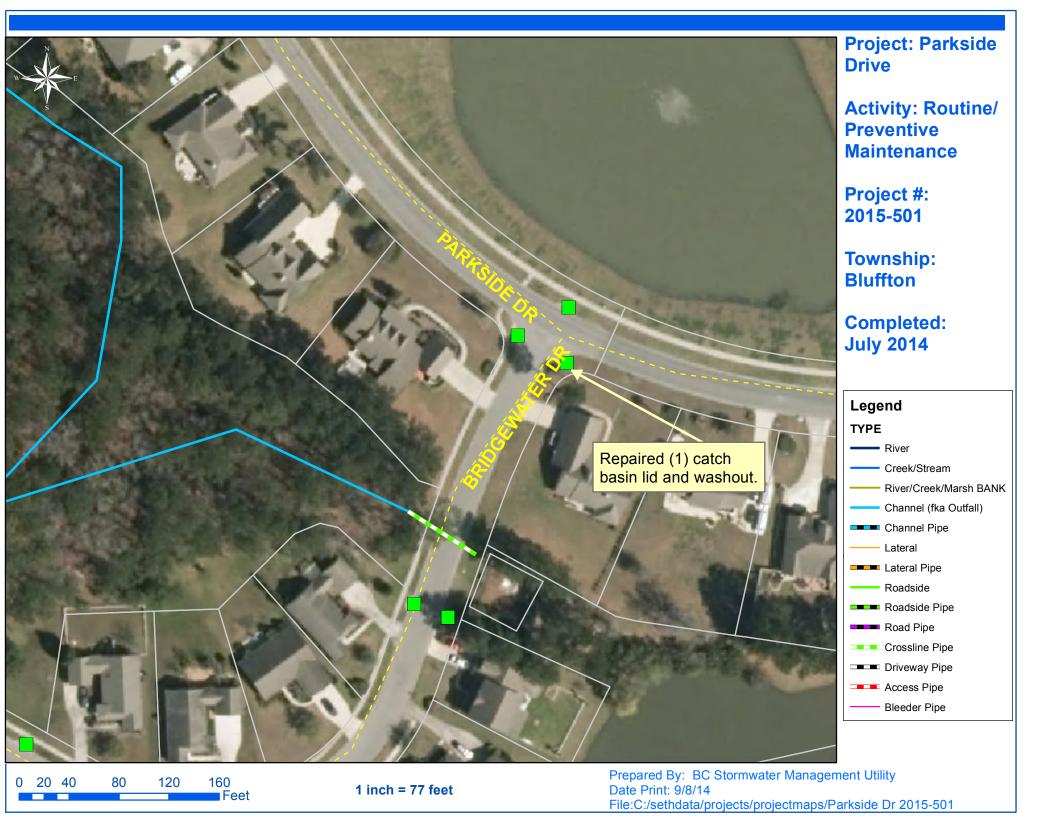


During



After







Stormwater Infrastructure

Project Summary

Project Summary: Iron Gate Subdivision

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Jul-14

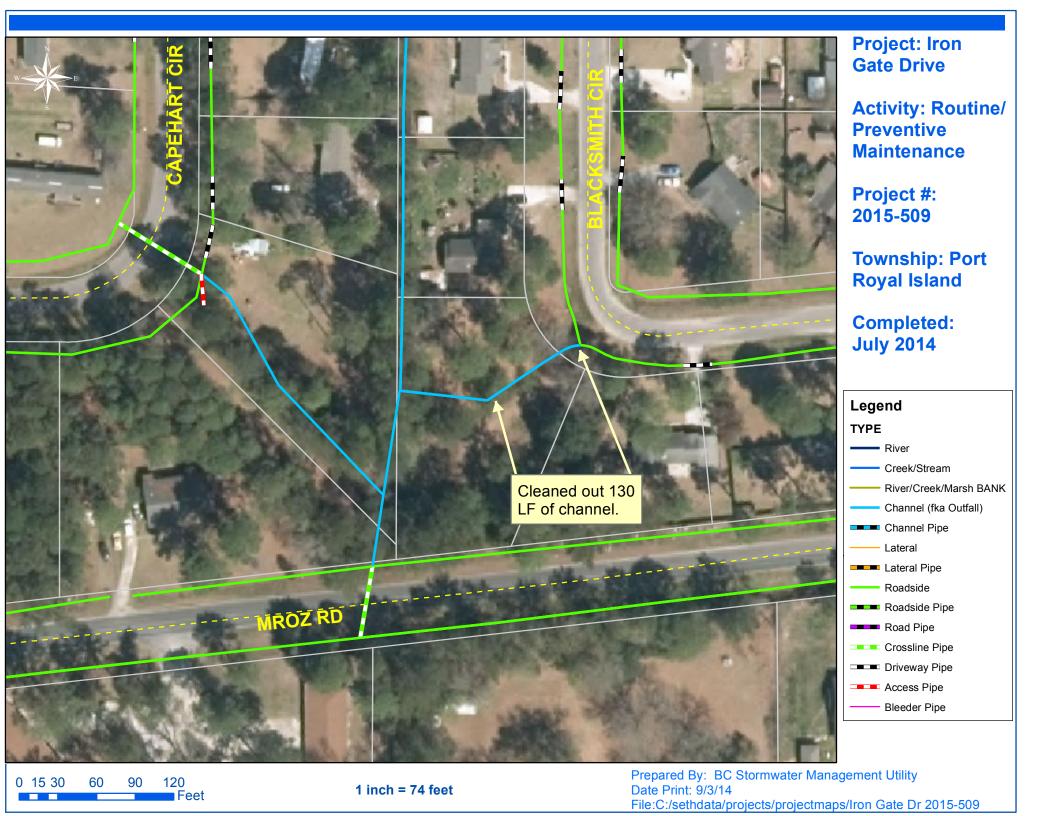
Project improved 130 L.F. of drainage system. Cleaned out 130 L.F. of channel.

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











Beaufort County Public Works

Stormwater Infrastructure

Project Summary

Project Summary: Pin Oak Street/Able Street

Activity: Routine/Preventive Maintenance

Completion: Jul-14

Narrative Description of Project:

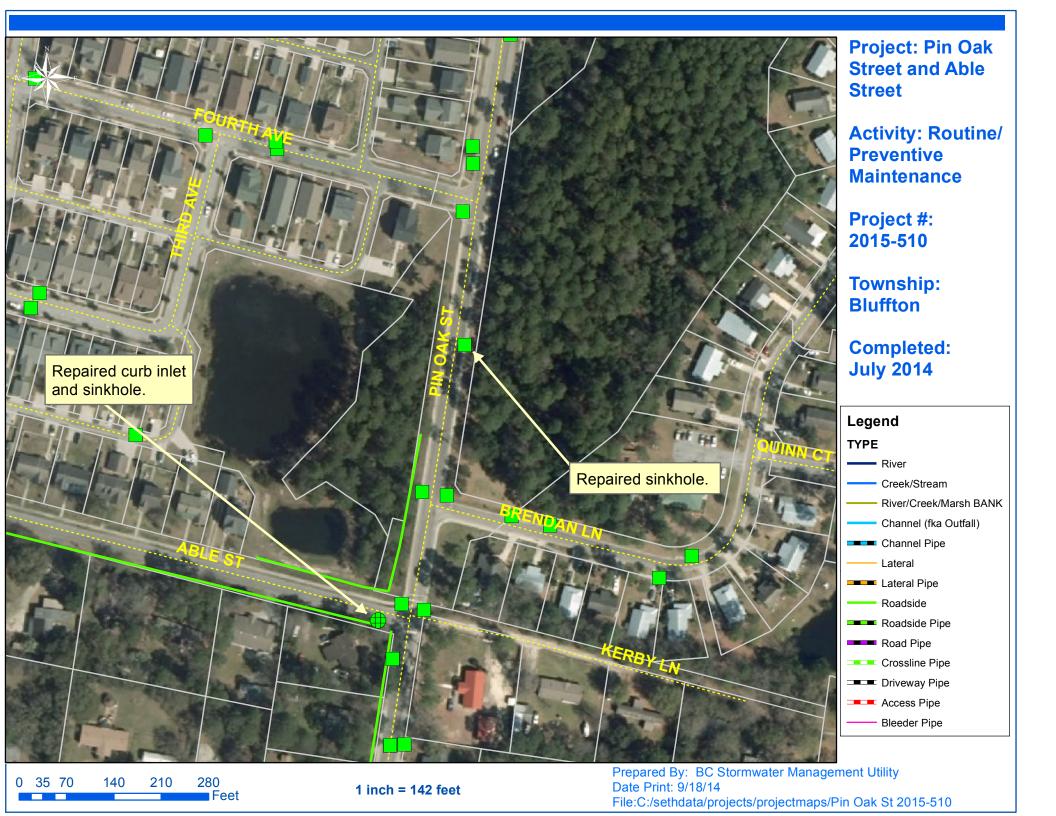
Repaired curb inlet and sinkholes.

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











Beaufort County Public Works

Stormwater Infrastructure

Project Summary

Project Summary: Red Cedar Street

Activity: Routine/Preventive Maintenance

Completion: Aug-14

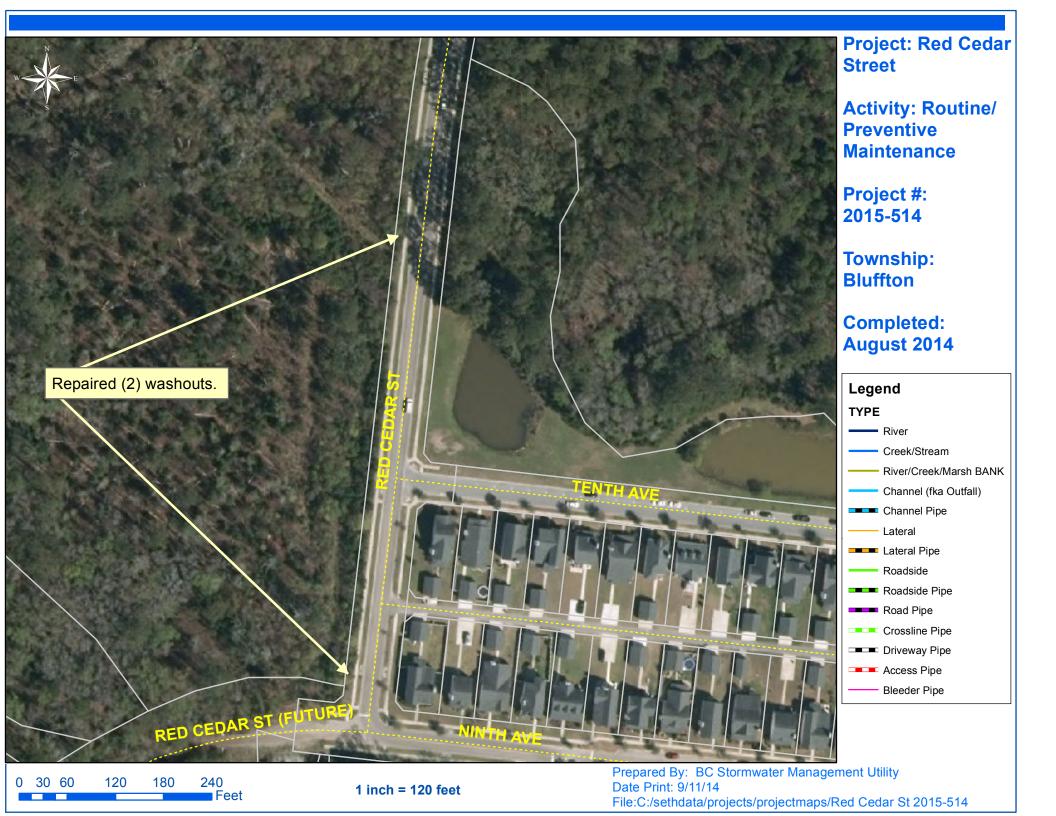
Narrative Description of Project:

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









Beaufort County Public Works

Stormwater Infrastructure

Project Summary

Project Summary: Hanna Avenue

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Completion: Aug-14

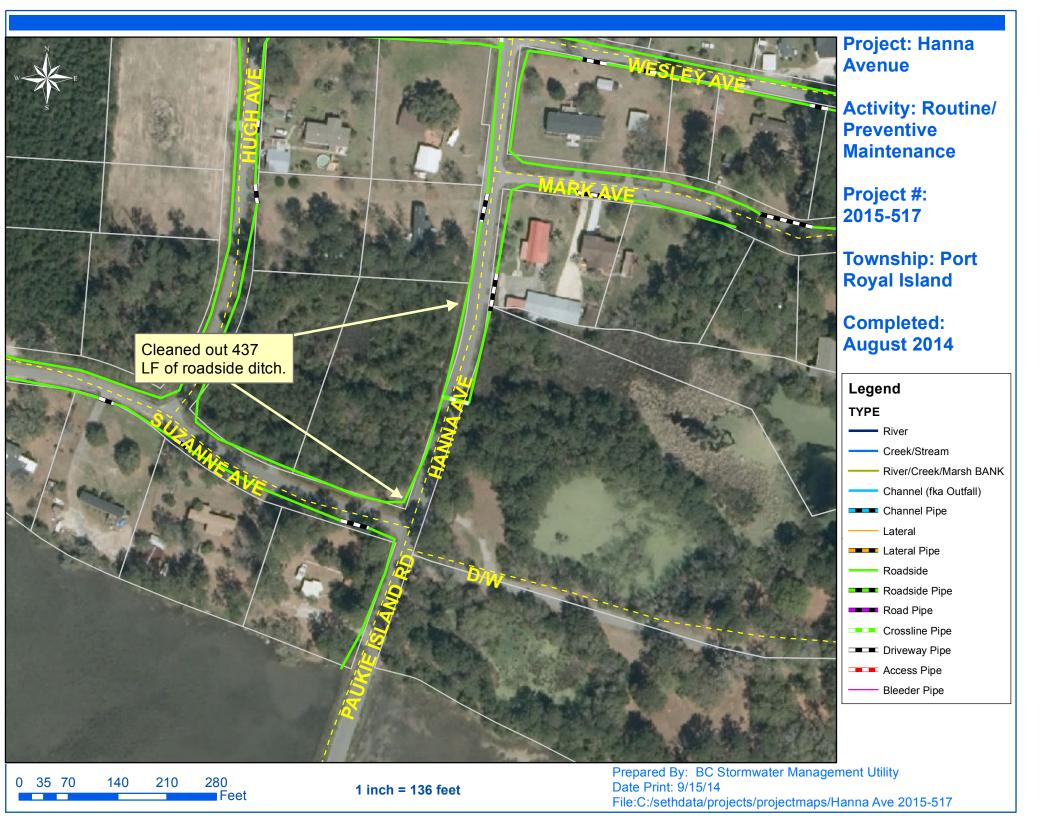
Project improved 437 L.F. of drainage system. Cleaned out 437 L.F. of roadside ditch.

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











Beaufort County Public Works

Stormwater Infrastructure

Project Summary

Project Summary: Holly Hall Road

Activity: Routine/Preventive Maintenance

Completion: Aug-14

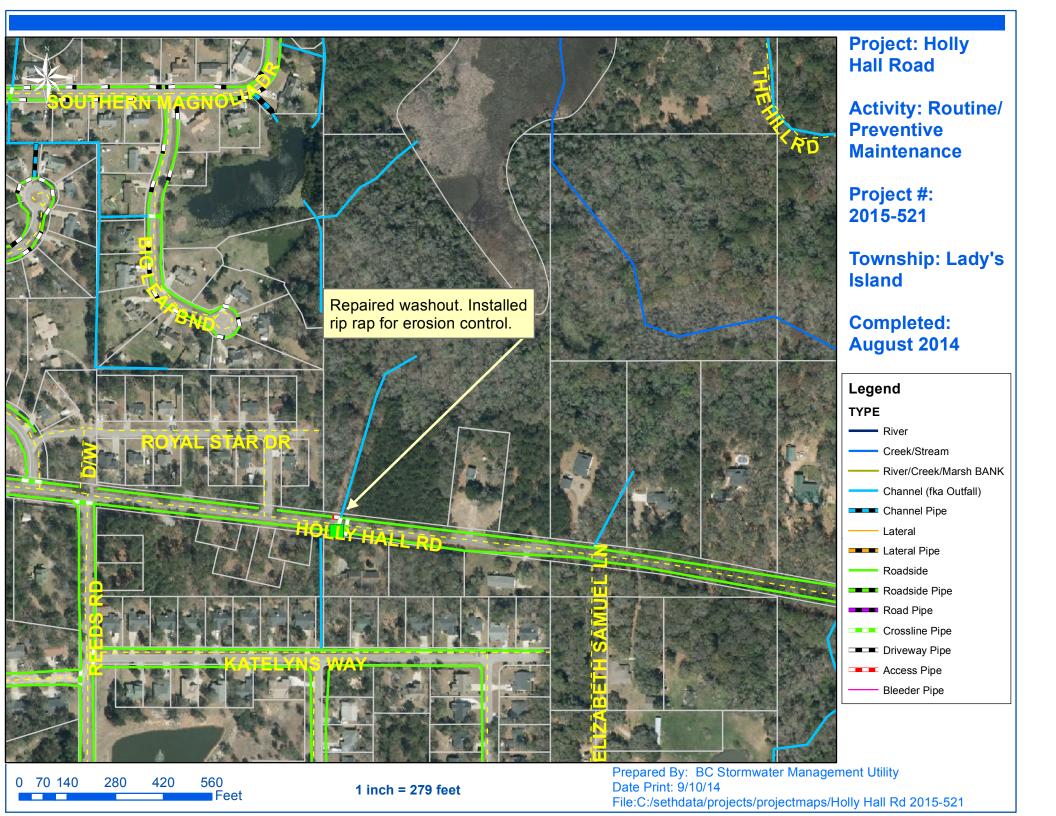
Narrative Description of Project:

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 UTILITY

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



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 garukus

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.

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- 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 _______, 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

ACKNOWLEDGEMENT
that the within named Grantor personally My May, 2009, and ument.
_(L.S.)
nto set my (or our) hand and seal this
TOR:
Heide Trask
ACKNOWLEDGEMENT

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		
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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

