



BEAUFORT COUNTY  
STORMWATER MANAGEMENT UTILITY BOARD AGENDA  
Wednesday, February 14, 2018  
2:00 p.m.  
Executive Conference Room, Administration Building  
Beaufort County Government Robert Smalls Complex  
100 Ribaut Road, Beaufort, South Carolina  
843.255.2805

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

1. CALL TO ORDER – 2:00 p.m.
  - A. Approval of Agenda
  - B. Approval of Minutes – January 10, 2018 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
  - A. Utility Update – Eric Larson, P.E. ([backup](#))
  - B. Monitoring Update – Eric Larson, P.E. ([backup](#))
  - C. Stormwater Implementation Committee Report – Eric Larson, P.E. ([backup](#))
  - D. Stormwater Related Projects – Eric Larson, P.E. ([backup](#))
  - E. Upcoming Professional Contracts Report – Eric Larson, P.E. ([backup](#))
  - F. Regional Coordination – Eric Larson, P.E. ([backup](#))
  - G. Municipal Reports – Eric Larson, P.E. ([backup](#))
  - H. MS4 Update – Eric Larson, P.E. ([backup](#))
  - I. Maintenance Projects Report – David Wilhelm, P.E. ([backup](#))
5. UNFINISHED BUSINESS
  - A. Discussion/Update on Bessie Lane Easement Acquisition
  - B. Discussion/Update on Orange Grove Easement Acquisition
6. NEW BUSINESS
  - A. Special Presentation – Animal Services Center Stormwater Design
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
  - A. March 14, 2018 ([backup](#))
9. ADJOURNMENT



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

January 10, 2018 at 2:00 p.m. in Executive Conference Room, Administration Building, Beaufort County Government Robert Smalls Complex, 100 Ribaut Road, Beaufort, South Carolina

Draft Minutes 01/22/2018

### Board Members

#### Present

Don Smith  
Marc Feinberg  
Allyn Schneider  
Larry Meisner  
William Bruggeman  
James Fargher  
Patrick Mitchell

#### Absent

#### Beaufort County Staff

Eric Larson  
Melissa Allen  
David Wilhelm  
Patty Wilson  
Rebecca Baker  
Tom Keaveny

### Ex-Officio Members

#### Present

Andy Kinghorn  
Scott Liggett  
Kim Jones

#### Absent

Van Willis

#### Visitors

Alan Warren, USCB Lab  
York Glover, County Council  
Alice Howard, County Council  
Ellen Comeau, Clemson Extension  
Michelle Weitzel, Observant

### 1. Meeting called to order – Don Smith

#### A. Agenda – Approved with Additions.

- Additions to New Business:

- Okatie River Watershed Data
- Super Fund Site
- Public Law regarding Federal Government Paying Stormwater Fees
- 2017 DHEC Shellfish Report

#### B. November 15, 2017 Minutes – Approved.

### 2. Introductions – Completed.

### 3. Public Comment(s) – None.

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

<http://www.bcgov.net/departments/Administrative/beaufort-county-council/boards-and-commissions/council-appointed/board-list/stormwater-management-utility-board/agendas/2018/011018.pdf>

**A. Utility Update – Eric Larson**

In reference to item #1, the idea of regionalization is gaining momentum. The technical subcommittee has been asked to continue to meet to work to find the “best standard.” Item #2 – The subcommittee has also been asked to find a mission statement of what regionalization means and continue to define an exploratory committee for that.

Mr. Laron explained that in the past Stormwater has had an in-house GIS employee, as a result of their resignation, this funding will shift to the GIS department to fund an additional position within GIS and Stormwater will have a whole team available to assist with GIS needs for the stormwater billing system.

**B. Monitoring Update – Eric Larson**

Please reference the report which is included in the posted agenda. No additional updates.

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

The SWIC has not met since the last board meeting.

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

The Okatie West project (item #1) will be discussed during unfinished business.

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

Mr. Larson shared that the SWIC met over the phone to approve a time extension, the end of March, for the Management Plan.

**F. Regional Coordination – Eric Larson**

In reference to #5, the Mossy Oaks task force was unable to meet due to the snow. This meeting is being rescheduled.

Mr. Don Smith asked what the status is. Mr. Larson explained that the purpose of the meeting that was canceled was going to be to discuss engineering proposals for the scope of work and costs to do the design work needed for that watershed.

**G. Municipal Reports – Eric Larson**

Please reference the report which is included in the posted agenda. No additional updates.

**H. Municipal Separate Storm Sewer System (MS4 Update) – Eric Larson**

Mr. Larson noted that staff is working to get the annual report completed before the end of January.

**I. Maintenance Projects Report – David Wilhelm**

Please reference the report which is included in the posted agenda. No additional updates.

**5. Unfinished Business**

**A. Dirt Road Paving -** Mr. Larson recapped that action was delayed during the November 15<sup>th</sup> meeting after some discussion. The latest proposed revisions to the Stormwater Ordinance and the Stormwater BMP manual are in red text and highlighted in yellow. The highlighted text indicates revisions that were made following the November meeting. The discussion was about

exempting existing private dirt roads that want to be improved by their owners as well, if they were not associated with a pending development.

Mr. Larson noted that the Planning Commission approved compatible language to this in the Community Development Code in December. These recommendations will be going to Natural Resources committee.

Mr. Larson explained that these improvements would still be subject to permitting and a stormwater plan, but won't be subject to design post construction BMP's that would need to be built off site. He mentioned that erosion control would also be needed.

A motion was made to adopt the changes to the BMP Manual and Ordinance as presented. The changes were approved (6/1).

**B. Okatie West Project** - Mr. Larson provided an update on the Okatie West Grant Project, noting that the County is waiting on one permit from U.S. Corps of Engineers and the project is out for bid for construction. Mr. Larson pointed out the final design that was permitted using a graphic from the Okatie West Annual Report (Figure 4).

He informed the Board that the grant is up at the end of July, as DHEC has accelerated the project by pushing up the deadline. The project has to be out for bid for a full 30 days and if he has to wait for Board approval/recommendation that the County will lose approximately 45 days of construction time. Mr. Larson explained that he asked for permission to take a recommendation directly to County Council on January 22<sup>nd</sup> for approval and administration was agreeable to that [due to the time constraint].

[The Okatie West Annual Report and bid email are attached.](#)

## **6. New Business –**

**A. Okatie River Watershed Data** - Mr. Larson explained that staff was asked about the data and trends of the Okatie River. Dr. Alan Warren put together a statistical analysis of the data from station 18-02 to station 18-08 [shown in Figure 1] using approximately 18 years of data. BMPs are being built and development is being closely monitored in the area that was analyzed. The data shows that the slope and concentration of bacteria gets higher/more steep as you move upstream, with the exception of station one that has a slight decrease.

In response to a question, Dr. Warren shared that time is shown on the x axis and most probable number (MPN, which equates to colonies per 100 ml) is on the y axis. It was clarified that all data was used for the analysis was from DHEC.

Mr. Larson pointed out that the data covers the time period of 1999 to 2016 and that the Stormwater Utility was formed in 2001 and that the Okatie River TMDL report is based on data through 2010. He commented that the 53% reduction (TMDL) may or may not be a good number to be aiming for.

Mr. Larson mentioned that going forward the County will continue to monitor this area and as development occurs make sure that stormwater is being managed with BMPs as much as it can.

Ms. Kim Jones asked if the County has shared this analysis with DHEC. Mr. Larson said no. Ms. Jones commented that they look at the shellfish closures, but not the trends and feels it is important as they will be reviewing the development plans for the area.

In response to Mr. Larry Meisner's question about the R<sup>2</sup> value being so small, Mr. Larson commented that what sticks out to him is how steep that line could have gotten if we hadn't done anything over the last 20 years.

Mr. Marc Feinberg asked if there are solutions to look at by plots and come up with a plan to reduce numbers. Mr. Larson indicated that the Master Plan that will be complete in March will do just that and noted the Okatie West and Okatie East projects [to reduce bacteria] were a result of the last master plan.

Dr. Warren expressed that this data is an objective way to prioritize and Eric commented it would be a great supplement the Master Plan as it wasn't done with this level of detail, it used a different methodology.

County Council has requested this information and it will be presented to them next week.

[Data Analysis of DHEC Monitoring Stations and Narrative Summary of the Analysis](#) are attached.

**B. Superfund Site on Parris Island** – Mr. Billy Bruggeman asked Mr. Don Smith why the Superfund site should be consideration of Stormwater board. Mr. Smith explained he was unaware there was a superfund site on the Island and was wanting to know if the County has any assurance that the pollutants aren't being carried by stormwater into the rivers and marshes.

Mr. Smith asked if there is any monitoring or testing data in surrounding waters. Mr. Larson said he would have to check and see what data may be available and if they had any stations in that area. He also commented that a lot of that area is within the Town on Port Royal, so he could see if their consultant may have any data.

Dr. Warren mentioned that he sits on an advisory board for Parris Island and they meet routinely, so that is happening with community involvement.

**7. Public Comment(s)** – None.

**8. Executive Session** – Receipt of legal advice relative to potential abandonment of easements and maintenance for Bessie Lane/Young Circle and Orange Grove Road and potential condemnation of easements on or near Palmetto Drive was not needed. Topics were able to be discussed in Open Session. [Easement memo attached.](#)

**Open Session -**

**A. Palmetto Ridge Street** – Mr. Larson explained that Parcel 21F is the only property that has not granted easement and the County has gone above and beyond to communicate with the property owner about the request. In response to a question asking if there is a reason why they will not grant easement, Mr. Larson explained that they cannot fence in that area of easement (15 feet work shelf) and because of the engineered septic system they have very limited space in their back yard.

Mr. Smith asked if there are any reasonable alternatives. Mr. Larson indicated that they could put the work shelf on the other side of the ditch, but they went with the path of least resistance for the project based on existing structures and have all but one easement.

Ms. Alice Howard expressed that Stormwater is this neighborhoods biggest issue. She mentioned there are several engineered septic systems in this area and a younger generation is moving into the area that does not have the history of the problems.

A motion was made for the County to proceed with condemnation of easement for property 21F on Palmetto Ridge Street. The motion was approved (7:0).

**B. Bessie Lane/Young Circle** – Mr. Larson explained that signed easements have been received for two tracts of land that are not recorded and that a property owner, with a recorded easement, has indicated they would like to have the easement abandoned. The options are to condemn easement on two properties or abandon easement. Mr. Larson mentioned the system is overgrown. Staff is recommending abandonment of easement as the County has gone above and beyond [two years of work] to obtain them, and is now feeling resistance from previous supports and has not obtained all easements needed.

In reference to a question, Mr. Larson indicated that Young Circle flooding was the original complaint. He explained that if easements aren't obtained that the property owners would be responsible for cleaning them to avoid impacting adjacent properties, as it would be a private ditch. DOT cut the ditches on Young Circle, but the water doesn't get to the marsh. He noted this is a state road outfall that the County is trying to obtain easement on to provide relief. Bessie Lane is a County maintained (legacy) road without right of way so the County cannot improve it, but continues to grade it to keep it passable.

In response to comments and questions about why the County would not want to keep has been granted, Mr. Larson expressed that the County would like to abandon easements because with signed easements comes an expectation to maintain ditches and provide services. The County does not have all the easements needed to improve or maintain the system, so they would rather not have any [to avoid assumed responsibility].

After discussion, board members indicated they wanted to know what Mr. Dawson's thoughts were as this is the district he represents.

A motion was made to table discussion and action until the next stormwater board meeting. The motion was approved (7:0).

**C. Orange Grove Road** – Mr. Larson

Mr. Larson explained Orange Grove is in Mr. Glover's district and that the ditch fills up from tidal influence, but doesn't drain due to elevation. A majority of the easements are not signed and one property owner has filled in their ditch. There is very little support from the residents that need relief and these are state outfall ditches. Staff is recommending to abandoned easements.

Mr. Glover indicated would like to continue to pursue getting easements. He plans to make personal contacts with residents [who have not granted easement] in the area to see if they may be willing to reverse their decision.

A motion was made to table discussion and action until the next stormwater board meeting. The motion was approved (7:0).

**9. Matters Arising Out of Executive Session** – None.

**10. Next Meeting Agenda** – Approved.

Additions to February 14, 2018 Agenda

- Unfinished Business -
  - Tabled Discussion/Update on Bessie Lane/Young Circle Easements
  - Tabled Discussion/Update on Orange Grove Easements
- New Business -
  - Special Presentation – TBD (one of topics below)
    - Animal Control Facility – Stormwater Controls

- Convenience Center Update
- Road Paving Program Criteria
- Super Fund Site on Parris Island
- Public Law regarding Stormwater Fees
- 2017 DHEC Shellfish Report

## **11. Meeting Adjourned**

November 14, 2017

To:  
Shakhlan Garane  
SC Department of Health and Environmental Control  
2600 Bull Street  
Columbia, SC 29201

From:  
Paul Moore, P.E. – Ward Edwards Engineering

Re: 319 Progress Update for Annual Report  
Okatie West Water Quality Retrofit  
Project No. 090099B

Shakhlan,

To aid in your Annual Report to the EPA about the active 319 Grants, we are providing the following update on the Okatie West Water Quality Retrofit. The overall project goal was to design, permit and construct a regional water quality treatment pond in a 1,170 acre sub-watershed of the Okatie River headwaters. The BMP proposed for the project is a conventional stormwater detention pond to be located in a roughly 2 acre upland area that is in close proximity to the main Okatie West drainage channel. Access to the proposed pond site will be needed, so a road was designed into the property, avoiding the wetlands and cultural resource sites. The project site was previously approved for a mixed use development by the Town of Bluffton, but Beaufort County targeted it for purchase through its Rural and Critical Land Program. The County was able to purchase the property, closing on the property in early 2016 thus allowing it to be used for the regional stormwater quality project. After the property was purchased by the County, the design work on the project began, including tree-topographic-wetland surveying, geotechnical testing, and cultural resources evaluation. The background information on the wetlands and cultural resources were critical to the design of the proposed BMP, as impacts to wetlands and archaeological sites need to be minimized. The engineering is complete and a full set of design/construction plans are ready for bidding. The project permitting is nearing completion with a few final permits needed



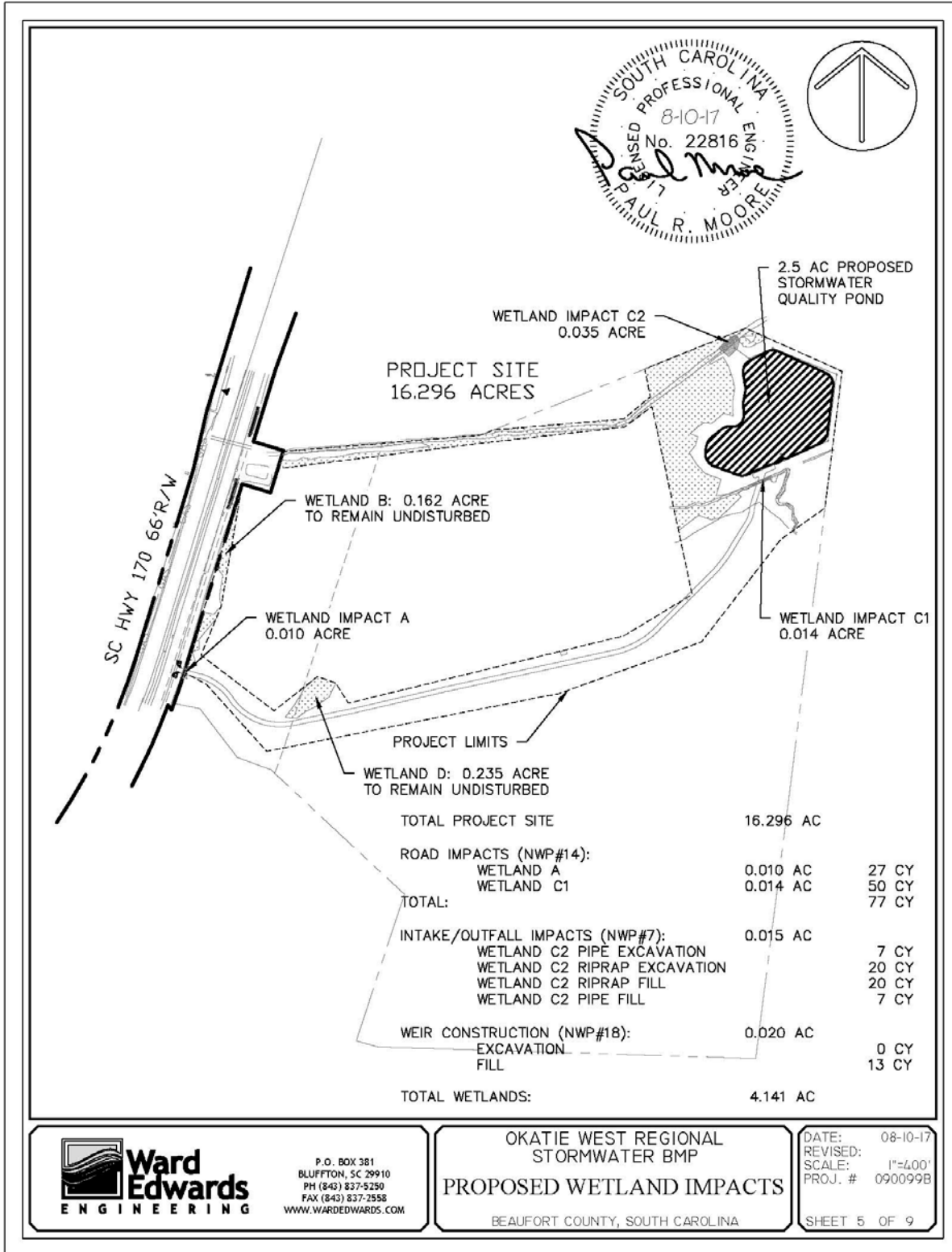


Figure 1 – Wetland Impact Plans

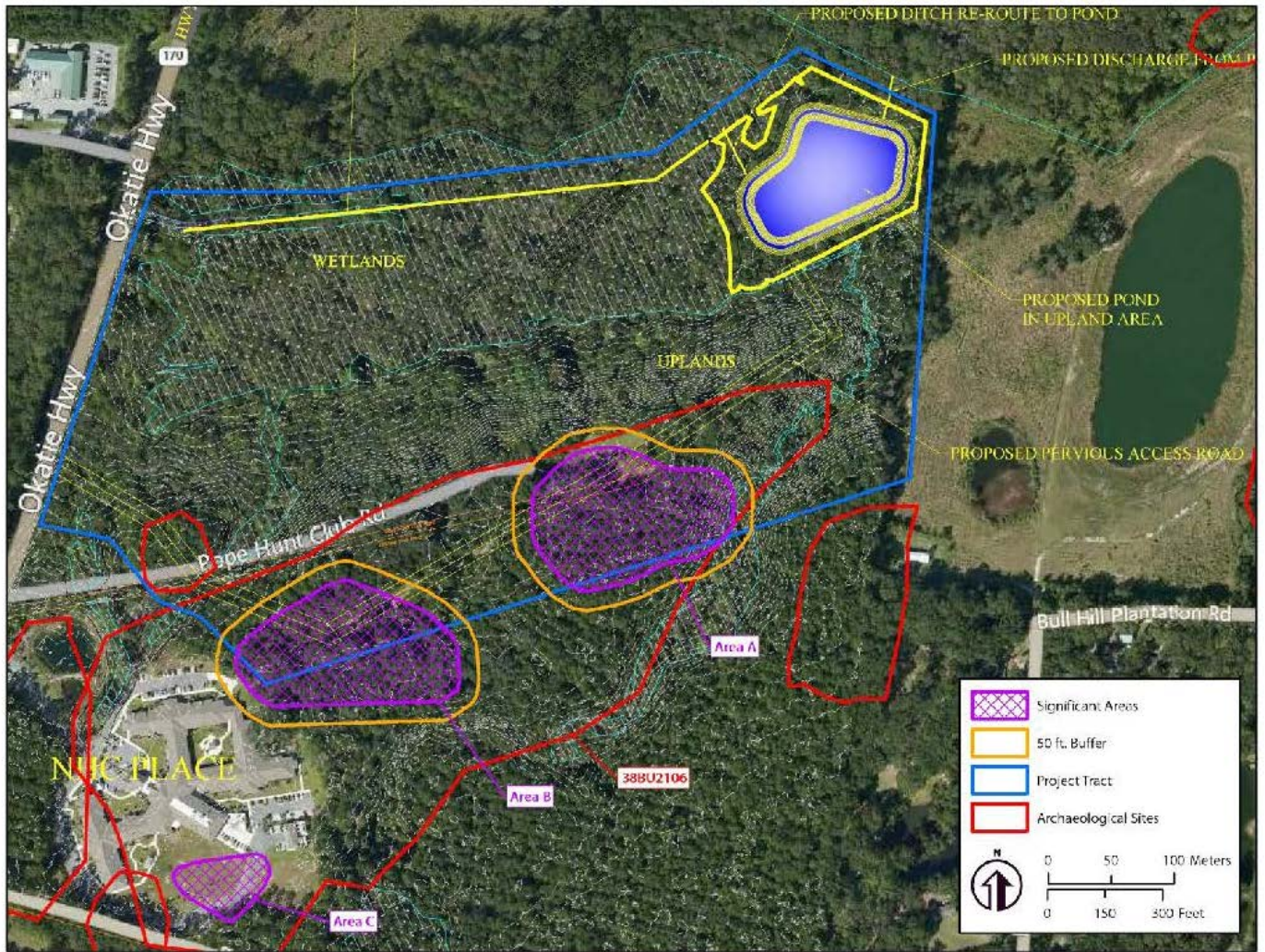


Figure 2 - Project Cultural Resources Site

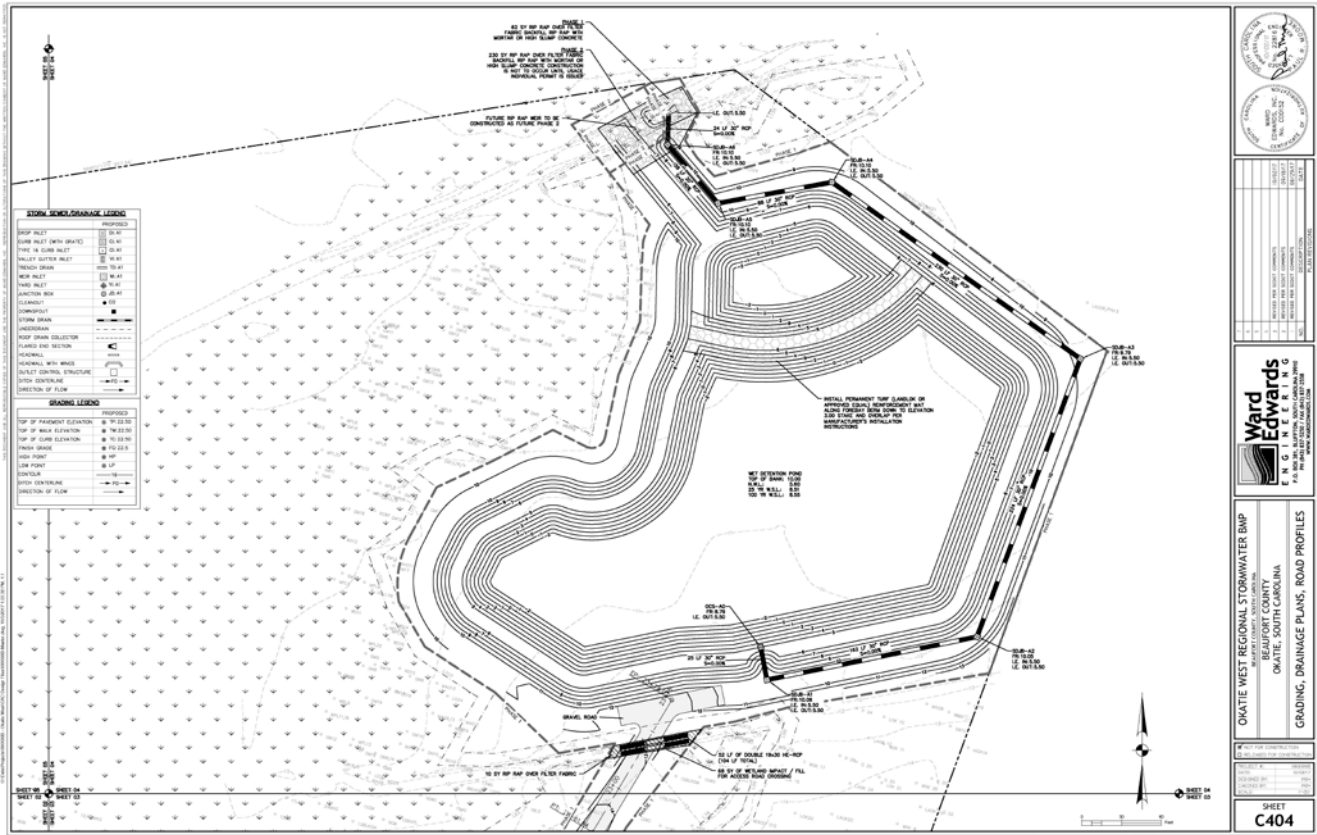


Figure 3 - Pond Grading & Drainage Construction Plan

The project permitting has been delayed by the required wetland impact permitting. The US Army Corps of Engineers has been reviewing the project and considering options for permitting the impacts under separate Nationwide Permits. It was initially thought that all impacts could be completed under three different Nationwide Permits, but it was later determined that the proposed diversion/outfall weir will require an Individual Permit. The USACE Project Manager visited the site in October 2017 to inspect the existing wetland channel that will be impacted by the diversion weir. The Manager ruled that the old constructed channel now functions as a tributary of the Okatie River, eliminating the possibility of Nationwide Permits for proposed impacts in the channel. The proposed road crossings are still being permitted as Nationwide Permits, but the other impacts have been pushed forward as an Individual Permit. The wetland permits are expected to be issued by the end of 2017, allowing the project to start construction in early 2018, for completion by summer 2018. The other State and Local permits are essentially complete, with approvals conditional on issuance of the Wetland Permits. This includes the SCDHEC-NPDES Permit, the SCDOT Encroachment Permit, and the Town of Bluffton Development Permit. There are a few “grand” tree removal issues to work out with the Town, but those will be resolved within a few weeks of this report.

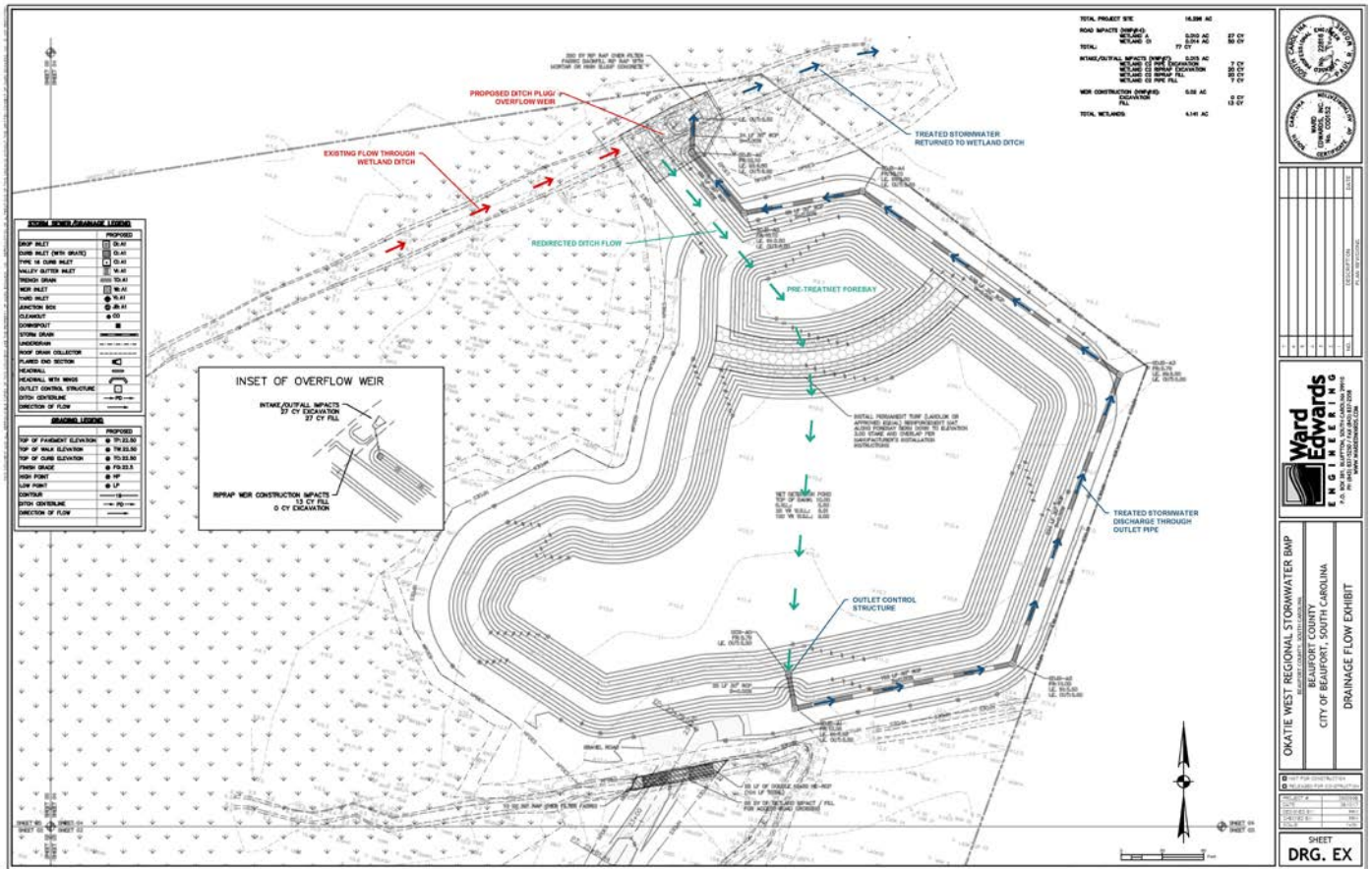


Figure 4 – Pond Function Exhibit used for Wetland Permitting

## Allen, Melissa

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**From:** Larson, Eric  
**Sent:** Monday, January 08, 2018 4:03 PM  
**To:** Allen, Melissa  
**Subject:** FW: Stormwater's Okatie West CIP project contract Award in January

For the SWUB at the January 10, 2018 meeting. Please print this email for the packet.

Eric W Larson  
Director, Environmental Engineering & Land Management  
Director, Disaster Recovery Task Force  
Manager, Stormwater Utility

-----Original Message-----

From: Flewelling, Brian  
Sent: Thursday, December 14, 2017 6:48 PM  
To: Larson, Eric <[elarson@bcgov.net](mailto:elarson@bcgov.net)>; Vaux, Tabor <[tvaux@bcgov.net](mailto:tvaux@bcgov.net)>  
Subject: Re: Stormwater's Okatie West CIP project contract Award in January

Eric,  
I don't have any problem with that. Tabor, do you? Let me know and we'll talk it over. Otherwise Eric, plan to give us a briefing on the situation at the NRC on January 16.

Brian

Sent from my iPhone

> On Dec 14, 2017, at 4:11 PM, Larson, Eric <[elarson@bcgov.net](mailto:elarson@bcgov.net)> wrote:

>

> Brian,

>

> We began advertising for bids today on this project. We were looking to receive bids on January 16th. Here's the situation... SC-DHEC and EPA accelerated our project and are requiring us to be complete with the project by July 31, 2018. We have moved as fast as we can to get permitting complete and bids out ASAP. We anticipate a 120 day construction schedule. Looking at the calendar, missing the SWUB mtg. Jan 10, NRC Jan. 16, and CC mtg. Jan 22 means we would lose a very valuable month if we wait for Board-Committee-CC approval to award in February.

>

> Would you be willing to allow us to take bid award straight to CC on Jan 22?

>

> I plan on briefing SWUB on Jan 10 and could do the same Jan 16 at NRC, but I doubt I'd be ready to stand up and give a recommendation.

>

> Please let me know. Please call me if you wish to discuss further.

>

> Sent from my iPad

> Eric W. Larson

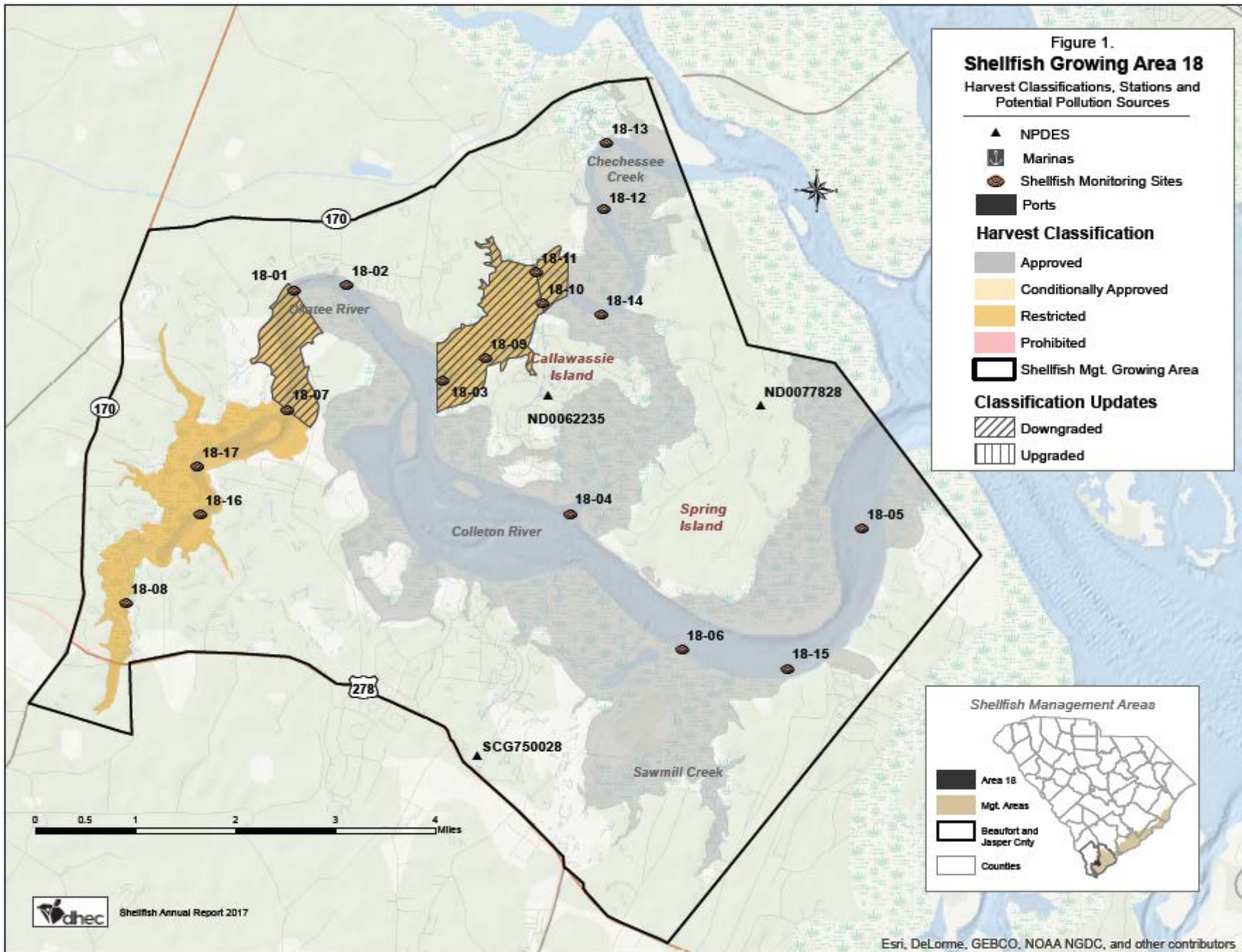
> 843-592-1252 (cell)

> Director, Stormwater Utility

# **Graphical Longitudinal Analysis of DHEC Shellfish Monitoring Stations 18-01, 18-02, 18-07, 18-08, 18-16 and 18-17**

**D. Alan Warren, Danielle Mickel and Mike Monday  
USCB Water Quality Laboratory  
December 6, 2017**

**Figure 1.**  
**Shellfish Growing Area 18**  
 Harvest Classifications, Stations and Potential Pollution Sources



# Monitoring Station Descriptions

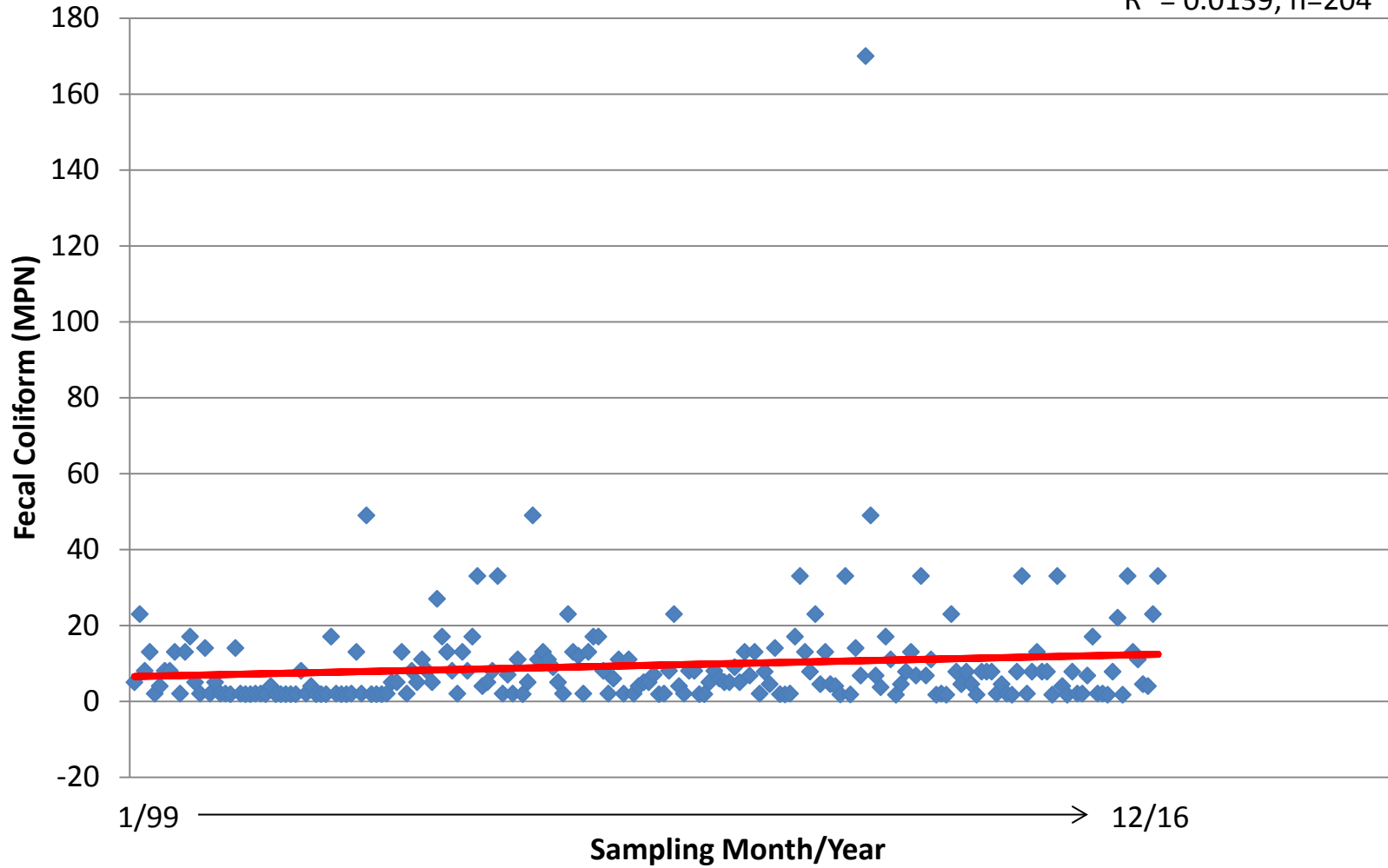
<b>Station</b>	<b>Description</b>
18-02.....	Okatie River Behind Bailey's Oyster Dock
18-01.....	Okatie River at Camp St. Mary's Dock
18-07.....	Okatie River at Indigo Plantation
18-17.....	Okatie River at Confluence of Cherry Point Tributary
18-16.....	Okatie River at Confluence of Pickney Colony Tributary
18-08.....	Okatie River at Dock without House





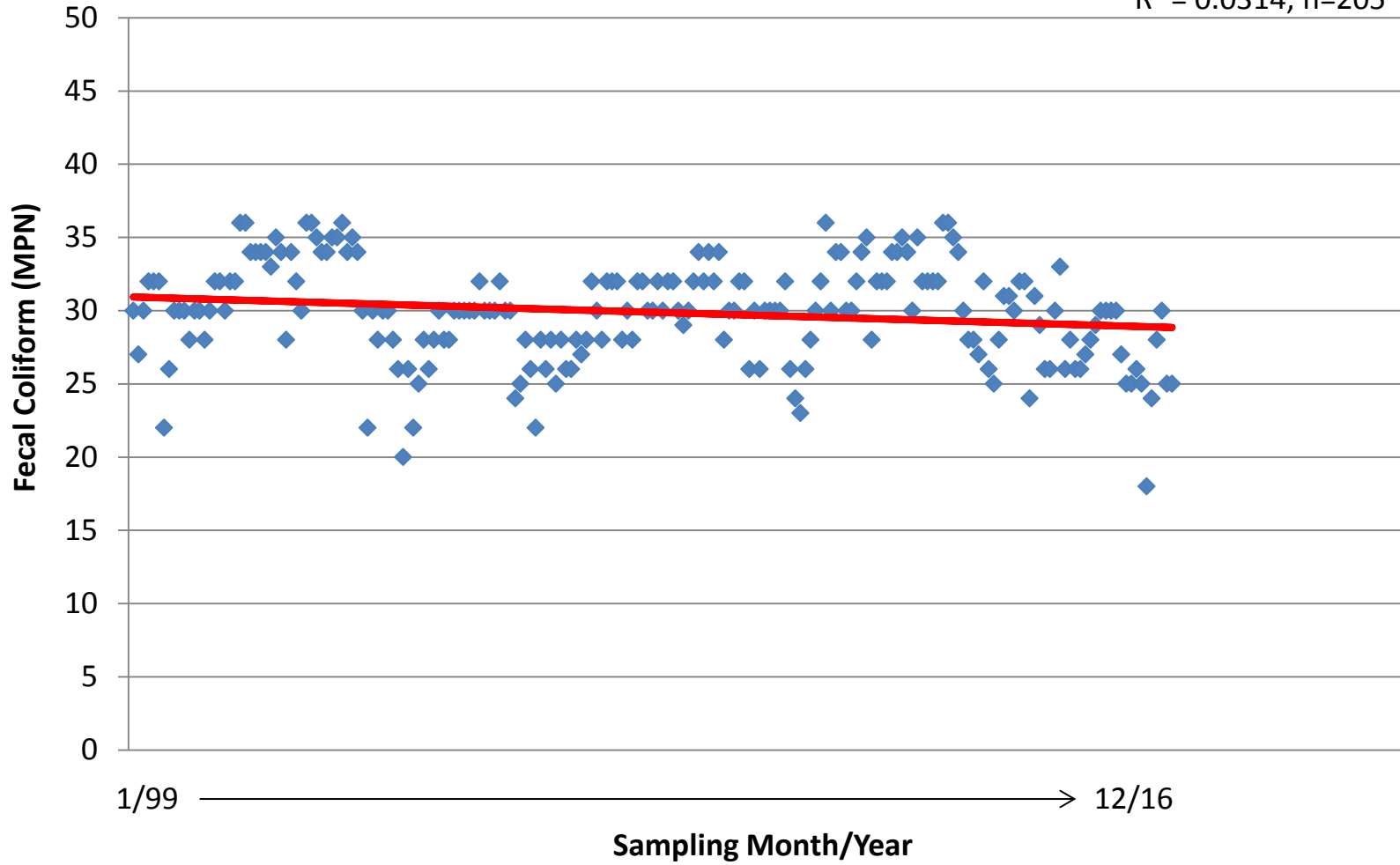
# Station 18-02

$$y = 0.029x + 6.5234$$
$$R^2 = 0.0139; n=204$$



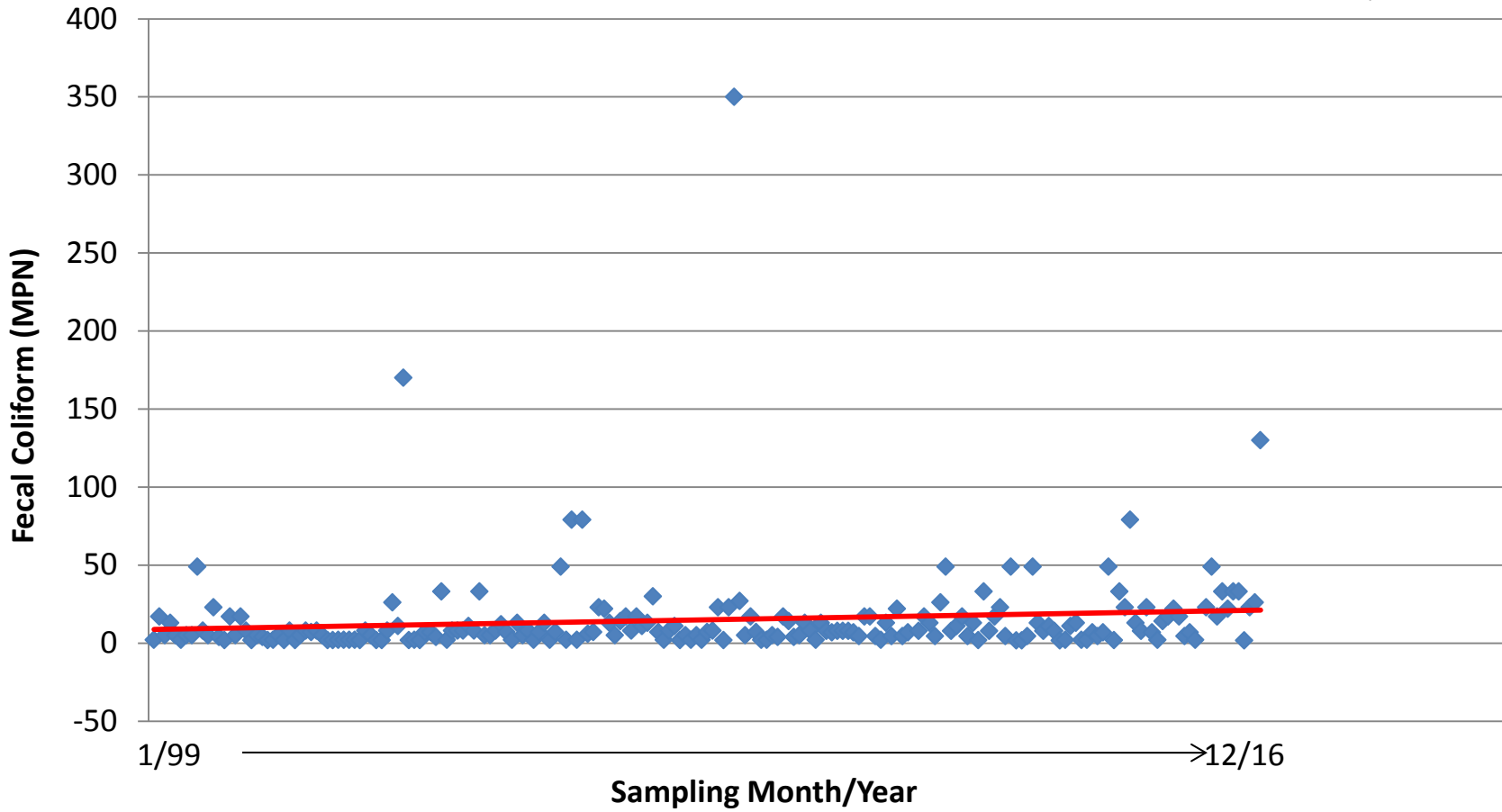
# Station 18-01

$$y = -0.0102x + 30.944$$
$$R^2 = 0.0314; n=205$$



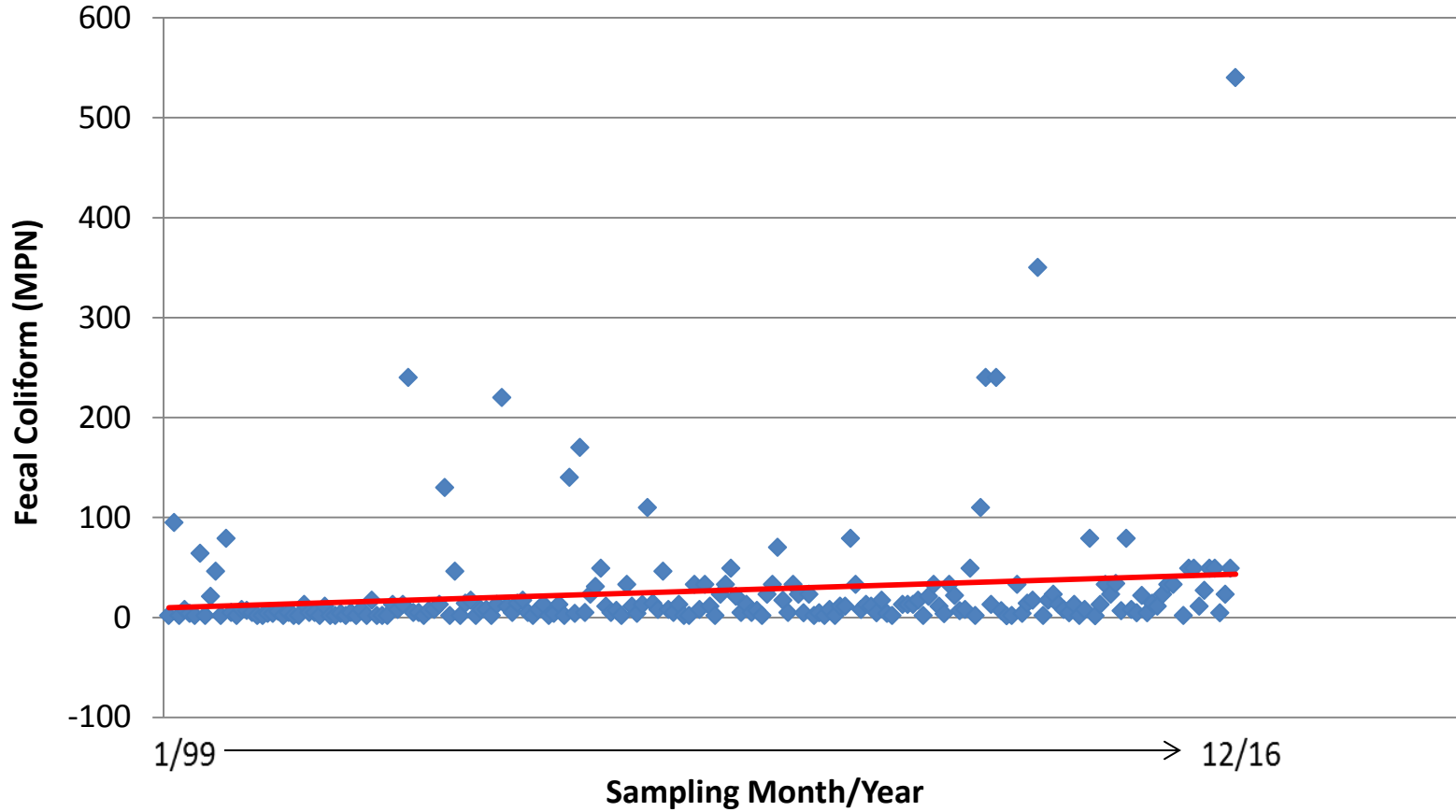
# Station 18-07

$$y = 0.0609x + 8.7286$$
$$R^2 = 0.014; n=202$$



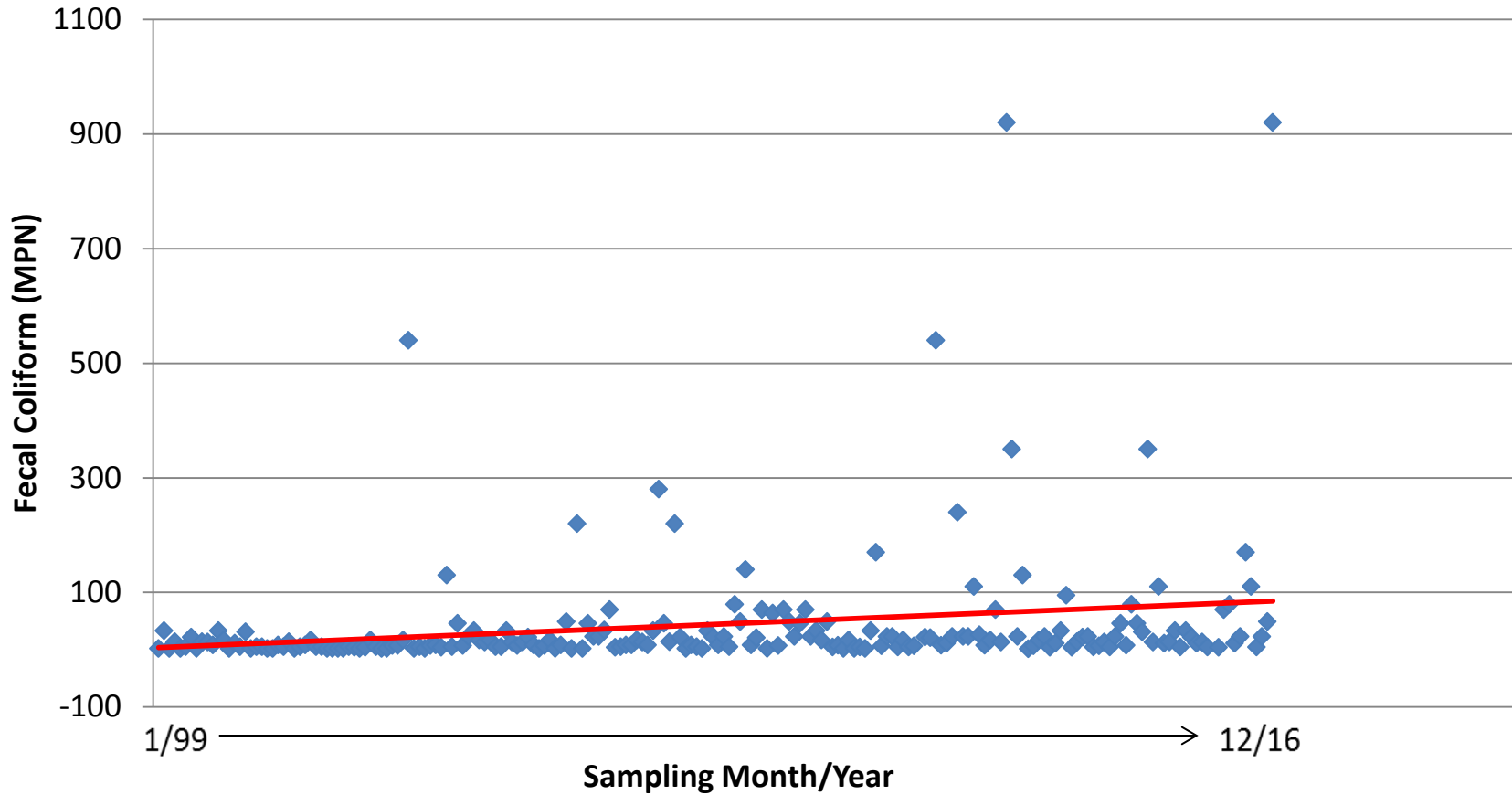
# Station 18-17

$y = 0.1624x + 9.7163$   
 $R^2 = 0.0276; n=203$



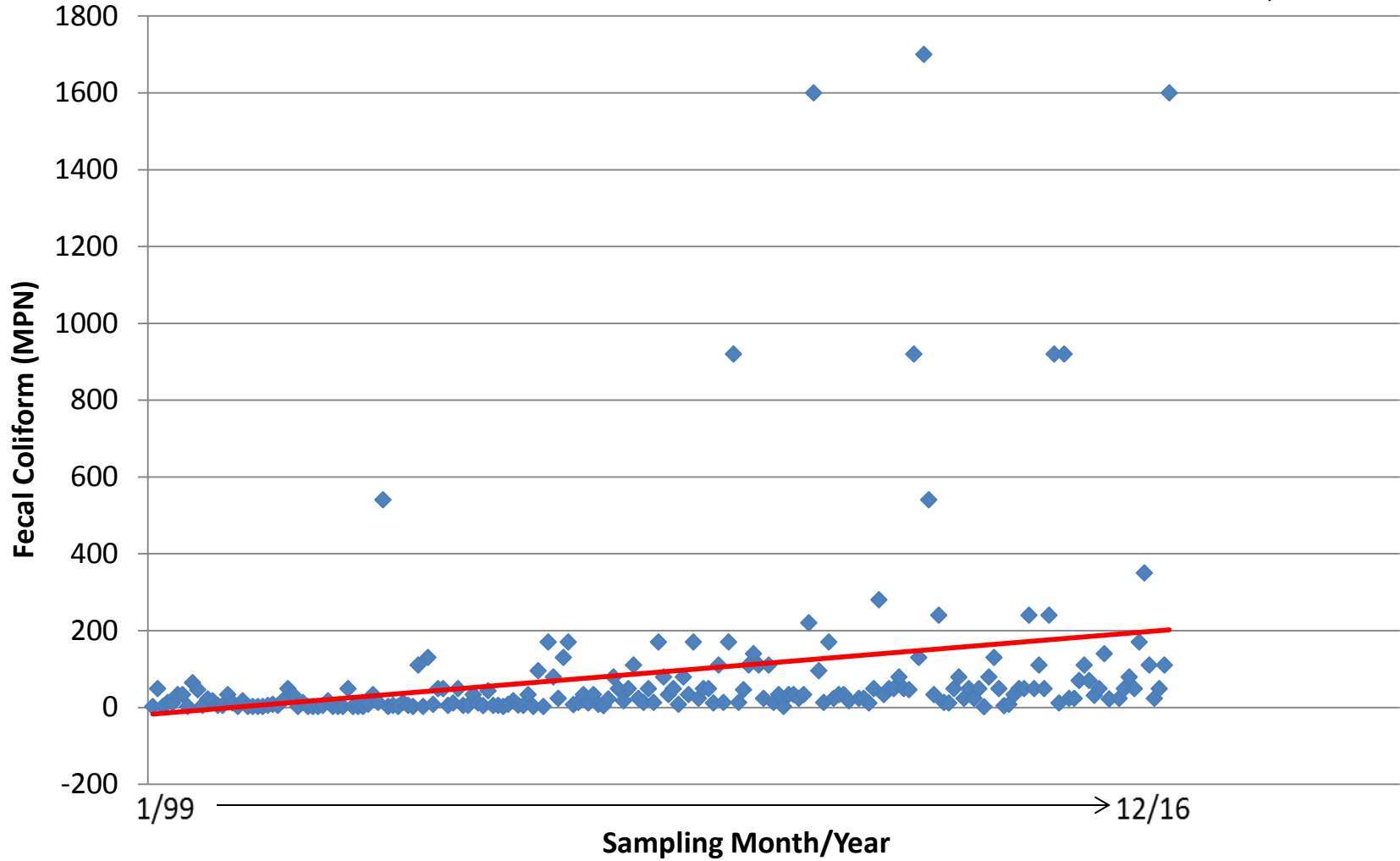
# Station 18-16

$$y = 0.396x + 3.1825$$
$$R^2 = 0.0428; n=203$$



# Station 18-08

$y = 1.0813x - 18.279$   
 $R^2 = 0.072; n=203$



# Trendline Slopes and Summary

Station	Trendline Slope
18-02	+ 0.029
18-01	- 0.0102
18-07	+ 0.0609
18-17	+ 0.1624
18-16	+ 0.396
18-08	+ 1.0813

**Summary:** Based on linear trendlines of positive slope that were fitted to DHEC water quality data, five of the six monitoring stations saw increasing trends in fecal coliform concentration during the period 1/99 to 12/16. Of those stations showing trends of increasing concentration, the rate of increase was greatest at station 18-08, occurring at a rate 2.7- and 6.7- fold that of stations 18-16 and 18-17, respectively. Considerably more modest rates of increase were seen at stations 18-02 and 18-07, while a slightly decreasing concentration trend was observed at station 18-01. In general, the rate of increase in fecal coliform concentration is, at least in part, a function of where a particular monitoring station is located relative to the headwaters of the Okatie River (i.e., the rate of increase became greater as one moved further up river). In addition, the same pattern emerges when one examines the average concentration of fecal coliform bacteria at each monitoring station over the period from 1/99 to 12/16 (i.e., average fecal coliform concentrations were 9.5, 29.9, 15.0, 26.4, 43.9 and 91.9 MPN at monitoring stations 18-02, 18-01, 18-07, 18-17, 18-16 and 18-08, respectively).<sup>10</sup>

# **Narrative Summary of the Analysis of DHEC Shellfish Monitoring Stations 18-01, 18-02, 18-07, 18-08, 18-16 and 18-17**

**Eric W. Larson  
Beaufort County Stormwater Utility Manager  
December 15, 2017**



# Narrative Summary

- The attached analysis consists of a series of graphics showing trends of fecal coliform concentrations, as reported by SC-DHEC, at six sampling stations within the Okatie River from 1999 to 2016. The sampling stations are shown on the accompanying map.
- In general, the concentration of bacteria increased as one traveled upriver toward the headwaters. The higher concentrations in the headwaters are believed to be a function of its relatively shallow depth and the fact that it doesn't "flush" well by comparison to downriver locations.
- Bacterial concentration trends over time were upward at five of the six sampling stations. In other words, bacterial concentrations generally increased over the 18-year period analyzed.
- Monitoring efforts have not included the measurement of surface runoff or overland flow within the Okatie River watershed. However, increased runoff volume and flow rate are suspected following rain events that have occurred over the period analyzed.
- The following milestones in Beaufort County's Stormwater Utility program are noteworthy:
  - 1) The Stormwater Utility was formed in 2001, and
  - 2) the Okatie River TMDL report is based on data through 2010.

# What Does This Mean?

- The upward trend in fecal coliform concentration does not reflect a lack of concern by the County for the “health” of the Okatie River or development within its watershed.
- Though the watershed has seen some development, it has been relatively undeveloped over the time period analyzed, suggesting the predominant bacterial input has been from “natural” sources. Nonetheless, development without adequate BMPs has the potential to further increase runoff volume and flow rate, thereby amplifying the amount of bacteria entering the Okatie River via suspension and transport within channels.
- As the County finds the upward trend in bacterial concentration unacceptable, a more proactive approach to management of the Okatie River watershed is needed compared to years past. The Okatie East project completed in late 2014 was an initial step in the right direction. However, it must be viewed as the first of several such efforts to be implemented at strategic locations within the watershed.

# Looking Ahead

- The County's goals are to be vigilant in its regulatory oversight, pursue land preservation, and construct new BMPs throughout the Okatie River watershed in an attempt to slow/stop the upward trend in bacterial concentration and ideally, reverse it.
- Given the “naturally occurring” bacterial sources and proposed development within the watershed, it is imperative that BMPs be well-designed, well-maintained, and well-functioning when development does occur.
- Comprehensive water quality monitoring plans are needed to identify priority areas within the watershed and determine the effectiveness of BMPs.
  - Such plans will inform the County and allow for early intervention and appropriate enforcement, thereby supporting the goal of natural resource preservation.



**BEAUFORT COUNTY STORMWATER UTILITY**  
**120 Shanklin Road**  
**Beaufort, South Carolina 29906**  
**Voice (843) 255-2805 Facsimile (843) 255-9436**  
**wstormwater@bcgov.net**



**M E M O R A N D U M**

**TO:** Natural Resources Committee  
Stormwater Utility Board

**FROM:** Eric W. Larson, PE, AICP, CPSWQ, CFM

**DATE:** January 10, 2018

**SUBJECT:** Condemnation for easement – Goude tract @ Palmetto Ridge St.  
Easement abandonment – Multiple tracts @ Bessies Ln. & Young Cir.  
Cease easement acquisition – Multiple tracts @ Orange Grove Rd. @ Sam Doyle Rd.

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The attached easement exhibits have been proposed by Staff, at the request of adjacent property owners and/or County Council members York Glover, Alice Howard, and Gerald Dawson. After multiple unsuccessful attempts of communication, negotiation and consultation with the respective Council member, it is now recommended to either begin formal condemnation procedures to acquire the easement, abandonment of existing easements, and/or seize easement acquisition.

**Palmetto Ridge Street**

The process to obtain the easements needed for this regionally significant ditch system formally began in December 2016. The single remaining tract, noted as 21F on the exhibit, has not granted an easement. Staff and County Council representative Alice Howard made 12 separate attempts to discuss the request with the owners, including 2 letters, 2 door hangers, and 3 personal visits. The owners have verbally denied the request. All of the other 16 property owners have signed easements; however, only one of those easements has been recorded pending this condemnation process. Staff is recommending condemnation on the Goude tract, R100-33A-21F.

**Bessies Lane and Young Circle**

The process to obtain the easements needed for this regionally significant ditch system formally began in March 2017, although conversations with one of the residents offering to assist in garnering community support began several years ago. Through past efforts, the County has recorded several easements. However, there are gaps in easement coverage to fully cover the system. While we have signed (unrecorded) easements on two tracts, we have numerous tracts still unsigned. All remaining property owners have been contacted by letter at least twice and have had multiple other attempts to communicate with them. Rev. Venice Young initially volunteered to assist us. We communicated with him 12 times, including 4 “no-show” meetings. Recently, one of the property owners, in which the County has a recorded easement, has stated verbally they desire to have the easement abandoned and do not want the County to continue to maintain the system. Due to lack of interest, Staff is recommending abandonment of all current recorded easements, ceasing further attempts to acquire easements, and ceasing future maintenance of this system. Abandonment would include easements on Tracts R100-16-199, R100-13-8A, & R100-13-17.

#### Orange Grove Road & Sam Doyle Drive

The process to obtain the easements needed for this regionally significant ditch system formally began in June 2017 and was prompted by complaints from one of the property owners in September 2016. Staff has sent a series of 2 letters, left door hangers, and made multiple attempts to communicate with property owners. The resident with the initial complaint has even refused to grant the needed easements. None of the 10 easements needed have been granted. Staff recommends ceasing all further attempts to acquire the easements and ceasing future maintenance of this system.



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

February 14, 2018

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

Utility Update

1. Southern Regional Planning Committee (SoLoCo) – The technical subcommittee for Stormwater met on January 17<sup>th</sup> to define a mission statement and goals for the committee related to a regional standard. The next meeting is tentatively scheduled for February 23<sup>rd</sup>, 2018.
2. Regionalization
  - a) The technical subcommittee is to draft a mission statement for an exploratory committee. This is scheduled to be discussed at the February meeting.
  - b) Northern Regional Plan Committee – Mr. Larson presented the Regionalization concept and the Okatie West bacteria trend analysis on January 19<sup>th</sup>. The committee comprises members of the County, City, and Towns of Port Royal and Yemassee, as well as the school board and USMC.
3. County staff re-organization – A minor reorganization of duties has been completed for the staff of the County Stormwater department. [See the attached organizational chart.](#) In general, Eric Larson, as the Stormwater Manager, will be overseeing all aspects of the MS4 program as a direct supervisor rather than the delegation of duties done in the past 3 years. Other duties for Mr. Larson still exist, but from a more advisory role and not frequent supervision. This has been made possible by strategic hiring decisions in other departments within the Environmental Engineering & Land Management (EELM) Division and delegation of non-MS4 related tasks to other team members within EELM.
4. FY 19 Budget – Staff is currently working on the Stormwater budget for next year. Reports on the SWU management fee are due February 15<sup>th</sup> to the SWIC. The draft budget is due to County Administration the first of March.

Monitoring Update

1. Lab Update (From Dr. Alan Warren and Lab Manager Danielle Mickel) –
  - a) Beaufort County:
    - i. Dr. Alan Warren met with BC staff and Paul Moore (Ward Edwards) at proposed Okatie West BMP pond site 1/31/18 to discuss pre-construction sampling regime.
    - ii. On 2/5/18, USCB WQL staff and BC staff jointly began collecting pre-

- construction samples for the Okatie West BMP pond project, which will continue 3X/week for 4 weeks.
  - iii. USCB WQL to continue MS4 collection and analysis for first quarter of second year (3<sup>rd</sup> permit year).
  - b) Town of Bluffton:
    - i. Continue with weekly sample analysis.
    - ii. Analyses for MS4 samples for 1<sup>st</sup> quarter of 2018.
  - c) Palmetto Bluff:
    - i. Monthly sampling and analyses for wet and dry events.
    - ii. Data reduction/reporting.
  - d) GEL-HHI:
    - i. Analysis for Hilton Head Island E.coli samples 4x/Qtr, including data reduction/reporting.
  - e) Leamington Community:
    - i. Quarterly collection and analyses of Leamington's stormwater lagoon system to include; data reduction/reporting, and consultation.
  - f) USCB Lab.
    - i. Annual mandatory proficiency testing for all certified methods for 2018 to upkeep certifications.
    - ii. Monthly (and as needed) calibration of equipment and instruments.
    - iii. Certification Upkeep-including review of QA/QC, logbooks, COC's.
    - iv. On-going efforts to obtain additional certification; no new certs obtained during this Qtr.
    - v. Monthly sterility checks on Lab water for TOC, TRC, HPC, Conductivity, metals.
    - vi. Research on software for laboratory management systems.
2. Post Construction monitoring of special projects – The post construction monitoring plan for the Bluffton Gateway project and the 4 stormwater ponds along US 278 is on hold temporarily to focus on Okatie West and to fill staff vacancies within the County staff. While a RFP for outside consulting services was considered for this monitoring effort, additional staffing is the preferred solution. Interviews are on-going.
  3. The Okatie West Trend analysis was presented to the County's Natural Resources Committee on January 16<sup>th</sup>.

#### Stormwater Implementation Committee (SWIC) Report

1. The SWIC committee has not met in the last month.

#### Stormwater Related Projects

1. Okatie West / SC 170 Widening Retrofit (Design and Construction = \$915,000 Budget) – The individual wetland impact permit from the USACE is in process of being finalized, at which time all other pending permits will be issued. The County awarded to one and

only bid to R. B. Baker Construction from Garden City, GA. Their \$99,305 bid was deemed responsive and under the budget of \$1,210,000. Construction will begin in February just as soon as contract paperwork is complete.

2. Easements – Staff is working on numerous easement requests and meets monthly to review status.
3. Stormwater workload / work order prioritization system – The Consultant, FM&E, is finalizing the tool based on staff comments of the final draft product and will have it complete in February. They will be populating the tool with current data from B.C. Connect. The good news is that with our special SW infrastructure crew working five, 10 hour days in an attempt to reduce the backlog, the data entry will be minimal since we are almost caught up on complaint driven work. FM&E’s project cost \$10,000.
4. Jenkins Island US 278 widening for the “super street” traffic signal project – This project is being managed by the County’s Traffic Engineering Division; however, the Stormwater design is being reviewed by Stormwater Department staff. The project is being built by the County via permit from SCDOT. SCDOT will own the project after completion of construction. There is an ownership and maintenance responsibility issue for SCDOT. The County is working with DOT and the hired consultant to find a BMP solution that is acceptable to all.
5. County Administration Building parking lot culvert failure – The SCDOT has an easement and series of pipes under the parking lot draining Ribaut Road to the Battery Creek marsh. Sinkholes began forming in the parking lot and our investigation concluded joint failures. Our estimate to repair the pipe via cure in place lining is approx. \$180,000. We are currently seeking concurrence with the repairs and cost sharing from SCDOT and the City, given this pipe is not a County asset and resides within the City limits.

#### Professional Contracts Report

1. Stormwater Management Plan (Master Plan) Update – (\$475,000 Budget; \$239,542 County portion) – ATM continues working on a full draft of the updated plan for SWIC review. The current schedule is to have the report ready by mid-February so that presentations of the report can be made to the appropriate bodies in March. The completion date is March 31, 2018.
2. CIP FY 18 Grouping Stormwater Projects – (Design - Ward Edwards \$202,000, Andrews Engineering \$560,490, Const. est. \$5,512,900) – Nothing new to report. All projects are in early design phase.

#### Regional Coordination

1. Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park



Subdivision (Design Cost. \$49,873, Tree Mitigation Cost is pending, Construction Cost by the Developer) – The consultant will be delivering final design plans to the County and Developer in February. DHEC permitting is pending. County SRT review is pending.

2. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Design for the final stage of construction has been approved. Final SRT permitting is pending.
3. Municipal “County” Infrastructure – No change.
4. Mossy Oaks Task Force – See Municipal Reports.
5. SESWA Fall Conference – October 3-5, 2018 at the Marriott Convention Center, Palmetto Dunes, Hilton Head Island, SC. Staff from all jurisdictions in Beaufort County are preparing to host the annual SESWA conference. More information to follow in upcoming months.

#### Municipal Reports

1. Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager and Brian Eber, MS4 Coordinator)
  - i. No information was available at the time of this report.
2. Town of Bluffton (From Kim Jones, Watershed Management Division Director)
  - i. [See attached report.](#)
3. City of Beaufort (From Neil Desai, Asst. Public Works Director)
  - i. Mossy Oaks Task Force – The Task Force members met on January 26, 2018. The City staff presented a cost sharing proposal for a Phase I conceptual engineering study to support grant funding requests for final design and construction. [The presentation is attached to this report.](#) The County staff requested reconsideration of the cost – share assigned to the County. County and City staff met on February 8, 2018 to discuss the project further. Staff will report on the results of that meeting during the SWUB meeting.
  - ii. No additional information was available at the time of this report.
4. Town of Port Royal (From Van Willis, Town Manager and Tony Maglione, consultant)
  - i. No information was available at the time of this report.

## MS4 Report

1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months. Due to absence of the MS4 coordinator, the County continues to contract with two local engineering firms to perform plan review. As a result of the re-organization mentioned in the Utility Update, SRT review for Stormwater will be transitioning to Community Development staff members soon. Consultant contracts will be closed at that time.
2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.
3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
4. Consulting for MS4 Coordinator – We had the unfortunate resignation of our MS4 Coordinator Rebecca Baker in mid-January. Due to the absence in this position, the County has contracted with McLaughlin Consulting, Garner, NC, to provide service to support the ongoing MS4 program needs. The contract is currently for 90 days and costs \$10,000. Beth McLaughlin, owner, has been assisting on completing the Year 2 MS4 permit annual report due this month. Beth’s other tasks include beginning Year 3 activities as defined on our approved Stormwater Management Plan (SWMP). We are currently advertising for Mrs. Baker’s replacement.
5. Public Education – Lowcountry Stormwater Partners (LSP), via Carolina Clear, continues to work on several initiatives towards public education and outreach.
  - a) [See the attached annual report from Carolina Clear, which will be part of the MS4 annual report.](#)
  - b) Mr. Larson presented to the local NAACP at Faith Memorial Baptist Church on Lands End Road on February 12. The topic was general information about the program and the easement acquisition process.
  - c) No additional updates were available at the time of this report.
6. MS4 Annual report – The timing of Mrs. Baker’s resignation resulted in the MS4 annual report not being complete prior to the February 1, 2018 deadline. DHEC staff was understanding of our workforce issue and granted a one-month extension to submit the report. The report will be submitted to the Board in the March Board packet.
7. MCM6 – Good Housekeeping – On February 12, 2018, the County’s Public Facilities Committee will take action on the purchase of a street sweeper for the Stormwater program. This will allow us to increase our Level of Service to remove pollutants from select roads and County facilities before they enter the stormsewer system.



# Beaufort County Stormwater



**Director of Environmental Engineering**  
Eric Larson

**Stormwater Manager**  
Eric Larson

**Public Works Director**  
David Wilhelm  
\*Funded by PW\*

**Admin Assistant**  
Melissa Allen

**Admin Tech**  
Alicia McQueen

**Utility Locates Coordinator**  
Evelyn Sutton

**SW Inspector Techs**  
Donald McKay  
Vacant

**SW Utility Inspectors**  
Danny Polk  
Daniel Brower  
Meghan Graham  
Vacant

**Business Manager**  
Carolyn Wallace

**MS4 Coordinator**  
Vacant

**SW Easement Manager**  
Patty Wilson  
\*Position 40% funded by SW\*

**Stormwater Infrastructure Superintendent**  
Matt Rausch

**Maintenance Foreman**  
Harold Green

**Construction Foreman**  
Daron Allen

**Outfall Shinn**  
1 - Crew Leader Op 3  
3(2) - Maint. Tech 2  
1 - Equip Operator 2

**Bush Hog**  
1 - Crew Leader Op 2  
2 - Crew Leader Op 1  
3(1) - Maint. Tech 1

**Roadside**  
1 - Crew Leader Op 3  
1 - Maint. Tech 1  
2 - Maint. Tech 2

**Support**  
1 - Crew Leader Op 2  
1 - Maint. Tech 2

**Vacuum Truck**  
1 - Crew Leader Op 2  
1 - Maint. Tech 1

**Dump Truck Pool**  
6 - Equip Op 1

**New Construction**  
1 - Crew Leader Op 3  
1 - Maint. Tech 1  
2 - Maint. Tech 2  
1 - Field Grade Tech  
1 - Equip Operator 2

**MS4 Data Manager (GIS)**  
\*Position Funded by SW\*

( ) Indicates Vacancies Over 1

## **TOWN FACILITIES**

### **1. Buckwalter Place Multi-County Commerce Park**

- A public-private partnership agreement was established among the Town of Bluffton, the Bluffton Public Development Corporation, and Southeastern Development Associates (formerly known as Blanchard and Calhoun Commercial) for continued public infrastructure investment supportive of the multi-county commerce park.
- Development permit issued.
- Mass grading began in June 2016.
- **Next Steps:**
  - Install building pad.
  - Complete landscape improvement plans for Buckwalter Place Boulevard and Circle in January 2018.

### **2. Town Hall Redevelopment**

- Administration, Growth Management, Finance and Human Resources have all relocated to the temporary Town Hall at 98 Fording Island Road. A modular office unit and a storage modular unit were installed in the back parking area behind Calhoun Station. Customer Service, Business License and a portion of Code Enforcement were relocated Saturday 11/18/2017. Officially up and operating on Monday 11/20/2107. Exterior Cameras are installed and operable at the overflow parking lot at 28 Bridge Street and the surrounding area around Town Hall at 20 Bridge Street.
- **Next Steps:** The following tasks will continue into February.
  - Abatement mobilization is underway by abatement team.
  - Selective demolition has started.
  - All ceilings have been removed.
  - Walls, case work and non-asbestos flooring are in the removal stages by demo crew.
  - Pre-con meetings are scheduled for earthwork and concrete vendor.
  - LS3P, Ward Edwards and TOB are working on the SCDOT permitting process at Pritchard Street.

## **MAY RIVER WATERSHED ACTION PLAN IMPLEMENTATION**

### **1. Stoney Creek Wetlands Restoration: Preliminary Design Phase**

- **Next Steps:**
  - Following Town Council CIP Budget Workshop on 5/31/17, Staff was directed to not develop a Work Authorization for projects within the County's jurisdiction until further notice.

### **2. 319 Grant Phase 3 (Town Hall Project)**

- Staff received notice on 12/8/17 that both SCDHEC and EPA approved the grant workplan amendment for stormwater treatment retrofits at the Town Hall site following the renovation.
- Revised contract was received and signed by the Town Manager 1/16/18.
- **Next Steps:**
  - Complete preliminary design and coordination with Town Hall Renovation by 3/30/18.

## **BEAUFORT COUNTY STORMWATER COORDINATION**

### **1. Stormwater Utility Management Plan Update**

- Beaufort County is the managing partner for this county-wide stormwater master plan update by Applied Technology & Management (ATM).
- County executed a change order to scope and timeline with ATM with no net increase in cost. Resulting project timeline to terminate is now 11/30/17, one month later than originally scheduled.
- ATM delivered Draft Model outputs for Quality Assurance/Quality Control 4/6/17 and reviewed by each municipality by 4/24/17.
- Next task order is to review and update the Countywide CIP list. Staff review anticipated by 9/1/17 but delayed by Tropical Storm Irma. Beaufort County's Eric Larson announced at the 10/18/17 Stormwater Utility Board meeting that the draft CIP list from ATM will be distributed to partners for review prior to 10/31/17.
- At the 11/15/17 Stormwater Utility Board meeting, it was announced that ATM has requested another time extension to deliver the Final Report by 1/31/18. As of 11/20/17, Staff has not received the draft CIP list to review and offer comments.
- **Next Steps:**
  - Due to challenges associated with two hurricanes (Matthew and Irma) during the contract period, ATM has requested a Change Order from the Stormwater Utility Board to move final deliverables back to 3/31/18.

## **DIVISION/STAFF UPDATES**

### **Project Management**

1. Beautification Committee (**Attachment 1**) continued with the implementation of the following beautification items:
  - Ordered 20 tabby pots for spring installation Phase 2 of the May River Road Streetscape.
  - Approved \$1,800.00 to plant six trees at the Law Enforcement Center.
  - Approved \$1,500.00 for miscellaneous improvements at Pritchard Park.
  - Continued planning for median plantings at Bluffton Road.
  - Completed fall/winter annual replacements for the May River Road planters.

### **Watershed Management**

1. As requested by the Southern Beaufort Regional Committee (SoLoCo) via direction by the Town Manager, staff met with regional stormwater representatives to begin drafting a mission statement and scope for a regional stormwater ordinance and design standard as well as a regional, independent Utility on 1/17/18.
2. Staff submitted Annual MS4 Report to SCDHEC on 2/1/18.
3. SC Department of Health and Environmental Control Shellfish Harvesting Monitoring Data Year-to-Date – **Attachment 2**
4. May River Watershed Action Plan Implementation Summary – **Attachment 3**

5. **MS4 Minimum Control Measure (MCM) – 1 Public Education and Outreach and MS4 MCM – 2 Public Participation and Involvement**
  - Staff participated in the Beaufort County Stormwater Utility Board meeting on 1/10/18.
  - Staff attended the Keep Beaufort County Beautiful (KBCB) Board meeting on 1/11/18.
  - May River Watershed Action Plan Advisory Committee met 1/25/18 – **Attachment 4**
    - The Committee made the following formal recommendations for Town Council’s consideration:
      - Amend the existing Memorandum of Understanding with USCB to support development of a real-time, hand-held Microbial Source Tracking testing capability.
      - Prioritize sewer extension projects # 1- 6 as recommended by staff as part of the Town’s Capital Improvement Program - **Attachment 4.b**
6. **MS4 MCM – 3 Illicit Discharge Detection and Elimination**
  - Stormwater Infrastructure Inventory Map – **Attachment 5.a**
  - Fecal Coliform Concentrations Trend Map – **Attachment 5.b**
  - Microbial Source Tracking Trend Map – **Attachment 5.c**
    - Staff continues to pull MST samples on a monthly basis.
    - In December, twelve (12) Microbial Source Tracking (MST) samples throughout Old Town Bluffton and the Headwaters of the May River were collected. Four (4) samples collected in a drainage of May River Plantation had Human DNA present.
  - Town staff has coordinated with SCDHEC to pull MST samples concurrently with the state’s routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, 19-24, and 19-16. December resulted in high fecal coliform concentrations and human DNA was detected at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24.
  - Illicit Discharge Investigations – **Attachment 5.d**
    - In response to the detected Human DNA at five (5) of the May River SCDHEC shellfish harvesting water quality monitoring stations: Staff conducted inspections of twelve (12) homes within May River Plantation. Staff also inspected outfalls and drainage areas of Palmetto Bluff. Staff is continuing to coordinate with the Board of May River Plantation regarding septic system maintenance following previous positive human detections and inspections not identifying an obvious failure(s).
  - MS4-required Quarterly Water Quality Sampling
    - This portion of the permit requirement is now coming on-line and will be reported in future updates as results are obtained
7. **MS4 MCM – 4 Construction Site Stormwater Runoff Control – Attachment 6**
8. **MS4 MCM – 5 Stormwater Plan Review & Related Activity – Attachment 7**
  - Post-Construction BMP Inspection Program was initiated in November.
    - Official inspections and subsequent reports began in November 2017 and are reported monthly in Attachment 6.
    - POAs are contacting Staff to rectify any deficiencies found in their stormwater drainage systems.

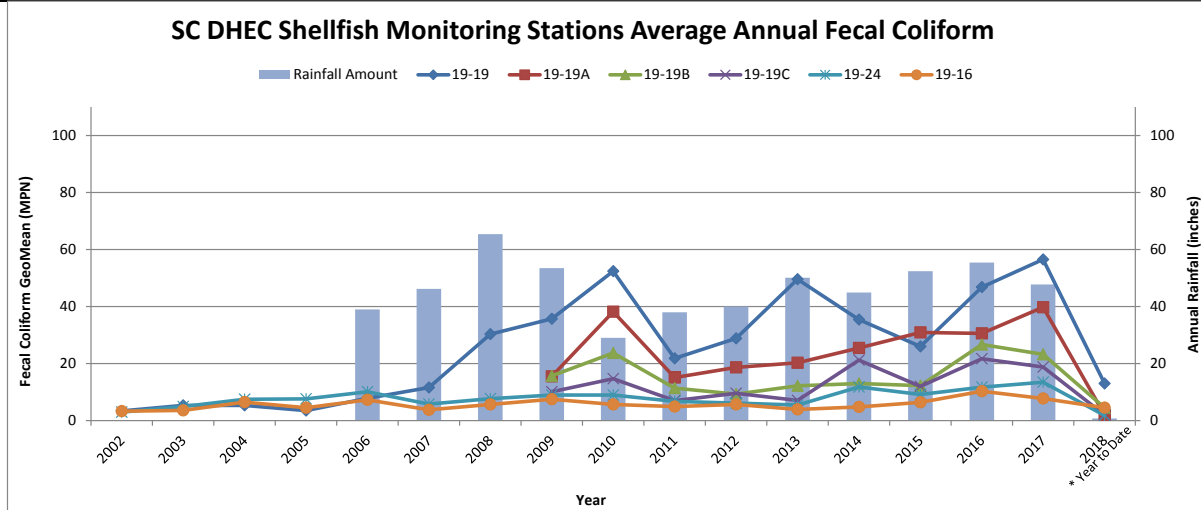
9. Citizen Drainage Concern Heat Map – Attachment 8
10. Septic System Maintenance Assistance – Attachment 9
11. Citizen Requests for Watershed Mngt. Services & Activities – Attachment 10

### Public Works

1. **MS4 MCM – 6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**
  - Performed weekly, street sweeping on Calhoun Street, Highway 46, Bruin Road, May River Road, Pin Oak Street and street, curbs and medians on Simmonsville Road and Buck Island Road.
  - Performed inspection on the following ditches:
    - Brown’s property ditch
    - New Riverside Pond
    - Arrow ditch (2,569 LF)
    - Red Cedar ditch (966 LF)
    - Buck Island roadside ditch (15,926 LF)
    - Simmonsville roadside ditch (13,792 LF)
  - Ongoing mowing, litter clean up and maintenance of Masters Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Road
  - Ongoing mowing and maintenance of New River Trail and the Town’s New Riverside Pond.
  - Received training on the following:
    - OSHA Compliance
    - Hazardous Materials Operation/OSHA Level 2
    - FEMA NIMS IS-100.b/IS-200.b/IS-700.b
2. **Beautification Program**
  - Eagles Field - Mow and rake the field
  - Wright Family Park – a partial cleanup of the property was completed along with some landscaping, shrub removal and under brushing.
  - Christmas Wreath has been put up. /Dubois Park was light up for the tree lighting.
  - Old Town - Ongoing trash cleanup
    - May River Road
    - Burnt Church Road
    - Highway 46
    - Simmonsville Road
    - Buck Island Road
  - Landscape Maintenance - Ongoing routine
    - Regional Dock
    - 1261 and 1264 May River Road
    - Law Enforcement Center
    - Pritchard Park
    - 68 Boundary Street /111 Calhoun Street
    - Wright Family Park
    - New flower pots were added to public library, and the LEC.Ongoing.

	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2015	2016	2017	2018	2015	2016	2017	2018	2015	2016	2017	2018	2015	2016	2017	2018	2015	2016	2017	2018	2015	2016	2017	2018
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)
December	110.0	79.0	1600.0		33.0	23.0	920.0		27.0	49.0	540.0		7.8	33.0	240.0		6.8	7.8	220.0		4.5	23.0	49.0	
November	NS	33.0	49.0		NS	13.0	33.0		NS	7.8	7.8		NS	14.0	31.0		NS	13.0	2.0		NS	33.0	2.0	
October	23.0	NS	22.0		49.0	NS	49.0		4.5	NS	33.0		23.0	NS	23.0		7.8	NS	6.8		4.5	NS	2.0	
September	46.0	23.0	17.0		17.0	110.0	7.8		9.3	23.0	11.0		17.0	13.0	4.5		23.0	4.5	2.0		4.5	7.8	1.8	
August	6.8	NS	79.0		17.0	NS	70.0		13.0	NS	21.0		13.0	NS	33.0		24.0	NS	33.0		4.0	NS	33.0	
July	17.0	79.0	350.0		7.8	17.0	110.0		6.8	22.0	130.0		11.0	17.0	49.0		2.0	49.0	49.0		4.5	13.0	22.0	
June	33.0	79.0	23.0		46.0	130.0	49.0		11.0	70.0	13.0		14.0	110.0	17.0		4.5	33.0	7.8		11.0	23.0	4.5	
May	NS	70.0	17.0		NS	23.0	23.0		NS	49.0	7.8		6.8	49.0	2.0		6.8	14.0	23.0		23.0	17.0	4.5	
April	1.8	23.0	7.8		33.0	23.0	23.0		17.0	13.0	4.5		17.0	13.0	7.8		13.0	7.8	13.0		17.0	1.8	4.5	
March	170.0	33.0	350.0		130.0	33.0	11.0		49.0	33.0	33.0		17.0	17.0	13.0		13.0	11.0	13.0		6.8	7.8	33.0	
February	13.0	23.0	13.0		14.0	17.0	7.8		1.8	13.0	13.0		1.8	11.0	9.3		7.8	6.8	4.5		2.0	1.8	1.8	
January	79.0	110.0	95.0	13.0	79.0	33.0	79.0	2.0	49.0	49.0	31.0	4.5	33.0	17.0	49.0	2.0	17.0	7.8	27.0	1.8	7.8	17.0	33.0	4.5
Additional Samples																								
Average Annual GeoMean	26.0	46.8	56.5	13.0	30.9	30.6	39.8	2.0	12.3	26.7	23.3	4.5	12.0	21.7	18.8	2.0	9.2	11.7	13.5	1.8	6.4	10.3	7.7	4.5
** Truncated GeoMetric Mean	37.0	37.0	44.0	142.0	21.0	30.0	36.0	34.0	11.0	16.0	20.0	24.0	11.0	16.0	16.0	17.0	7.0	9.0	10.0	10.0	4.0	6.0	7.0	7.0
** Truncated 90th Percentile	205.0	105.0	203.0	712.0	95.0	89.0	133.0	166.0	51.0	69.0	83.0	97.0	55.0	65.0	57.0	75.0	30.0	29.0	37.0	49.0	13.0	21.0	29.0	33.0

NS = No Sample  
 AS = Additional Samples  
 \*\* Town staff calculations utilizing DHEC statistics



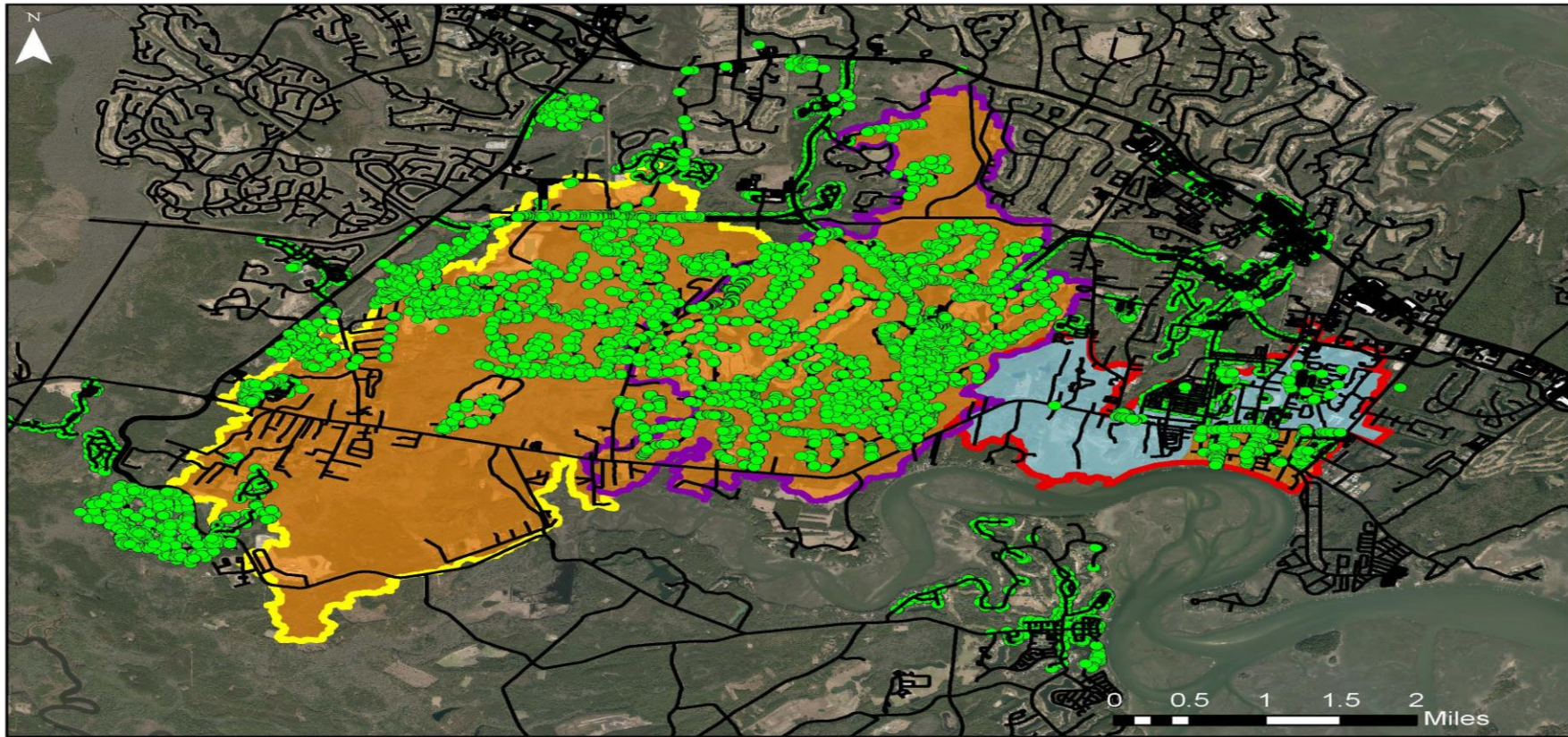


ACTIVITY - POLICY	STATUS
May River Watershed Action Plan Update (Grant award of \$55,000 in 2017)	To be completed with direction and input from staff, the public, Water Quality Technical Advisory Committee, May River Watershed Advisory Committee, and Town Council. Notified verbally on 4/7/17 that due to anticipated Federal Budget cuts to the EPA, SCDHEC rescinded the grant. <b>Action Plan Update is identified as a FY19-20 priority by the WAPAC.</b>
Sewer Connection & Extension Policy	Council adopted the Sewer Connection & Extension Policy at 9/26/17 meeting. <b>Staff commenced implementation with BJWSA coordination for prioritization of sewer extension in Old Town, currently revising Sewer Connection Ordinance, and initiating septic system maintenance education.</b>
ACTIVITY - PROJECTS	STATUS
Sanitary Sewer Extension	Buck Island/Simmons Road (BIS) Phases I, II, III and IV are completed. Toy Fields is completed. <b>Sewer Extension &amp; Connection is identified as a FY19-20 priority by the WAPAC. Current project updates are included in Engineering Consent Agenda under "Sewer &amp; Water."</b>
May River 319 Grant Phase 1 - New Riverside Pond (Grant award of \$483,500 in 2009)	Completed in 2013. Per water quality tests, a statistically significant reduction in fecal coliform bacteria concentration exists pre-pond versus post-pond. However, bacteria levels re-load prior to discharging into the May River, leading to additional BMP installation of Filtrexx proprietary filter socks. Installed 12/12/17 to maintain bacteria reduction.
May River 319 Grant Phase 2 - Pine Ridge (Grant award of \$290,000 in 2011)	Completed in 2016. In post-construction monitoring phase to assess project efficacy.
May River 319 Grant Phase 3 - Town Hall Parking Retrofit (Grant award of \$231,350 in 2016)	Staff submitted a workplan amendment to SCDHEC & EPA for this grant award to include stormwater retrofits at Town Hall. <b>Current project updates are included in Engineering Consent Agenda following execution of a revised contract on 1/16/18.</b>
Stoney Creek Wetlands Restoration: Preliminary Design Phase	Wetlands restoration project with the goal to reduce stormwater volume reaching the May River. <b>Current project updates are included in Engineering Consent Agenda.</b>
May River Watershed Water Quality Model	Preliminary 2002 Palmetto Bluff Duck Pond Drainage area watershed model complete. Completed New Riverside BMP model for comparison to field observations. Rose Dhu Creek sub-watershed "Existing Conditions" portion of the Headwaters Water Quality Model is underway. Currently proposed for a future fiscal year following completion of the Beaufort County Stormwater Master Plan and the Action Plan Update.
ACTIVITY - FINANCIAL	STATUS
Additional Funding Opportunities	Exploring partnership opportunities with BJWSA.

ACTIVITY - PROGRAMS	STATUS
Public Outreach/Participation/Involvement (MS4 Minimum Control Measure #1 & 2)	Outreach and involvement efforts continue through county-wide partnership with Carolina Clear as Lowcountry Stormwater Partners - Neighbors for Clean Water and through local cleanups and civic engagements and the May River Watershed Action Plan Advisory Committee. <b>Current updates are included in Engineering Consent Agenda and Attachment 4.</b>
Infrastructure Mapping/GIS (MS4 Minimum Control Measure #3)	Data points continue to be collected with new development to meet MS4 requirements & populate water quality model. <b>Current updates are included in Engineering Consent Agenda Attachment 5a.</b>
Water Quality Monitoring Program (MS4 Minimum Control Measure #3)	<ol style="list-style-type: none"> <li>1. SCDHEC Shellfish monitoring results</li> <li>2. Fecal coliform bacteria "hot spot" concentrations</li> <li>3. Microbial Source Tracking of human sources of bacteria</li> <li>4. Illicit Discharge investigation and monitoring</li> <li>5. BMP efficacy monitoring</li> <li>6. MS4 monitoring</li> </ol> <b>Current updates are included in Engineering Consent Agenda Attachments 2, 5b, 5c, and 5d.</b>
Construction Site Stormwater Runoff Control Program (MS4 Minimum Control Measure #4)	Sediment and erosion control inspections with escalating enforcement response. <b>Current updates are included in Engineering Consent Agenda Attachment 6.</b>
Stormwater Plan Review & Related Activity Program (MS4 Minimum Control Measure #5)	SCDHEC delegated plan review-related activities. <b>Current updates are included in Engineering Consent Agenda Attachment 7.</b>
Ditch Inspection/Maintenance Program (MS4 Minimum Control Measure #6)	Continued coordination with SCDOT, Beaufort County and Town Public Works to inspect and maintain ditches within the Town's jurisdiction. Town is initiating an easement acquisition program. <b>Current updates are included in Engineering Consent Agenda Attachment 8 and under "Public Works."</b>
Septic System Maintenance Program	FY18 funding is \$10,000 and administered by Growth Management via the Neighborhood Assistance Program (NAP). On-going assistance offered to Town residents regardless of financial status through Neighborhood Assistance Program. <b>Current updates, as reported by NAP, are included in Engineering Consent Agenda Attachment 9.</b>
Sewer Connection Program	In FY18 Council allocated \$200,000 for a Sewer Connection Program as well as \$10,000 for assistance to connect income-qualified individuals to existing sanitary sewer as part of the Neighborhood Assistance Program. Council adopted the Sewer Connection & Extension Policy at 9/26/17 meeting. <b>CIP projects will be prioritized as part of FY19 Budgeting Process. Sewer Connection Ordinance changes anticipated 1st quarter 2018.</b>

# MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination): Stormwater Infrastructure Inventory

Stormwater Inventory Collection



**Collection Status**

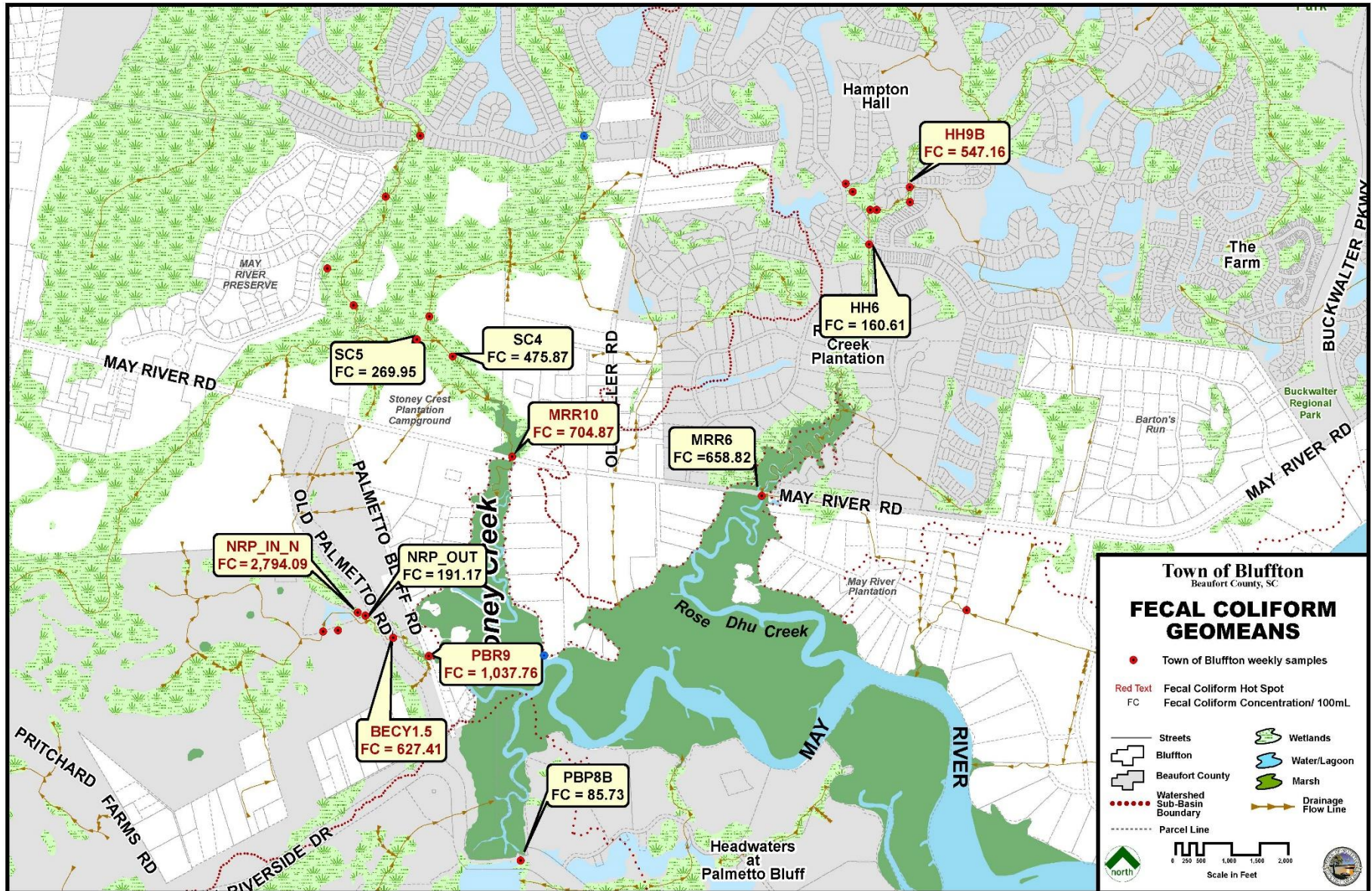
- Completed
- In Progress
- Inventoried SW Utilities
- Mid River/Old Town
- Rose Dhu Watershed
- Stoney Creek Watershed

DISCLAIMER:  
This map was created for the Town of Bluffton Engineering Division and is intended to be used as a guide or representation for the Town of Bluffton. The GIS maps and data distributed by the Town of Bluffton Engineering Division are not guaranteed to be accurate, complete, or current. The accuracy, completeness, and currency thereof are not guaranteed. The Town of Bluffton makes no warranties, expressed or implied, as to the accuracy, completeness, currency, reliability, or suitability for any particular purpose of information or data contained in or generated from the Town's Geographic Information Systems database. Additionally, the Town of Bluffton is not liable, in whole or in part, for any damages, including but not limited to, consequential damages, arising from the use of this data, and assumes no responsibility to maintain it in any manner or form.

Stormwater Infrastructure Inventory Collection Status

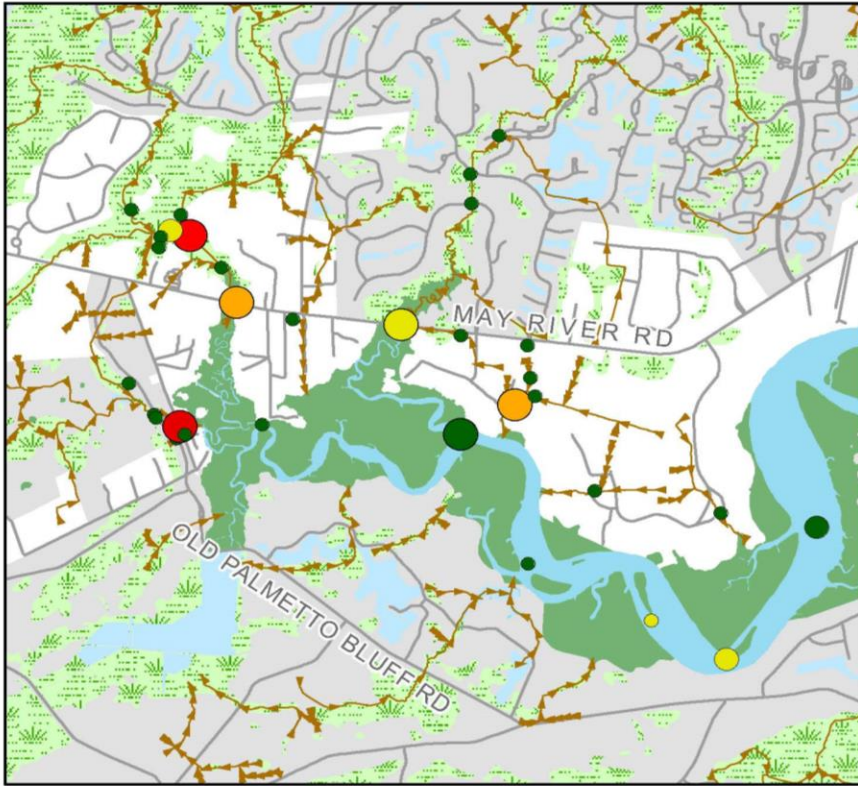
FY 2018 YTD Collection Totals	3,169
FY 2017 Collection Totals	3,874

# MS4 Minimum Control Measure #3 – IDDE: Fecal Coliform Concentrations Trend Map

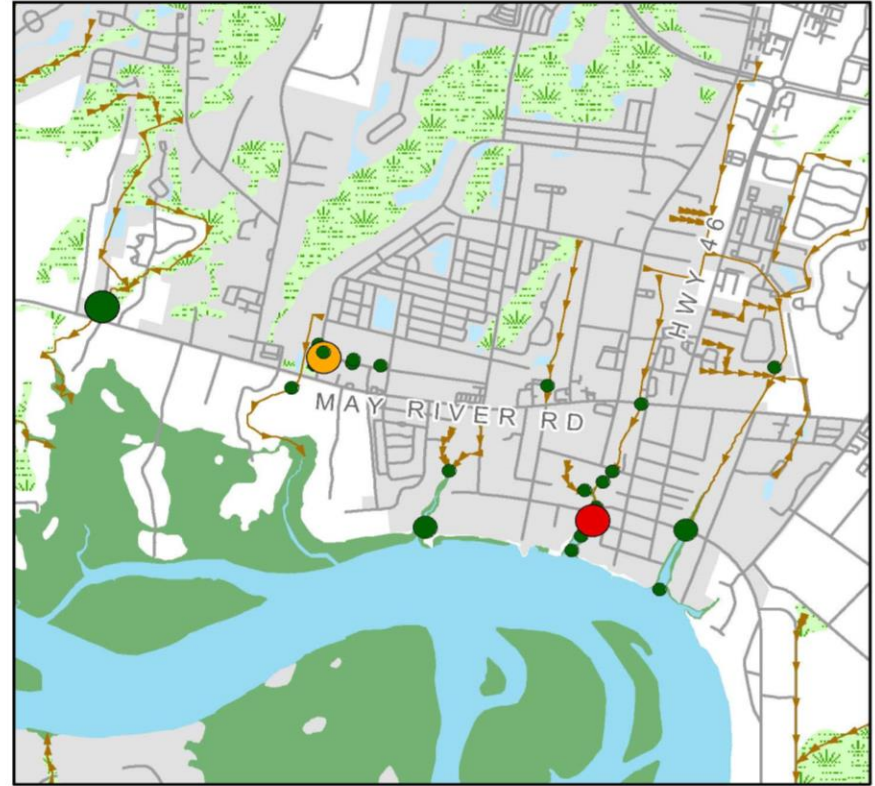


fecal coliform geomeans work file 12/18/17

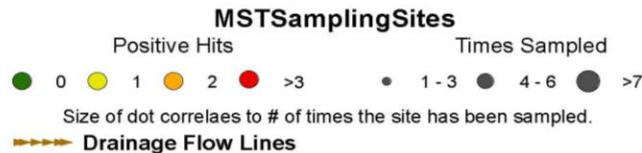
# MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Trend Map



Microbial Source Tracking Trend Map  
Headwaters May River



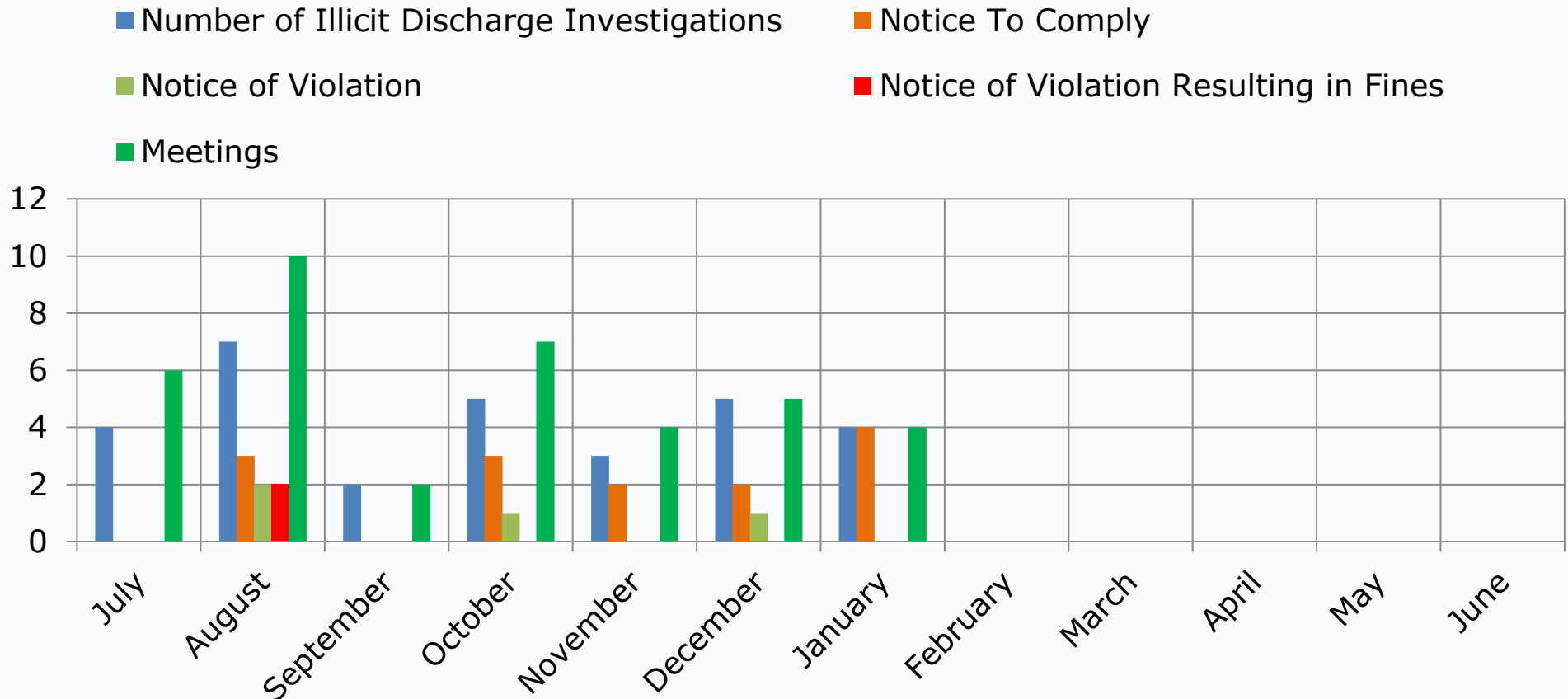
Microbial Source Tracking Trend Map  
Old Town May River



Updated: 12/18/2017



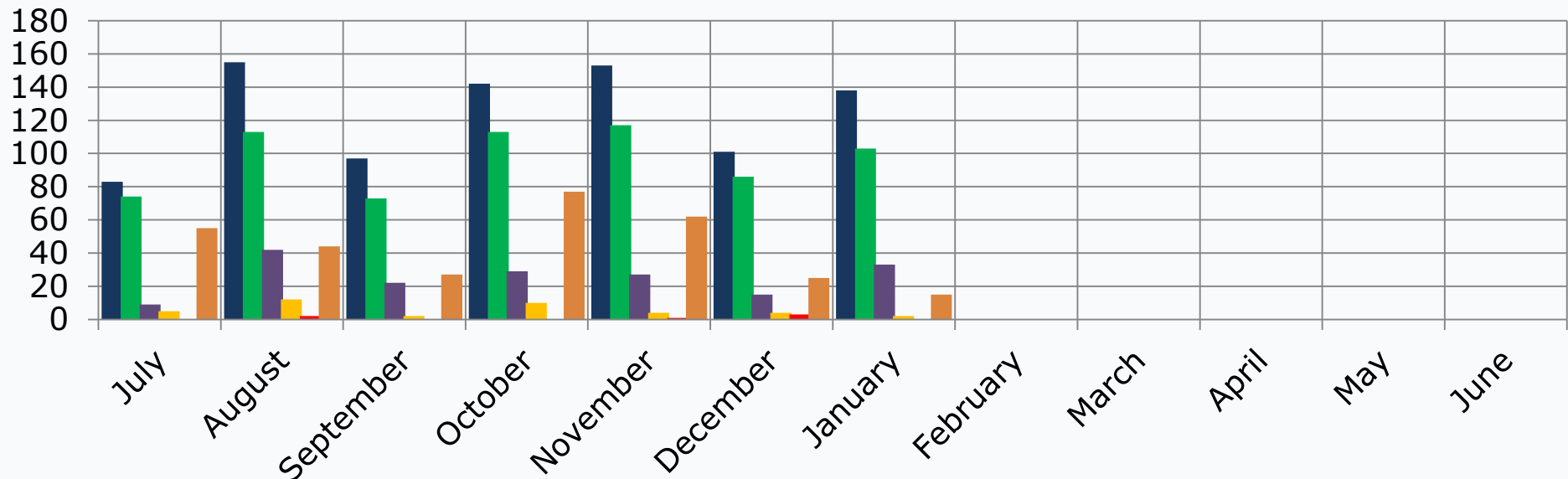
## MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



	Number of Illicit Discharge Investigations	Number of Notices To Comply Issued	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2018 YTD Totals	30	14	4	2	38
FY 2017 Totals	50	19	8	13	67

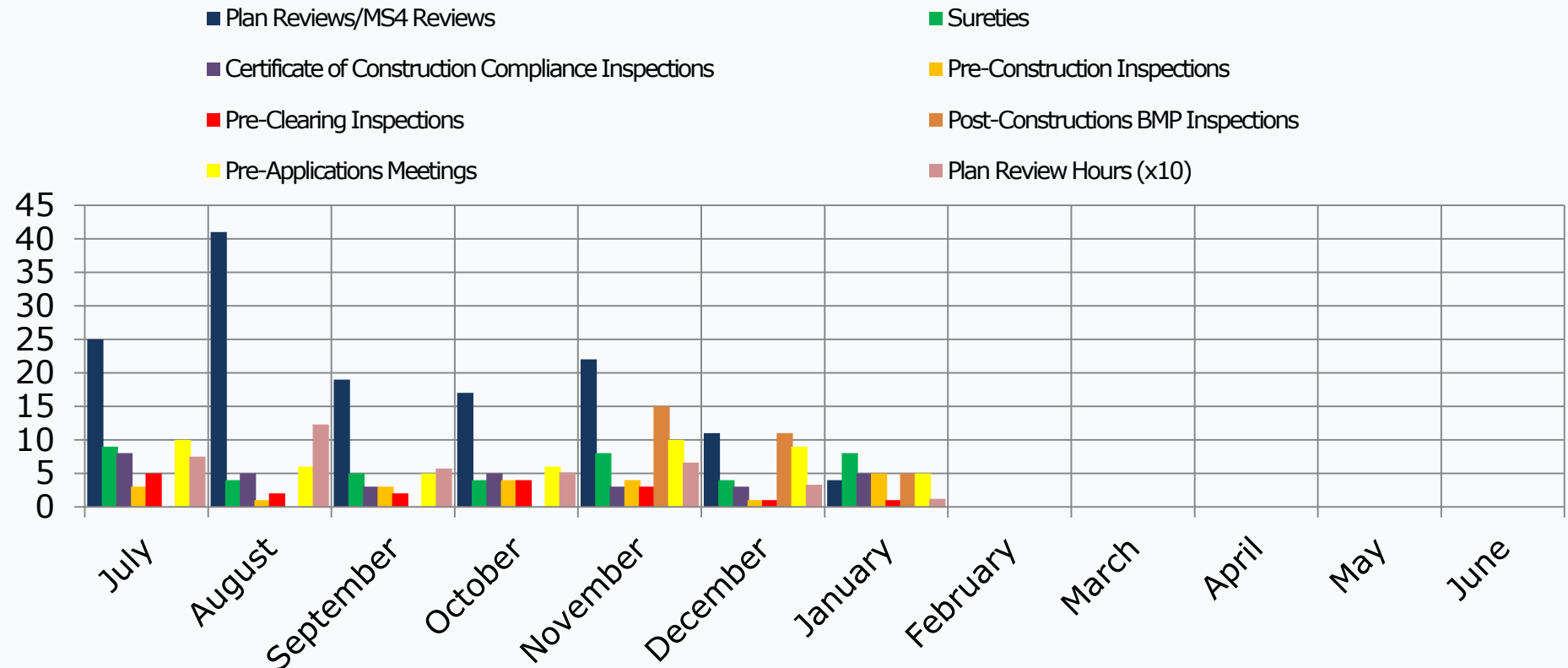
## MS4 Minimum Control Measure #6 - Construction Site Stormwater Runoff Control

- Erosion & Sediment Control Inspections (E&SC)
- Number of Inspections Passed
- Number of Notice To Comply (NTC)
- Number of Notice of Violation (NOV)
- Number of Fines for Notice of Violation
- Number of Erosion & Sediment Control Meetings



	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NTC Issued	Number of NOVs Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2018 YTD Totals	869	679	177	39	6	305
FY 2017 Totals	1,219	862	233	58	10	237

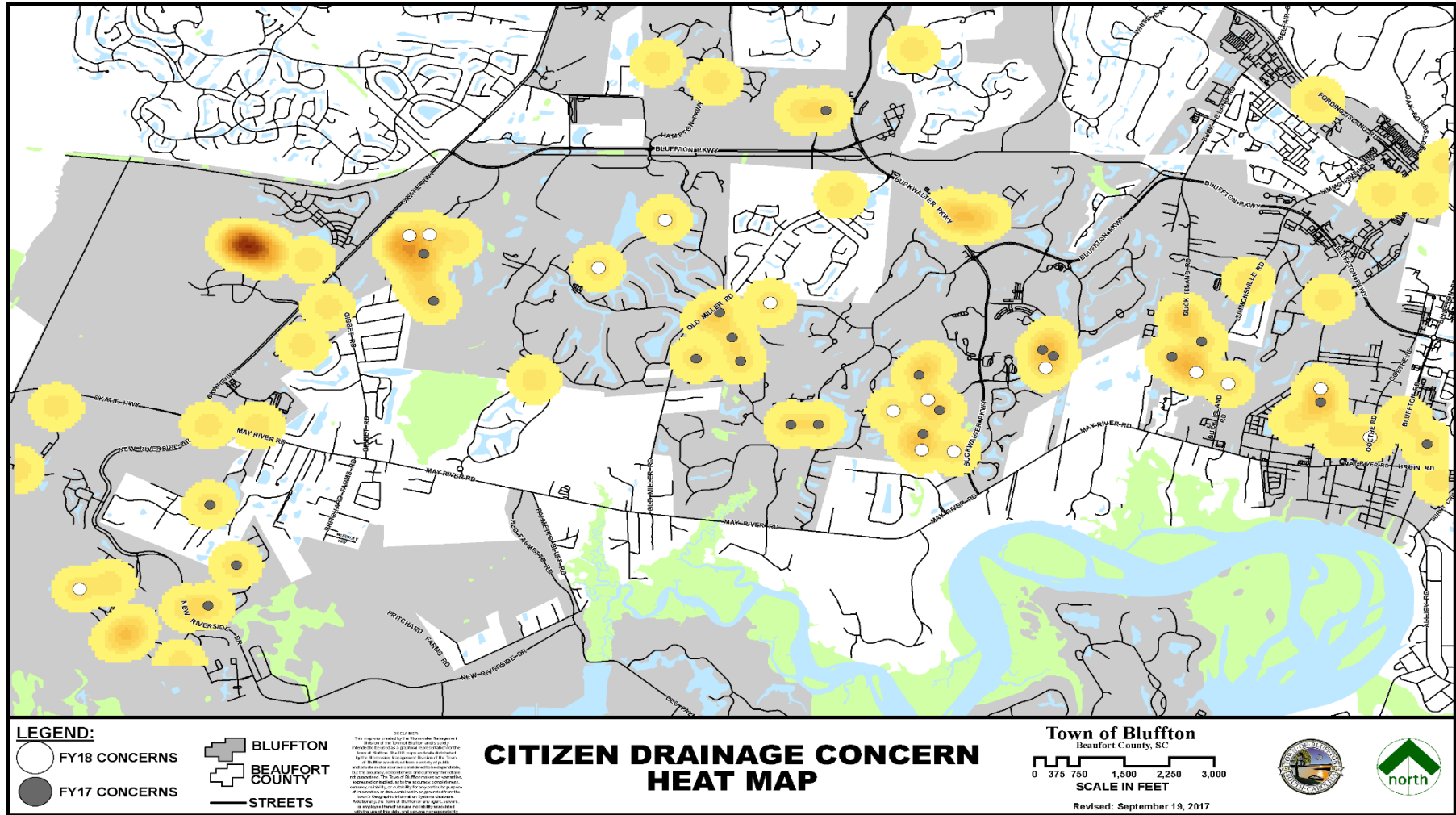
# MS4 Minimum Control Measure #7 Stormwater Plan Review & Related Activity



	Plan Reviews MS4 Reviews	Sureties	Certificate of Construction Compliance Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2018 YTD Totals	138	42	32	21	18	31	51	690 Hrs.
FY 2017 Totals	253	62	96	47	45	7	23	1,265 Hrs.

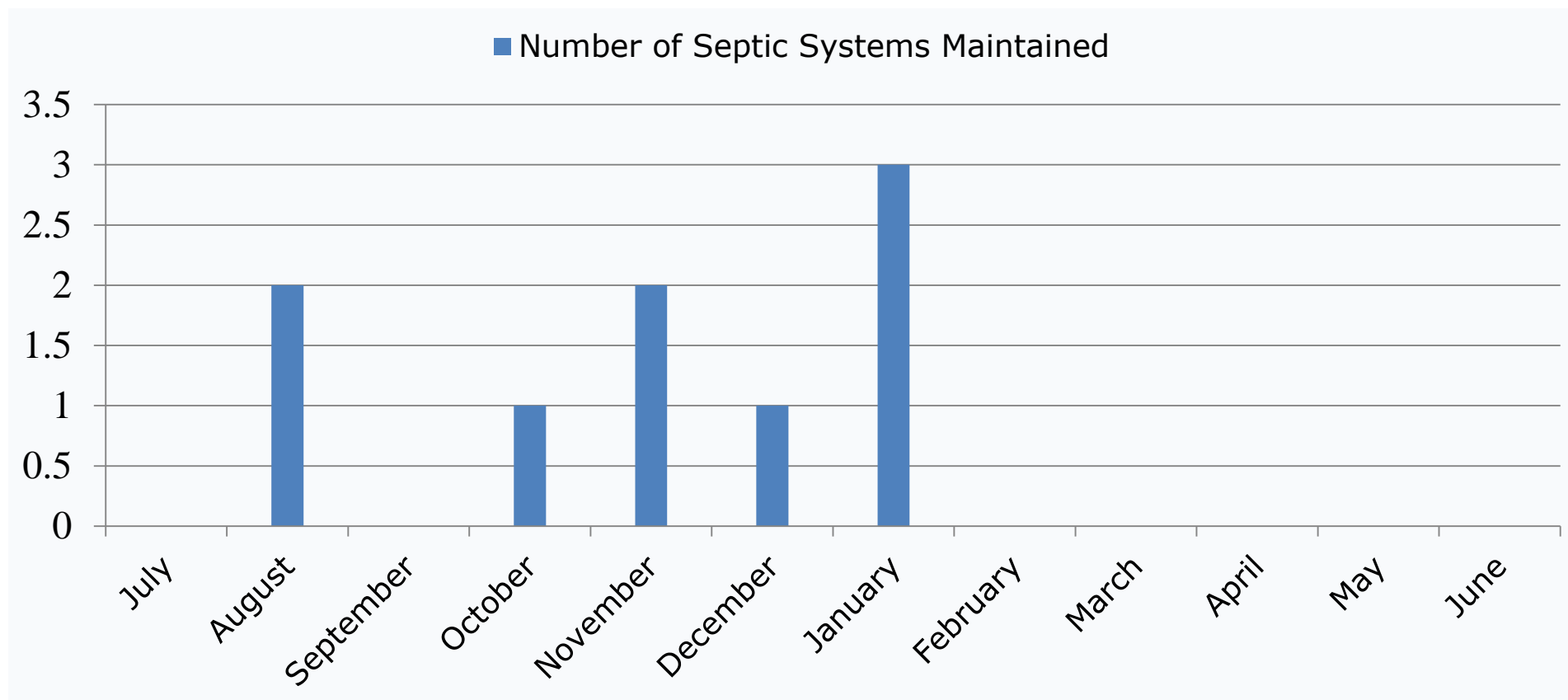


# Citizen Drainage Concern Heat Map (Drainage, Maintenance and Inspections)



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2018 YTD Totals	35	51
FY 2017 Totals	72	80

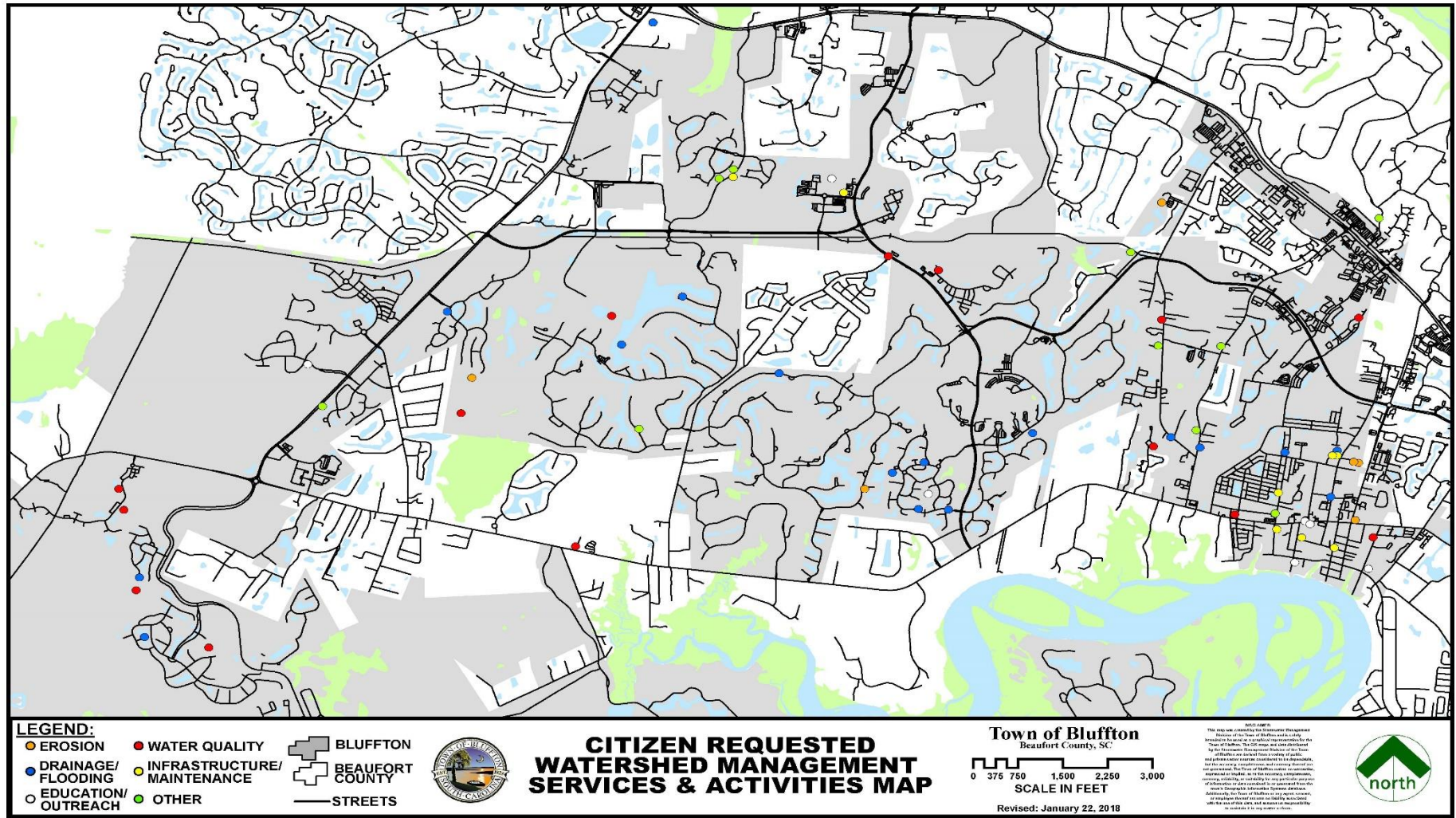
## Septic System Maintenance Assistance



	Number of Septic Systems Maintained
FY 2018 YTD Totals	9
FY 2017 Totals	18

Requests for septic system maintenance are down due to completed connections along Jason St., Buck Island Road and Simmonsville Road as part of the Phase #3/4 BIS Sewer projects.

# Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2018 YTD Totals	45	52
FY 2017 Totals	53	82

# Mossy Oaks Drainage

*January 26, 2018*



# AGENDA

- **Recap & Update**
- **Orientation of Area**
- **Cost Estimate**
  - **Jurisdiction breakdown**
- **Path Forward**
- **Questions**

# RECAP & UPDATE

- Aug – Sept 2017 – Area receives large volume of rain (7.5”) in addition to the effects from Hurricane Irma in addition & high tide.
- September 2017 – Two presentations given, one to local government entities and another as a citizen information session.
- October 16<sup>th</sup> – In coordination with engineering professionals (COB, IDC) the Mossy Oaks problem was broken into four (4) phases that include:
  - Phase I: Initial analysis (field survey, hydrology, long & short-term solutions)
  - Phase II: Develop construction bidding documents
  - Phase III: Construction
  - Phase IV: Construction supervision
- October 25<sup>th</sup> – 1st meeting of the Mossy Oaks Task Force. The cost for Phase I is \$236,000 that includes the analysis for both basins. Cost sharing discussed.
- November 16<sup>th</sup> - the City staff met to discuss challenges & opportunities regarding this and other drainage issues.
- December 15<sup>th</sup> – City received scope and cost estimate for other challenged areas.
- January 5<sup>th</sup> – Task force meeting postponed due to weather.

# **ORIENTATION OF AREA**

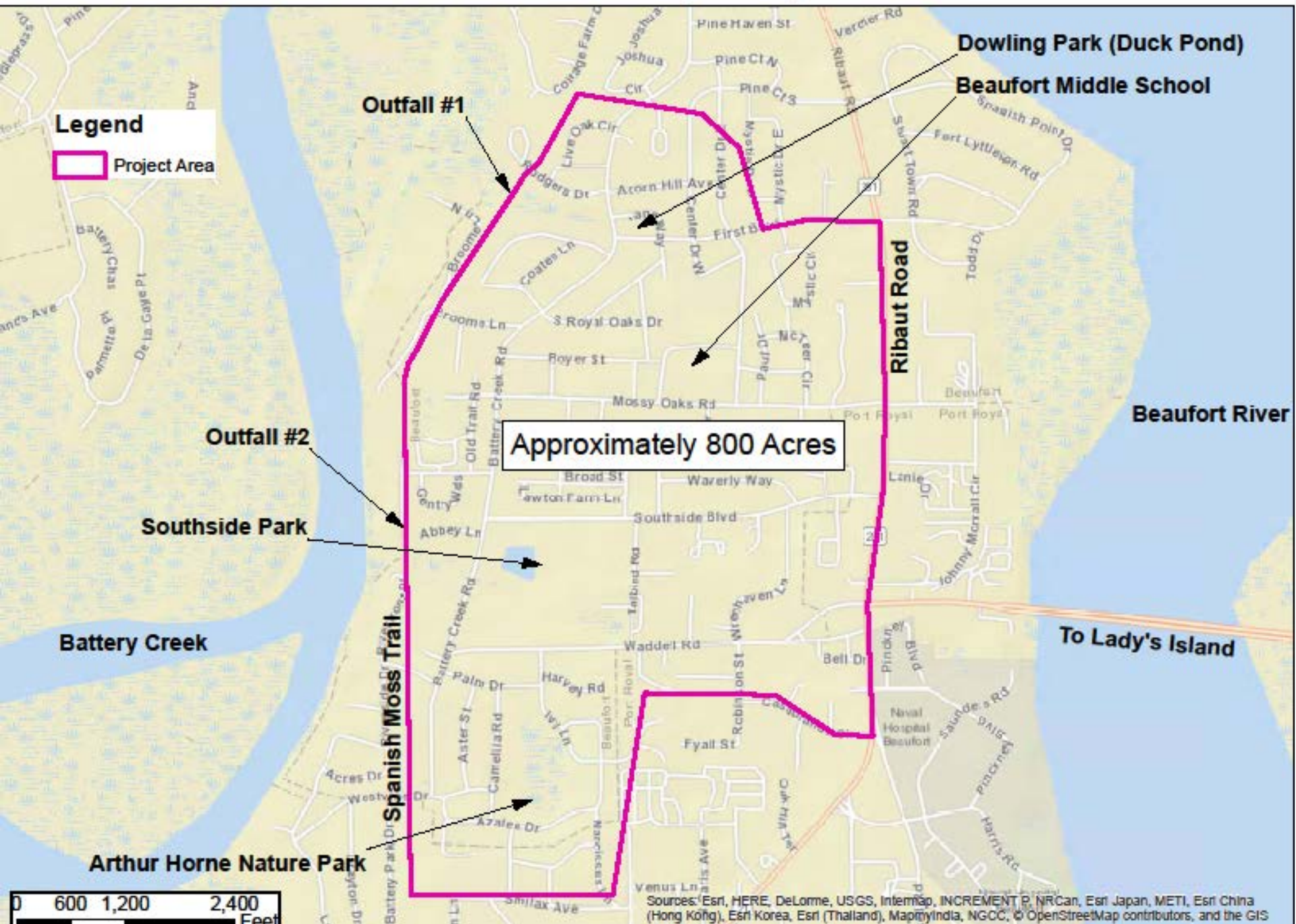
## **1. Key Landmarks**

- a. Ribaut Road**
- b. Dowling Park (Duck Pond) - COB**
- c. Spanish Moss Trail (SMT) – Bft. Co./COB**
- d. Beaufort Middle School**
- e. Battery Creek Road – SC DOT**
- f. Southside Park - COB**
- g. Southside Boulevard – SC DOT**
- h. Arthur Horne Park – Bft. Co.**

## **2. Typically flooded areas**

## **3. Jurisdictional boundaries**

# Overall Project Map





# Municipality Map

## Legend

- Town of Port Royal
- City of Beaufort
- Beaufort County
- Project Area

Outfall #1

Outfall #2

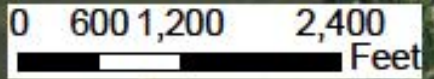
Ribault Road

Beaufort River

Battery Creek

Spanish Moss Trail

To Lady's Island



## **COST ESTIMATE PHASE I**

- 1. MO Basin 1 - \$123,575.52**
- 2. MO Basin 2 - \$112,385.52**
- 3. Engineering Scope for both basins include:**
  - a. Field Survey**
  - b. Hydrology Analysis**
  - c. Proposed Improvement Analysis**

## **COST ESTIMATE CONT'D**

### **Jurisdictional Breakdown based on 799.1 acres**

- Beaufort County (69.1 acres)
  - 8.65% - \$20,404.09
  
- Town of Port Royal (115 acres)
  - 14.39% - \$33,957.60
  
- City of Beaufort (527.1 acres)
  - 66.0% - \$155,643.93
  
- SC DOT (87.9 acres)
  - 11.0% - \$25,955.42

# **CITY OF BEAUFORT AVAILABLE FUNDS**

## **City Available Funds:**

- Stormwater Utility carry over funds: \$307K**
- Required for impending MS4 designation: \$80K**
- Net available \$227K**

## **Recommended Request from other stakeholders:**

- Beaufort County \$20K**
- SCDOT \$26K**
- Port Royal \$34K**

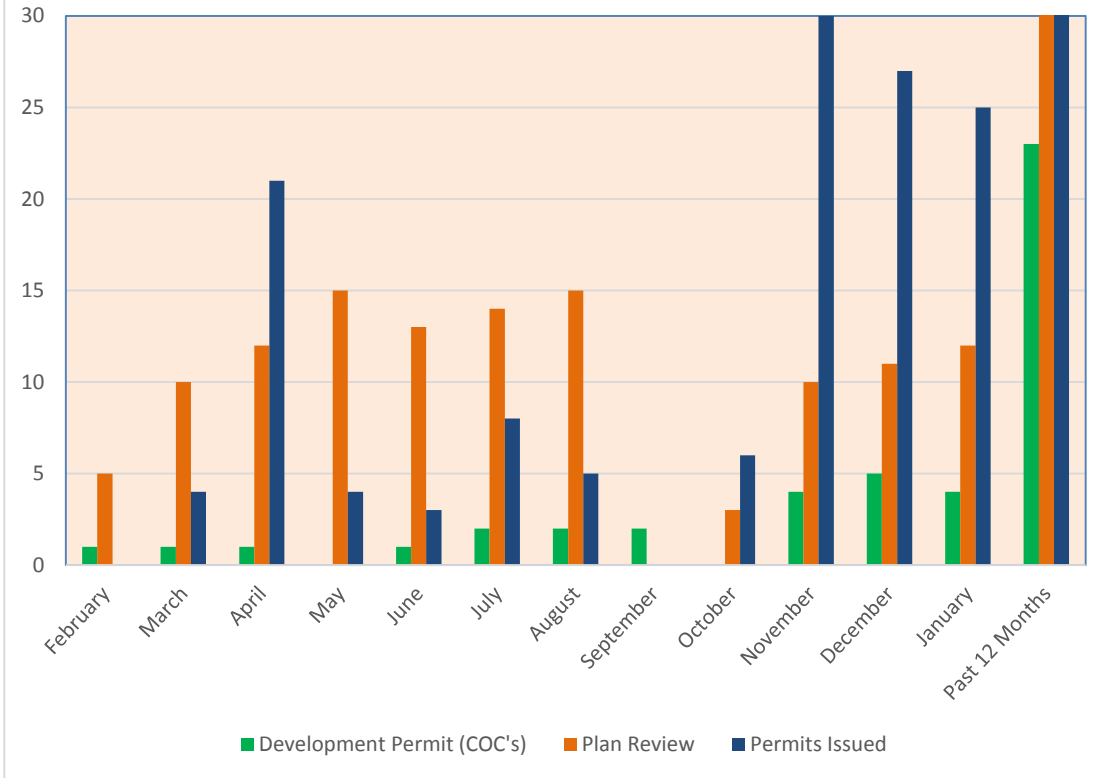
**City of Beaufort Cost based on acreage: \$156K**

# PATH FORWARD

- City Council Brief addressing funding requirements & decision timelines.
- Formal letters to various stakeholders, where applicable, regarding assistance & contributions. BCSD included with the County.
- Assistance from State regulatory agencies required for rapid permitting.
- Concurrently, SCDOT & COB PWD work to ensure all basic levels of maintenance is conducted to mitigate, to the greatest extent possible, flooding.
- Briefs to various respective stakeholders upon request.
- Pursue Community Development Block Grants (CDBG) funding opportunities (August 2018)
- Seek alternative types of funding for this issue & similar ones.

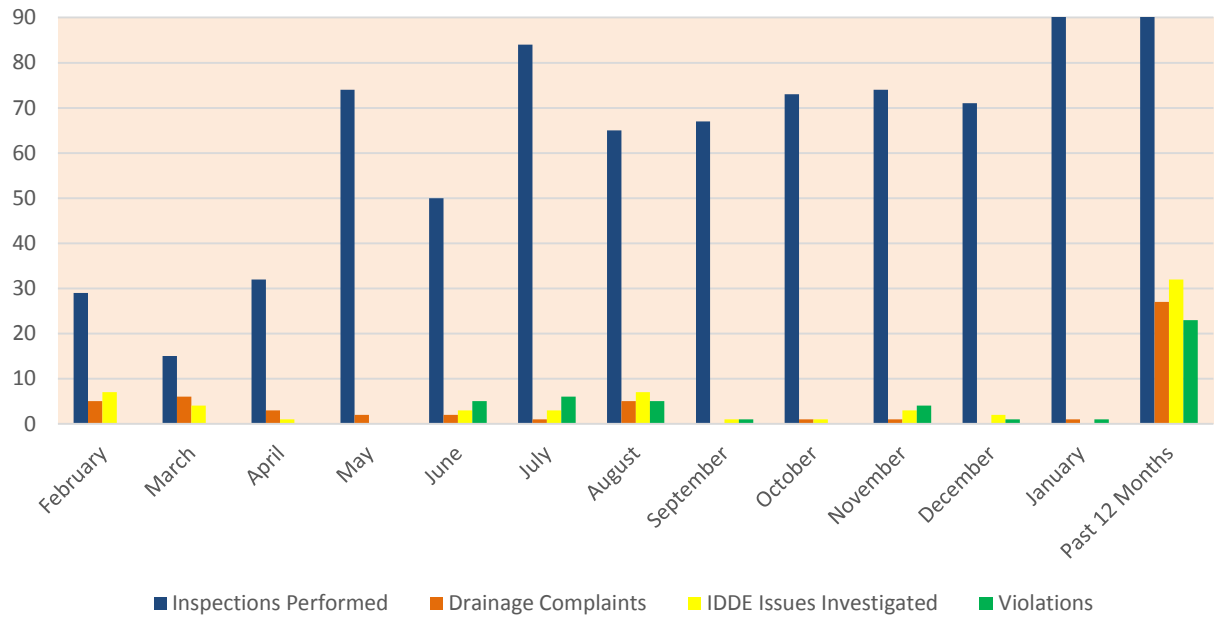
**Questions?**

### MS4 Minimum Control Measure #5 Stormwater Plan Review



TYPE	February	March	April	May	June	July	August	September	October	November	December	January	Past 12 Months
Development Permit (COC's)	1	1	1	0	1	2	2	2	0	4	5	4	23
Plan Review	5	10	12	15	13	14	15	0	3	10	11	12	120
Permits Issued	0	4	21	4	3	8	5	0	6	30	27	25	133

### MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	February	March	April	May	June	July	August	September	October	November	December	January	Past 12 Months
Inspections Performed	29	15	32	74	50	84	65	67	73	74	71	115	749
Drainage Complaints	5	6	3	2	2	1	5	0	1	1	0	1	27
IDDE Issues Investigated	7	4	1	0	3	3	7	1	1	3	2	0	32
Violations	0	0	0	0	5	6	5	1	0	4	1	1	23



**South Carolina NPDES Permit # SCR030000**  
**Small Municipal Separate Storm Sewer System (SMS4)**  
**Annual Report Template**

**III. Minimum Control Measures (MCM)**

**B. Minimum Control Measure 1: Public Education and Outreach on Storm Water Impacts (4.2.1, 5.3)**

Use the table below to summarize outreach strategies, goals, and progress for the current reporting year. In the “activities conducted and planned” section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Add rows where needed and attach additional sheets if necessary.

In the “Pollutant of Concern” column in the following tables, the following abbreviations are used:

<b>Abbreviation</b>	<b>Pollutant of Concern</b>
POC #1	Post-construction maintenance
POC #2	Freshwater (runoff volume)
POC #3	Litter
POC #4	Bacteria
POC #5	Nutrients
POC #6	Sediment
GSA	General Stormwater Awareness
CM	Consortium Management
FOG	Fats, Oils, and Grease
IDDE	Illicit Discharge Detection and Elimination

<b>Please see the attached “2016-2018 Strategic Regional Stormwater Outreach Plan” for a complete list of all activities planned for the upcoming year. Below are last year’s accomplishments as well as the activities that are furthest along in their planning stages</b>					
<b>Pollutant of Concern</b>	<b>Outreach Strategy</b> <i>(include target audiences)</i>	<b>Measurable Goal(s)</b>	<b>Progress on Goal(s)</b>	<b>Activities Conducted and Planned</b> <i>(specific implementation dates)</i>	<b>Number of People Reached</b>
CM	Carolina Clear Environmental Attitudes, Knowledge, and Perceptions Survey <i>(General public)</i>	The third iteration of this Carolina Clear survey will be conducted 2018 to shape outreach activities and measure changes over time.	In Planning	This survey is scheduled for 2018	N/A
CM, GSA	Lowcountry Stormwater Partners logo development <i>(General public)</i>	This logo is used for branding purposes and to highlight the consortium's activities within the Hilton Head Urbanized Area.	Completed	The Lowcountry Stormwater Partner's logo was finished in the Spring of 2017.	N/A
CM, GSA	Lowcountry Stormwater Partners partner recruitment		Ongoing	By engaging with local organizations and involving them in the consortium has helped to increase Lowcountry Stormwater Partners' reach and ability to provide stormwater education and involvement opportunities.	4

CM, GSA	Lowcountry Stormwater Partners 2016 Annual Report ( <i>General public</i> )	This report highlights the work done by the Lowcountry Stormwater Partners consortium in 2016.	Completed	The plan was written, submitted to DHEC, and made accessible to the public.	N/A
GSA	Staff training on good housekeeping ( <i>Technical staff, engineers, developers, field staff, maintenance/facilities staff, supervisory staff, administrators, stormwater managers</i> )	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	The Town of Hilton Head Island identified all their staff to be trained. Training occurred on 2/27/17 (27 participants), 7/20/17 (8 participants), and 11/15/17 (7 participants).	45
GSA	SESWA Clean Water Act training ( <i>Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities</i> )	This training covered stormwater information and how the Clean Water Act affects staff.	Completed	This training occurred on 9/1/17 and was hosted by Beaufort County.	4
GSA	Provided a presentation on Clemson Extension and stormwater ( <i>Residents, elected &amp; appointed officials, technical staff, supervisory staff</i> )	This was an overview as to what the Clemson Cooperative Extension Service is, how it was formed, and what local services it offers. It also discussed the Lowcountry Stormwater Partners and gave a brief overview of stormwater issues.	Completed	This presentation was given to the City of Beaufort Neighborhood Association meeting on 11/15/2017.	23
GSA	Stormwater fact sheet ( <i>Elected &amp; appointed official, general public</i> )	Develop a fact sheet with an overview of local stormwater issues that can be given to newly appointed officials and new residents.	In Planning	This fact sheet will be developed in tandem with Sumter Stormwater Solutions.	N/A
GSA	Provided a Lowcountry Stormwater Partners overview and update ( <i>Elected &amp; appointed officials</i> )	This presentation detailed the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach plan, the 2016 Lowcountry Stormwater Partners Annual Report, and current activities within the consortium.	Completed	This presentation was given on 3/15/2017 at the Stormwater Utility Board Meeting	21
GSA	Carolina Clear mass media campaign ( <i>General public</i> )	The Lowcountry Stormwater Partners contributed to Clemson Extension's Carolina Clear's 2017 "Healthy Ponds" mass media campaign. Marketing materials, online ads, and	Ongoing	As part of this campaign, the Lowcountry Stormwater Partners hung two billboards along I-95 in Beaufort County. *These data is based off of 2016 numbers*	152800

		other marketing materials were displayed in Beaufort County to bring awareness to stormwater pond maintenance.			
GSA	Lowcountry Stormwater Partners Partner Facebook ( <i>General public</i> )	These pages are managed by partner organizations but will assist the Lowcountry Stormwater Partners in spreading information about public participation opportunities and other relevant information. Their effectiveness will be tracked through “Likes”.	Ongoing		68192
GSA	Preapplication review and comment ( <i>Technical staff, engineers, developers</i> )	Started including sustainability suggestions on plan reviews submitted prior to permit application.	Ongoing	Town of Hilton Head Island documented 4 of these in 2017. Suggestions included LID methods to replace conventional stormwater practices on developing sites.	30
GSA	Educational session for the Town of Hilton Head Design Review and Board of Adjustment ( <i>Elected &amp; appointed officials and high-level staff</i> )	This presentation served to educate key audiences on the use of native plants to reduce stormwater pollution and therefore improve water quality.	Completed	Presentation on using native plants in the landscape, with emphasis on improved stormwater quality via using less pesticides, fertilizer and irrigation and decreasing stormwater volume by having native planted areas decrease speed of runoff and increase infiltration. Date unavailable.	12
GSA	Urban Trees vs. Urban Forests: Why Biodiversity Matters lecture ( <i>Higher education students</i> )	This presentation explains the link between soil biodiversity, above-ground biodiversity, and human health	Completed	This presentation was given at USCB: Beaufort on 2/10/17. Stormwater and water quality are discussed throughout.	20
GSA	Presentation to the Town of Hilton Head Island Design Review Board ( <i>Elected &amp; appointed officials and high-level staff</i> )	This presentation described the benefits and links between on native plants and biodiversity.	Completed	This presentation was given on 3/14/17 and discusses how board decisions can positively/negatively affect native plants and biodiversity.	10
GSA	Annual e-mail blast ( <i>Real estate agents</i> )		Completed	The Town of Hilton Head Island sent this e-mail on sea turtle, manatee and alligator values, functions and conservation to all real estate and rental agencies doing business on Hilton Head Island to educate island visitors.	100
GSA	Wood and Partners presentation ( <i>Landscape architects and planners</i> )	The Town of Hilton Head Island gave a presentation to largest Landscape/Land Planning firm on island on importance of maintaining plant biodiversity and how using native plants benefits water quality, wildlife, tourism and human quality of life.	Completed	This presentation was given on 8/3/17.	20

GSA	Community Development Department Arbor Day Tree Planting ( <i>General public</i> )	The goal of this event was to engage citizen in a community involvement activity and to mitigate water quality and other environmental concerns by planting trees. Its effectiveness was determined by the number of volunteers and trees planted.	Completed	On 12/1/17, the volunteers and Town of Hilton Head Island staff planted 75 seedling live oaks in hurricane damaged areas of 2 public parks to help replace some of the trees lost to hurricanes	100
GSA, CM	Lowcountry Stormwater Partners consortium meetings ( <i>Consortium members, general public</i> )	These meetings are for partners to update each other and to address consortium business such as workshops, current events, etc.	Ongoing	One meeting was held on 7/18/2017. 15 individuals attended.	15
GSA, CM	Lowcountry Stormwater Partners consortium meetings ( <i>Consortium members, general public</i> )	These meetings are for partners to update each other and to address consortium business such as workshops, current events, etc.	Ongoing	One meeting was held on 11/28/2017. 13 individuals attended.	13
POC #1, GSA	Toured ponds and offered pond management advise to the Rose Hill Plantation board ( <i>Residents</i> )	The Rose Hill Plantation Board invited Clemson Extension into their community to discuss management strategies for creating healthier, more sustainable stormwater ponds.	Completed	The Clemson Extension Water Resources agent was invited to the Rose Hill Plantation because of their participation in the 2017 Beaufort Area Stormwater Pond Conference. She visited on 11/1/2017, saw 8 ponds and recommended BMPs to improve their function. She will partner with them in the future as part of their upcoming pond education campaign.	3
POC #1, GSA	Post Construction Best Management Practice Inspector ( <i>Technical staff, stormwater managers, field staff</i> )	Post Construction BMP Inspector program provides online and field-based training focused on inspection and maintenance of best management practices used for stormwater management. Students have the chance to discuss and view bioswales, dry detention basins, wet detention basins, green roofs, pervious pavement, rainwater harvesting and more. Its success will be measured in number of participants.	Ongoing	The class was offered twice in 2017, with field days hosted at the Trident Technical College Campus, in North Charleston (10/25/17) and at Furman University in Greenville (6/1/17). A total of 46 individuals participated in BMP in 2017.	46
POC #1, POC #6, GSA	Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) ( <i>Technical staff, stormwater managers, field staff, construction workers</i> )	The purpose of the CEPSCI Program is to educate field personnel on the proper installation, maintenance and inspection of erosion prevention and sediment control measures at construction sites to meet state and local	Ongoing		1208

		regulations. Its success will be measured in number of participants.			
POC #1, GSA	Certified Stormwater Plan Reviewer (CSPR) ( <i>Technical staff, planners, engineers, stormwater managers, developers</i> )	The purpose of the CSPR Program is to educate personnel on the proper design and review of stormwater and sediment control plans for development sites to meet state and local regulations. Its success will be measured in number of participants	Ongoing		55
POC #1, POC #2	Meeting to discuss community concerns with The Farm at Buckwalter HOA ( <i>Residents</i> )		Completed	The Town of Bluffton met with The Farm at Buckwalter HOA to discuss their concerns with stormwater and flooding on 10/24/17.	38
POC #1, POC #2, GSA	Stormwater Ponds Collaborative outreach materials ( <i>Residents, stormwater pond managers</i> )	These present stormwater science in a language that reaches general audiences.	Completed	As part of the Stormwater Ponds Collaborative Sea Grant has created outreach materials that will be available on the Collaborative webpage hosted on the SC Sea Grant site. This webpage will be online by the new year, pending a new hire IT at the Consortium.	N/A
POC #1, POC #6, GSA	International Erosion Control Association's "Long Term Maintenance Operation Success" training ( <i>Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities</i> )	This IECA training covered BMP maintenance and erosion control measure to staff.	Completed	This training took place on 4/27/17 and was hosted by Beaufort County.	7
POC #1, POC #2, POC #3, POC #4, POC #5, GSA	Educational stormwater display at the Port Royal Farmer's Market ( <i>General public</i> )	This display will be source of stormwater and better management practice information and consist of brochures, post cards, fact sheets, etc. This strategy's effectiveness will be determined by the amount of people reached.	Ongoing	Clemson Extension Agents and Master Gardener volunteers were present with stormwater outreach materials at 3 farmer's markets.	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, GSA	Presentation to Heritage Academy ( <i>Youth</i> )	This presentation gave an overview of golf course sustainable practices and Town's approach to sea level rise.	Completed	The Town of Hilton Head Island gave a presentation to Heritage Academy high school seniors on 5/8/2017.	100
POC #1, POC #2, POC #3, POC #4,	2nd Annual Charles Fraser Sustainable Resort Development Conference	The goal of this conference was to arm attendees with the information, tools, and	Completed	This conference was held on 9/6/2017 and 100 individuals attended.	100

POC #5, GSA	<i>(Homeowners, commercial businesses, PUDs)</i>	motivation needed to implement sustainable practices at their own resorts and organizations.			
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6	Hurricane Preparedness for HOA's <i>(Residents)</i>	The goal of this presentation was to help reduce flooding caused by hurricanes and a lack of maintenance on stormwater BMPs in neighborhoods.	Completed	This presentation, given of 5/25/17, focused on the importance on BMP maintenance to reduce flooding. It was given by The Town of Bluffton and the Bluffton Police.	10
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6	Hurricane Preparedness for HOA's <i>(Residents)</i>	The goal of this presentation was to help reduce flooding caused by hurricanes and a lack of maintenance on stormwater BMPs in neighborhoods.	Completed	This presentation, given of 5/31/17, focused on the importance on BMP maintenance to reduce flooding. It was given by The Town of Bluffton and the Bluffton Police.	14
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6	Article in the Island Packet <i>(General public)</i>	This article was about reducing flooding caused by hurricanes and a lack of maintenance on stormwater BMPs in neighborhoods.	Completed	This article was published on 5/26/17 and is available at <a href="http://www.islandpacket.com/news/weather/hurricane/article152807924.html">http://www.islandpacket.com/news/weather/hurricane/article152807924.html</a>	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Distribution of BMP signage <i>(General public)</i>	Signage will identify and describe stormwater BMP function and importance. It may be accompanied by articles and HOA news materials. At least one new BMP will be given a sign each year.	In Planning; Ongoing	Two BMP demonstration sites have been selected, the signs just need to be printed and erected.	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Stormwater educational displays in public buildings <i>(General public)</i>	These displays are a source of stormwater and better management practice information and consist of brochures, post cards, fact sheets, kiosks, etc.	Ongoing	There are currently six displays: one at Beaufort County Clemson Extension, one at Beaufort County Public Works, one at the Town of Hilton Head Island, one at the Town of Port Royal town hall, one at the Beaufort County Administration building, and one in the Town of Bluffton Watershed Management Division.	900
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear website <i>(General public)</i>	The website's goal is to provide a clearing house of stormwater information and public participation opportunities. Its use will be tracked through site visits.	Ongoing		18150
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear Facebook <i>(General public)</i>	The goal of this page is to provide a forum for public participation, to increase awareness of storm water's effects on water quality, and increase awareness of public participation opportunities. Its effectiveness will be tracked through views.	Ongoing		25372

POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear YouTube ( <i>General public</i> )	The channel's goal is to provide a clearing house of stormwater information. Its use will be tracked through site views.	Ongoing	This channel hosts 76+ videos that include television commercials, local channel community segments, how-to videos, street interviews, and more.	6612
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	SC Waterways factsheets ( <i>General public</i> )	These publications' goal is to teach citizens how to have a positive impact on local water quality through their own gardening and daily practice. Their use will be tracked through views.	Ongoing	There are 36 factsheets available.	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Hurricane Preparedness for HOA's ( <i>Residents</i> )	The goal of this presentation was to help reduce flooding caused by hurricanes and a lack of maintenance on stormwater BMPs in neighborhoods.	Completed	This presentation, given of 5/24/17, focused on the importance on BMP maintenance to reduce flooding. It was given by The Town of Bluffton and the Bluffton Police.	5
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	Changing Tides Newsletter ( <i>General public</i> )	This newsletter is meant to inform the public about recent, current, and upcoming public education and participation opportunities. Their effectiveness will be tracked through views.	Ongoing	The Changing Tides newsletter was published in January, February, April, May, June, and September. The next is scheduled for the beginning of February.	106
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	Lowcountry Stormwater Partners website ( <i>General public</i> )	The website's goal is to provide a clearing house of stormwater information and public participation opportunities. Its use will be tracked through site visits	Ongoing	Website was developed and launched on 1/6/2017. It is periodically updated with relevant information.	530
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	Lowcountry Stormwater Partners Facebook ( <i>General public</i> )	The goal of this page is to provide a forum for public participation, to increase awareness of storm water's effects on water quality, and increase awareness of public participation opportunities. Its effectiveness will be tracked through "Likes".	Ongoing		198
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	2016-2018 Strategic Regional Stormwater Outreach Plan ( <i>General public</i> )	This plan is a living document which details the framework and requirements of Lowcountry Stormwater Partners public education and involvement activities. It was evaluated by local MS4 partners.	Completed	The plan was written, submitted to DHEC, and made accessible to the public.	N/A
POC #1, POC #2,	Presented the Success with Stormwater	This presentation is an in-depth discussion about the	Completed	This presentation was given to Lowcountry Master Naturalists at	10

POC #4, POC #5, GSA	advanced master naturalist training (Residents)	importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.		Crystal Lake on 12/5/2017.	
POC #1, POC #2, POC #4, POC #5, GSA	Presented the Success with Stormwater advanced master naturalist training (Residents)	This presentation is an in-depth discussion about the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	In Planning	This presentation is scheduled to be given to a new group of Lowcountry Master Naturalists on 4/25/18.	
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	Providing HOA stormwater pond binders (Residents, pond managers)	These binders serve to help pond owners (particularly residents and HOA boards) maintain their stormwater ponds by providing information and materials pertaining to stormwater pond design, function, inspection, and maintenance.	Ongoing	These binders are available in hard copy at the Clemson Extension Office and online at the Clemson Stormwater Pond website.	N/A
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	Neighbors for Clean Water program (Residents)	This program will help residents reduce their stormwater footprint through residential BMP trainings.	In Planning	This program is in the beginning development stages. It will be workshopped at the ACE Basin's NERR's Planning Effective Workshops training in January 2018. From there a program will be created and followed.	N/A
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	SCASM Stormwater Best Management Practices and Water Quality (Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities)	This training by SCASM for staff focused upon BMP design, function, and maintenance and general stormwater information.	Completed	This training occurred on 3/2/17 and was hosted by Beaufort County.	4
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	SESWA Emerging Trends in Stormwater BMP's (Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance,	This training by SESWA focused upon new and innovative approaches to BMP design, installation, maintenance, etc.	Completed	This training occurred on 3/31/17 and was hosted by Beaufort County	4



	<i>facilities)</i>				
POC #1, POC #3, POC #4, GSA	Lowcountry Stormwater Partners branded giveaways ( <i>General Public</i> )	Lowcountry Stormwater Partners branded materials will be used to attract the public to Lowcountry Stormwater Partners activities and their effectiveness will be tracked through the amount of merchandise taken.	In Planning; Ongoing	The Lowcountry Stormwater Partners is working with Carolina Promotions to re-order branded rain gauges, pet waste bags, and other materials. 400 LSP water bottles were ordered and handed out at the 17 <sup>th</sup> Annual May River Cleanup.	400
POC #1, POC #3, POC #4, POC #5, POC #6, GSA	Buffer planting designs ( <i>Pond managers, residents, PUD, elected &amp; appointed officials, technical staff, supervisory staff, facilities, maintenance, field staff, developers</i> )	Pre-designed stormwater pond and saltmarsh buffers will make the implementation of the BMP easier for area residents. Their effectiveness will be tracked by the amount used.	In Planning; Ongoing	The Lowcountry Stormwater Partners use the SCDNR "Backyards Buffer" pamphlet, the Clemson Extension "Shorescape" factsheet, and the Clemson Extension "Rain Garden Manual" planting lists to assist owners create buffer designs. Neighborhood groups like Coosaw Point used these materials after the 2017 Beaufort Area Stormwater Pond Conference.	100
POC #1, POC #4, POC #5	Distribution of geese signage for pond areas and parks ( <i>General public</i> )		In Planning; Ongoing	Scouting potential locations.	N/A
POC #1, POC #4, POC #5, POC #6, GSA	2017 Beaufort Area Stormwater Pond Conference ( <i>Pond managers, residents, PUD, elected &amp; appointed officials, technical staff, supervisory staff, facilities, maintenance, field staff, developers</i> )	The conference was designed to help stormwater pond owners/HOA representatives, property management professionals, and pond management professionals learn more about current pond management techniques. The conference was split into two tracks, one for pond owners and one for the more technical pond managers, to better serve these audiences. Its effectiveness was determined through evaluations.	Completed	The 2017 Beaufort Area Stormwater Pond Management Conference took place on 10/19 at USCB's Bluffton campus from 8:30am – 4:00pm. The conference was jointly organized by Clemson Extension and the Lowcountry Stormwater Partners, the South Carolina Sea Grant Consortium, the South Carolina Department of Natural Resources, and the Ace Basin National Estuarine Research Reserve to serve a need within the Lowcountry community. 88% of respondents agreed that the conference was a good use of their time and 100% of respondents reported knowledge gain. Finally, 87% of respondents reported that they learned something at the conference that they would apply in the future.	98

POC #1, POC #4, POC #5, POC #6, GSA	Spring 2017 Master Pond Manager course ( <i>Pond managers, technical staff, supervisory staff, facilities, maintenance</i> )	Participants in the 2017 Spring Master Pond Manager course actively engage in self-paced lectures, discussion, and quizzes in the online classroom. They covered topics such as pond design, inspection, and maintenance as well as limnology, integrated aquatic plant management, fish management, and best management practice (BMP) function, design, and installation. Course participants also can meet with their instructors face-to-face and to apply what they learned in the classroom to real-world situations during two field days.	Completed	32 participants enrolled in this course offering and installed a 300 sqft shoreline planting.	32
POC #1, POC #4, POC #5, POC #6, GSA	Clemson Stormwater Ponds website ( <i>Pond managers, pond owners</i> )	The website's goal is to provide a clearing house of stormwater pond information. Its use will be tracked through site visits.	Ongoing		13321
POC #1, POC #4, POC #5, POC #6, GSA	Master Pond Manager course ( <i>Pond managers</i> )	Attendance and certifications	Ongoing	49 participants, 48 certifications. 32 participants already recorded in the Spring course.	17
POC #1, POC #5, GSA	Rain Garden Clean-Up event ( <i>Residents</i> )	To maintain a Beaufort County Rain Garden and engage citizens in BMP maintenance.	Completed	Master Gardener volunteers spent three hours weeding, mulching, and pruning the Beaufort County Rain Garden on 6/27/17.	5
POC #2	Water conservation program ( <i>Youth</i> )	This presentation's goal is to educate and involve children with how water conservation affects water quality and their lives.	Completed	This demonstration was given to Town of Bluffton school children by the Beaufort County Soil and Water Conservation District on 7/20/17 to explain why and how to conserve water through everyday activities.	46
POC #2, GSA	Meeting to discuss the drainage concerns for The Farm neighborhood in the Town of Bluffton ( <i>Residents</i> )	Key messages included: 1. function of stormwater ponds 2. maintenance requirements of systems by POA 3. personal activities residents can take	Completed	This meeting was held on 10/24/17 and was attended by 50 people.	50
POC #2, GSA	Water "Cycle" presentation ( <i>Youth</i> )	This presentation's goal is to educate and involve children with how water quality affects their lives.	Completed	Beaufort County students learned about available potable water, how it travels around the globe, and why it is important to protect our water sources on 10/16/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	150

POC #2, GSA	Tour of Port Royal Cypress Wetland (Youth)		Completed	On 11/3/17, Town of Port Royal school children were told how these storm water ponds can capture storm water, settling solids and impurities and then slowly release to outfall. This presentation was given by the Beaufort County Soil and Water Conservation District.	13
POC #2, GSA	Presentation to the Outside Foundation's Kids in Kayaks Program (Youth)	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	On 5/3/2017, the Town of Hilton Head gave a presentation to 6th and 7th graders on the function and values of the salt marsh.	100
POC #2, GSA	Presentation to the Outside Foundation's Kids in Kayaks Program (Youth)	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	On 10/05/17, the Town of Bluffton presented a hands-on water quality monitoring workshop for the Outside Foundation's Kids in Kayaks program and River Ridge 7th graders.	50
POC #2, GSA	Beaufort County Senior Leadership environment days (Residents)	The Leadership Program provides information about civic, social, and educational activities. Beaufort County Senior Leadership expands awareness about daily life in the Lowcountry and helps participants navigate their way toward identifying volunteer and community involvement.	In Planning	The Lowcountry Stormwater Partners were a part of the planning committee for the two classes that center around environmental issues and involvement. The consortium will give presentations on both days, which are 3/28/18 and 4/4/2018, and will assist with informing, training, and recruiting volunteers for the consortium.	
POC #2, GSA	Presentation to the Outside Foundation's Kids in Kayaks Program (Youth)	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	On 10/12/17, the Town of Bluffton presented a hands-on water quality monitoring workshop for the Outside Foundation's Kids in Kayaks program and River Ridge 7th graders.	20
POC #2, POC #3, GSA	17th Annual May River Cleanup and Earth Day Festival (Residents, youth, higher education students, teachers, commercial businesses, boat owners, operators, marinas, pet owners)	The goal of the Annual May River cleanup is to engage and involve citizens in removing litter from their environment and marking storm drain to prevent further litter and stormwater pollution. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Completed	The 17 <sup>th</sup> Annual May River Cleanup took place on 4/22/17. On that day, 350 volunteers picked up litter along 3 miles of the May River shoreline from 9:00am – 11:30am, for a total of 1,200 volunteer hours. The volunteers collected 2,080 lbs. of solid waste (440lbs of which was recycled) and marked more 50 storm drains in Old Town Bluffton.	325

POC #2, POC #3, GSA	May River Cleanup Participation Challenge Reward presentation ( <i>Youth</i> )		Completed	The Town of Bluffton and Coastal Kingdom gave MC Riley Elementary School a special presentation on 5/17/2017 as a prize for winning the May River Cleanup Participation Challenge Reward.	150
POC #2, POC #3, GSA	Article in Bluffton Today ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 3/25/17 and can be found at <a href="http://www.blufftontoday.com/opinion/2017-03-25/join-may-river-cleanup">http://www.blufftontoday.com/opinion/2017-03-25/join-may-river-cleanup</a>	N/A
POC #2, POC #3, GSA	Article on Experience Green's website ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 3/25/17 and is available at <a href="http://www.experiencegreen.org/earth-day.html">http://www.experiencegreen.org/earth-day.html</a>	N/A
POC #2, POC #3, GSA	"Keeping Bluffton Clean" article in the Bluffton Breeze ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/2/17 and is available at <a href="https://issuu.com/blufftonbreeze/docs/01-48bbapr17lr">https://issuu.com/blufftonbreeze/docs/01-48bbapr17lr</a> .	N/A
POC #2, POC #3, GSA	Article in Nextdoor ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/10/17 and is available at <a href="https://nextdoor.com/events/sc/bluffton/17th-annual-may-river-cleanup-7th-annual-earth-day-celebration-1140588">https://nextdoor.com/events/sc/bluffton/17th-annual-may-river-cleanup-7th-annual-earth-day-celebration-1140588</a>	N/A
POC #2, POC #3, GSA	Article in the Island Packet ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	The article was published on 4/17/17 and is available at <a href="http://www.islandpacket.com/entertainment/local-events/article145036359.html">http://www.islandpacket.com/entertainment/local-events/article145036359.html</a>	N/A
POC #2, POC #3, GSA	Article on WJCL website ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/17/17 and is available at <a href="http://www.wjcl.com/article/bluffton-residents-asked-to-help-in-annual-may-river-cleanup/9518628">http://www.wjcl.com/article/bluffton-residents-asked-to-help-in-annual-may-river-cleanup/9518628</a>	N/A
POC #2, POC #3, GSA	Article on American Rivers website ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/22/17 and is available at <a href="https://www.americanrivers.org/river-cleanup/may-river-cleanup/">https://www.americanrivers.org/river-cleanup/may-river-cleanup/</a>	N/A
POC #2, POC #3, GSA	Event on the Town of Bluffton Facebook page ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This event was published on 4/22/17 and is available at <a href="https://www.facebook.com/events/289150451520368/">https://www.facebook.com/events/289150451520368/</a>	N/A
POC #2, POC #3, GSA	Video on the Island Packets' YouTube site ( <i>General Public</i> )	This video covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This video was published on 4/22/17 and is available at <a href="https://www.youtube.com/watch?v=R12bZNtnN8">https://www.youtube.com/watch?v=R12bZNtnN8</a>	48
POC #2, POC #3, GSA	Article in Bluffton Today ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was published on 4/26/17 and is available at <a href="http://www.blufftontoday.com/news/2017-04-26/trash-no-match-may-river-cleanup-volunteers">http://www.blufftontoday.com/news/2017-04-26/trash-no-match-may-river-cleanup-volunteers</a>	N/A
POC #2, POC #3, GSA	Event posting on BlufftonEvents.com ( <i>General Public</i> )	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This posted was live throughout 4/17 and is available at <a href="http://www.bluffton.com/events/event/may-river-cleanup/">http://www.bluffton.com/events/event/may-river-cleanup/</a>	N/A

POC #2, POC #3, GSA	Article on Celebrate Hilton Head's Celebrate Bluffton and Beyond	This article covered the 17 <sup>th</sup> Annual May River Cleanup and why litter is bad for water quality.	Completed	This article was posted on 4.26.17 and is available at <a href="http://www.celebratehiltonhead.com/web_exclusives/5422/17th-annual-may-river-cleanup-saturday-april-22nd">http://www.celebratehiltonhead.com/web_exclusives/5422/17th-annual-may-river-cleanup-saturday-april-22nd</a>	N/A
POC #2, POC #3, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation and enviroscape demonstration ( <i>Youth</i> )	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	Completed	This presentation and demonstration was given to the Hilton Head Christian Academy senior high marine science and environmental science classes on 11/9/2017.	39
POC #2, POC #3, POC #4, POC #5, GSA	Provided enviroscape demonstrations for the St. Helena Elementary Career Day ( <i>Youth</i> )	The Enviroscope is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	This presentation was given on 3/24/2017 at St. Helena Elementary School to their fifth graders.	41
POC #2, POC #3, POC #4, POC #5, GSA	Provided enviroscape demonstrations for the Tanger Outlet's Touch-A-Truck ( <i>Residents, youth</i> )	The Enviroscope is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	These demonstrations were given on 4/1/2017.	120
POC #2, POC #3, POC #4, POC #5, GSA	Provided enviroscape demonstrations for the Outside Foundation's Kids in Kayaks program ( <i>Youth</i> )	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	These presentations were given on 4/24/2017 at the Shelter Cove Marina.	50
POC #2, POC #3, POC #4, POC #5, GSA	Provided enviroscape demonstrations for the Outside Foundation's Kids in Kayaks program ( <i>Youth</i> )	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	These presentations were given on 10/6/2017 at the Shelter Cove Marina.	29
POC #2, POC #3, POC #4, POC #5, GSA	Presentation for the MC Riley Elementary Career Day ( <i>Youth</i> )	This presentation focused on water quality, the effects of stormwater, and how children can prevent water pollution.	Completed	This presentation was given to all 3rd graders at MC Riley Elementary School on 3/24/17 by the Town of Bluffton.	100
POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Earth Day presentation ( <i>Youth</i> )	This presentation focused on water quality, the effects of stormwater, and how children can prevent water pollution.	Completed	This Earth Day presentation was given by the Town of Bluffton and the Savannah Metropolitan Planning Commission staff on 4/21/17. It focused on stormwater and how kids can help reduce water pollution. All kindergartener and some 1st graders from River Ridge Academy attended.	100

POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Illicit discharge, construction site management, dry weather, sediment removal, site restoration training ( <i>Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities</i> )	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	This training occurred on 1/31/17. It was provided by Beaufort County.	55
POC #2, POC #3, POC #4, POC #5, POC #6, GSA	IDDE training ( <i>Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities</i> )	To educate staff on general stormwater issues and IDDE, and to be compliant with MCM 6.	Completed	This training occurred on 1/19/17. It was provided by Beaufort County.	55
POC #2, POC #3, POC #4, POC #5, POC #6, GSA,	SESWA Good Housekeeping Measures training ( <i>Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers</i> )	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	This training occurred on 7/20/17 and was hosted by Beaufort County.	4
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Petroleum products	Good housekeeping training ( <i>Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers</i> )	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	On 11/14/17, the Town of Bluffton Project Management Division staff were trained on general stormwater awareness, good housekeeping practices, and IDDE. There was a focus on sediment and erosion control.	7
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Petroleum products, Pesticides, FOG, IDDE	Good housekeeping training ( <i>Field staff, maintenance, facilities</i> )	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	On 10/16/17, the Town of Bluffton Public Works staff was trained on general stormwater awareness, good housekeeping practices, and IDDE.	8
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins,	Enviroscape presentation ( <i>Youth</i> )	The EnviroScape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	It was used as part of a presentation to Beaufort County school children on 4/11/2017 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District.	21

Petroleum products, Pesticides					
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation ( <i>Youth</i> )	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	It was used as part of a presentation to City of Beaufort schools on 4/17/2017 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District.	104
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation for the Outside Foundation's Kids in Kayaks program ( <i>Youth</i> )	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution. It was used as part of a Kids in Kayak outing to Shelter Cove Marina for Hilton Head Christian Academy on 5/1/2017. This presentation was given by the Beaufort County Soil and Water Conservation District.	36
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation ( <i>Youth</i> )	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	It was used as part of a presentation to Town of Bluffton school children on 6/9/2017 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District.	59
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation for the Outside Foundation's Kids in Kayaks program ( <i>Youth</i> )	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution. It was used as part of a Kids in Kayak outing to Shelter Cove Marina for Town of Hilton Head school children on 10/4/2017. This presentation was given by the Beaufort County Soil and Water Conservation District.	130
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Toxins, Petroleum products, Pesticides	Enviroscape presentation ( <i>Youth</i> )	The Enviroscape is an interactive watershed model portraying mostly non-point source pollution and some point source pollution	Completed	It was used as part of a presentation to Beaufort County school children on 10/16/2017 to demonstrate how stormwater affects water quality. This presentation was given by the Beaufort County Soil and Water Conservation District.	127
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center ( <i>General public</i> )	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	The Center features exhibits, classrooms, hands-on learning spaces and other areas where everyone can learn and celebrate the uniqueness of the Port Royal Sound. The Center is open from 10:00AM - 5:00PM, Tuesday through Saturday. There is no charge for admission.	14956

POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's Story Time program ( <i>Youth</i> )	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	Special time and water-quality related activities for preschoolers and toddlers at 10 a.m. every Wednesday. No charge. No reservation needed.	409
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's field trip program ( <i>Youth</i> )	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	Through hands-on experiments and discovery, students not only see the amazing life of our local environment, but also experience it firsthand. Participants include in all grades from public, private and charter schools and homes-schooling programs, as well as after-school and summer programs.	2291
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's education events ( <i>General public</i> )	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	Special events that regularly take place at the Center with water-quality and related themes. Examples of these programs include: Tuesday Talks (A classroom series led by area experts on a variety of topics), Eco Boat Excursions (A scientific expedition of the Port Royal Sound area via a classroom on a boat), Dolphin Research Cruises (An Eco-Boat tour meets dolphin research!), and Nautilus LIVE (Researchers aboard E/V Nautilus visit our classroom via LIVE streaming video)	1544
POC #2, POC #3, POC #5, GSA	Port Royal Sound presentation ( <i>General Public</i> )	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Completed	The Lowcountry Institute gives this presentation multiple times a year to homeowners, interests groups, and other parties. It covers the natural history and anthropogenic threats to the Port Royal Sound.	100
POC #2, POC #3, POC #6, GSA	Water Quality Program ( <i>Youth</i> )	To educate children on the importance of water quality and the effects of stormwater.	Completed	On 12/6/17, the Town of Bluffton gave a water quality program for all Red Cedar Elementary 3rd graders.	100
POC #2, POC #4	Soil Tunnel presentation ( <i>Youth</i> )	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Beaufort County schools on 3/27/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	174
POC #2, POC #4	Soil Tunnel presentation ( <i>Youth</i> )	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Beaufort County schools on 4/3/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	83
POC #2, POC #4	Soil Tunnel presentation ( <i>Youth</i> )	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Beaufort County schools on 4/19/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	76
POC #2, POC #4	Soil Tunnel presentation ( <i>Youth</i> )	This presentation's goal is to educate and involve	Completed	Discussion on wells, septic tanks, and ground water recharge for the	143



		children with how water quality and soil affect their lives.		Beaufort County schools on 4/25/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	
POC #2, POC #4	Soil Tunnel presentation ( <i>Youth</i> )	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Beaufort County schools on 5/5/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	63
POC #2, POC #4	Soil Tunnel presentation ( <i>Youth</i> )	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Summerville schools on 5/8/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	93
POC #2, POC #4	Soil Tunnel presentation ( <i>Youth</i> )	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Town of Port Royal schools on 9/27/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	83
POC #2, POC #4	Soil Tunnel presentation ( <i>Youth</i> )	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the City of Beaufort school children on 11/15/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	17
POC #2, POC #4, GSA	Hilton Head Island Bluffton Chamber of Commerce Leadership Class presentation ( <i>Residents, businesses</i> )	The mission of the Leadership Hilton Head Island-Bluffton program is to systematically inform, challenge and educate the participants regarding opportunities and needs in the community, as well as the dynamics and social and economic change; to create a dialogue and rapport among the participants and existing community leaders; and to identify organization and individual opportunities for community involvement and assist in the placement of participants in these positions.	Completed	The Town of Bluffton provided a presentation for the Hilton Head Island Bluffton Chamber of Commerce Leadership Class on 2/8/17.	25
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting ( <i>Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater</i> )	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 2/23/17.	15

	<i>managers)</i>	May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.			
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting ( <i>Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers</i> )	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 1/27/2017.	15
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting ( <i>Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers</i> )	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 3/23/17.	15
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting ( <i>Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers</i> )	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 5/4/17.	15
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 6/22/17.	15

	<i>(Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers)</i>	assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.			
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting <i>(Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers)</i>	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 7/27/17.	10
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting <i>(Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers)</i>	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 8/24/17.	10
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting <i>(Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers)</i>	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 8/28/17.	15

		adopted on May 8, 2012 establishing the Committee.			
POC #4, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting ( <i>Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers</i> )	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 9/28/17.	15
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting ( <i>Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers</i> )	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 10/26/17.	10
POC #2, POC #4, GSA	May River Watershed Action Plan Advisory Committee meeting ( <i>Elected &amp; appointed officials and high-level staff, field staff, maintenance, facilities, supervisory staff, administrators, stormwater managers</i> )	The six (6) member May River Watershed Action Plan Implementation Committee is tasked with assisting and advising Town Council by offering guidance and recommendations to implement the opportunities and strategies outlined in the May River Watershed Action Plan per the Town Council Resolution adopted on May 8, 2012 establishing the Committee.	Completed	Town of Bluffton May River Watershed Action Plan Advisory Committee meeting was held on 11/30/17.	10
POC #2, POC #4, GSA	May River Preserve EPA 319 Grant presentation to homeowner's association ( <i>Residents</i> )		Completed	This presentation took place on 4/24/2017.	10

POC #2, POC #4, GSA	SE Coastal Resiliency Panel - National Sea Grant Advisory Board <i>(Elected &amp; appointed officials and high-level staff, technical staff, engineers, developers, supervisory staff, administrators, stormwater managers)</i>	The National Sea Grant Advisory Board is the National Sea Grant College Program's Federal Advisory Committee (FAC). The Board advises NOAA and the National Sea Grant College Program on strategies to address the Nation's highest priorities in terms of the understanding, assessment, development, management utilization and conservation of ocean, coastal and Great Lakes resources.	Completed	The Town of Bluffton took part in the National Sea Grant Advisory Board's SE Coastal Resiliency Panel on 10/16/2017.	30
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation <i>(Residents)</i>	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	Completed	This presentation was given on 3/17/2017 to the Rotary Club of the Lowcountry.	20
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation <i>(Residents)</i>	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	Completed	This presentation was given on 6/20/2017 to the Vanlandingham Rotary Club.	35
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation <i>(Residents)</i>	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	Completed	This presentation was given on 8/16/2017 to the Bluffton Rotary Club.	39
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation <i>(Residents)</i>	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that	Completed	This presentation was given on 9/21/2017 to the Indigo Run Women's Garden Club.	10

		homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.			
POC #2, POC #4, POC #5, GSA	Provided the Stormwater and the Saltmarsh presentation ( <i>Residents</i> )	This presentation is an introduction to the importance of the saltmarsh, how stormwater runoff is created, local POCs, and behaviors/BMPs that homeowners can adopt to reduce their stormwater footprint. Its effectiveness will be determined through evaluations.	In Planning	This presentation will be given again in 2018. We are working with local museums to schedule the talk there.	
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop Part 1 ( <i>Residents, homeowners</i> )	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This portion of the Cultivating a Carolina Yard workshop was given of Daufuskie Island on 7/5/2017. There were 18 participants at this workshop.	18
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop Part 2 ( <i>Residents, homeowners</i> )	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This portion of the Cultivating a Carolina Yard workshop was given of Daufuskie Island on 7/12/2017. There were 20 participants at this workshop. All evaluations came back reporting the workshop was a good use of time, that all participants learned something that they will use, and that they would recommend this workshop to others.	20
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop Part 3 ( <i>Residents, homeowners</i> )	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This portion of the Cultivating a Carolina Yard workshop was given of Daufuskie Island on 7/19/2017. There were 10 participants at this workshop. All evaluations came back reporting the workshop was a good use of time, that all participants learned something that they will use, and that they would recommend this workshop to others.	10

POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop Part 4 ( <i>Residents, homeowners</i> )	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This portion of the Cultivating a Carolina Yard workshop was given of Daufuskie Island on 7/26/2017. There were 14 participants at this workshop. All evaluations came back reporting the workshop was a good use of time, that all participants learned something that they will use, and that they would recommend this workshop to others.	14
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop ( <i>Residents, homeowners</i> )	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	Completed	This workshop was given at the Oldfield River Club on 12/6/2017. There were 16 participants at this workshop. All evaluations came back reporting the workshop was a good use of time, that all participants learned something that they will use, and that they would recommend this workshop to others.	16
POC #2, POC #4, POC #5, POC #6, GSA	Cultivating A Carolina Yard workshop ( <i>Residents, homeowners</i> )	This workshop gives a hands-on overview of Clemson Extension's Carolina Yards program. The program seeks to work with residents in creating healthy, watershed-friendly landscapes by using simple and effective gardening methods. Its effectiveness was determined with evaluations.	In Planning	This workshop will be given again in the spring of 2018. Currently searching for a community partner.	
POC #2, POC #4, POC #5, POC #6, GSA	Installation of New Riverside Pond floating wetlands ( <i>Residents</i> )	This project had community members involved in installing floating wetland BMPs to help maintain the New Riverside stormwater pond. Their effectiveness will be determined through water quality testing.	Completed	Volunteers from the North Face Store, led by the Town of Bluffton, installed floating wetland BMPs in the New Riverside Pond on 5/8/17.	2
POC #2, POC #4, POC #5, POC #6, GSA	2017 SESWA Photo Contest Winners ( <i>General Public</i> )	This contest highlighted regional LID/BMP/green infrastructure efforts in the southeast region and the Town of Bluffton's floating wetlands won alongside two other projects.	Completed	This award was announced on 6/13/17 and the photos can be found at <a href="http://www.seswa.org">www.seswa.org</a>	N/A

POC #2, POC #4, POC #5, POC #6, GSA	Article in Bluffton Today ( <i>General Public</i> )	This article covered the benefits and installation of floating wetland BMPs.	Completed	This article was published on 7/8/17 and can be found at <a href="http://www.blufftontoday.com/opinion/2017-07-08/benefits-floating-wetlands">http://www.blufftontoday.com/opinion/2017-07-08/benefits-floating-wetlands</a>	N/A
POC #2, POC #4, POC #5, POC #6, GSA	Article in SWS stormwater solutions ( <i>General Public</i> )	This article covered the benefits and installation of floating wetland BMPs.	Completed	This article was published on 12/5/17 and is available at <a href="https://www.estormwater.com/floating-island-wetlands-reduce-coliform-levels-creek">https://www.estormwater.com/floating-island-wetlands-reduce-coliform-levels-creek</a>	N/A
POC #2, POC #4, POC #5, POC #6, GSA	Article in Coastal Heritage ( <i>General Public</i> )	This article covered how the Town of Bluffton spoke at the 18th International Conference on Shellfish Restoration	Completed	This was published in the winter of 2017 by SC SeaGrant and is available at <a href="http://www.scseagrant.org/pdf_files/Coastal-Heritage-Winter-2017.pdf">http://www.scseagrant.org/pdf_files/Coastal-Heritage-Winter-2017.pdf</a>	N/A
POC #2, POC #4, POC #5, POC #6, GSA	Residential Stormwater BMPs: A Training for Contractors ( <i>Businesses, field staff, contractors, supervisory staff, landscapers, pond managers</i> )	This workshop is intended for contractors and landscape professionals who want to learn how to install stormwater best management practices (BMPs).	Cancelled	This workshop has been cancelled and will be replaced by the Clemson Extension Master Rain Gardener certification course.	N/A
POC #2, POC #4, POC #5, POC #6, GSA	Community Grants program ( <i>Residents, businesses</i> )	This application-based mini-grant program will pay contractors to install demonstration stormwater BMPs (rain gardens, rain barrels, shoring, geese fencing, pet waste stations, downspout planter boxes, and floating wetlands) on highly visible private property (such as apartment complexes, restaurants, doctor's offices, etc.)	In Planning	The budget is now available to subsidize downspout planter box, pet waste station, and rain barrel installations.	N/A
POC #2, POC #5, GSA	Master Naturalist program ( <i>Residents, teachers, technical staff, field staff, facilities, maintenance</i> )	The South Carolina Master Naturalist Program aims to create a statewide corps of volunteers sponsored through the Clemson Extension Service providing education, outreach, and service dedicated to the beneficial management of natural resources and natural areas within their communities. Interested South Carolinians become Master Naturalists through training and volunteer service	Ongoing	The Lowcountry Institute holds the 12 session Master Naturalist courses four times a year. Individuals who participate in the program bring diverse skills and experiences that contribute time, energy and ideas in maintaining the native eco-systems throughout the South. After receiving training, Master Naturalists may participate in many different types of volunteer activities. These might include assisting in a nature outreach program at a park, museum, nature center or school; assisting a scientist collecting bird census data; collecting data on water quality or many others.	100



POC #2, POC #5, POC #6	Lowcountry Master Gardener educational services ( <i>Residents, youth, higher education students, elected &amp; appointed officials</i> )	The Master Gardener program was designed to use the services of trained volunteers who have horticultural knowledge and a willingness to share that knowledge with other county residents through Cooperative Extension.	Ongoing	The Master Gardeners in Beaufort County remain active all year long and provide educational services such as: improving overall efficiency in providing one-on-one service to the non-commercial horticultural clientele in the county, promote increased environmental awareness through the prudent use of fertilizers, pesticides, etc., provide group learning and teaching activities for non-commercial clientele, and forming groups of teaching assistants who enjoy being around other horticulturists and which may evolve into a support group for Extension consumer/urban horticulture efforts.	212492
POC #2, POC #5, POC #6	Lowcountry Master Gardener community services ( <i>Residents, youth, higher education students, elected &amp; appointed officials</i> )	The Master Gardener program was designed to use the services of trained volunteers who have horticultural knowledge and a willingness to share that knowledge with other county residents through Cooperative Extension.	Ongoing	The Master Gardeners in Beaufort County remain active all year long and provide community involvement services such as: answering home horticulture calls at the Extension office, speaking to garden and civic clubs, speaking with youth or senior groups, and assisting communities with horticultural projects.	1295
POC #2, POC #5, POC #6, GSA	Port Royal Elementary School rain garden ( <i>Youth</i> )	As part of the Green Steps Schools program, the Lowcountry Stormwater Partners will assist the third graders of this school design and install a demonstration rain garden.	In Planning	Site is selected and materials secured. Will be planted in spring 2018.	
POC #3	Whale Branch Elementary School Green Steps School Projects Kick-Off ( <i>Youth</i> )	The goal of this meeting was to plan and implement projects for Whale Branch Elementary School's Green Step Schools certification. Its effectiveness will be measured by the success of its projects.	Completed	On 12/1/2017, Whale Branch Elementary School committed to and began implementing the following three projects: 1. Recycling - elimination of litter & trash 2. Composting - elimination of litter & trash 3. Rain Barrel - collect rain water and use to water garden plot (rain barrel installed same day) This was done with the Beaufort County Soil and Water Conservation District.	200
POC #3	Coastal Conservation League table at the Broad Creek Clean Water Festival ( <i>Residents, K-12 students/youth, teachers</i> )	Participating in this event allowed the organization to directly interact with many stakeholders and educate them about plastic pollution, litter, and the importance of water quality. This strategy's effectiveness will be determined by the amount of people reached.	Completed	The Coastal Conservation League created a table on plastic pollution at the Broad Creek Clean Water Festival on 8/10/17.	75

POC #3	Marine debris display & game at the Broad Creek Clean Water Festival ( <i>General public</i> )	Participating in this event allowed the organization to directly interact with many stakeholders and educate them about plastic pollution, litter, and the importance of water quality. This strategy's effectiveness will be determined by the amount of people reached.	Completed	The Beaufort County Soil and Water Conservation District exhibit highlighted the negative effect on marine species due to litter and provided a game where participants guessed how long trash takes to decompose. We also distributed Marine Debris flyers at this event on 8/10/17.	150
POC #3	Marine debris display at the Soft-Shell Crab Festival ( <i>General Public</i> )	Participating in this event allowed the organization to directly interact with many stakeholders and educate them about plastic pollution, litter, and the importance of water quality. This strategy's effectiveness will be determined by the amount of people reached.	Completed	The Beaufort County Soil and Water Conservation District display shows how debris harms aquatic species and has participants guess how long it takes materials decompose in the water. The display was active on 4/15/17.	500
POC #3	Display on plastic bags & suggestions on a county wide ban at the Town of Port Royal's Earth Day Celebration ( <i>General public</i> )	Participating in this event allowed the organization to directly interact with many stakeholders and educate them about plastic pollution, litter, and the importance of water quality. This strategy's effectiveness will be determined by the amount of people reached.	Completed	The Beaufort County Soil and Water Conservation District provided the body suit of a Plastic Bag "Monster" to bring attention to the problem and utilized it on 4/22/17.	100
POC #3	Beach Sweep ( <i>Residents, youth, higher education students, teachers, commercial businesses, boat owners, operators, marinas, pet owners</i> )	The goal of the beach sweep is to engage and involve citizens in removing litter from their environment and marking storm drain to prevent further litter and stormwater pollution. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Cancelled	The 2017 beach sweep was cancelled due to Hurricane Irma and the subsequent maintenance concerns.	N/A
POC #3	Teacher training for Green Steps School ( <i>Teachers</i> )	This training aims to increase participation in the Green Steps School Program.	Completed	The Green Steps Schools Coordinator with the Beaufort County Soil and Water Conservation District trained teachers and encourage schools to form teams to participate in the program on 8/14/17.	27
POC #3	Recycling presentation ( <i>Youth</i> )	This presentation was meant to educate children how to recycle and prevent litter.	Completed	Beaufort County school children learned about recycling and how to prevent litter. This presentation was given by Beaufort County Soil and Water Conservation District on	36
POC #3	Beaufort Middle School Grounds Litter Clean Up ( <i>Youth</i> )	This program was meant to engage students in community involvement and reduce stormwater pollution by picking up	Completed	Beaufort Middle School students cleaned up their school's grounds on 11/29/17 with the Beaufort County Soil and Water Conservation District.	21

		litter.			
POC #3	Digital billboard advertisement for the May River Cleanup ( <i>Residents, K-12 students/youth, higher education students, teachers</i> )	To advertise and increase awareness of the 17th Annual May River Cleanup	Completed	The Town of Bluffton obtained a digital billboard advertisement for the May River Cleanup was created and sent out through social media and news sites.	290,000
POC #3	Plastic bag presentation ( <i>Commercial business</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 1/18/18, the Coastal Conservation League met with the Hilton Head Island-Bluffton Chamber of Commerce to discuss the feasibility of a ban on single use plastic bags.	5
POC #3	Paper Bag Commitment ( <i>Businesses, General public</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	The week of Earth Week, the Coastal Conservation League asked local businesses to commit to offering paper bags (instead of defaulting to single use plastic bags). Several businesses committed to asking customers which they preferred and having paper bags available.	100
POC #3	Reducing Plastic Pollution in the Lowcountry presentation ( <i>Residents</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 5/15/17, the Coastal Conservation League gave a presentation to residents of Palmetto Bluff on how to reduce plastic pollution. Included a discussion of a ban on single use plastic bags.	20
POC #3	Reducing Plastic Pollution in the Lowcountry presentation ( <i>Residents, general public</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 4/18/17, the Coastal Conservation League gave a presentation to Green Drinks Beaufort on how to reduce plastic pollution. Included a discussion of a ban on single use plastic bags.	50
POC #3	Plastic bag presentation ( <i>Elected &amp; appointed officials and high-level staff</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 4/20, the Coastal Conservation League presented to and discussed with members of the Hilton Head Island Planning Commission about exploring the possibility of a ban on single use plastic bags.	2
POC #3	Plastic bag presentation ( <i>Residents, elected &amp; appointed officials and high-level staff</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 6/21/17, the Coastal Conservation League gave a presentation on banning single use plastic bags on Hilton Head Island.	40

POC #3	Plastic bag presentation ( <i>Residents</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	On 8/17/17, the Coastal Conservation League gave a presentation about reducing plastic pollution in the Lowcountry to the League of Women Voters in Beaufort.	40
POC #3	Plastic bag presentation ( <i>Elected &amp; appointed officials and high-level staff</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	The Coastal Conservation League gave a presentation to the Natural Resources Committee of Beaufort County Council on 8/22/17 about banning single use plastic bags.	7
POC #3	Plastic bag presentation ( <i>Commercial business</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	The Coastal Conservation League gave a presentation to the Beaufort County Chamber of Commerce on 9/1/17 about banning single use plastic bags.	4
POC #3	Plastic bag presentation ( <i>Residents</i> )	This presentation focused on educating key audiences on the issues with plastic litter. Its effectiveness will be measured by the adoption of a single use plastic bag ban.	Completed	The Coastal Conservation League gave a presentation at the Port Royal Town Council meeting on 9/13/17 about banning single use plastic bags.	12
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials and high-level staff</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/5/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials and high-level staff</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/16/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials and high-level staff</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/25/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials and high-level staff</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 11/1/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 11/8/17.	25

	<i>and high-level staff)</i>	resolution on the matter.			
POC #3	Adopt-A-Highway program ( <i>Residents</i> )	The Adopt-A-Highway program is a part of Palmetto Pride and Keep Beaufort County Beautiful. Its mission is to eradicate litter and promote beautification in South Carolina. It conducts litter pick-ups and measures effectiveness in number of volunteers, number of active volunteer groups, number of volunteer hours, and pounds of litter removed.	Ongoing	There were 2,996 volunteers who were part of 85 active volunteer groups who spent 3,996 hours picking up 89,160 lbs. of trash.	2996
POC #3, GSA	Intro to Hazardous Waste Generation and Handling ( <i>Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers, field staff, maintenance, facilities</i> )	This training focused upon proper disposal of hazardous waste and spill procedures. It's education also serves for MCM 6 requirements.		This training took place on 2/6/17. It was provided by Beaufort County.	2
POC #3, GSA	Storm drain marking ( <i>General public, business</i> )	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	Completed	The Clemson Extension Water Resources Agent partnered with the Shelter Cove Marina and marked five storm drains with one volunteer on 2/23/2017.	1
POC #3, GSA	Storm drain marking ( <i>General public, business</i> )	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	Completed	The Town of Hilton Head Island partnered with 8 volunteers to mark storm drain on of three marinas on Hilton Head Island on 9/1/17.	8
POC #3, GSA	Storm drain marking ( <i>General public, business</i> )	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	In Planning	Kits are ready and looking for volunteer groups. Will be recruiting volunteers at the 1/23/18 Lowcountry Master Naturalist Association Meeting.	
POC #3, POC #4, POC #5	Tabling event at Southern Barrel Brewing ( <i>Residents</i> )	To increase public awareness of water quality and conservation issues.	Completed	On 9/22/17, the Savannah Riverkeeper engaged citizens in discussion about watershed protection and water supply.	46

POC #3, POC #4, POC #5	Presentation for the Sun City Kayak Club (Residents)	To increase public awareness of water quality and conservation issues.	Completed	On 1/15/17, the Savannah Riverkeepers gave a presentation for the Sun City Kayak Club that discussed human / waterway interactions and their impacts.	28
POC #3, POC #4, POC #5	Table at the Beaufort Academies solar eclipse event (Residents)	To increase public awareness of water quality and conservation issues.	Completed	On 8/21/17, the Savannah Riverkeeper engaged citizens in discussion about watershed protection and water supply.	27
POC #3, POC #4, POC #5, GSA, Pesticides	EPA brochure "Make your home the solution to stormwater pollution" A homeowner's guide to healthy habits for clean water (Residents)	This brochure reviews general behaviors and BMPs homeowners can adopt to reduce their stormwater footprint.	Ongoing	This brochure is available at the Town of Hilton Head town offices.	100
POC #3, POC #4, POC #5, Toxins, Petroleum products, Pesticides, FOG	WEF Household Hazardous Waste brochure (Residents, technical staff, engineers, developers, field staff, maintenance, facilities, contractors, PUD)	This brochure is meant to assist citizens with proper disposal of hazardous waste materials. Its effectiveness will be tracked by how many copies are distributed.	Ongoing	The brochure is available at the Town of Hilton Head offices, Beaufort County Public Works building, and the Clemson Extension office.	100
POC #3, POC #5, GSA	South Carolina Adopt-A-Stream citizen monitoring (Residents)	South Carolina Adopt-a-Stream (SC AAS) creates a network of watershed stewardship, engagement, and education through involvement. SC AAS volunteers can play an important role in monitoring and tracking water quality while sharing information about local water resources with their communities. In providing baseline information about stream conditions, volunteers, local communities, educators, and local government agencies can partner to protect and restore our waters. Its effectiveness will be monitored by the number of trained volunteer groups.	Ongoing	Marketing materials for this program are on display at the Clemson Extension Office. However, no volunteer groups can form until a saltwater monitoring program is created.	N/A
POC #4	Soil Tunnel presentation (Youth)	This presentation's goal is to educate and involve children with how water quality and soil affect their lives.	Completed	Discussion on wells, septic tanks, and ground water recharge for the Bridges Prep school on 3/3/17. This presentation was given by the Beaufort County Soil and Water Conservation District.	68

POC #4	Broad Creek Management Plan septic system brochure ( <i>Residents, elected &amp; appointed officials and high-level staff, contractors</i> )	To inform the public about the importance of septic system maintenance, how to perform said maintenance, and how lack of maintenance can negatively impact water quality.	Completed	This outreach material was funded by DHEC, and NOAA grant #NA970Z0198.	100
POC #4	Septic System Awareness campaign ( <i>Homeowners</i> )	This program will focus on encouraging septic system owners to follow best practices through social marketing and educational materials development.	In Planning	A needs assessment is currently being designed to better target the educational materials.	
POC #4, GSA	2018 pet waste mass media campaign development ( <i>Pet owners</i> )	The Lowcountry Stormwater Partners are working with other Carolina Clear consortiums to perform social market research to develop a mass media campaign targeted at pet owners to encourage them to pick up their pets' waste. Evaluation methods are being determined.	In Planning	The Lowcountry Stormwater Partners attended three brainstorming and planning meetings and are contributing to social market research. The consortium will also participate in the campaign once the details are finalized.	N/A
POC #4, POC #5	Pet waste station installation ( <i>Pet owners</i> )	Install one new pet waste station per year	In Planning	As part of the 2018 Pet Waste Mass Media campaign, a pet waste station will be installed.	N/A
POC #4, POC #5, GSA	Fats, oils, and grease disposal education materials ( <i>General public</i> )	Distribute educational materials relating to FOG to education partners and stakeholders. Their effectiveness will be determined through the amount distributed.	Ongoing	There are four stormwater displays that contain FOG materials: one at the Beaufort County Clemson Extension Office, one at the Town of Bluffton Watershed Management Division, one at the Town of Hilton Head Island town offices, and one at the Beaufort County Public Works building.	N/A
POC #4, POC #5, POC #6, GSA	Carolina Yards program ( <i>Homeowners</i> )	Clemson Extension's Carolina Yards program works with residents to create healthy, watershed-friendly landscapes. Using simple and effective gardening methods, create a low maintenance yard that works with nature, rather than against it. Carolina Yards also regularly offers a five week, online course designed to help Carolina gardeners learn to grow and maintain a low maintenance and low impact yard. The program's success will be measured in newly certified yards.		No courses were offered this year, but there were 22 newly certified yards.	22

POC #4, POC #5, POC #6, GSA	Carolina Yards website ( <i>Homeowners</i> )	The website's goal is to provide a clearing house of information on how to use simple and effective principles and actions to help guide you towards a low maintenance and positive environmental impact yard. Its use will be tracked through site visits.	Ongoing		18985
POC #4, POC #5, POC #6, GSA	Carolina Yards Facebook ( <i>Homeowners</i> )	The goal of this page is to provide a forum for public participation, to increase awareness of simple and effective actions to help guide residents towards a low maintenance and environmentally friendly yard, and to increase awareness of course offerings. Its effectiveness will be tracked through "Likes".	Ongoing		541
POC #5, GSA, CM	Co-presented the "Cooperative Education and Involvement Programming" lecture at the 17th Annual Southeast Stormwater Association Conference in Louisville, KY ( <i>Pond managers, stormwater staff, technical staff, supervisory staff, field staff, facilities, maintenance</i> )	This presentation described the cooperative education model that Clemson Extension's Carolina Clear program employs within its consortiums. The Lowcountry Stormwater Partner's strategic planning process was highlighted in this presentation as a case study for the professional audience. This presentation's effectiveness was measured by evaluations.	Completed	This presentation was given to stormwater professionals on 10/12/2017. It was a joint effort between Clemson Extension, the Anderson Pickens Stormwater consortium, the Lowcountry Stormwater Partners, and Beaufort County. 29 people who attended the session turned in evaluations. The evaluations rated on a scale of 1-7, where 7 was an excellent presentation and 1 was a poor presentation. 38% of respondents rated us at a 7, 45% of respondents rated us at a 6, and 14% of respondents rated us at a 5.	29
POC #5, POC #6, GSA	Making It Grow! ( <i>Homeowners</i> )	Its use will be tracked by views (number reported is the average number of persons per household applied to the projected number of households that viewed Making It Grow! during the 2016 calendar year. This number is conservative as it does not account for the SC Channel and only represents one episode's viewing).	Ongoing	*Number reported is the average number of persons per household applied to the projected number of households that viewed Making It Grow! from May 2016 through November 2017. This number is conservative as it does not account for the SC Channel and only represents one episode's viewing.	22162
POC #5, POC #6, GSA	Water Chemistry Summary presentation ( <i>Residents, technical staff, engineers, developers, field</i> )	The presentation focused mainly on nutrients loads and the possible bmp strategy that could lessen future nutrient levels in a sustainable manner.	Completed	The Town of Hilton Head Island presented a water chemistry summary to the Palmetto Dunes wetland committee on 11/13/17.	12



	<i>staff, maintenance, facilities)</i>				
POC #6, GSA	Board of Zoning Appeals and Design Review Board presentation ( <i>Elected &amp; appointed officials and high-level staff</i> )		Completed	At the 6/22/17 meeting of the Town of Hilton Head Island Board of Zoning Appeals and Design Review Board, the Town of Hilton Head gave a presentation on beaches, how they erode and accrete and what natural services beach plants provide.	15
POC #6, GSA	Silt Fence and Beyond: Erosion and Sediment Control Best Practices	Silt Fence and Beyond: Erosion and Sediment Control Best Practices is a full day workshop for contractors, inspectors, and regulators who wish to learn more about saving time and money on job sites through proper selection, installation, and maintenance of construction BMPs. Topics covered include: Establishing vegetative cover, Hydro mulching, Erosion control blankets, Turf reinforcement mats, and more!	In Planning	Speakers are identified and looking to schedule.	N/A
<b>Total Number of Individuals Impacted</b>					<b>829,124</b>

### C. Control Measure Evaluation (5.3)

#### 1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule:

The implementation of MCM#1 was successful in the Hilton Head Urbanized Area for several reasons. One reason is that the Lowcountry Stormwater Partners grew into a larger, more well defined stormwater consortium. The Lowcountry Stormwater Partners began when Beaufort County, the City of Beaufort, the Town of Bluffton, the Town of Hilton Head Island, and the Town of Port Royal agreed to work together across municipal and watershed boundaries to address stormwater education and awareness needs. With this commitment, the communities selected to work with the Clemson Extension’s Carolina Clear program. This program seeks to develop outreach and involvement opportunities that lead to sustained behavior changes which, in turn, protect water resources. This approach is best accomplished through meaningful partnerships; thus, the founding organizations selected to work locally as the Lowcountry Stormwater Partners and to invite other educational institutions, utilities, non-profits, and companies to deliver consistent outreach programming to target audiences. In the 2017 reporting year, the Lowcountry Stormwater Partners recruited four new organizations to the consortium as well as created a vision statement, a mission statement, specific goals, a logo, and a fully functional website. These steps amplify the Lowcountry Stormwater Partners educational messaging, as citizens and stakeholders will be able to recognize the consortium and seek its assistance.

To craft the vision statement, mission statement, and goals, partners and stakeholders provided feedback at the consortium meeting in January 2017. Then, a steering committee built of MS4 community representatives met on 4/3/17 to fine tune these suggestions. The meeting resulted in the Lowcountry Stormwater Partners consortium’s vision statement, “The Lowcountry Stormwater Partners strive for healthy, fishable, swimmable waterways to continue the prosperity of the region” as well as its’ mission statement, “To protect and restore

healthy, productive Lowcountry waterways by engaging citizens in stormwater education and public involvement opportunities through a network of partnerships with local governments, organizations, and businesses.” This meeting also saw the formation of the consortium’s goals. The goals are:

1. Help the Lowcountry Stormwater Partners' local SMS4s meet and stay compliant with the NPDES Phase II Stormwater Program permit requirements for MCM1 (public education and outreach) and MCM 2 (public involvement) by providing local resources and services.
2. Leverage the Lowcountry Stormwater Partners network of partners to maximize the efficiency of stormwater education and involvement efforts using a regional approach.
3. Develop and implement targeted outreach programs that address primary stormwater pollutants of concern.
4. Encourage positive behavioral changes in support of environmental protection and awareness through stormwater education.
5. Foster and expand upon citizen involvement in stormwater management through education and participation in programs.
6. Facilitate collaboration among local organizations interested in watershed-related education to best meet the needs of local communities.

At a later meeting, the same steering committee created a timeline for focusing on POCs. 2017 will focus upon POC #1 and POC #6, 2018 will focus upon POC #4 and POC #5, and POC #3 and POC #2 will be focused upon throughout these years through existing and other programs. This year, the steering committee will meet once more to decide if these two pollutants should be the focus of 2019. However, aside from planning and creating a more effective consortium, the Lowcountry Stormwater Partners also kept up with our implementation schedule according to the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach Plan and created several successful educational programs.

An example of one such program was the 2017 Beaufort Area Stormwater Pond Management Conference. The conference took place on 10/19 at USCB’s Bluffton campus from 8:30am – 4:00pm. It provided a forum to give the latest information, resources and tools on pond management. The conference was jointly organized by Clemson Extension and the Lowcountry Stormwater Partners, the South Carolina Sea Grant Consortium, the South Carolina Department of Natural Resources, and the Ace Basin National Estuarine Research Reserve to serve a need within the Lowcountry community and maintain the implantation schedule on the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach Plan. The 2017 conference was part of a series of six pond conferences along the South Carolina coast that have been taking place since 2012. The conference was designed to help stormwater pond owners/HOA representatives, property management professionals, and pond management professionals learn more about current pond management techniques. The conference was split into two tracks, one for pond owners and one for the more technical pond managers, to better serve these audiences. Each participant received presentations and advice from local and regional experts in pond management, opportunities to interact with organizations and businesses in the pond management industry, a resource package with information and reference materials, lunch, and continuing education credits. Conference topics included integrated weed management, shoreline stabilization, and wildlife management. 111 people pre-registered for the conference and 98 people attended. Out of the 98 participants, 62 people turned in evaluations. The evaluations revealed that 43% of respondents were HOA/community members and 24% were business representatives. 88% of respondents agreed that the conference was a good use of their time and 100% of respondents reported knowledge gain. Finally, 87% of respondents reported that they learned something at the conference that they would apply in the future.

The “Cultivating a Carolina Yard” workshop is another example of a successful Lowcountry Stormwater Partners education program. This program is designed to give a basic overview of Clemson Extension’s Carolina Yards program, which teaches homeowners how using simple and effective gardening methods can create a low maintenance yard that works with nature, rather than against it. This workshop uses a

combination of PowerPoint, lecture, conversation, and hands-on field activities to convey this information and to encourage participants to enroll in the Carolina Yards course. To produce this workshop, the Lowcountry Stormwater Partners work with local communities who provides the space and course materials. Course participants receive a Carolina Yards Workbook and 12 Clemson HGIC printouts in their own folder. This year, the Lowcountry Stormwater Partners partnered with the Daufuskie Island Conservancy and the Haig Point community to host this workshop in a series of four, 90-minute sessions on 7/5/17, 7/12/17, 7/19/17, and 7/26/17. A total of 33 individuals attended these offerings. 18 people attended the first session, 20 attended the second, 10 attended the third, and 14 attended the fourth. We collected a total of 40 evaluations from this series. Each evaluation reported that the information presented was very useful, that the participant gained knowledge, and that the participant would recommend this program to others. The Lowcountry Stormwater Partners also worked with the Oldfield Community to offer this workshop as a one-time, six-hour course on 12/6/17. 16 people attended the workshop and all participants turned in an evaluation. All respondents indicated that they found the training very useful, that they gained knowledge, that they planned to use the knowledge gained in the future, and that they would recommend the workshop to others. To further evaluate this program, we will follow up in with the participants after the planting season in March to see if the participants applied the knowledge gained. If they do apply the knowledge gained, participants will be able to save money, reduce time working in the yard, and/or protect water quality by getting their soil tested, applying the appropriate amount of fertilizer, watering wisely, reducing stormwater runoff, creating integrated pest management systems, and/or using native plants.

Another successful education program that the Lowcountry Stormwater Partners created this year was the “Success with Stormwater” advanced master naturalist training, which was given on 12/5/17. This hands-on workshop focused on why water quality is important to Beaufort County, how stormwater runoff is created, and how the negative impacts of stormwater runoff can be offset through the adoption of certain behaviors and residential stormwater best management practices. The workshop was held at Crystal Lake park from 9:00AM until 12:00PM and was divided into three sections: a jeopardy-style game to review watershed principles and the Lowcountry Master Naturalist material, a PowerPoint presentation and lecture on stormwater runoff with an Enviroscape demonstration, and a walking tour and discussion residential stormwater best management practices. 10 people attended the training and everyone turned in an evaluation. All respondents indicated that they found the training very useful, that they gained knowledge, that they planned to use the knowledge gained in the future, and that they would recommend the workshop to others. The program was so popular, that the consortium was asked to give the training again on 4/25/18.

A final example of the Lowcountry Stormwater Partners successful education programming is the hosting of the 2017 Spring Master Pond Manager Course. In this course, 32 participants actively engaged in self-paced lectures, discussion, and quizzes in the online classroom, managed by the Lowcountry Stormwater Partners. They covered topics such as pond design, inspection, and maintenance as well as limnology, integrated aquatic plant management, fish management, and BMP function, design, and installation. However, on 5/11/17 and 5/12/17, course participants had the opportunity to meet with their instructors face-to-face and to apply what they learned in the classroom to real-world situations. On 5/11/17, we hosted the Master Pond Manager Stormwater Pond Field Day. At this event, 25 participants learned how to read construction drawings and how to perform detailed stormwater pond inspections. The highlight of the day, though, was the opportunity to install a shoreline buffer, or shorescape. Working together, the 25 participants planted a 300sqft shorescape along a pond at the Beaufort County Administration Complex with native plants. Then, on 5/12/17, we hosted the Master Pond Manager Recreational Field Day. At this event, 16 participants toured Spring Island and discussed pond design, rookery management, and practiced delineating wetlands. The highlight of the day was the opportunity to sample fish populations in the pond using fish traps, seine nets, and cast net. The students were encouraged to identify and measure fish as well as draw some preliminary conclusions about the state of the ponds’ fisheries.

The Lowcountry Stormwater Partners credits the success of these programs to the creation and direction of the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach plan and the

consortium's commitment to partnership. This success was recognized by the MS4 and municipal partners, which encouraged the Lowcountry Stormwater Partners to participate as a speaker at the 17<sup>th</sup> Southeast Stormwater Association Annual Conference in Louisville, KY on 10/12/17. We co-presented a 30-minute program called, "Cooperative Education and Involvement Programming", alongside Clemson's Extension's Carolina Clear program, Anderson & Pickens Counties Stormwater Partners consortium. The presentation covered how Clemson Extension's Carolina Clear program cooperatively educates communities about water quality, water quantity, and the cumulative effects of stormwater. It demonstrated to participants how Clemson Extension's Carolina Clear program can be a model for other states. The presentation encouraged the audience to consider working regionally and to educate and involve target audiences in stormwater pollution prevention for NPDES permit compliance. The Lowcountry Stormwater Partners were responsible for describing how the Clemson Extension's Carolina Clear consortiums create and modify strategic education plans. 29 people who attended the session turned in evaluations. The evaluations rated on a scale of 1-7, where 7 was an excellent presentation and 1 was a poor presentation. 38% of respondents rated us at a 7, 45% of respondents rated us at a 6, and 14% of respondents rated us at a 5.

However, the Lowcountry Stormwater Partners have not settled for the progress that has already been made. We are participating in and planning to launch a pet waste campaign in 2018 as part of the Clemson Extension's Carolina Clear's newest mass media campaign. Currently, the project is conducting a needs assessment and market research on dog owners and will forward into a logic model to describe the appropriate activities to be taken later in the year. We are also planning the Beaufort County Senior Leadership environmental days, which will take place in late April, to educate, create, and train volunteers. Also, the Neighbors for Clean Water program was workshopped in January and the program design indicated that a needs assessment needed to be done prior to project planning. This needs assessment will be done in 2018. This needs assessment will also form the base information for further campaigns, such as septic awareness.

## **2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives:**

The Lowcountry Stormwater Partners reached its improvements goals outlined in the 2016 annual report, which were expanding its outreach efforts as well as directly engaging with specific target audiences. Our total impacts have significantly increased from 161, 098 to 829, 124. This is an increase of over 400%! However, the Lowcountry Stormwater Partners could make their programs even more effective by conducting more needs assessments prior to developing programs. We are addressing that need by participating in the 2018 Carolina Clear Local Perceptions Survey and conducting a needs assessment for the Neighbor for Clean Water program. Another area where the Lowcountry Stormwater Partners can improve is developing a more detailed program evaluation. The current evaluation forms indicated that our existing programs are positive and informative experiences, but lack some robustness in clarifying what was learned and if there was a subsequent behavior change. This year, the Lowcountry Stormwater Partners will use a similar, but more detailed evaluation form and follow-up more with program participants to see if there were any behavior changes.

### III. Minimum Control Measures (MCM)

#### D. Minimum Control Measure 2: Public Involvement/Participation (4.2.2, 5.3)

Use the table below to summarize public involvement opportunities, goals, and progress for the current reporting year. In the “activities conducted and planned” section, focus on activities that were conducted in the last reporting year and those that are planned for the upcoming reporting year, providing implementation dates. Add rows where needed and attach additional sheets if necessary.

In the “Pollutant of Concern” column in the following tables, the following abbreviations are used:

Abbreviation	Pollutant of Concern
POC #1	Post-construction maintenance
POC #2	Freshwater (runoff volume)
POC #3	Litter
POC #4	Bacteria
POC #5	Nutrients
POC #6	Sediment
GSA	General Stormwater Awareness
CM	Consortium Management
FOG	Fats, Oils, and Grease

Please see the attached “2016-2018 Strategic Regional Stormwater Outreach Plan” for a complete list of all activities planned for the upcoming year. Below are last year’s accomplishments as well as the activities that are furthest along in their planning stages					
Pollutant of Concern	Outreach Strategy <i>(include target audiences)</i>	Measurable Goal(s)	Progress on Goal(s)	Activities Conducted and Planned <i>(specific implementation dates)</i>	Number of People Reached
CM, GSA	Lowcountry Stormwater Partners partner recruitment		Ongoing	By engaging with local organizations and involving them in the consortium has helped to increase Lowcountry Stormwater Partners' reach and ability to provide stormwater education and involvement opportunities.	4
GSA	Staff training on good housekeeping <i>(Technical staff, engineers, developers, field staff, maintenance/facilities staff, supervisory staff, administrators, stormwater managers)</i>	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	The Town of Hilton Head Island identified all their staff to be trained. Training occurred on 2/27/17 (27 participants), 7/20/17 (8 participants), and 11/15/17 (7 participants).	45

GSA	Lowcountry Stormwater Partners Partner Facebook (General public)	These pages are managed by partner organizations but will assist the Lowcountry Stormwater Partners in spreading information about public participation opportunities and other relevant information. Their effectiveness will be tracked through “Likes”.	Ongoing		68192
GSA	Community Development Department Arbor Day Tree Planting (General public)	The goal of this event was to engage citizen in a community involvement activity and to mitigate water quality and other environmental concerns by planting trees. Its effectiveness was determined by the number of volunteers and trees planted.	Completed	On 12/1/17, the volunteers and Town of Hilton Head Island staff planted 75 seedling live oaks in hurricane damaged areas of 2 public parks to help replace some of the trees lost to hurricanes	100
GSA, CM	Lowcountry Stormwater Partners consortium meetings (Consortium members, general public)	These meetings are for partners to update each other and to address consortium business such as workshops, current events, etc.	Ongoing	One meeting was held on 11/28/2017. 13 individuals attended.	13
POC #1, GSA	Toured ponds and offered pond management advise to the Rose Hill Plantation board (Residents)	The Rose Hill Plantation Board invited Clemson Extension into their community to discuss management strategies for creating healthier, more sustainable stormwater ponds.	Completed	The Clemson Extension Water Resources agent was invited to the Rose Hill Plantation because of their participation in the 2017 Beaufort Area Stormwater Pond Conference. She visited on 11/1/2017, saw 8 ponds and recommended BMPs to improve their function. She will partner with them in the future as part of their upcoming pond education campaign.	3
POC #1, POC #6, GSA	Certified Erosion Prevention and Sediment Control Inspector (CEPSCI) (Technical staff, stormwater managers, field staff, construction workers)	The purpose of the CEPSCI Program is to educate field personnel on the proper installation, maintenance and inspection of erosion prevention and sediment control measures at construction sites to meet state and local regulations. Its success will be measured in number of participants.	Ongoing		1208

POC #1, GSA	Certified Stormwater Plan Reviewer (CSPR) ( <i>Technical staff, planners, engineers, stormwater managers, developers</i> )	The purpose of the CSPR Program is to educate personnel on the proper design and review of stormwater and sediment control plans for development sites to meet state and local regulations. Its success will be measured in number of participants	Ongoing		55
POC #1, GSA	Post Construction Best Management Practice Inspector ( <i>Technical staff, stormwater managers, field staff</i> )	Post Construction BMP Inspector program provides online and field-based training focused on inspection and maintenance of best management practices used for stormwater management. Students have the chance to discuss and view bioswales, dry detention basins, wet detention basins, green roofs, pervious pavement, rainwater harvesting and more. Its success will be measured in number of participants.	Ongoing	The class was offered twice in 2017, with field days hosted at the Trident Technical College Campus, in North Charleston (10/25/17) and at Furman University in Greenville (6/1/17). A total of 46 individuals participated in BMP in 2017.	46
POC #1, POC #2, POC #3, POC #4, POC #5, GSA	Educational stormwater display at the Port Royal Farmer's Market ( <i>General public</i> )	This display will be source of stormwater and better management practice information and consist of brochures, post cards, fact sheets, etc. This strategy's effectiveness will be determined by the amount of people reached.	Ongoing	Clemson Extension Agents and Master Gardener volunteers were present with stormwater outreach materials at 3 farmer's markets.	N/A
POC #1, POC #2, POC #3, POC #4, POC #5, GSA	2nd Annual Charles Fraser Sustainable Resort Development Conference ( <i>Homeowners, commercial businesses, PUDs</i> )	The goal of this conference was to arm attendees with the information, tools, and motivation needed to implement sustainable practices at their own resorts and organizations.	Completed	This conference was held on 9/6/2017 and 100 individuals attended.	100
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear Facebook ( <i>General public</i> )	The goal of this page is to provide a forum for public participation, to increase awareness of storm water's effects on water quality, and increase awareness of public participation opportunities. Its effectiveness will be tracked through views.	Ongoing		25372

POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA	Carolina Clear YouTube ( <i>General public</i> )	The channel's goal is to provide a clearing house of stormwater information. Its use will be tracked through site views.	Ongoing	This channel hosts 76+ videos that include television commercials, local channel community segments, how-to videos, street interviews, and more.	6612
POC #1, POC #2, POC #3, POC #4, POC #5, POC #6, GSA, CM	Lowcountry Stormwater Partners Facebook ( <i>General public</i> )	The goal of this page is to provide a forum for public participation, to increase awareness of storm water's effects on water quality, and increase awareness of public participation opportunities. Its effectiveness will be tracked through "Likes".	Ongoing		198
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	Providing HOA stormwater pond binders ( <i>Residents, pond managers</i> )	These binders serve to help pond owners (particularly residents and HOA boards) maintain their stormwater ponds by providing information and materials pertaining to stormwater pond design, function, inspection, and maintenance.	Ongoing	These binders are available in hard copy at the Clemson Extension Office and online at the Clemson Stormwater Pond website.	N/A
POC #1, POC #2, POC #4, POC #5, POC #6, GSA	Neighbors for Clean Water program( <i>Residents</i> )	This program will help residents reduce their stormwater footprint through residential BMP trainings.	In Planning	This program is in the beginning development stages. It will be workshopped at the ACE Basin's NERR's Planning Effective Workshops training in January 2018. From there a program will be created and followed.	N/A
POC #1, POC #4, POC #5, POC #6, GSA	2017 Beaufort Area Stormwater Pond Conference ( <i>Pond managers, residents, PUD, elected &amp; appointed officials, technical staff, supervisory staff, facilities, maintenance, field staff, developers</i> )	The conference was designed to help stormwater pond owners/HOA representatives, property management professionals, and pond management professionals learn more about current pond management techniques. The conference was split into two tracks, one for pond owners and one for the more technical pond managers, to better serve these audiences. Its effectiveness was determined through evaluations.	Completed	The 2017 Beaufort Area Stormwater Pond Management Conference took place on 10/19 at USCB's Bluffton campus from 8:30am – 4:00pm. The conference was jointly organized by Clemson Extension and the Lowcountry Stormwater Partners, the South Carolina Sea Grant Consortium, the South Carolina Department of Natural Resources, and the Ace Basin National Estuarine Research Reserve to serve a need within the Lowcountry community. 88% of respondents agreed that the conference was a good use of their time and 100% of respondents reported knowledge gain. Finally, 87% of respondents reported that they learned something at the conference that they would apply in the future.	98



POC #1, POC #4, POC #5, POC #6, GSA	Spring 2017 Master Pond Manager course ( <i>Pond managers, technical staff, supervisory staff, facilities, maintenance</i> )	Participants in the 2017 Spring Master Pond Manager course actively engage in self-paced lectures, discussion, and quizzes in the online classroom. They covered topics such as pond design, inspection, and maintenance as well as limnology, integrated aquatic plant management, fish management, and best management practice (BMP) function, design, and installation. Course participants also can meet with their instructors face-to-face and to apply what they learned in the classroom to real-world situations during two field days.	Completed	32 participants enrolled in this course offering and installed a 300 sqft shoreline planting.	32
POC #1, POC #4, POC #5, POC #6, GSA	Master Pond Manager course ( <i>Pond managers</i> )	Attendance and certifications	Ongoing	49 participants, 48 certifications	49
POC #1, POC #5, GSA	Rain Garden Clean-Up event ( <i>Residents</i> )	To maintain a Beaufort County Rain Garden and engage citizens in BMP maintenance.	Completed	Master Gardener volunteers spent three hours weeding, mulching, and pruning the Beaufort County Rain Garden on 6/27/17.	5
POC #2, GSA	Beaufort County Senior Leadership environment days ( <i>Residents</i> )	The Leadership Program provides information about civic, social, and educational activities. Beaufort County Senior Leadership expands awareness about daily life in the Lowcountry and helps participants navigate their way toward identifying volunteer and community involvement.	In Planning	The Lowcountry Stormwater Partners were a part of the planning committee for the two classes that center around environmental issues and involvement. The consortium will give presentations on both days, which are 3/28/18 and 4/4/2018, and will assist with informing, training, and recruiting volunteers for the consortium.	
POC #2, POC #3, GSA	17th Annual May River Cleanup and Earth Day Festival ( <i>Residents, youth, higher education students, teachers, commercial businesses, boat owners, operators, marinas, pet owners</i> )	The goal of the Annual May River cleanup is to engage and involve citizens in removing litter from their environment and marking storm drain to prevent further litter and stormwater pollution. Its effectiveness will be determined through number of volunteers and pounds of litter removed.	Completed	The 17 <sup>th</sup> Annual May River Cleanup took place on 4/22/17. On that day, 350 volunteers picked up litter along 3 miles of the May River shoreline from 9:00am – 11:30am, for a total of 1,200 volunteer hours. The volunteers collected 2,080 lbs. of solid waste (440lbs of which was recycled) and marked more 50 storm drains in Old Town Bluffton.	325

POC #2, POC #3, GSA	May River Cleanup Participation Challenge Reward presentation ( <i>Youth</i> )		Completed	The Town of Bluffton and Coastal Kingdom gave MC Riley Elementary School a special presentation on 5/17/2017 as a prize for winning the May River Cleanup Participation Challenge Reward.	150
POC #2, POC #3, POC #4, POC #5, GSA	Provided Enviroscope demonstrations for the St. Helena Elementary Career Day ( <i>Youth</i> )	The Enviroscope is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	This presentation was given on 3/24/2017 at St. Helena Elementary School to their fifth graders.	41
POC #2, POC #3, POC #4, POC #5, GSA	Provided Enviroscope demonstrations for the Tanger Outlet's Touch-A-Truck ( <i>Residents, youth</i> )	The Enviroscope is an interactive watershed model portraying mostly non-point source pollution and some point source pollution.	Completed	These demonstrations were given on 4/1/2017.	120
POC #2, POC #3, POC #4, POC #5, GSA	Provided Enviroscope demonstrations for the Outside Foundation's Kids in Kayaks program ( <i>Youth</i> )	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	These presentations were given on 4/24/2017 at the Shelter Cove Marina.	50
POC #2, POC #3, POC #4, POC #5, GSA	Provided Enviroscope demonstrations for the Outside Foundation's Kids in Kayaks program ( <i>Youth</i> )	The goal of the Kids in Kayaks program is to bring local youth outside and to have them participate in experiential learning about their local ecosystems and natural resources.	Completed	These presentations were given on 10/6/2017 at the Shelter Cove Marina.	29
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Petroleum products	Good housekeeping training ( <i>Technical staff, engineers, developers, supervisory staff, administrators, stormwater managers</i> )	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	On 11/14/17, the Town of Bluffton Project Management Division staff were trained on general stormwater awareness, good housekeeping practices, and IDDE. There was a focus on sediment and erosion control.	7
POC #2, POC #3, POC #4, POC #5, POC #6, GSA, Petroleum products, Pesticides, FOG, IDDE	Good housekeeping training ( <i>Field staff, maintenance, facilities</i> )	To educate staff on general stormwater issues, IDDE, and good housekeeping practices and to be compliant with MCM 6.	Completed	On 10/16/17, the Town of Bluffton Public Works staff was trained on general stormwater awareness, good housekeeping practices, and IDDE.	8
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's field trips program ( <i>Youth</i> )	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region	Ongoing	Through hands-on experiments and discovery, students not only see the amazing life of our local environment, but also experience it firsthand. Participants include in all grades from public, private and charter schools and homes-schooling programs, as	2291

		and the Atlantic Ocean.		well as after-school and summer programs.	
POC #2, POC #3, POC #5, GSA	Port Royal Sound Foundation Maritime Center's education events ( <i>General public</i> )	To advance the awareness of Port Royal Sound and its contributions to the environmental, cultural and economic well-being of our area, the region and the Atlantic Ocean.	Ongoing	Special events that regularly take place at the Center with water-quality and related themes. Examples of these programs include: Tuesday Talks (A classroom series led by area experts on a variety of topics), Eco Boat Excursions (A scientific expedition of the Port Royal Sound area via a classroom on a boat), Dolphin Research Cruises (An Eco-Boat tour meets dolphin research!), and Nautilus LIVE (Researchers aboard E/V Nautilus visit our classroom via LIVE streaming video)	1544
POC #2, POC #4, POC #5, POC #6, GSA	Installation of New Riverside Pond floating wetlands ( <i>Residents</i> )	This project had community members involved in installing floating wetland BMPs to help maintain the New Riverside stormwater pond. Their effectiveness will be determined through water quality testing.	Completed	Volunteers from the North Face Store, led by the Town of Bluffton, installed floating wetland BMPs in the New Riverside Pond on 5/8/17.	2
POC #2, POC #4, POC #5, POC #6, GSA	Community Grants program ( <i>Residents, businesses</i> )	This application-based mini-grant program will pay contractors to install demonstration stormwater BMPs (rain gardens, rain barrels, shorescaping, geese fencing, pet waste stations, downspout planter boxes, and floating wetlands) on highly visible private property (such as apartment complexes, restaurants, doctor's offices, etc.)	In Planning	The budget is now available to subsidize downspout planter box, pet waste station, and rain barrel installations.	N/A

POC #2, POC #5, GSA	Master Naturalist program ( <i>Residents, teachers, technical staff, field staff, facilities, maintenance</i> )	The South Carolina Master Naturalist Program aims to create a statewide corps of volunteers sponsored through the Clemson Extension Service providing education, outreach, and service dedicated to the beneficial management of natural resources and natural areas within their communities. Interested South Carolinians become Master Naturalists through training and volunteer service	Ongoing	The Lowcountry Institute holds the 12 session Master Naturalist courses four times a year. Individuals who participate in the program bring diverse skills and experiences that contribute time, energy and ideas in maintaining the native eco-systems throughout the South. After receiving training, Master Naturalists may participate in many different types of volunteer activities. These might include assisting in a nature outreach program at a park, museum, nature center or school; assisting a scientist collecting bird census data; collecting data on water quality or many others.	100
POC #2, POC #5, POC #6	Lowcountry Master Gardener community services ( <i>Residents, youth, higher education students, elected &amp; appointed officials</i> )	The Master Gardener program was designed to use the services of trained volunteers who have horticultural knowledge and a willingness to share that knowledge with other county residents through Cooperative Extension.	Ongoing	The Master Gardeners in Beaufort County remain active all year long and provide community involvement services such as: answering home horticulture calls at the Extension office, speaking to garden and civic clubs, speaking with youth or senior groups, and assisting communities with horticultural projects.	1295
POC #2, POC #5, POC #6, GSA	Port Royal Elementary School rain garden ( <i>Youth</i> )	As part of the Green Steps Schools program, the Lowcountry Stormwater Partners will assist the third graders of this school design and install a demonstration rain garden.	In Planning	Site is selected and materials secured. Will be planted in spring 2018.	
POC #3	Whale Branch Elementary School Green Steps School Projects Kick-Off ( <i>Youth</i> )	The goal of this meeting was to plan and implement projects for Whale Branch Elementary School's Green Step Schools certification. Its effectiveness will be measured by the success of its projects.	Completed	On 12/1/2017, Whale Branch Elementary School committed to and began implementing the following three projects: 1. Recycling - elimination of litter & trash 2. Composting - elimination of litter & trash 3. Rain Barrel - collect rain water and use to water garden plot (rain barrel installed same day) This was done with the Beaufort County Soil and Water Conservation District.	200
POC #3	Beach Sweep ( <i>Residents, youth, higher education students, teachers, commercial businesses, boat owners, operators, marinas, pet owners</i> )	The goal of the beach sweep is to engage and involve citizens in removing litter from their environment and marking storm drain to prevent further litter and stormwater pollution. Its effectiveness will be determined through	Cancelled	The 2017 beach sweep was cancelled due to Hurricane Irma and the subsequent maintenance concerns.	N/A

		number of volunteers and pounds of litter removed.			
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials and high-level staff</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/5/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials and high-level staff</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/16/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials and high-level staff</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 10/25/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials and high-level staff</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 11/1/17.	25
POC #3	Beaufort County Council workshop on banning single use plastic bags ( <i>Elected &amp; appointed officials and high-level staff</i> )	To discuss and work on language for a potential ban on single use plastic bags. Its effectiveness will be determined by a resolution on the matter.	Completed	Beaufort County Council met to discuss banning single use plastic bags on 11/8/17.	25
POC #3	Adopt-A-Highway program ( <i>Residents</i> )	The Adopt-A-Highway program is a part of Palmetto Pride and Keep Beaufort County Beautiful. Its mission is to eradicate litter and promote beautification in South Carolina. It conducts litter pick-ups and measures effectiveness in number of volunteers, number of active volunteer groups, number of volunteer hours, and pounds of litter removed.	Ongoing	There were 2,996 volunteers who were part of 85 active volunteer groups who spent 3,996 hours picking up 89,160 lbs. of trash.	2996
POC #3, GSA	Storm drain marking ( <i>General public, business</i> )	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	Completed	The Clemson Extension Water Resources Agent partnered with the Shelter Cove Marina and marked five storm drains with one volunteer on 2/23/2017.	1

POC #3, GSA	Storm drain marking ( <i>General public, business</i> )	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	Completed	The Town of Hilton Head Island partnered with 8 volunteers to mark storm drain on of three marinas on Hilton Head Island on 9/1/17.	8
POC #3, GSA	Storm drain marking ( <i>General public, business</i> )	Storm drain marking seeks to prevent litter and other stormwater runoff pollution from entering waterways by serving as a visual reminder of how the storm sewers connect directly to local waterways.	In Planning	Kits are ready and looking for volunteer groups. Will be recruiting volunteers at the 1/23/18 Lowcountry Master Naturalist Association Meeting.	
POC #3, POC #5, GSA	South Carolina Adopt-A-Stream citizen monitoring ( <i>Residents</i> )	South Carolina Adopt-a-Stream (SC AAS) creates a network of watershed stewardship, engagement, and education through involvement. SC AAS volunteers can play an important role in monitoring and tracking water quality while sharing information about local water resources with their communities. In providing baseline information about stream conditions, volunteers, local communities, educators, and local government agencies can partner to protect and restore our waters. Its effectiveness will be monitored by the number of trained volunteer groups.	Ongoing	Marketing materials for this program are on display at the Clemson Extension Office. However, no volunteer groups can form until a saltwater monitoring program is created.	N/A
POC #4, POC #5, POC #6, GSA	Carolina Yards Facebook ( <i>Homeowners</i> )	The goal of this page is to provide a forum for public participation, to increase awareness of simple and effective actions to help guide residents towards a low maintenance and environmentally friendly yard, and to increase awareness of course offerings. Its effectiveness will be tracked through “Likes”.	Ongoing		541

POC #4, POC #5, POC #6, GSA	Carolina Yards program (Homeowners)	Clemson Extension's Carolina Yards program works with residents to create healthy, watershed-friendly landscapes. Using simple and effective gardening methods, create a low maintenance yard that works with nature, rather than against it. Carolina Yards also regularly offers a five week, online course designed to help Carolina gardeners learn to grow and maintain a low maintenance and low impact yard. The program's success will be measured in newly certified yards.		No courses were offered this year, but there were 22 newly certified yards.	22
POC #5, POC #6, GSA	Making It Grow! (Homeowners)	Its use will be tracked by views (number reported is the average number of persons per household applied to the projected number of households that viewed Making It Grow! during the 2016 calendar year. This number is conservative as it does not account for the SC Channel and only represents one episode's viewing).	Ongoing	*Number reported is the average number of persons per household applied to the projected number of households that viewed Making It Grow! from May 2016 through November 2017. This number is conservative as it does not account for the SC Channel and only represents one episode's viewing.	22162
<b>Total Number of Individuals Impacted</b>					<b>134,149</b>

### E. Control Measure Evaluation (5.3)

#### 1. Evaluate the success of this MCM. Refer to goals implemented and achieved, and adherence to the implementation schedule:

The implementation of MCM#2 was successful in the Hilton Head Urbanized Area for several reasons. The most notable success was the 2017 Beaufort Area Stormwater Pond Management Conference. The conference took place on 10/19 at USCB's Bluffton campus from 8:30am – 4:00pm. It provided a forum to give the latest information, resources and tools on pond management. The conference was jointly organized by Clemson Extension and the Lowcountry Stormwater Partners, the South Carolina Sea Grant Consortium, the South Carolina Department of Natural Resources, and the Ace Basin National Estuarine Research Reserve to serve a need within the Lowcountry community and to maintain the implantation schedule on the 2016-2018 Lowcountry Stormwater Partners Strategic Regional Stormwater Outreach Plan. The 2017 conference was part of a series of six pond conferences along the South Carolina coast that have been taking place since 2012. The conference was designed to help stormwater pond owners/HOA representatives, property management professionals, and pond management professionals learn more about current pond management techniques. The conference was also split into two tracks, one for pond owners and one for the more technical pond managers,

to better serve these audiences. Each participant received presentations and advice from local and regional experts in pond management, opportunities to interact with organizations and businesses in the pond management industry, a resource package with information and reference materials, lunch, and continuing education credits. Participants also went outside and participated in a stormwater pond inspection and created their own results form. Conference topics included integrated weed management, shoreline stabilization, and wildlife management. 111 people pre-registered for the conference and 98 people attended. Out of the 98 participants, 62 people turned in evaluations. The evaluations revealed that 43% of respondents were HOA/community members and 24% were business representatives. 88% of respondents agreed that the conference was a good use of their time and 100% of respondents reported knowledge gain. Finally, 87% of respondents reported that they learned something at the conference that they would apply in the future.

An unforeseen consequence of this conference was two large HOA communities reaching out to the Lowcountry Stormwater Partners to become more involved in stormwater pond management. The Rose Hill Plantation Board reached out to the Clemson Extension Water Resources Agent and invited her to tour their ponds and give feedback on their current management strategies as well as to comment upon future management ideas that were inspired by their attendance at the conference. Similarly, the Coosaw Point HOA Board also reached out to the Clemson Extension Water Resources Agent for advice on designing and installing a shorescape, a BMP that was described at the conference. This is a perfect example of community involvement leading to behavior changes.

Another example of a successful community involvement program is how the Lowcountry Stormwater Partners hosted the 2017 Spring course of the Master Pond Manager program. In this course, 32 participants actively engaged in self-paced lectures, discussion, and quizzes in the online classroom, managed by the Lowcountry Stormwater Partners. They covered topics such as pond design, inspection, and maintenance as well as limnology, integrated aquatic plant management, fish management, and BMP function, design, and installation. However, on 5/11/17 and 5/12/17, course participants had the opportunity to meet with their instructors face-to-face and to apply what they learned in the classroom to real-world situations. On 5/11/17, we hosted the Master Pond Manager Stormwater Pond Field Day. At this event, 25 participants learned how to read construction drawings and how to perform detailed stormwater pond inspections. The highlight of the day, though, was the opportunity to install a shoreline buffer, or shorescape. Working together, the 25 participants planted a 300sqft shorescape along a pond at the Beaufort County Administration Complex with native plants. Then, on 5/12/17, we hosted the Master Pond Manager Recreational Field Day. At this event, 16 participants toured Spring Island and discussed pond design, rookery management, and practiced delineating wetlands. The highlight of the day, though, was the opportunity to sample fish populations in the pond using fish traps, seine nets, and cast net. The students were encouraged to identify and measure fish as well as draw some preliminary conclusions about the state of the ponds' fisheries.

The Lowcountry Stormwater Partners furthered engaged the community in stormwater pollution prevention by partnering with the Town of Bluffton, Clemson Extension, Beaufort County, Conservation District, Port Royal Sound Foundation, USC-B, DNR, Savannah Riverkeeper, Walmart, Starbucks, Marshgrass Adventures, Be Green Packaging, Adams Outdoor Advertising, Bojangles, Outside Hilton Head, Beaufort County Solid Waste & Recycling, Keep Beaufort County Beautiful, Palmetto Pride, Experience Green, American Rivers, i2 Recycle, The Outside Foundation, and MC Riley Elementary to put on the 17<sup>th</sup> Annual May River Cleanup. The 17th Annual May River Cleanup took place on 4/22/17. On that day, 350 volunteers picked up litter along 3 miles of the May River shoreline from 9:00am – 11:30am, for a total of 1,200 volunteer hours. The volunteers collected 2,080 lbs. of solid waste (440lbs of which was recycled) and marked more 50 storm drains in Old Town Bluffton. The Lowcountry Stormwater Partners led a group of five volunteers at the May River cleanup that marked these 50 storm drains.

Finally, the Lowcountry Stormwater Partners continued to make strides towards fulfilling MCM#2 by completing goals such as the upkeep of a consortium website, social media platforms, and regular e-newsletters. These platforms allow the public to seek out and engage with the Lowcountry Stormwater Partners from a



computer or smart phone. Being present at partner and community events like the Outside Foundation's Kids in Kayaks program, the Tanger Outlets' Touch-A-Truck Event, the St. Helena Elementary School Field Day, and the SCASM exhibitor's hall is also a great way to be present and available for the public. Events like these are especially useful as they allow for educational outreach at the same time, which can spark a conversation on how anyone can become involved in stormwater activities.

**2. Provide an evaluation of where the program needs improvement and explain any actions that will be taken to achieve objectives:**

The Lowcountry Stormwater Partners reached its' improvement goals outlined in the 2016 annual report, which were expanding its outreach efforts as well as directly engaging with specific target audiences. Our total impacts have significantly increased from 103,694 to 134,149. This is an increase of approximately 30%! These events not only combined an educative aspect, but also skill building and partnership affirmation. The Lowcountry Stormwater Partners will continue these efforts as well as continue to update its social media platforms and website to keep citizens fully engaged and involved. Finally, the Lowcountry Stormwater Partners is also continuing to work to become more of a presence at partner events and more recognizable and approachable in the public's eye.

However, one area of improvement that the Lowcountry Stormwater Partners can work on is community engagement within neighborhoods. That's why in 2018, we plan to launch the Lowcountry Stormwater Partners community grants program. This application-based mini-grant program will pay for the installation of demonstration stormwater BMPs on highly visible private property such as apartment complexes, restaurants, doctor's offices, etc. The Lowcountry Stormwater Partners will also install improved pet waste stations in Beaufort County as part of the 2018 Carolina Clear mass media campaign.



## MEMORANDUM

Date: February 14, 2018

To: Stormwater Management Utility Board

From: David Wilhelm, P. E., Public Works Director

Re: **Maintenance Project Report**

This report will cover one major project and thirteen minor projects. The Project Summary Reports are attached.

### **Major Project – Storm Drainage System Improvements:**

- **Oakmont Subdivision – Port Royal Island (SWUD 6):** This project improved 2,182 feet of drainage system. The scope of work included cleaning out 1,781 feet of roadside ditch and 175 feet of channel, installing 1 access pipe, replacing 1 crossline pipe, jetting 4 crossline pipes, handseeding and hydroseeding for erosion control. The total cost was **\$22,226.08**.

### **Minor or Routine Projects:**

- **Sheldon Bush Hog – St Helena Island (SWUD 5):** This project improved 128,718 feet of drainage system. The project scope included bush hogging 128,718 feet of channel. The total cost was **\$57,753.16**.
- **Lady's Island Vacuum Truck – Lady's Island (SWUD 7):** This project improved 1,642 feet of drainage system. The scope of work included cleaning out 4 manholes, 42 catch basins, jetting 5 driveway pipes, 17 crossline pipes, 8 feet of channel pipe, 76 feet of road pipe and 1,558 feet of roadside pipe. The total cost was **\$11,014.88**.
- **Bluffton Vacuum Truck – St Helena Island (SWUD 4):** This project improved 1,394 feet of drainage system. The scope of work included cleaning out 1 manhole, 42 catch basins, jetting 14 crossline pipes, 158 feet of channel pipe, 884 feet of roadside pipe and 352 feet of road pipe. The total cost was **\$8,220.47**.
- **Keans Neck Road Channel #1 – Sheldon (SWUD 5):** This project improved 2,236 feet of drainage system. The scope of work included cleaning out 2,236 feet of channel. The total cost was **\$6,562.73**.
- **Chisholm Hill Road Channel #1 – Port Royal Island (SWUD 6):** This project improved 5,986 feet of drainage system. The scope of work included cleaning out 5,986 feet of channel. The total cost was **\$5,570.99**.
- **Hewlett Road – Lady's Island (SWUD 7):** The scope of work included replacing 1 driveway pipe. The total cost was **\$4,800.15**.

- **Clydesdale Circle – Port Royal Island (SWUD 6):** This project improved 1,460 feet drainage system. The scope of work included cleaning out 1,460 feet of channel. The total cost was **\$4,177.60**.
- **Simmons Road Channel #1 – St Helena Island (SWUD 8):** This project improved 2,566 feet of drainage system. The scope of work included cleaning out 2,566 feet of channel. The total cost was **\$3,690.12**.
- **Folly Road Channel #1 – St Helena Island (SWUD 8):** This project improved 1,413 feet of channel. The scope of work included cleaning out 1,413 feet of channel and jetting 1 access pipe. The total cost was **\$2,023.87**.
- **George Williams Lane – Sheldon (SWUD 5):** This project improved 445 feet of drainage system. The scope of work included cleaning out 445 feet of channel and repairing washouts. The total cost was **\$1,565.51**.
- **Folly Road – St. Helena Island (SWUD 8):** This project improved 1,070 feet of drainage system. The scope of work included cleaning out 1,070 feet of channel. The total cost was **\$1,414.87**.



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

**Project Summary:** Oakmont Subdivision

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 2,182 L.F. of drainage system. Cleaned out 1,781 L.F. of roadside ditch and 175 L.F. of channel. Installed (1) access pipe. Replaced (1) crossline pipe. Handseeded and hydroseeded for erosion control. Jetted (4) crossline pipes, (16) driveway pipes and 226 L.F. channel pipe.

**Duration:** 7/27/17 - 8/21/17

<b>2018-511 / Oakmont Subdivision</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
APINS / Access pipe - installed	60.0	\$1,251.00	\$72.00	\$508.18	\$0.00	\$521.10	\$2,352.28
APJT / Access pipe - jetted	14.0	\$311.92	\$60.76	\$60.20	\$0.00	\$200.76	\$633.64
AUDIT / Audit Project	1.5	\$35.24	\$0.00	\$0.00	\$0.00	\$19.85	\$55.08
CCO / Channel - cleaned out	62.0	\$1,291.72	\$351.27	\$50.04	\$0.00	\$663.54	\$2,356.57
CPJ / Channel Pipe - Jetted	10.0	\$222.80	\$43.40	\$42.30	\$0.00	\$143.40	\$451.90
ERCON / Erosion control	15.0	\$342.20	\$37.63	\$50.40	\$0.00	\$132.30	\$562.53
HAUL / Hauling	115.0	\$2,516.10	\$908.36	\$1,076.36	\$0.00	\$676.14	\$5,176.96
HYDR / Hydroseeding	40.0	\$895.00	\$63.60	\$122.47	\$0.00	\$396.90	\$1,477.97
PP / Project Preparation	38.1	\$866.05	\$72.00	\$40.26	\$0.00	\$398.43	\$1,376.74
RSDCL / Roadside Ditch - Cleanout	198.0	\$4,453.52	\$932.26	\$145.19	\$0.00	\$2,167.92	\$7,698.89
UTLOC / Utility locates	2.0	\$49.40	\$4.02	\$3.66	\$0.00	\$26.46	\$83.54
<b>2018-511 / Oakmont Subdivision Sub Total</b>	<b>555.6</b>	<b>\$12,234.95</b>	<b>\$2,545.30</b>	<b>\$2,099.04</b>	<b>\$0.00</b>	<b>\$5,346.79</b>	<b>\$22,226.08</b>
<b>Grand Total</b>	<b>555.6</b>	<b>\$12,234.95</b>	<b>\$2,545.30</b>	<b>\$2,099.04</b>	<b>\$0.00</b>	<b>\$5,346.79</b>	<b>\$22,226.08</b>

Before

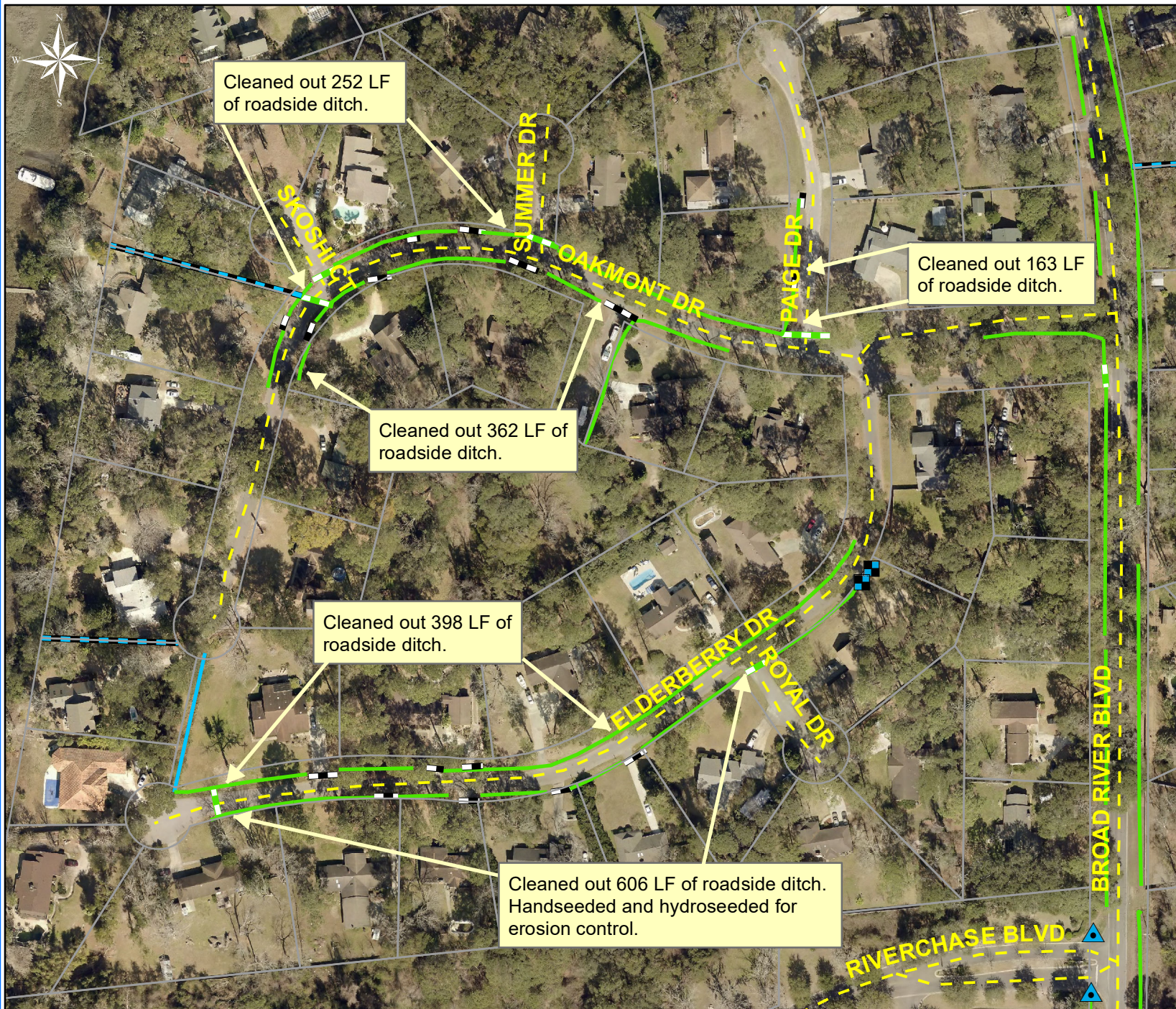


During



After





Project: Oakmont Subdivision  
Map #1

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2018-511

Township/SW Dist:  
Port Royal Island/6

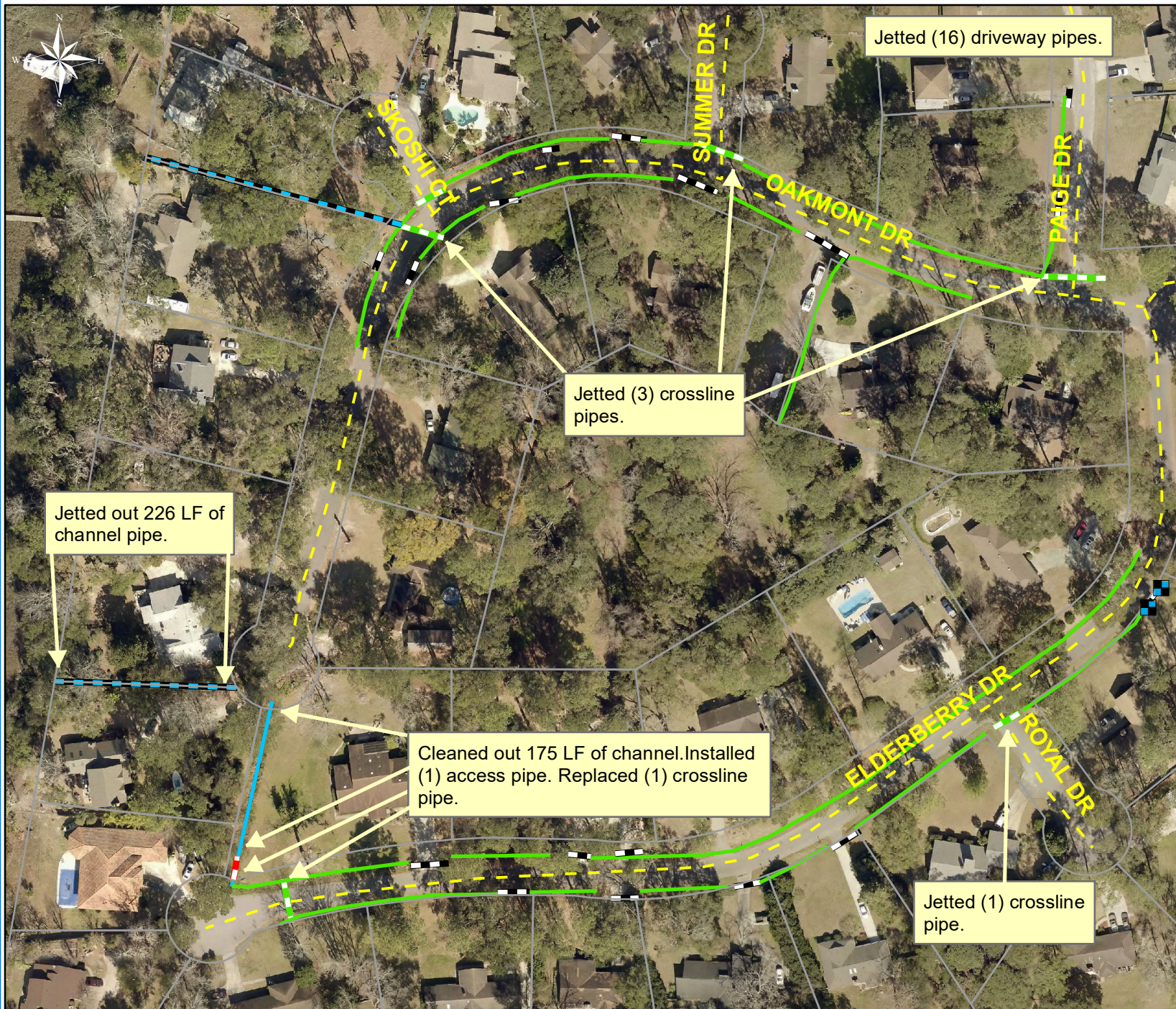
Completed:  
August 2017

Legend	
<b>Drainage Type</b>	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/16/18  
File: C:\project summaries map\Oakmont Subdivision Map #1\_2018-511



Project: Oakmont Subdivision Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2018-511

Township/SW Dist: Port Royal Island/6

Completed: August 2017

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



1 inch = 130 feet



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

**Project Summary:** Sheldon Bush Hog

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Duration:** 4/10/17 - 8/7/17

Project improved 128,718 L.F. of drainage system. Bush hogged 128,718 L.F. of channel. This project consisted of the following areas: Johnson Road (762 L.F.), Cuthbert Farm Road (680 L.F.), George Williams Lane (5,287 L.F.), William Campbell Road (1,496 L.F.), Fire Station Lane (830 L.F.), Bailey Road (3,077 L.F.), Huspah Court South (1,718 L.F.), Huspah Court North (518 L.F.), Nix Road (801 L.F.), Prescott Road (1,528 L.F.), Horsetail Road (3,463 L.H.), Albertha Fields Circle (2,246 L.F.), African Baptist Church Road (2,603 L.F.), Big Estate Road (2,210 L.F.), Joseph Lane (1,609 L.F.), Newberry Circle (1,381 L.F.), Swallowtail Lane (2,136 L.F.), Gray Road (3,325 L.F.), Wimbee Landing Road (18,102 L.F.), Paige Point Bluff (427 L.F.), Mitchell Road (4,381 L.F.), Honeybee Island Road (535 L.F.), Old Dawson Acres (4,550 L.F.), Jasmine Hall Road (8,348 L.F.), River Oak Road (2,249 L.F.), Pap-Kee Lane (1,074 L.F.), Dean Hall Road (277 L.F.), Horace Dawson Lane (4,210 L.F.), Rail Bed Road (1,475 L.F.), Robinson Hill Court (977 L.F.), Coker Lane (1,552 L.F.), Dan Drive (515 L.F.), Oakhurst Road (1,542 L.F.), Coakley Drive (613 L.F.), Spann Circle (1,680 L.F.), Lightsey Road (4,394 L.F.), Keans Neck Road (880 L.F.), Mount Pisgah Church Road (602 L.F.), Middlefield Circle (5,781 L.F.), Hunt Ter (3,910 L.F.), Gum Tree Lane (4,966 L.F.), Browns Island Road (2,487 L.F.), Stroup Road (1,700 L.F.), Big Estate Circle (1,926 L.F.), Twickenham Plantation (9,206 L.F.) and Huspah Drive (1,908 L.F.)

<b>2017-303A / Sheldon Bush Hog</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	3.0	\$70.47	\$0.00	\$0.00	\$0.00	\$39.69	\$110.16
CBH / Channel- bushhogged	1,205.0	\$25,649.39	\$14,366.96	\$2,847.30	\$0.00	\$14,779.35	\$57,643.00
<b>2017-303A / Sheldon Bush Hog</b>	<b>1,208.0</b>	<b>\$25,719.86</b>	<b>\$14,366.96</b>	<b>\$2,847.30</b>	<b>\$0.00</b>	<b>\$14,819.04</b>	<b>\$57,753.16</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>1,208.0</b>	<b>\$25,719.86</b>	<b>\$14,366.96</b>	<b>\$2,847.30</b>	<b>\$0.00</b>	<b>\$14,819.04</b>	<b>\$57,753.16</b>

Before



During



After





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

**Project Summary:** Ladys Island Vacuum Truck - Woodbine Drive, Friendship Lane, Brickyard Point Road North, Honeysuckle Lane, Airport Circle, Shorts Landing Road, Marsh Drive, Neddlerush Court, Turtle Lane, Ethel Grant Lane, Dog Creek Road, Factory Creek Road and Ashley Drive

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 1,642 L.F. of drainage system. Cleaned out (4) manholes and (42) catch basins. Jetted (5) driveway pipes, (17) crossline pipes, 8 L.F. of channel pipe, 76 L.F. of road pipe and 1,558 L.F. of roadside pipe.

**Duration:** 12/19/16 - 6/8/17

<b>2017-307A / Ladys Island Vac Truck</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.5	\$35.24	\$0.00	\$0.00	\$0.00	\$19.85	\$55.08
CBCO / Catch basin - clean out	192.0	\$4,307.76	\$833.28	\$496.58	\$0.00	\$2,778.78	\$8,416.40
CLPJT / Crossline Pipe - Jetted	10.0	\$222.80	\$43.40	\$36.72	\$0.00	\$143.40	\$446.32
CPJ / Channel Pipe - Jetted	10.0	\$222.80	\$43.40	\$36.72	\$0.00	\$143.40	\$446.32
DPJT / Driveway Pipe - Jetted	25.0	\$570.20	\$108.50	\$81.86	\$0.00	\$369.72	\$1,130.28
SD / Soft Digging	8.0	\$178.24	\$34.72	\$12.67	\$0.00	\$114.72	\$340.35
SPSWI / Special Project - SWI	4.0	\$89.12	\$17.36	\$16.29	\$0.00	\$57.36	\$180.13
<b>2017-307A / Ladys Island Vac Truck</b>	<b>250.5</b>	<b>\$5,626.16</b>	<b>\$1,080.66</b>	<b>\$680.84</b>	<b>\$0.00</b>	<b>\$3,627.22</b>	<b>\$11,014.88</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>250.5</b>	<b>\$5,626.16</b>	<b>\$1,080.66</b>	<b>\$680.84</b>	<b>\$0.00</b>	<b>\$3,627.22</b>	<b>\$11,014.88</b>

Before



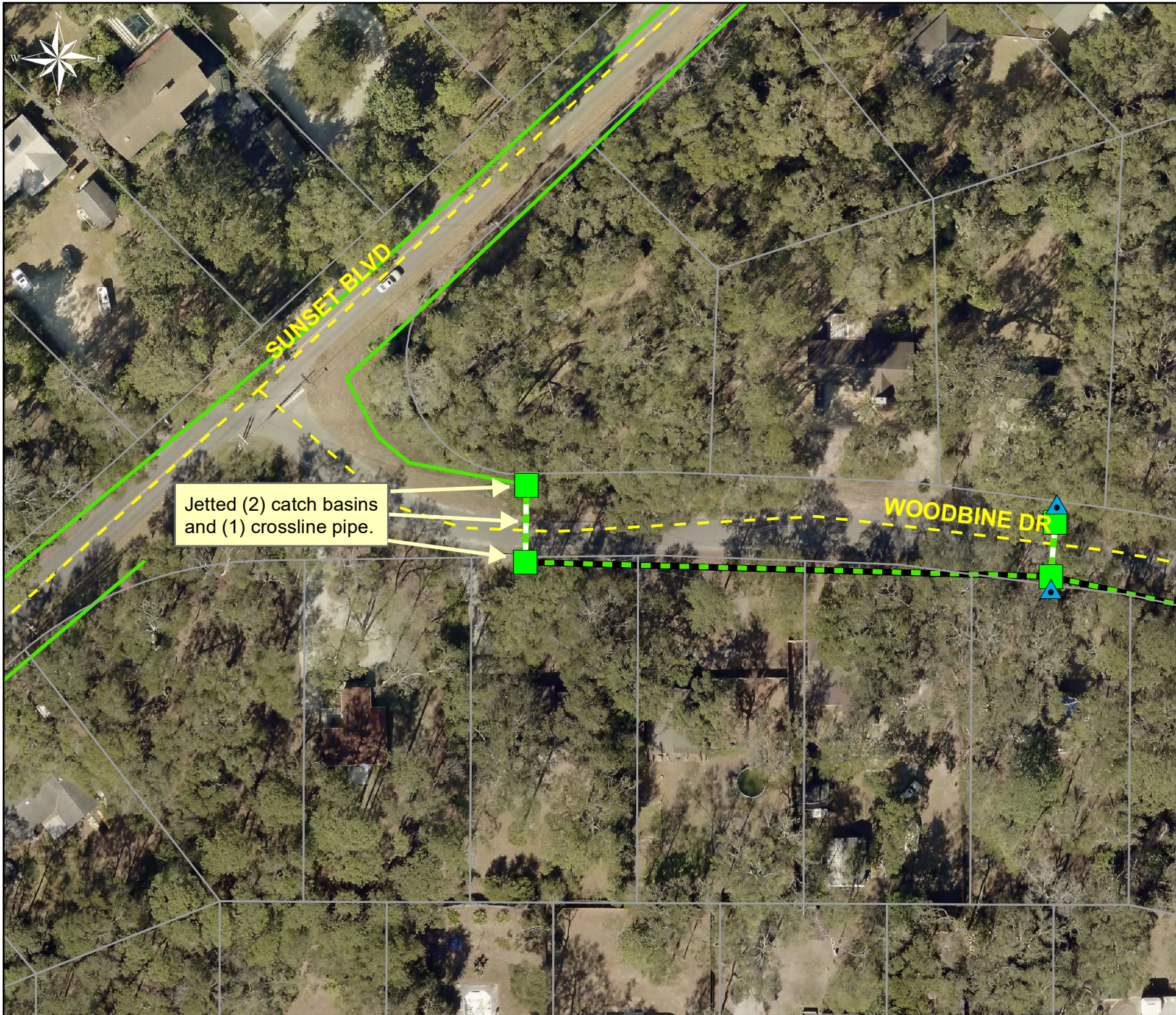
During



After







Project: Ladys Island Vacuum Truck- Woodbine Drive Map #1

Activity: Routine/ Preventive Maintenance














Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017

**Legend**

**Drainage Type**

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

0 20 40 80 120 160 Feet

1 inch = 83 feet

Prepared By: BC Stormwater Management Utility  
Date Print:01/22/18

File:C:\project summaries map\Ladys Island Vac Truck- Woodbine Dr Map#1\_2017-307A



Cleaned out (2) catch basins. Jetted (1) crossline pipe and 4 LF of channel pipe.

Cleaned out (2) catch basins. Jetted 4 LF of channel pipe.

WOODBINE DR

Project: Ladys Island Vacuum Truck- Woodbine Drive Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017

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

0 5 10 20 30 40 Feet

1 inch = 25 feet

Prepared By: BC Stormwater Management Utility

Date Print: 11/02/17

File: C:\project summaries map\Ladys Island Vac Truck- Woodbine Drive Map #2\_2017-307A



Project: Ladys Island Vacuum Truck- Brickyard Point Road North Map #3

Activity: Routine/ Preventive Maintenance














Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017

**Legend**

**Drainage Type**

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



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 11/02/17

File: C:\project summaries map\Ladys Island Vac Truck-Brickyard Point Road North Map #3\_2017-307A

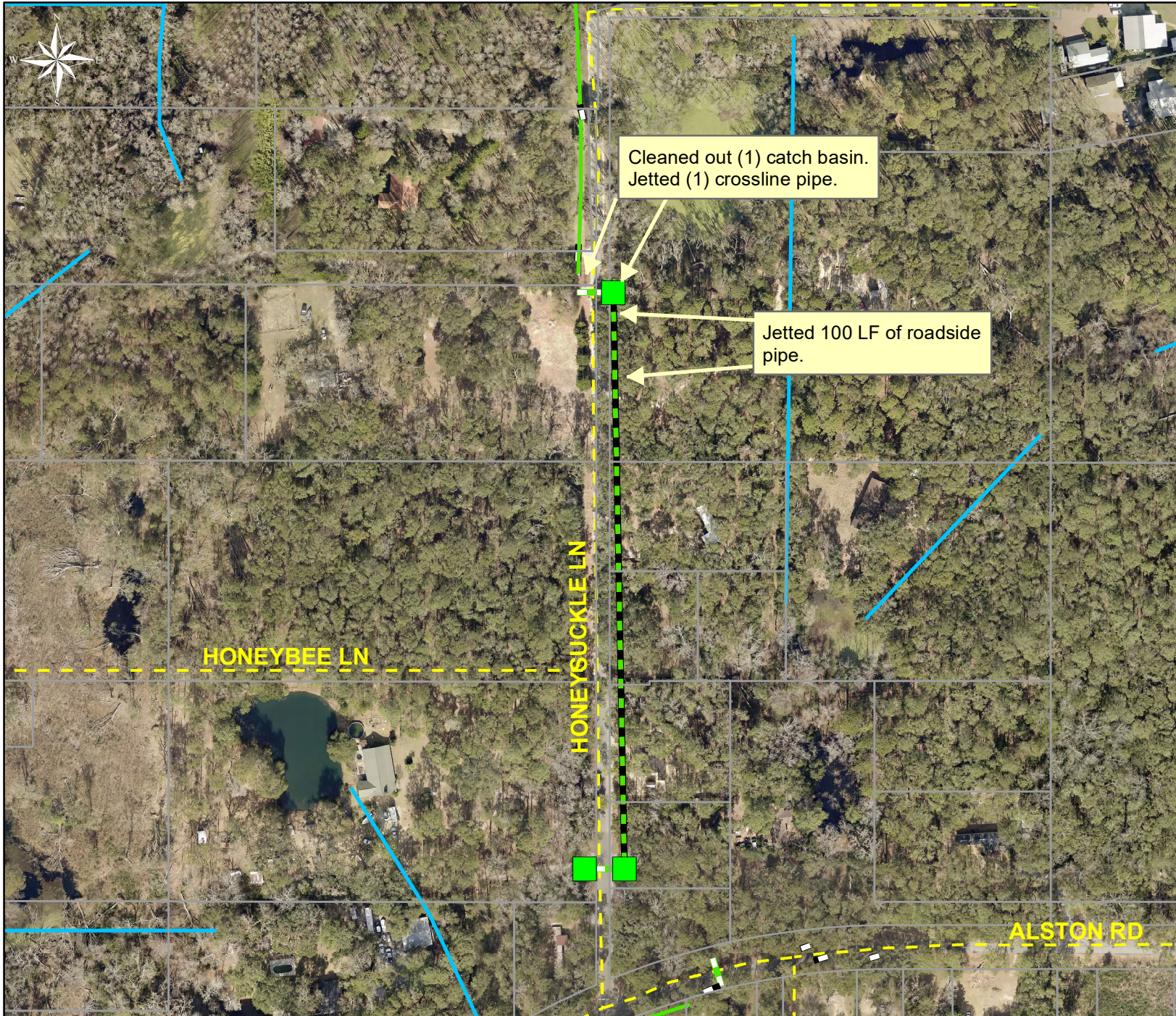
Project: Ladys Island Vacuum Truck-Honeysuckle Lane Map #4

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017



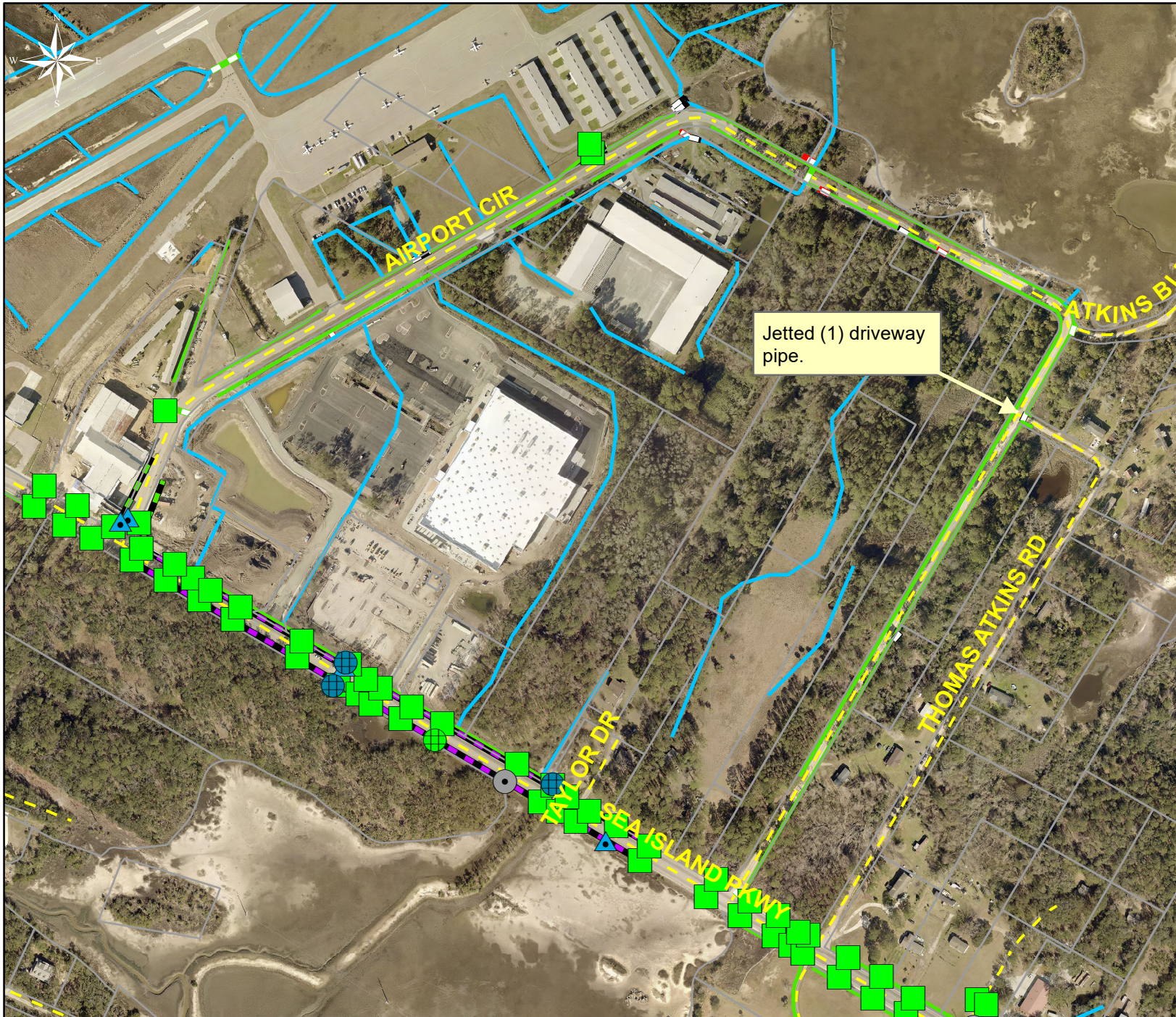
Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe

0 50 100 200 300 400 Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility  
Date Print:01/22/18

File:C:\project summaries map\Ladys Island Vac Truck-Honeysuckle Lane Map#4\_2017-307A



Project: Ladys Island Vacuum Truck- Airport Circle Map #5

Activity: Routine/ Preventive Maintenance














Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017

**Legend**

**Drainage Type**

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



1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/22/18

File: C:\project summaries map\Ladys Island Vac Truck-Airport Circle Map#5 2017-307A

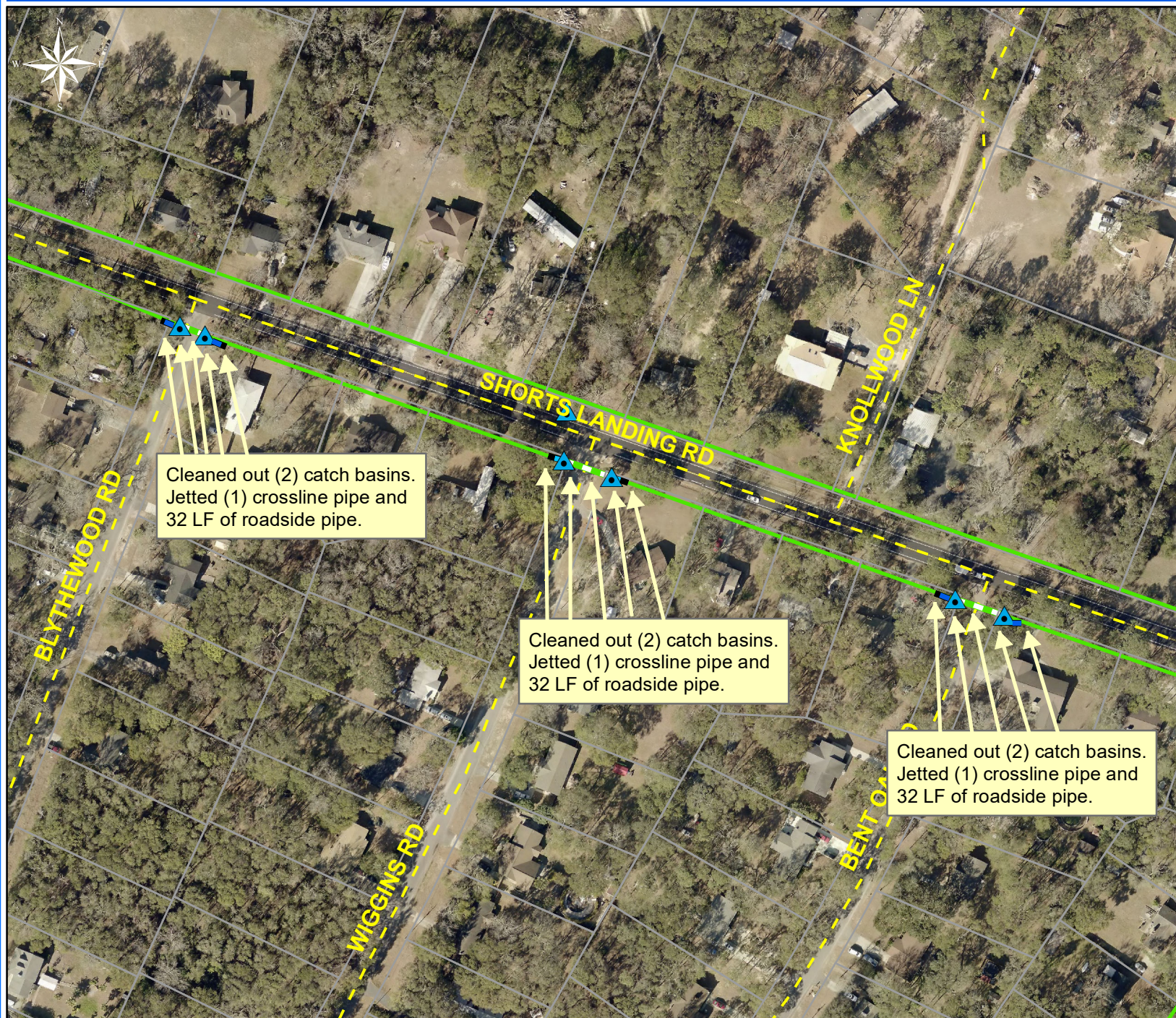
Project: Ladys Island Vacuum Truck-Shorts Landing Road Map #6

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017



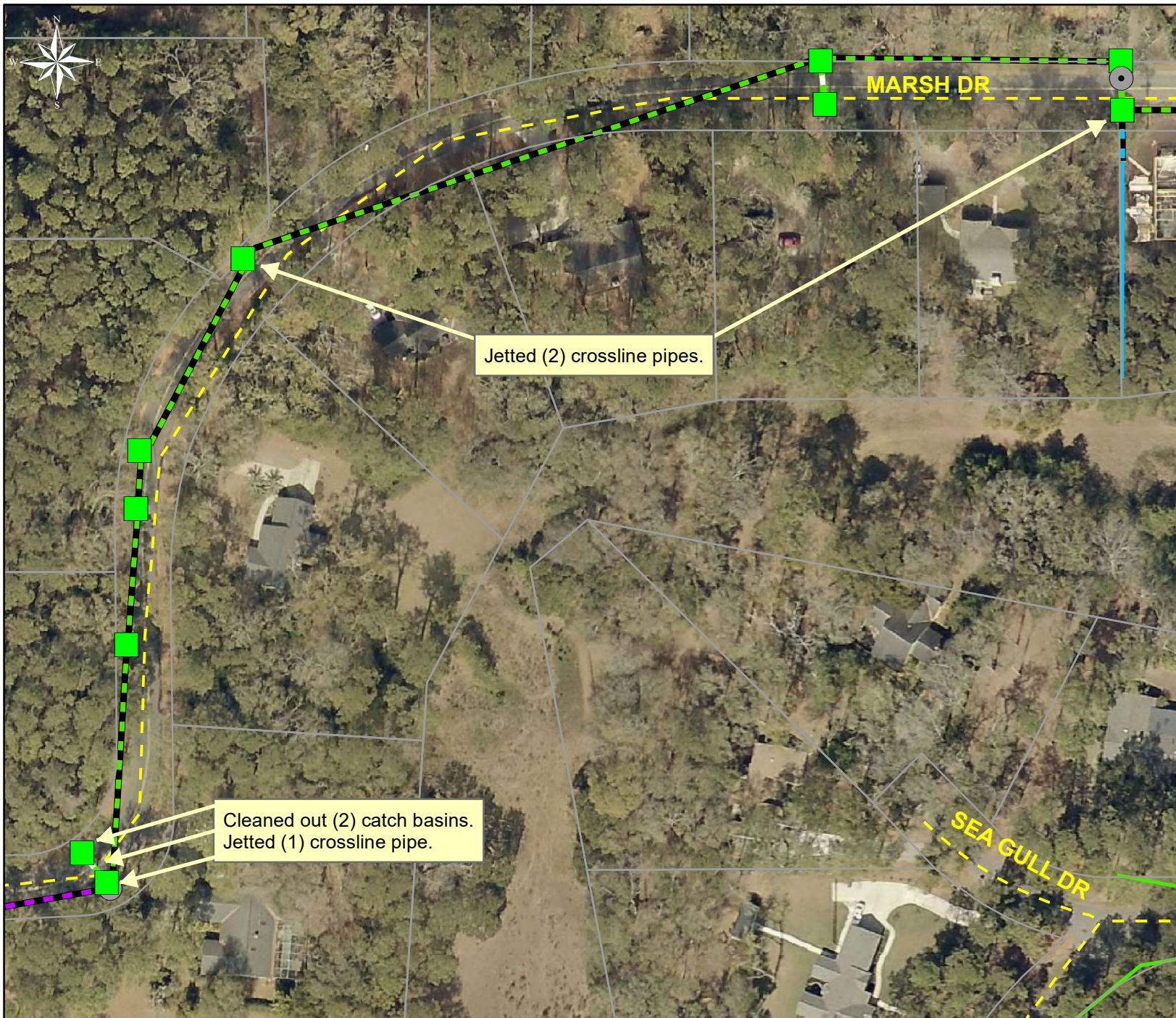
Legend	
Drainage Type	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/22/18

File: C:\project summaries map\Ladys Island Vac Truck-Shorts Landing Road Map #6\_2017-307A



Project: Ladys Island Vacuum Truck- Marsh Drive Map #7

Activity: Routine/ Preventive Maintenance














Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017

**Legend**

**Drainage Type**

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



1 inch = 100 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/22/18

File: C:\project summaries map\Ladys Island Vac Truck- Marsh Drive Map #7\_2017-307A

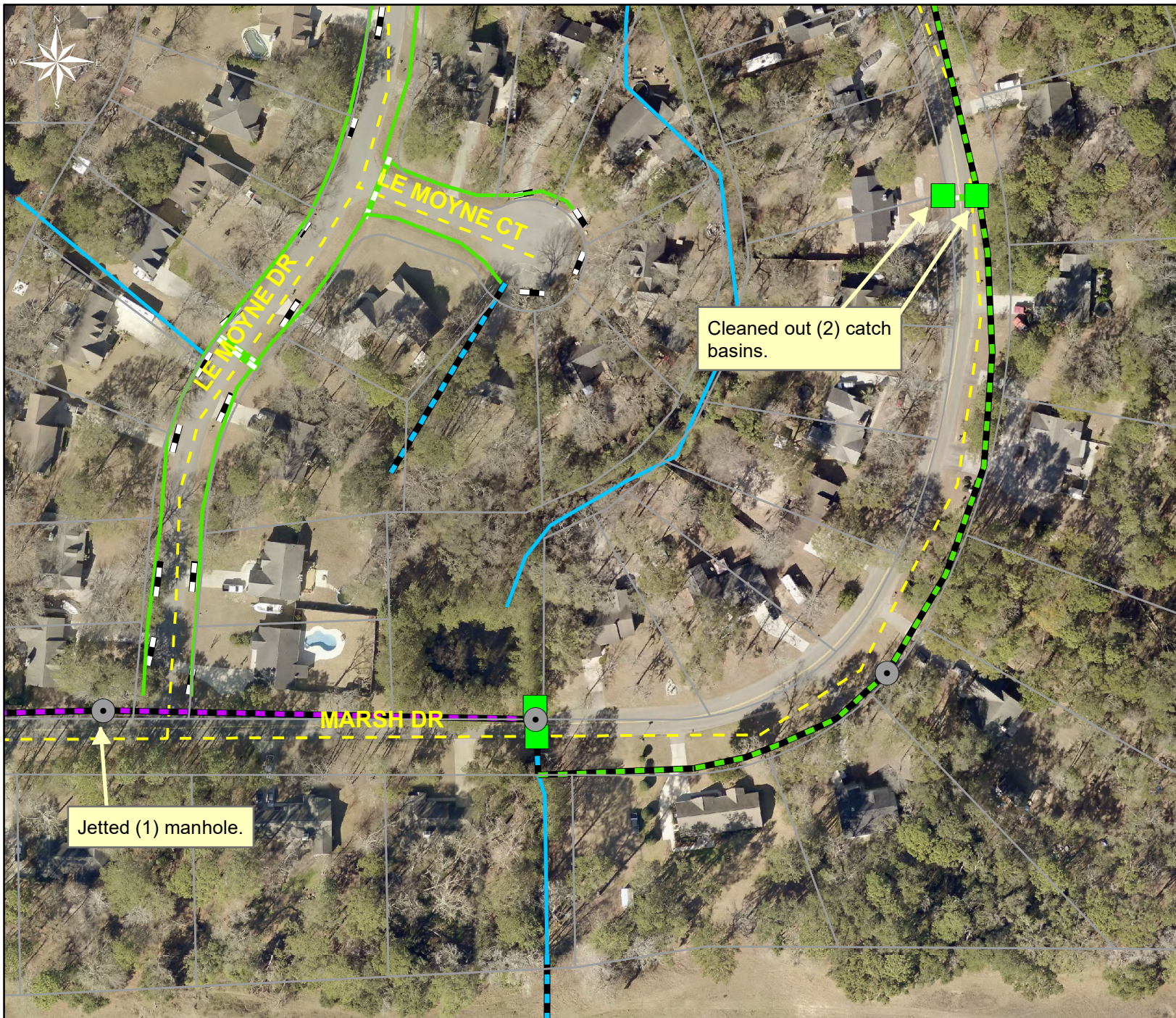
Project: Ladys Island Vacuum Truck- Marsh Drive Map #8

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017



**Legend**

**Drainage Type**

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



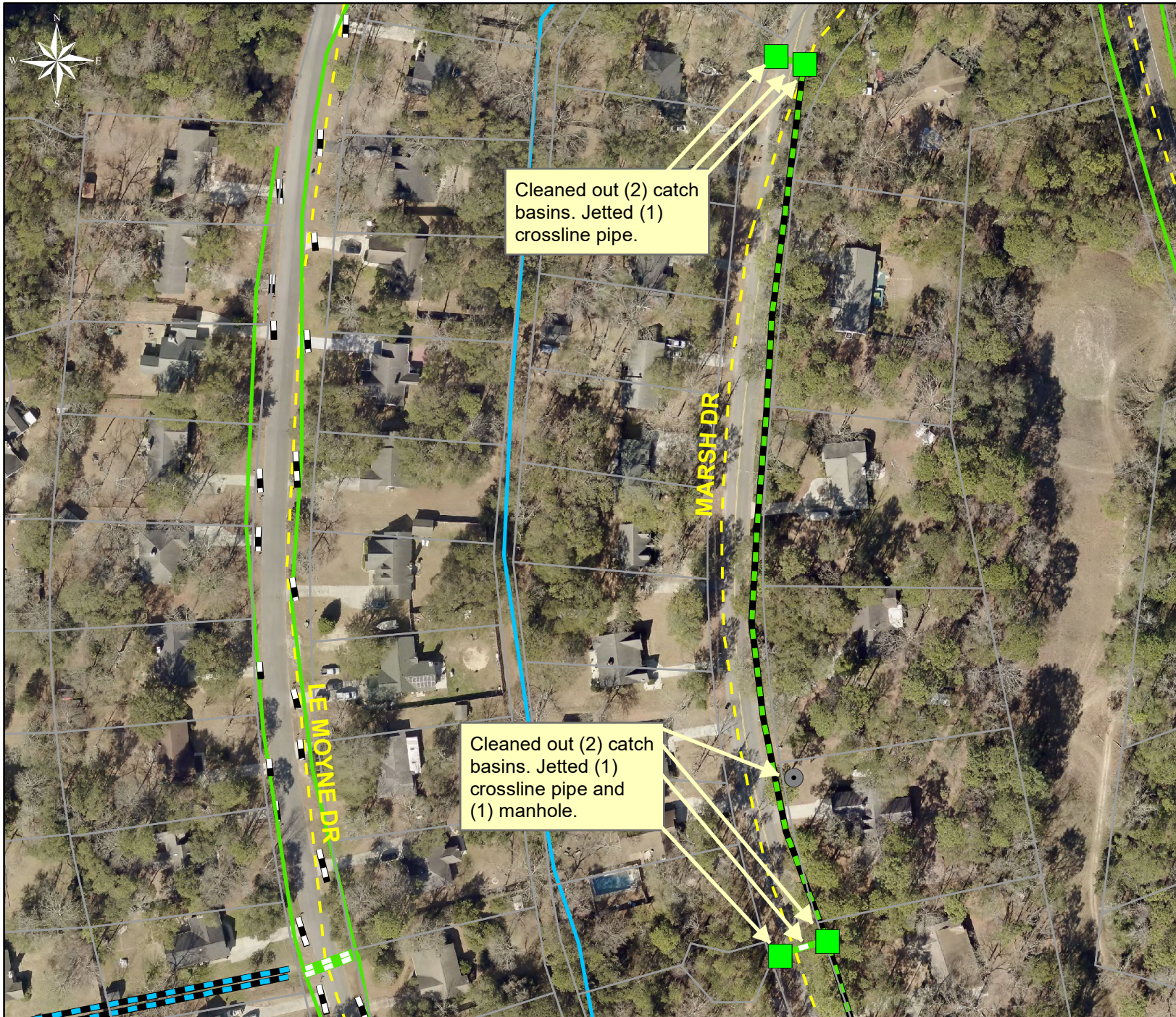
1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/22/18

File: C:\project summaries map\Ladys Island Vac Truck- Marsh Drive Map #8\_2017-307A





Project: Ladys Island Vacuum Truck- Marsh Drive Map #9

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017

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



1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/22/18

File: C:\project summaries map\Ladys Island Vac Truck- Marsh Drive Map #9\_2017-307A

Project: Ladys Island Vacuum Truck- Needlerush Court Map #10

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017



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



1 inch = 83 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/22/18

File: C:\project summaries map\Ladys Island Vac Truck- Needlerush Court Map #10\_2017-307A

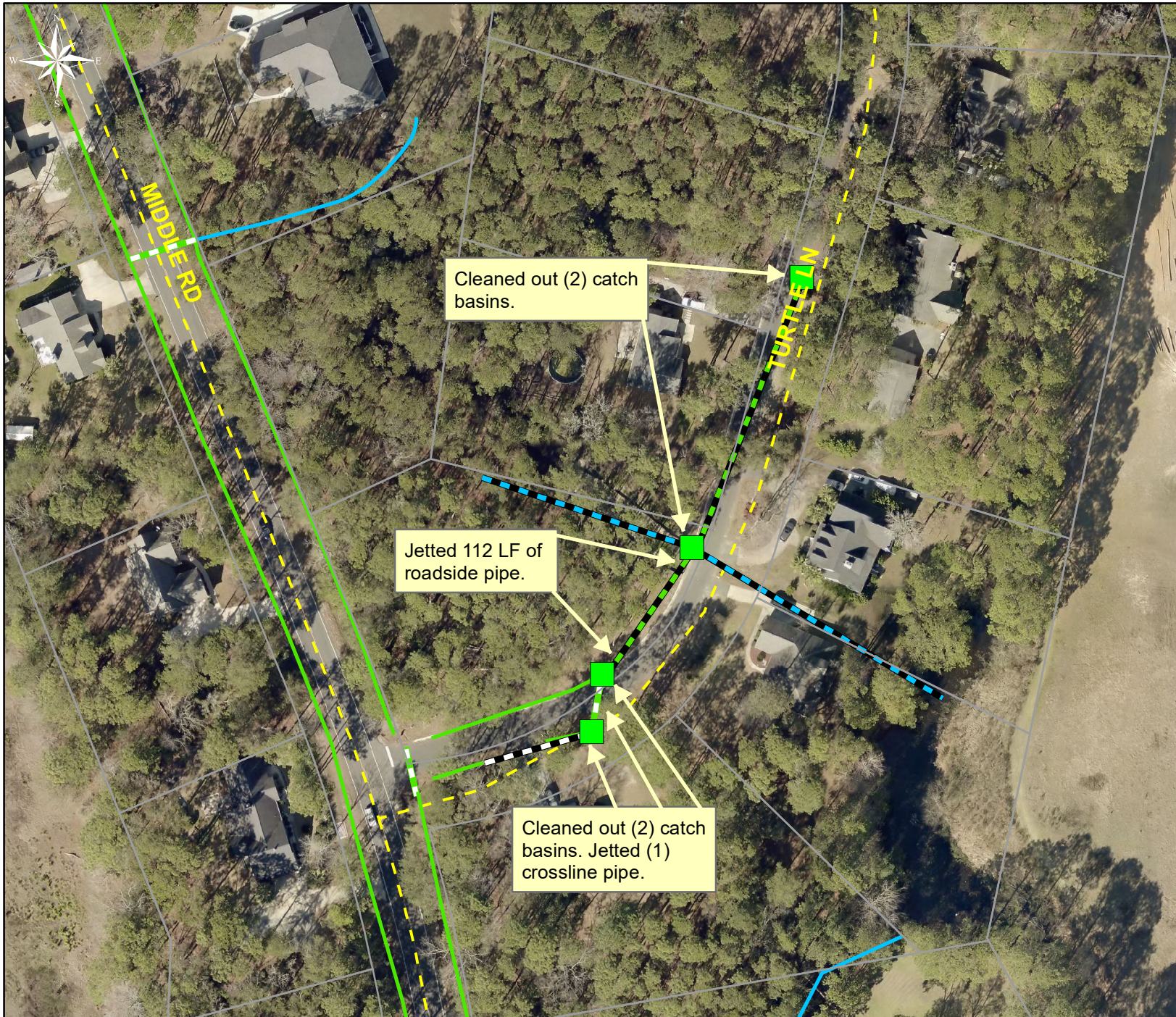
Project: Ladys Island Vacuum Truck-Turtle Lane Map #11

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017



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

0 25 50 100 150 200 Feet

1 inch = 100 feet

Prepared By: BC Stormwater Management Utility  
Date Print:01/22/18

File:C:\project summaries map\Ladys Island Vac Truck- Turtle Lane Map #11 2017-307A



Project: Ladys Island Vacuum Truck- Ethel Grant Road Map #12

Activity: Routine/ Preventive Maintenance














Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017

**Legend**

**Drainage Type**

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

Cleaned out (1) catch basin. Jetted 94 LF of roadside pipe.

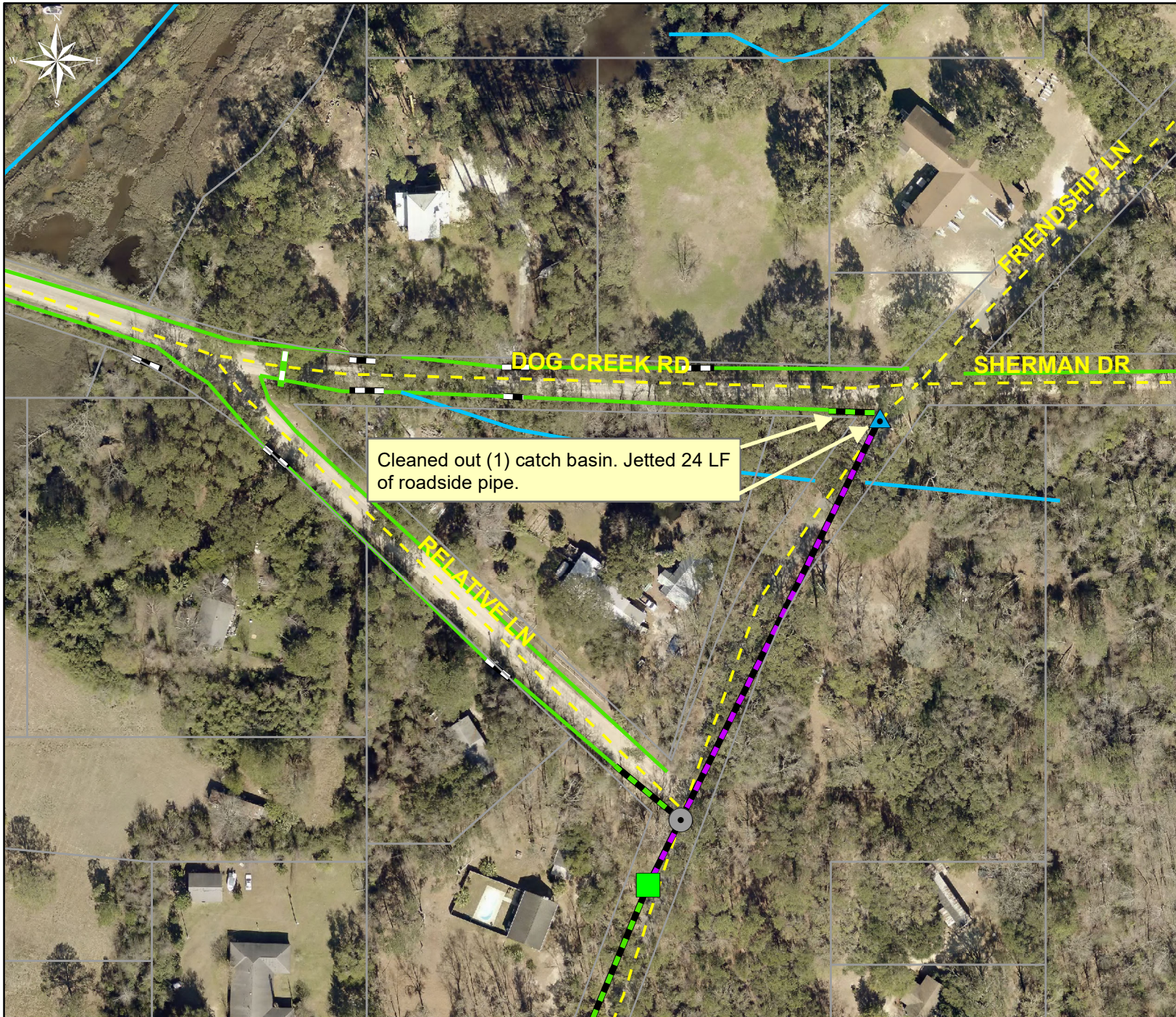
Cleaned out (1) catch basin. Jetted (1) crossline pipe.



1 inch = 42 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/22/18

File: C:\project summaries map\Ladys Island Vac Truck- Ethel Grant Map #12 2017-307A



Project: Ladys Island Vacuum Truck- Dog Creek Road Map #13

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017

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



1 inch = 140 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/22/18

File: C:\project summaries map\Ladys Island Vac Truck- Dog Creek Road Map #13 2017-307A

Project: Ladys Island Vacuum Truck- Factory Creek Road Map #14

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017



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



1 inch = 100 feet

Prepared By: BC Stormwater Management Utility  
Date Print:01/22/18

File:C:\project summaries map\Ladys Island Vac Truck- Factory Creek Road Map #14\_2017-307A

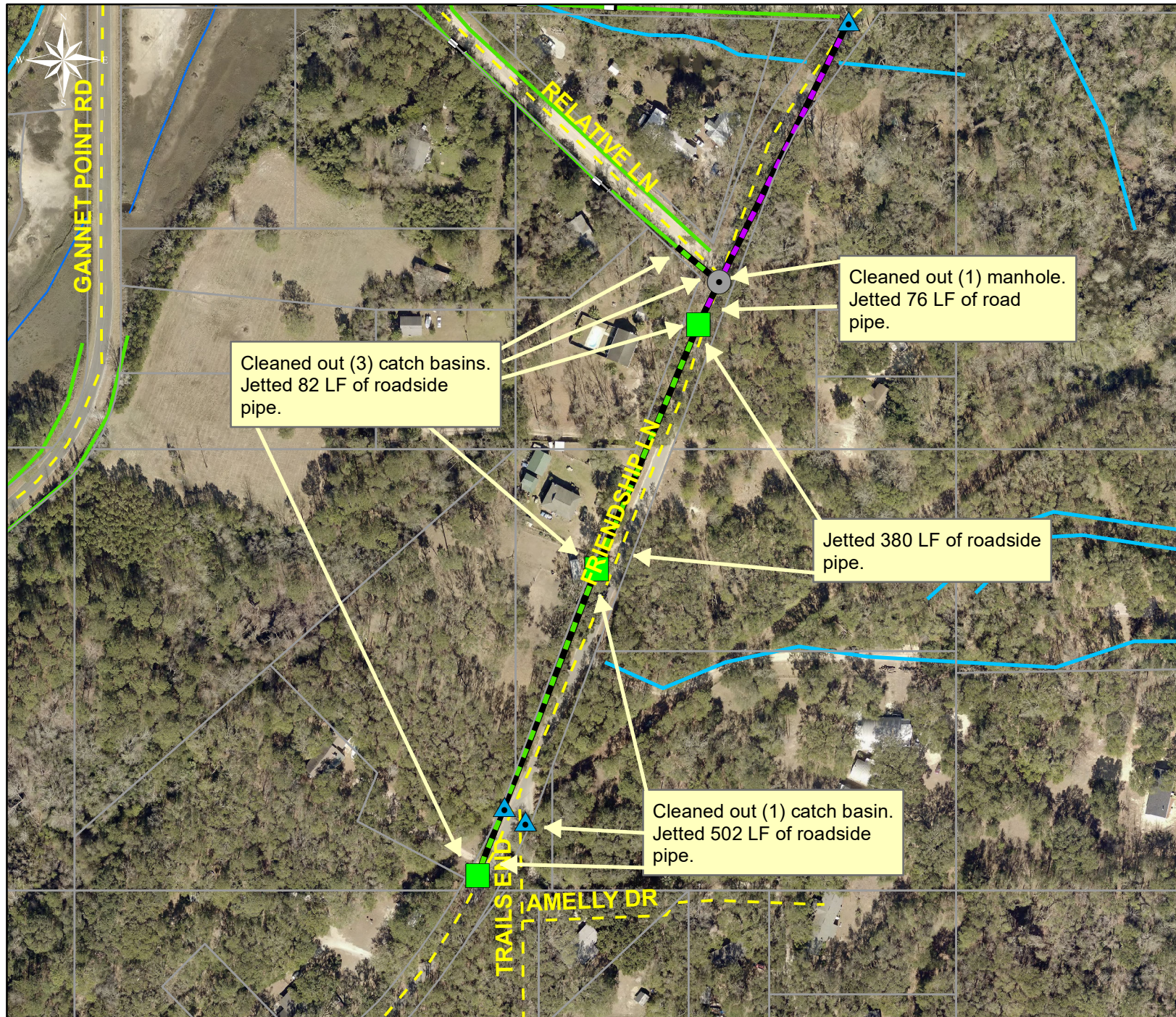
Project: Ladys Island Vacuum Truck- Friendship Lane  
Map #15

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017



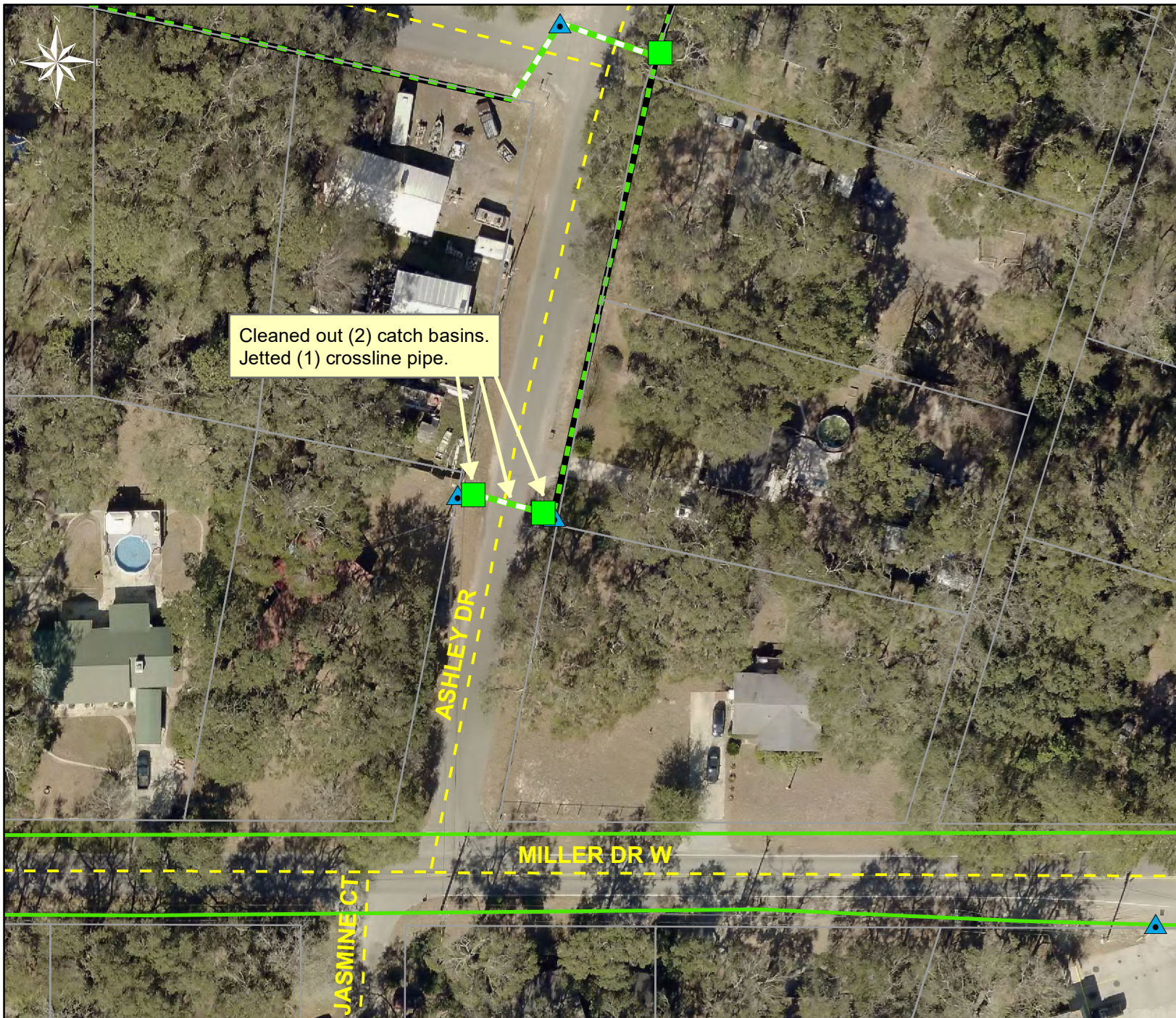
Legend	
<b>Drainage Type</b>	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 11/02/17

File: C:\project summaries map\Ladys Island Vac Truck-Friendship Lane Map#15\_2017-307A



Project: Ladys Island Vacuum Truck- Ashley Drive Map #16

Activity: Routine/ Preventive Maintenance

Project #: 2017-307A

Township/SW Dist: Ladys Island/7

Completed: June 2017

Legend	
<b>Drainage Type</b>	
	Access Pipe
	Bleeder Pipe
	Channel Pipe
	Channel
	Stream
	Crossline Pipe
	Driveway Pipe
	Lateral
	Lateral Pipe
	River
	Road Pipe
	Roadside
	Roadside Pipe



1 inch = 67 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/22/18

File: C:\project summaries map\Ladys Island Vac Truck- Ashley Drive Map #16\_2017-307A





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

**Project Summary:** Bluffton Vacuum Truck - Lake Point Drive, Sunny Glen Drive, Skylark Drive, Sandy Pointe drive, W. Morningside Drive, E. Morningside Drive, Sailors Choice, Thomas Lawton Drive, Mullet Street, Trout Street, Foreman Hill Road, Myrtle Street and Myrtle Court

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 1,394 L.F. of drainage system. Cleaned out (1) manhole and (42) catch basins. Jetted (14) crosslines pipes, 158 L.F. of channel pipe and 884 L.F. of roadside pipe and 352 L.F. of road pipe.

**Duration:** 2/14/17 - 5/18/17

<b>2017-310A / Bluffton Vacuum Truck</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	1.0	\$23.49	\$0.00	\$0.00	\$0.00	\$13.23	\$36.72
CBCO / Catch basin - clean out	113.0	\$2,517.64	\$490.42	\$367.05	\$0.00	\$1,620.42	\$4,995.53
CLPJT / Crossline Pipe - Jetted	38.0	\$846.64	\$164.92	\$131.95	\$0.00	\$544.92	\$1,688.43
RSPJ / Roadside Pipe - Jetted	34.0	\$757.52	\$147.56	\$107.15	\$0.00	\$487.56	\$1,499.79
<b>2017-310A / Bluffton Vacuum Truck Sub Total</b>	<b>186.0</b>	<b>\$4,145.29</b>	<b>\$802.90</b>	<b>\$606.15</b>	<b>\$0.00</b>	<b>\$2,666.13</b>	<b>\$8,220.47</b>
<b>Grand Total</b>	<b>186.0</b>	<b>\$4,145.29</b>	<b>\$802.90</b>	<b>\$606.15</b>	<b>\$0.00</b>	<b>\$2,666.13</b>	<b>\$8,220.47</b>

Before

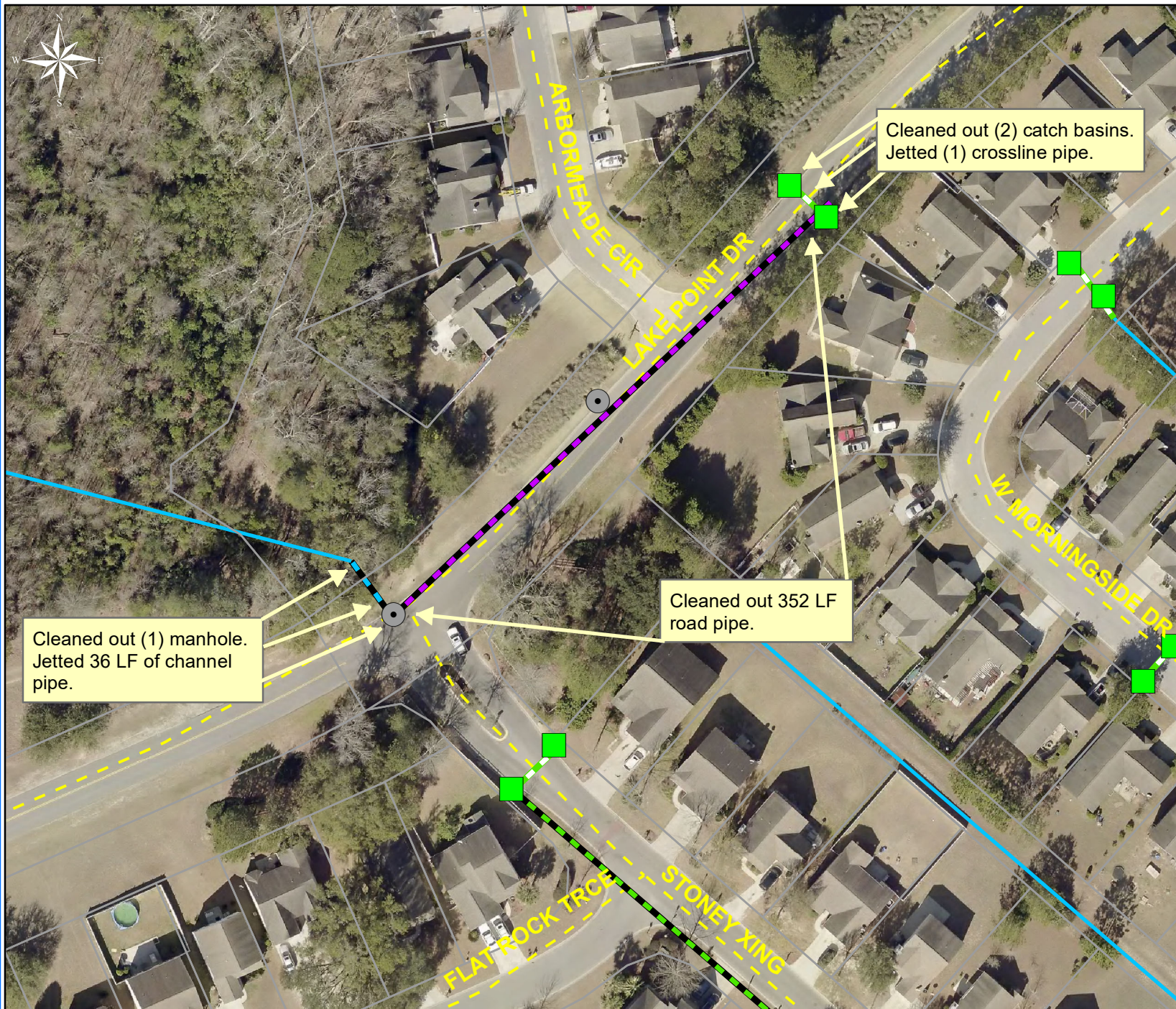


During



After





Project: Bluffton Vacuum Truck-Lake Point Drive Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2017-310A

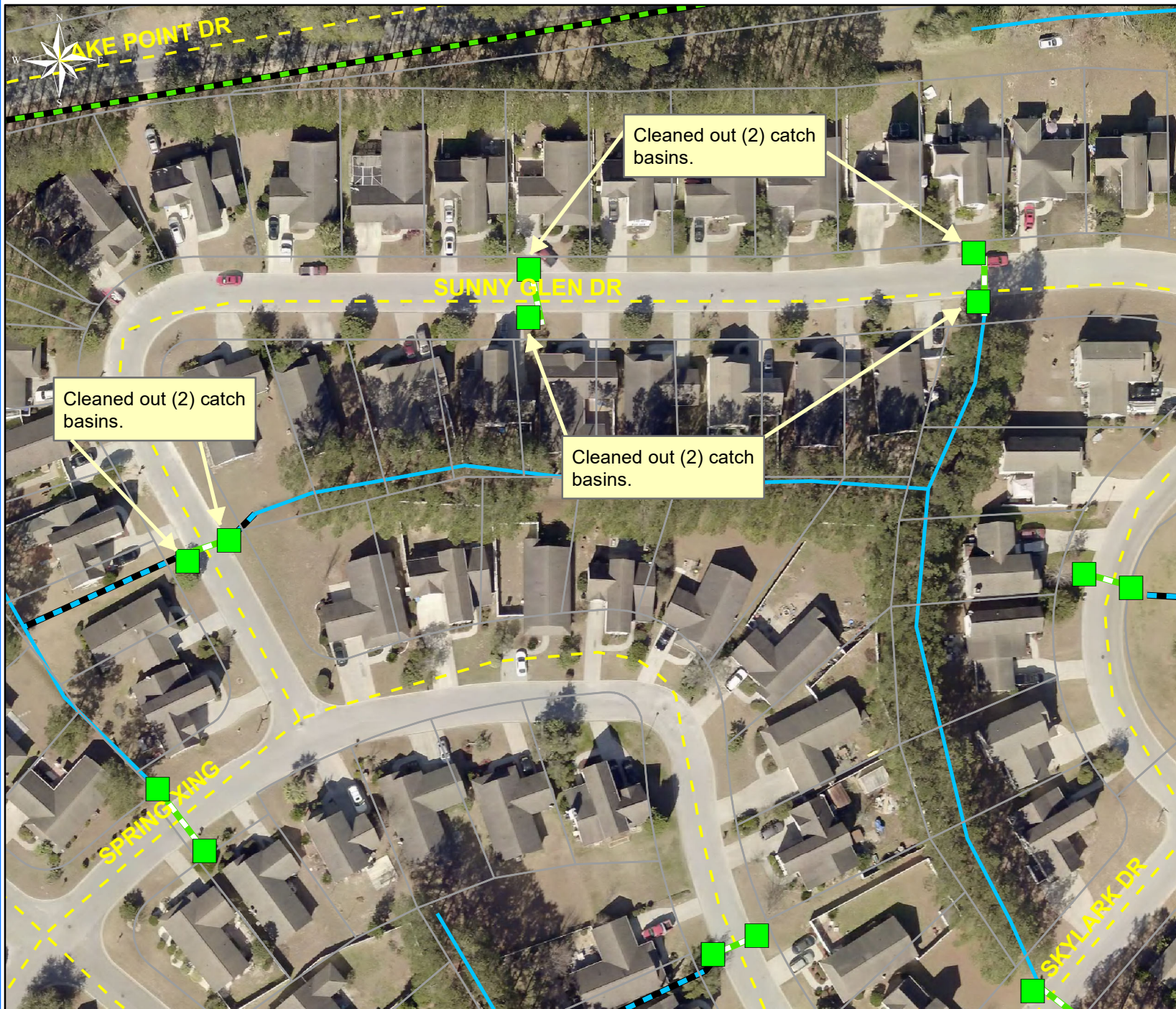
Township/SW Dist: Bluffton/4

Completed: May 2017

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



1 inch = 83 feet



Project: Bluffton Vacuum Truck - Sunny Glen Drive Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2017-310A

Township/SW Dist: Bluffton/4

Completed: May 2017

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



1 inch = 83 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/23/18

File: C:\project summaries map\Bluffton Vac Truck- Sunny Glen Dr Map#2\_2017-310A

Project: Bluffton Vacuum Truck - Skylark Drive Map #3

Activity: Routine/ Preventive Maintenance

Project #: 2017-310A

Township/SW Dist: Bluffton/4

Completed: May 2017



Cleaned out (4) catch basins. Jetted (2) crossline pipes.

Cleaned out (2) catch basins. Jetted (1) crossline pipe.

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



1 inch = 83 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/23/18

File: C:\project summaries map\Bluffton Vac Truck- SkylarkDrive Map#3\_2017-310A

Project: Bluffton Vacuum Truck - Sandy Pointe Drive Map #4

Activity: Routine/ Preventive Maintenance

Project #: 2017-310A

Township/SW Dist: Bluffton/4

Completed: May 2017



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



1 inch = 100 feet



Project: Bluffton  
 Vacuum Truck -  
 W. Morningside  
 Drive  
 Map #5

Activity: Routine/  
 Preventive  
 Maintenance

Project #:  
 2017-310A

Township/SW Dist:  
 Bluffton/4

Completed:  
 May 2017

**Legend**

**Drainage Type**

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



1 inch = 83 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/23/18

File: C:\project summaries map\Bluffton Vac Truck- W. Morningside Drive Map#5\_2017-310A

Project: Bluffton  
Vacuum Truck -  
E. Morningside  
Drive  
Map #6

Activity: Routine/  
Preventive  
Maintenance














Project #:  
2017-310A

Township/SW Dist:  
Bluffton/4

Completed:  
May 2017

### Legend

#### Drainage Type

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



1 inch = 83 feet

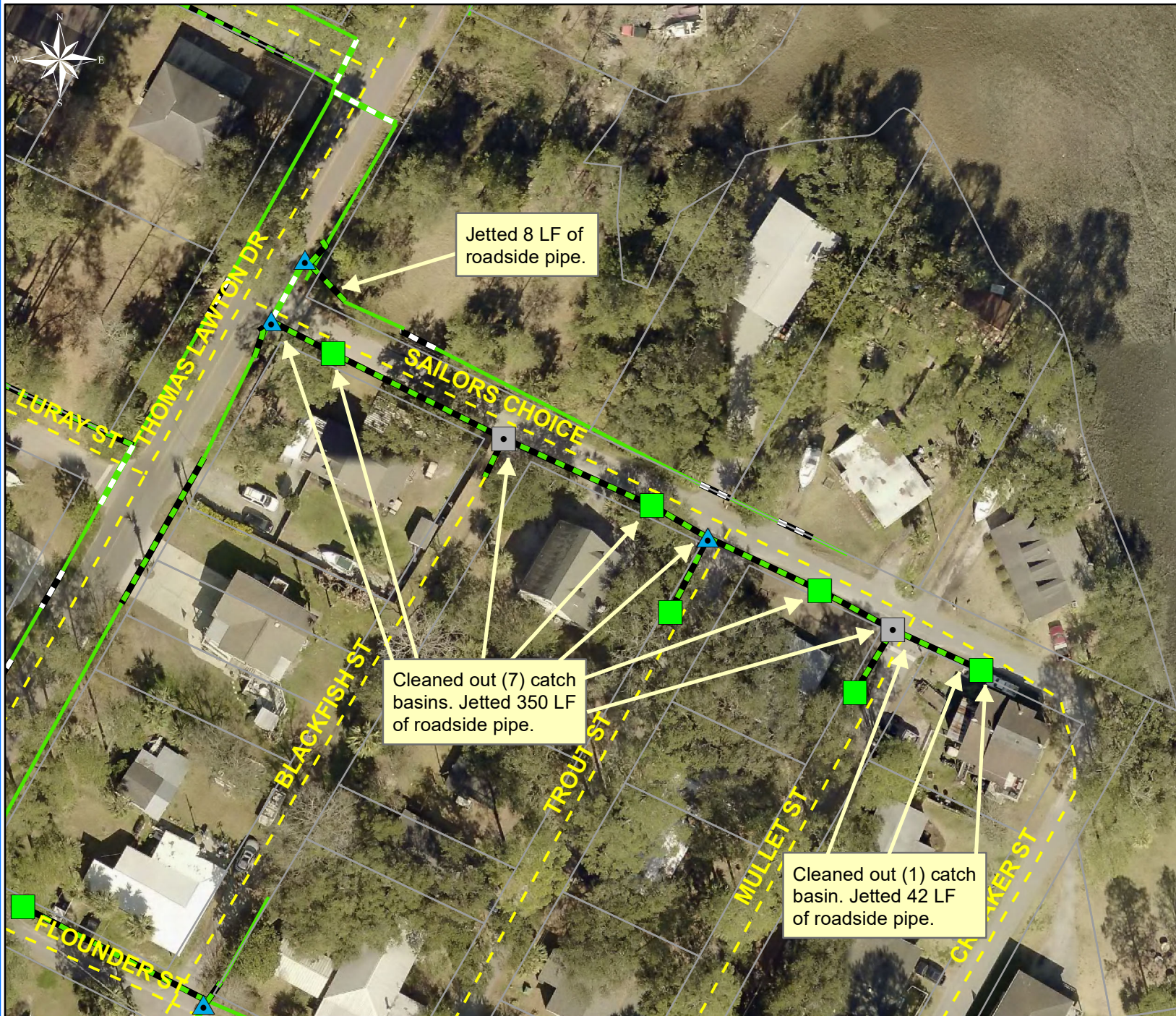
Project: Bluffton Vacuum Truck - Sailors Choice Map #7

Activity: Routine/ Preventive Maintenance

Project #: 2017-310A

Township/SW Dist: Bluffton/4

Completed: May 2017



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



1 inch = 67 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/23/18

File: C:\project summaries map\Bluffton Vac Truck- Sailors Choice Map #7\_2017-310A





Cleaned out (1) catch basin. Jetted (1) crossline pipe and 24 LF of roadside pipe.

Project: Bluffton Vacuum Truck - Thomas Lawton Drive Map #8

Activity: Routine/ Preventive Maintenance

Project #: 2017-310A

Township/SW Dist: Bluffton/4

Completed: May 2017

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



1 inch = 67 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/23/18

File: C:\project summaries map\Bluffton Vac Truck- Thomas Lawton Drive Map #8\_2017-310A

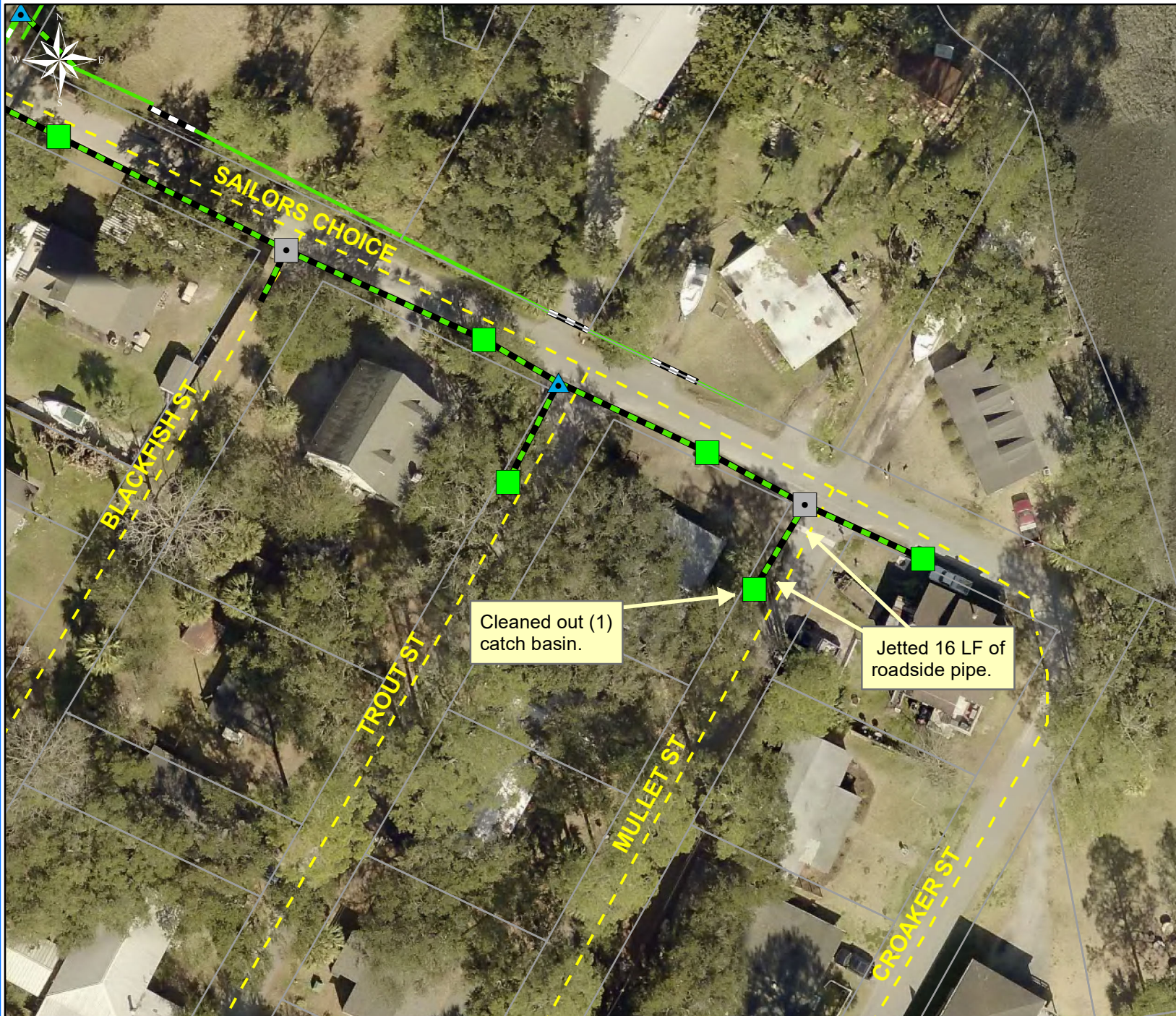
Project: Bluffton  
Vacuum Truck -  
Mullet Street  
Map #9

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2017-310A

Township/SW Dist:  
Bluffton/4

Completed:  
May 2017
















Cleaned out (1)  
catch basin.

Jetted 16 LF of  
roadside pipe.

### Legend

#### Drainage Type

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

0 10 20 40 60 80  
Feet

1 inch = 50 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/23/18

File:C:\project summaries map\Bluffton Vac Truck- Mullet Street Map #9\_2017-310A

Project: Bluffton  
Vacuum Truck -  
Trout Street  
Map #10

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2017-310A

Township/SW Dist:  
Bluffton/4

Completed:  
May 2017



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



1 inch = 50 feet



Project: Bluffton  
 Vacuum Truck -  
 Foreman Hill  
 Road  
 Map #11

Activity: Routine/  
 Preventive  
 Maintenance














Project #:  
 2017-310A

Township/SW Dist:  
 Bluffton/4

Completed:  
 May 2017

**Legend**

**Drainage Type**

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

0 40 80 160 240 320  
 Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/23/18

File: C:\project summaries map\Bluffton Vac Truck- Foreman Hill Road Map #11\_2017-310A

Project: Bluffton Vacuum Truck - Myrtle Street Map #12

Activity: Routine/ Preventive Maintenance

Project #: 2017-310A

Township/SW Dist: Bluffton/4

Completed: May 2017



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

0 30 60 120 180 240 Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/23/18

File: C:\project summaries map\Bluffton Vac Truck- Myrtle Street Map #12\_2017-310A



Project: Bluffton Vacuum Truck - Myrtle Court Map #13

Activity: Routine/ Preventive Maintenance

Project #: 2017-310A

Township/SW Dist: Bluffton/4

Completed: May 2017

**Legend**

**Drainage Type**

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



1 inch = 100 feet



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

**Project Summary:** Keans Neck Road Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 2,236 L.F. of drainage system. Cleaned out 2,236 L.F. of channel.

**Duration:** 7/31/17 - 8/14/17

<b>2018-512 / Keans Neck Rd Ch #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CCO / Channel - cleaned out	107.0	\$2,388.58	\$625.95	\$115.33	\$0.00	\$1,370.58	\$4,500.44
HAUL / Hauling	41.0	\$913.07	\$386.22	\$153.43	\$0.00	\$591.22	\$2,043.94
<b>2018-512 / Keans Neck Rd Ch #1 Sub Total</b>	<b>148.5</b>	<b>\$3,313.40</b>	<b>\$1,012.17</b>	<b>\$268.76</b>	<b>\$0.00</b>	<b>\$1,968.41</b>	<b>\$6,562.73</b>
<b>Grand Total</b>	<b>148.5</b>	<b>\$3,313.40</b>	<b>\$1,012.17</b>	<b>\$268.76</b>	<b>\$0.00</b>	<b>\$1,968.41</b>	<b>\$6,562.73</b>

Before



During



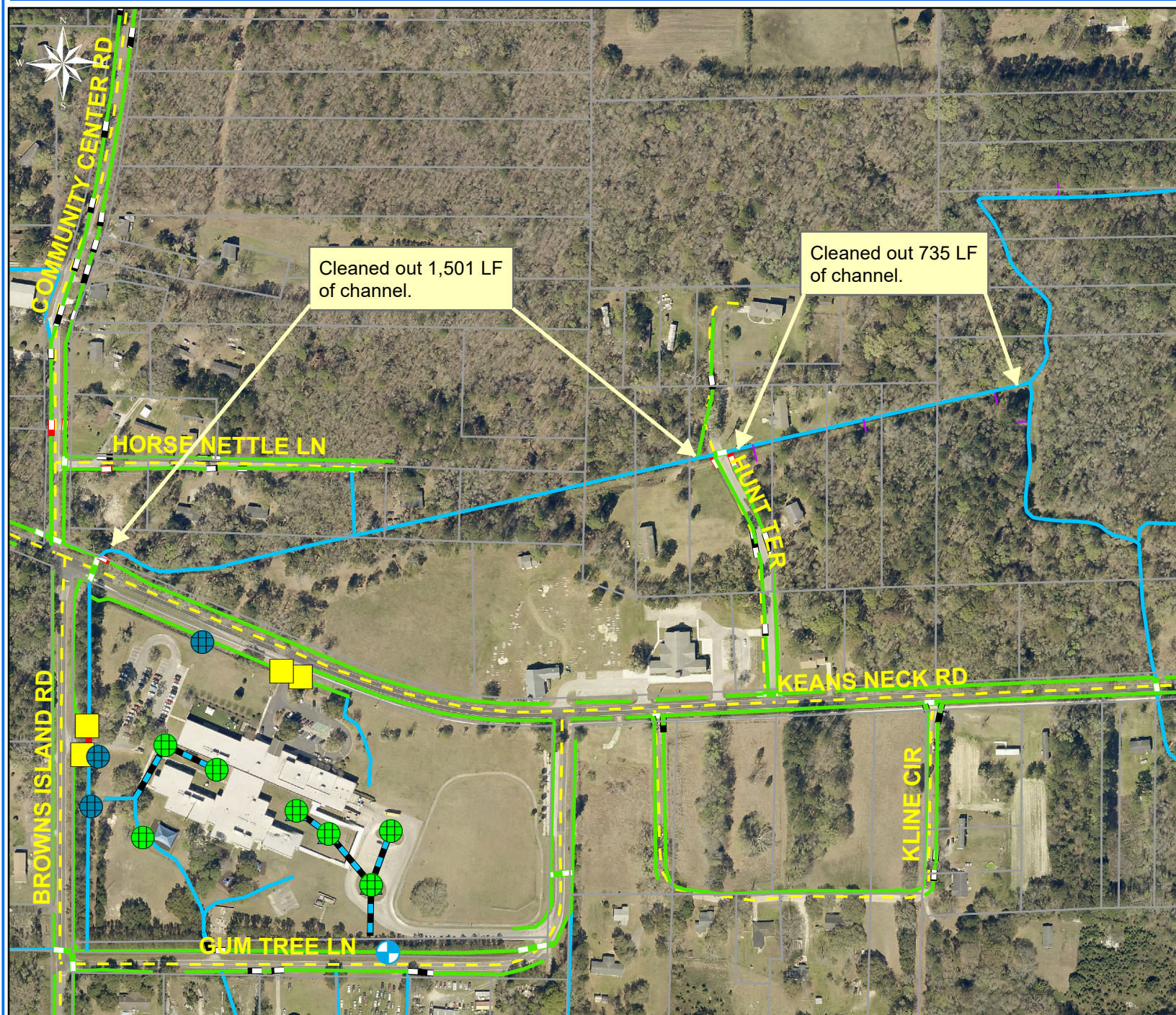
Project: Keans Neck Channel #1

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2018-512

Township/SW Dist:  
Sheldon/5

Completed:  
August 2017



**Legend**

**Drainage Type**

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



1 inch = 330 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/16/18  
File: C:\project summaries map\Keans Neck Channel #1\_2018-512





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

**Project Summary:** Chisholm Hill Road Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Duration:** 7/13/17 - 7/31/17

Project improved 5,986 L.F. of drainage system. Cleaned out 5,986 L.F. of channel. Repaired washout. Jetted (2) crossline pipes.

<b>2018-506 / Chisholm Hill Rd Ch #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CCO / Channel - cleaned out	100.0	\$2,058.00	\$773.86	\$154.08	\$0.00	\$1,282.20	\$4,268.14
CLPJT / Crossline Pipe - Jetted	6.0	\$133.68	\$26.04	\$19.80	\$0.00	\$86.04	\$265.56
HAUL / Hauling	16.0	\$356.32	\$150.72	\$62.64	\$0.00	\$230.72	\$800.40
RPWO / Repaired Washout	6.0	\$119.16	\$51.40	\$11.34	\$0.00	\$36.63	\$218.53
<b>2018-506 / Chisholm Hill Rd Ch #1</b>	<b>128.5</b>	<b>\$2,678.91</b>	<b>\$1,002.02</b>	<b>\$247.86</b>	<b>\$0.00</b>	<b>\$1,642.21</b>	<b>\$5,570.99</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>128.5</b>	<b>\$2,678.91</b>	<b>\$1,002.02</b>	<b>\$247.86</b>	<b>\$0.00</b>	<b>\$1,642.21</b>	<b>\$5,570.99</b>

(Pictures Not Available)

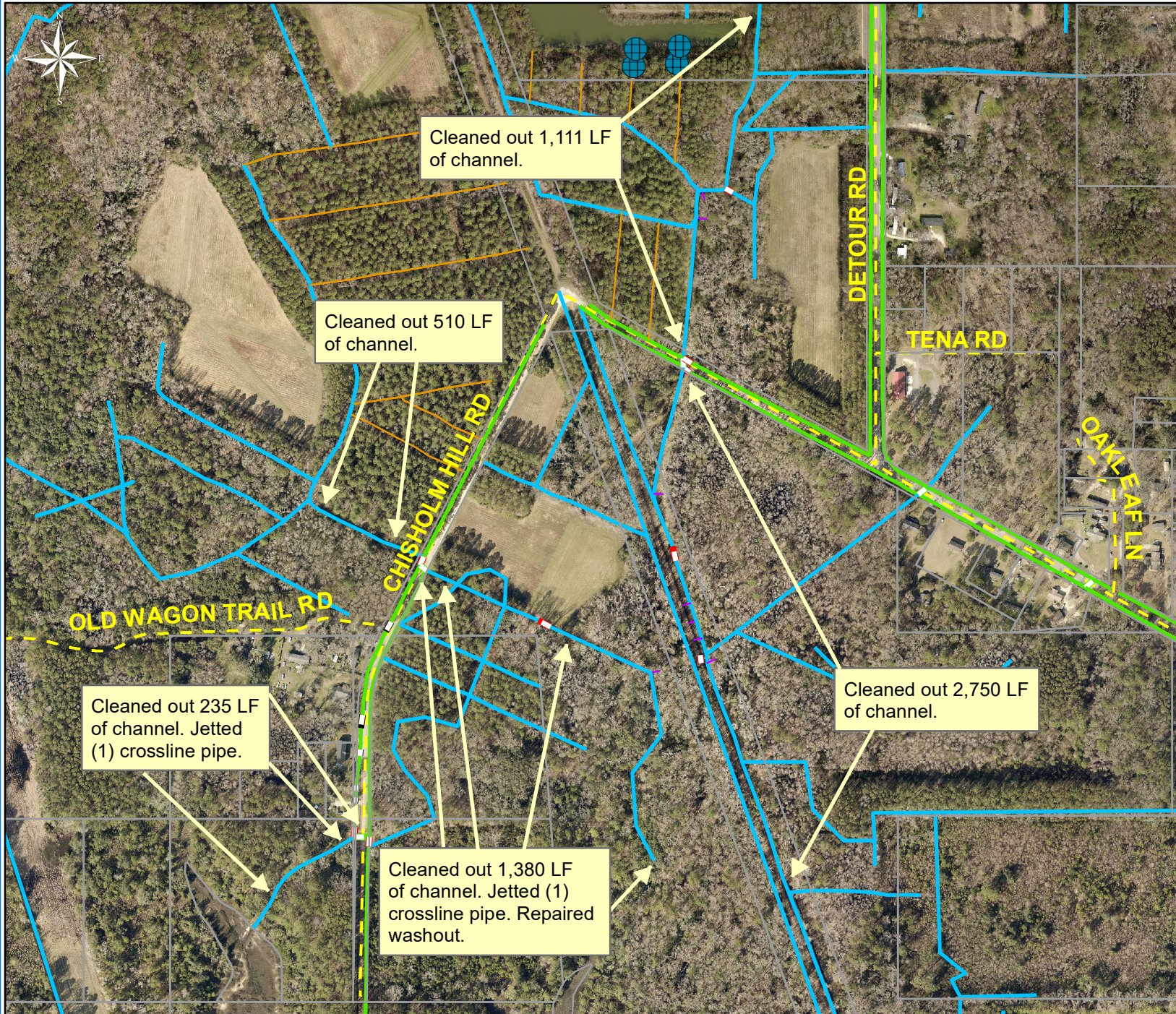
Project: Chisholm Hill Road Channel #1

Activity: Routine/ Preventive Maintenance

Project #: 2018-506

Township/SW Dist: Port Royal Island/6

Completed: July 2017



### Legend

#### Drainage Type

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

0 120240 480 720 960 Feet

1 inch = 500 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/16/18

File:C:\project summaries map\Chisholm Hill Road Channel #1\_2018-506



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

**Project Summary:** Hewlett Road

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Replaced (1) driveway pipe.

**Duration:** 6/6/17 - 7/6/17

**2017-557 / Hewlett Road**

	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
DPR / Driveway Pipe - Repaired	4.0	\$81.84	\$7.20	\$21.70	\$0.00	\$26.46	\$137.20
DPRPL / Driveway Pipe - Replaced	50.0	\$1,065.50	\$185.92	\$264.87	\$0.00	\$541.20	\$2,057.49
DWASPH / Driveway - Asphalt	15.0	\$309.90	\$33.16	\$14.40	\$0.00	\$193.35	\$550.81
HAUL / Hauling	24.0	\$534.48	\$226.08	\$474.70	\$0.00	\$346.08	\$1,581.34
ONJV / Onsite Job Visit	2.0	\$54.76	\$7.20	\$5.19	\$0.00	\$37.44	\$104.59
STAGING / Staging Materials/Equipment	9.0	\$185.94	\$20.44	\$9.00	\$0.00	\$116.01	\$331.39
UTLOC / Utility locates	0.5	\$12.35	\$0.00	\$0.00	\$0.00	\$6.62	\$18.97
<b>2017-557 / Hewlett Road Sub Total</b>	<b>105.0</b>	<b>\$2,256.52</b>	<b>\$480.00</b>	<b>\$789.87</b>	<b>\$0.00</b>	<b>\$1,273.77</b>	<b>\$4,800.15</b>

**Grand Total**                      **105.0**    **\$2,256.52**    **\$480.00**    **\$789.87**    **\$0.00**    **\$1,273.77**    **\$4,800.15**

Before

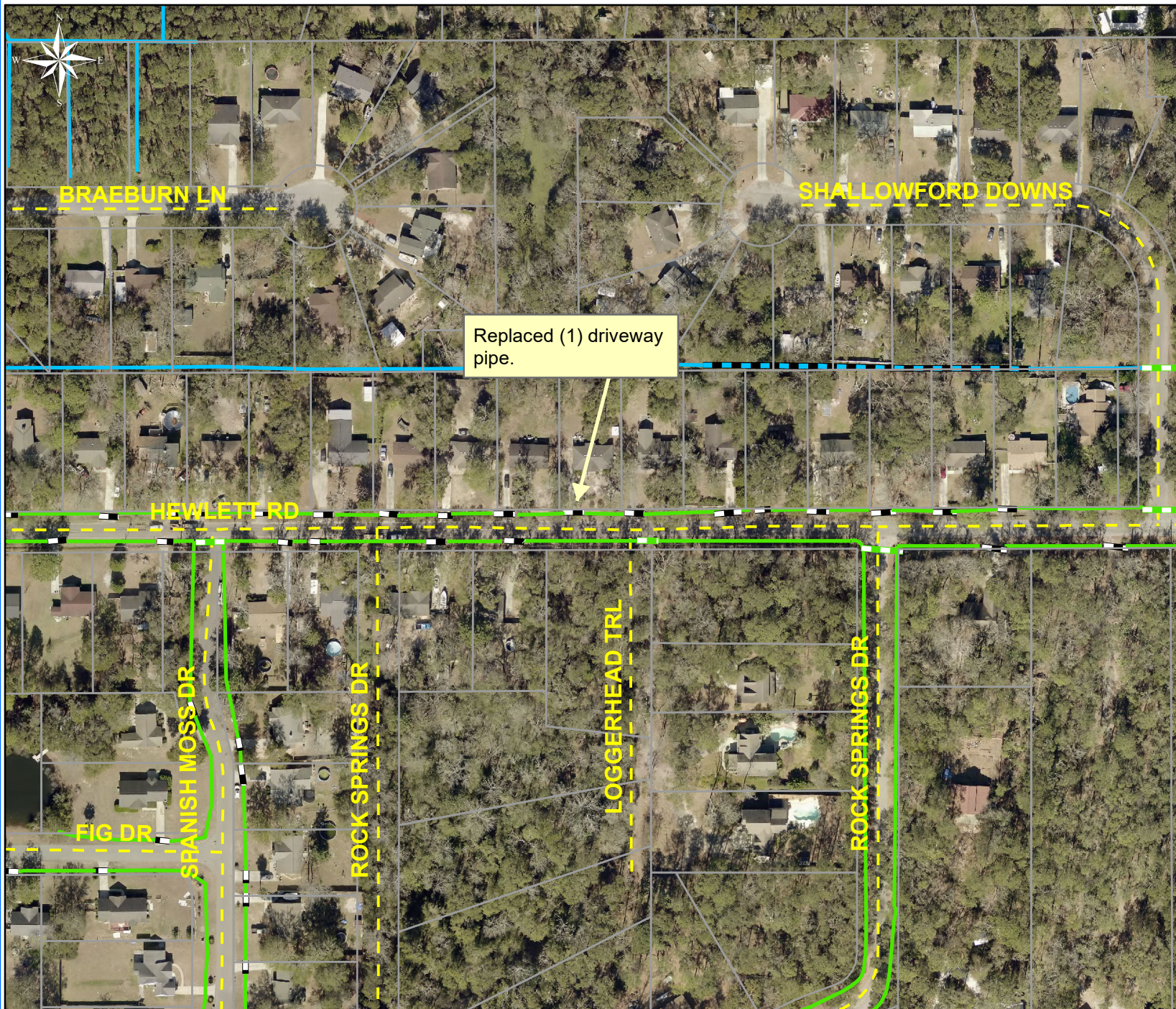


During



After





Project: Hewlett Road

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2017-557

Township/SW Dist:  
Ladys Island/7

Completed:  
July 2017

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



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/16/18  
File: C:\project summaries map\Hewlett Road\_2017-557



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

**Project Summary:** Clydesdale Circle

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Duration:** 6/7/17 - 6/22/17

Project improved 1,460 L.F. of drainage system. Cleaned out 1,460 L.F. of channel.

<b>2017-559 / Clydesdale Circle</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CCO / Channel - cleaned out	77.0	\$1,830.84	\$577.20	\$68.11	\$0.00	\$1,074.14	\$3,550.29
HAUL / Hauling	12.5	\$278.38	\$117.75	\$32.58	\$0.00	\$180.25	\$608.96
<b>2017-559 / Clydesdale Circle Sub Total</b>	<b>90.0</b>	<b>\$2,120.96</b>	<b>\$694.95</b>	<b>\$100.69</b>	<b>\$0.00</b>	<b>\$1,261.00</b>	<b>\$4,177.60</b>
<b>Grand Total</b>	<b>90.0</b>	<b>\$2,120.96</b>	<b>\$694.95</b>	<b>\$100.69</b>	<b>\$0.00</b>	<b>\$1,261.00</b>	<b>\$4,177.60</b>

Before



During



After



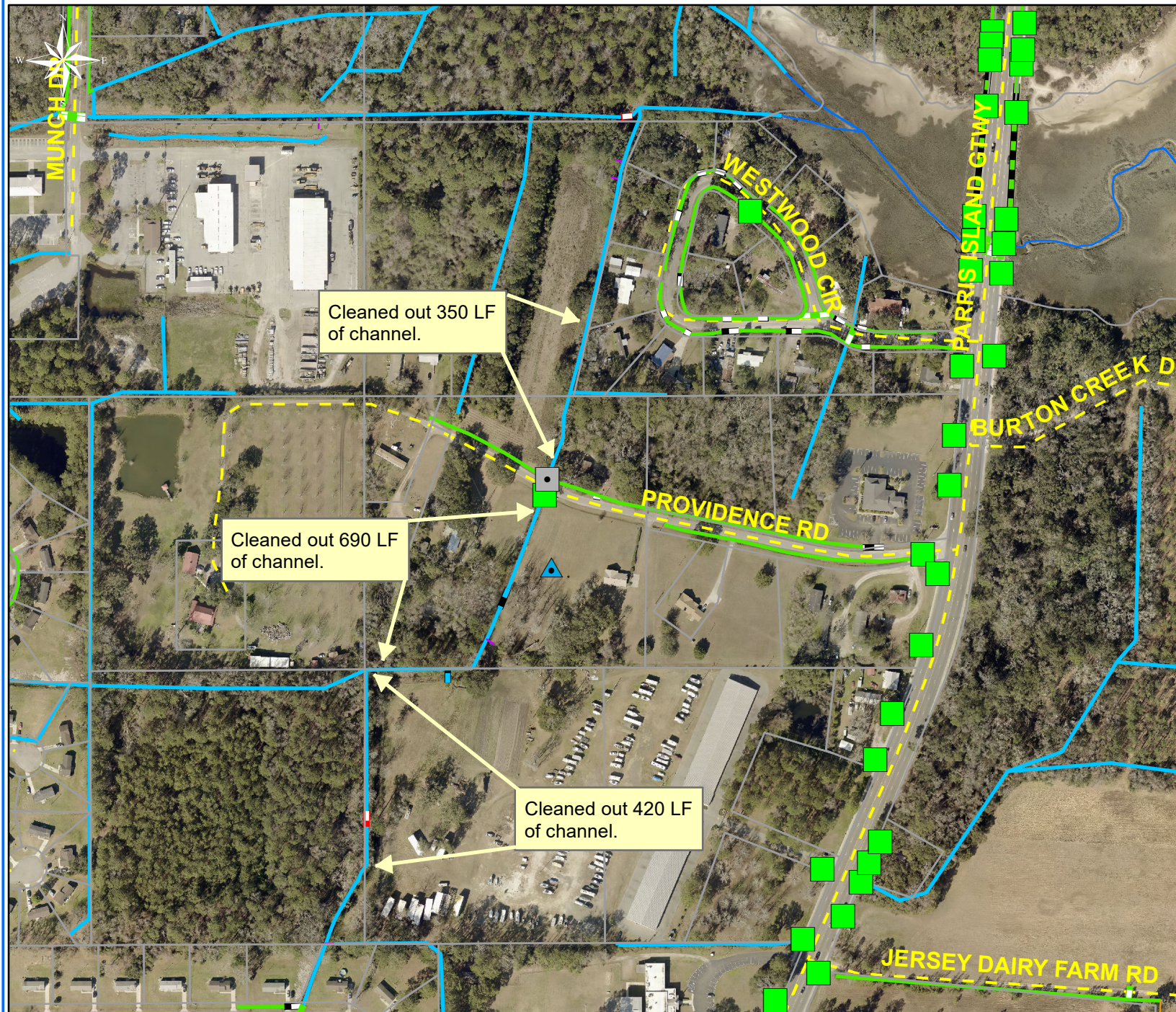
Project: Clydesdale Circle

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2017-559

Township/SW Dist:  
Port Royal Island/9

Completed:  
June 2017



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



1 inch = 330 feet

Prepared By: BC Stormwater Management Utility  
Date Print: 01/16/18  
File: C:\project summaries map\Clydesdale Circle\_2017-559



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

**Project Summary:** Simmons Road Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 2,566 L.F. of drainage system. Cleaned out 2,566 L.F. of channel.

**Duration:** 7/17/17 - 7/27/17

<b>2018-507 / Simmons Road Ch #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CCO / Channel - cleaned out	58.0	\$1,315.25	\$348.07	\$74.70	\$0.00	\$852.38	\$2,590.40
HAUL / Hauling	21.5	\$478.81	\$202.53	\$90.00	\$0.00	\$310.03	\$1,081.37
<b>2018-507 / Simmons Road Ch #1</b>	<b>80.0</b>	<b>\$1,805.80</b>	<b>\$550.60</b>	<b>\$164.70</b>	<b>\$0.00</b>	<b>\$1,169.02</b>	<b>\$3,690.12</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>80.0</b>	<b>\$1,805.80</b>	<b>\$550.60</b>	<b>\$164.70</b>	<b>\$0.00</b>	<b>\$1,169.02</b>	<b>\$3,690.12</b>

Before



During



After



Project: Simmons  
Road Channel #1  
Map #1

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2018-507














Township/SW Dist:  
St.Helena Island/8

Completed:  
July 2017



### Legend

#### Drainage Type

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

0 60 120 240 360 480  
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/16/18

File:C:\project summaries map\Simmons Road Channel #1 Map #1\_2018-507



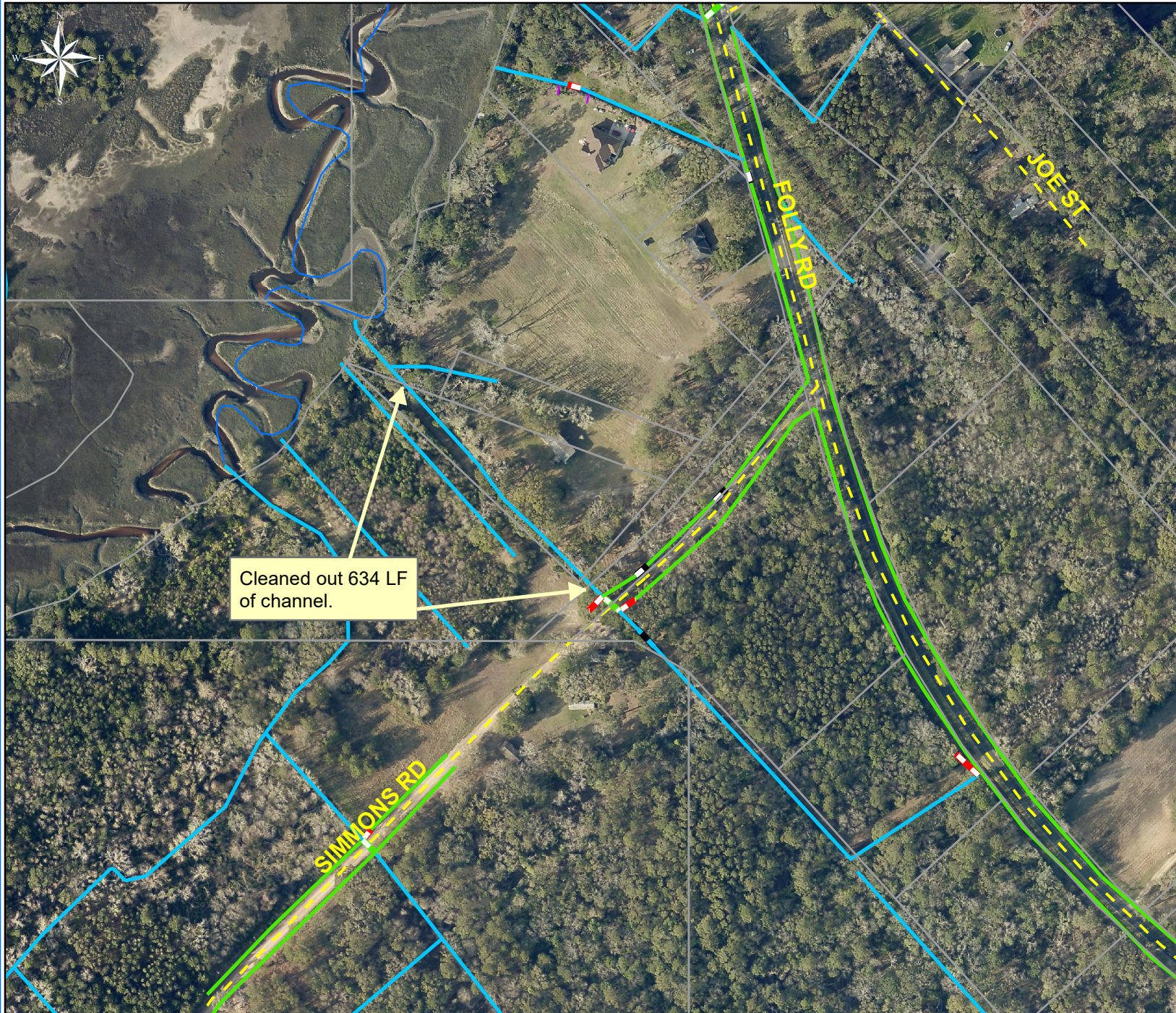
Project: Simmons Road Channel #1  
Map #2

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2018-507














Township/SW Dist:  
St.Helena Island/8

Completed:  
July 2017



### Legend

#### Drainage Type

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

0 60 120 240 360 480  
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/16/18

File:C:\project summaries map\Simmons Road Channel #1 Map #2\_2018-507



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

**Project Summary:** Folly Road Channel #1

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

**Duration:** 7/13/17 - 7/31/17

Project improved 1,413 LF of drainage system. Cleaned out 1,413 L.F. of channel. Jetted (1) access pipe.

<b>2018-505 / Folly Road Channel #1</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
APJT / Access pipe - jetted	4.0	\$89.12	\$17.36	\$20.30	\$0.00	\$57.36	\$184.14
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CCO / Channel - cleaned out	36.0	\$809.28	\$167.05	\$39.60	\$0.00	\$516.18	\$1,532.11
HAUL / Hauling	6.0	\$133.62	\$56.52	\$12.60	\$0.00	\$86.52	\$289.26
<b>2018-505 / Folly Road Channel #1 Sub Total</b>	<b>46.5</b>	<b>\$1,043.77</b>	<b>\$240.93</b>	<b>\$72.50</b>	<b>\$0.00</b>	<b>\$666.67</b>	<b>\$2,023.87</b>
<b>Grand Total</b>	<b>46.5</b>	<b>\$1,043.77</b>	<b>\$240.93</b>	<b>\$72.50</b>	<b>\$0.00</b>	<b>\$666.67</b>	<b>\$2,023.87</b>

(Pictures Not Available)

Project: Folly Road Channel #1

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2018-505

Township/SW Dist:  
St. Helena Island/8

Completed:  
July 2017



### Legend

#### Drainage Type

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

0 50 100 200 300 400  
Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/16/18

File:C:\project summaries map\Folly Road Channel #1\_2018-505



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

**Project Summary:** George Williams Lane

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 445 L.F. of drainage system. Cleaned out 445 L.F. of channel. Repaired washouts.

**Duration:** 7/20/17

<b>2018-510 / George Williams Lane</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CCO / Channel - cleaned out	30.0	\$680.50	\$231.32	\$25.20	\$0.00	\$441.20	\$1,378.22
HAUL / Hauling	3.0	\$66.81	\$28.26	\$30.60	\$0.00	\$43.26	\$168.93
<b>2018-510 / George Williams Lane Sub Total</b>	<b>33.5</b>	<b>\$759.06</b>	<b>\$259.58</b>	<b>\$55.80</b>	<b>\$0.00</b>	<b>\$491.08</b>	<b>\$1,565.51</b>
<b>Grand Total</b>	<b>33.5</b>	<b>\$759.06</b>	<b>\$259.58</b>	<b>\$55.80</b>	<b>\$0.00</b>	<b>\$491.08</b>	<b>\$1,565.51</b>

Before



During



After



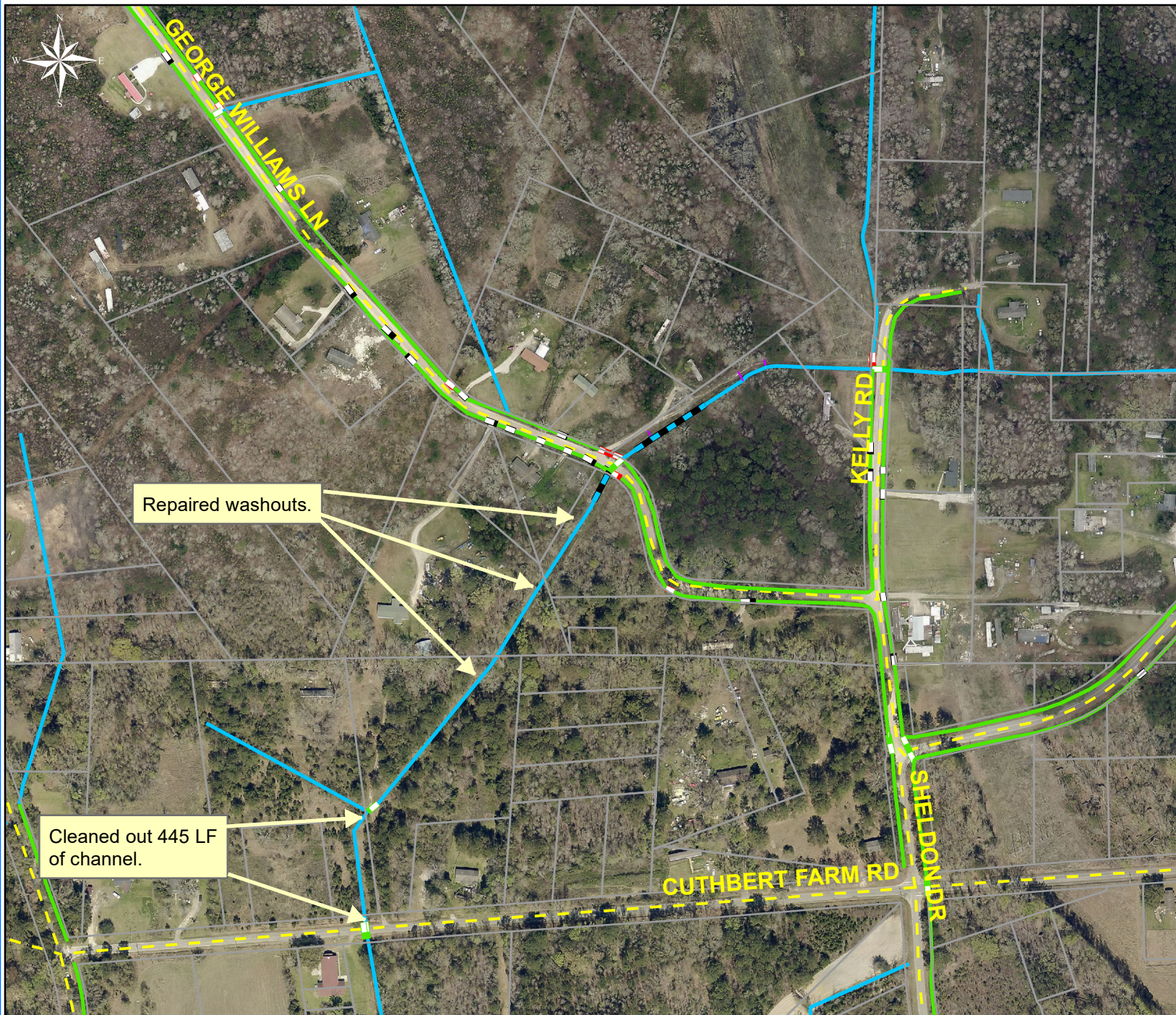
Project: George Williams Lane

Activity: Routine/  
Preventive  
Maintenance

Project #:  
2018-510














Township/SW Dist:  
Sheldon/5

Completed:  
March 2017



### Legend

#### Drainage Type

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

0 80 160 320 480 640  
Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/16/18

File: C:\project summaries map\George Williams Lane\_2018-510



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

**Project Summary:** Folly Road Channel #3

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**

Project improved 1,070 L.F. of drainage system. Cleaned out 1,070 L.F. of channel.

**Duration:** 7/12/17 - 7/13/17

<b>2018-503 / Folly Road Channel #3</b>	<b>Labor Hours</b>	<b>Labor Cost</b>	<b>Equipment Cost</b>	<b>Material Cost</b>	<b>Contractor Cost</b>	<b>Indirect Labor</b>	<b>Total Cost</b>
AUDIT / Audit Project	0.5	\$11.75	\$0.00	\$0.00	\$0.00	\$6.62	\$18.36
CCO / Channel - cleaned out	33.0	\$735.15	\$156.25	\$41.40	\$0.00	\$463.71	\$1,396.51
<b>2018-503 / Folly Road Channel #3</b>	<b>33.5</b>	<b>\$746.90</b>	<b>\$156.25</b>	<b>\$41.40</b>	<b>\$0.00</b>	<b>\$470.33</b>	<b>\$1,414.87</b>
<b>Sub Total</b>							
<b>Grand Total</b>	<b>33.5</b>	<b>\$746.90</b>	<b>\$156.25</b>	<b>\$41.40</b>	<b>\$0.00</b>	<b>\$470.33</b>	<b>\$1,414.87</b>

Before



During



After





Project: Folly Road Channel #3

Activity: Routine/ Preventive Maintenance














Project #: 2018-503

Township/SW Dist: St. Helena Island/8

Completed: July 2017

**Legend**

**Drainage Type**

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



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print:01/16/18

File:C:\project summaries map\Folly Road Channel #3\_2018-503



BEAUFORT COUNTY  
STORMWATER MANAGEMENT UTILITY BOARD AGENDA  
Wednesday, March 14, 2018  
2:00 p.m.  
Executive Conference Room, Administration Building  
Beaufort County Government Robert Smalls Complex  
100 Ribaut Road, Beaufort, South Carolina  
843.255.2805

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

1. CALL TO ORDER – 2:00 p.m.
  - A. Approval of Agenda
  - B. Approval of Minutes – February 14, 2018 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
  - A. Utility Update – Eric Larson, P.E. ([backup](#))
  - B. Monitoring Update – Eric Larson, P.E. ([backup](#))
  - C. Stormwater Implementation Committee Report – Eric Larson, P.E. ([backup](#))
  - D. Stormwater Related Projects – Eric Larson, P.E. ([backup](#))
  - E. Upcoming Professional Contracts Report – Eric Larson, P.E. ([backup](#))
  - F. Regional Coordination – Eric Larson, P.E. ([backup](#))
  - G. Municipal Reports – Eric Larson, P.E. ([backup](#))
  - H. MS4 Update – Eric Larson, P.E. ([backup](#))
  - I. Maintenance Projects Report – David Wilhelm, P.E. ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
  - A. Special Presentation - TBD
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
  - A. April 11, 2018 ([backup](#))
9. ADJOURNMENT