



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, December 11, 2019
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 – November 13, 2019 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Utility Update – Daniel Rybak ([backup](#))
 - B. Monitoring Update – Daniel Rybak ([backup](#))
 - C. Stormwater Implementation Committee Report – Daniel Rybak ([backup](#))
 - D. Stormwater Related Projects – Daniel Rybak ([backup](#))
 - E. Upcoming Professional Contracts Report – Daniel Rybak ([backup](#))
 - F. Regional Coordination – Daniel Rybak ([backup](#))
 - G. Municipal Reports – Daniel Rybak ([backup](#))
 - H. MS4 Update – Daniel Rybak ([backup](#))
 - I. Maintenance Projects Report – Matthew Rausch ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
 - A. Special Presentation – Able Site, SCDHEC
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. January 8, 2020 ([backup](#))
9. ADJOURNMENT

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

November 13, 2019 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 11/20/2019

Board Members

Present

William Bruggeman
Steven Andrews
James Fargher
Patrick Mitchell
Allyn Schneider
James Clark

Absent

Marc Feinberg

Ex-Officio Members

Present

Neil Desai
Scott Liggett
Van Willis

Absent

Kim Jones

Beaufort County Staff

Daniel Rybak
Melissa Allen
Katie Herrera
Amber Woods

Visitors

Bill Baugher, Town of Bluffton
Bridgette Noonan, Town of Bluffton
Jeff Netzinger, Town of Hilton Head
Alan Warren, USCB
Alice Howard, County Council
Ellen Sturup Comeau, Clemson Extension

1. Meeting called to order – William Bruggeman

- A. Agenda – Approved.
- B. October 9, 2019 Minutes – Approved.

2. Introductions – Completed.

3. Public Comment(s) – None.

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

<https://www.beaufortcountysc.gov/stormwater-management-utility-board/agendas/2019/111319.pdf>

A. Utility Update – Daniel Rybak

In reference to item #1, the committee met on October 16th to discuss comments made it through the ordinance and a quarter of the way through the design manual. A second meeting was held on November 6th to continue review on comments with another meeting scheduled for November 18th. Mr. Billy Bruggeman asked if there had been many comments. Mr. Dan Rybak replied there have been comments about approach and application and very positive discussion.

Regarding special presentations, DHEC has agreed to present on the Able Site during the December meeting.

In regards to the 2019 tax run, a meeting was held on October 28th with the Assessor's office and GIS to discuss the work process and how to improve

New item, the annual financial reports are due from the municipalities when available per the IGA.

B. Monitoring Update – Daniel Rybak

Dr. Allen Warren commented that sufficient rain fall is needed and the lab is ready. The lab is purchasing more equipment to outfit a Northern and Southern Beaufort County Lab.

C. Stormwater Implementation Committee (SWIC) Report – Daniel Rybak

Please reference the report, no additional updates.

D. Stormwater Related Projects – Daniel Rybak

In reference to 2c, a Shell Hall Community meeting was held on October 29th with Alice Howard and constituents to discuss drainage and flooding issues. A follow up meeting is planned to take place in January.

Item #3, Alljoy, hazard mitigation grant application has been denied.

Item #9, Lady's Island Plan/Sea Level Rise, the committee met on October 8th and 29th to discuss comments on the draft ordinance.

E. Professional Contracts Report – Daniel Rybak

In reference to 1A, Salt Creek and Shanklin Road, a 30% design meeting was held with consultant on November 5th.

Brewer Memorial project, staff is in the process of trying to get an easement to tie into an existing storm drain system to divert runoff into a pond.

F. Regional Coordination – Daniel Rybak

In reference to Mossy Oaks, Mr. Neil Desai shared that the City has received preliminary comments from some of the regulatory agencies and started coordination efforts with BJWSA about the project and the potential impacts to utilities at the two outfalls on the Spanish Moss Trail.

G. Municipal Reports – Daniel Rybak

Please reference the report, no additional updates.

H. Municipal Separate Storm Sewer System (MS4 Update) – Daniel Rybak

Mr. Rybak briefly went over the MS4 activity comparisons and rainfall charts. He stated that Ellen provided the Lowcounty Stormwater Partners annual report on November 4th. Ms. Ellen Sturup Comeau shared that she hosted a Healthy Ponds Workshop, two Carolina Yard workshops, six Kids in Kayaks programs, and submitted the Annual report. She commented that even though the report was for a shorter reporting period, the numbers [impacts] improved. Ms. Sturup Comeau commented that there are 80 participants signed up for the Pond Conference tomorrow.

Mr. Rybak shared that the department met with the Energov representative to review the preliminary work flow for permitting. In regards to the Able site, he commented that DHEC has agreed to present next month. Mrs. Katie Herrera shared that she met with DHEC last

Thursday and that Beaufort County does continue to sample. DHEC has also implemented a comprehensive monitoring plan.

I. Maintenance Projects Report – Daniel Rybak

Mr. Rybak shared that next meeting Superintendent Matt Rausch will be delivering the report. Major Project was completed at the Beaufort County Administration Building and has been reported on.

5. Unfinished Business – None.

6. New Business –

Mr. Neil Desai shared this is his last meeting representing the City of Beaufort. As of Monday he will be the Public Works Director for Beaufort County. Nate Farrow will be the new representative for the Stormwater Utility Board.

Dr. Alan Warren shared that he was thinking about the effort that Town of Bluffton is put in for bacterial source typing to identify failing septic systems. It made him think about Morgan’s Island (Monkey Island) with 4,000 free rein monkeys and their waste. He monitored E.coli around Monkey Island and there are astronomically high numbers which was anticipated. He commented there are oyster harvesting sites not far from the island and is not sure whose issue this is.

Dr. Warren mentioned he made a request to the County for the vac-truck on St Helena, taking a lead from the State of California. He explained that the State of California look at the debris and trash collected from the catch basins with vacuum trucks to establish a baseline. He asked Matt if the crew could dump the debris and trash they collect in an area so the lab could examine it qualitatively and quantitatively. They are doing it for trash collected from St Helena last Friday and for Lady’s Island that will be collected this Friday and make a comparison between the two. The lab will count and look at the volume of plastics, cigarette butts, styrofoam, food containers, etc. to see what the debris and trash issues are in the County and how effective those catch basins are in keeping it out of the waterways.

Mr. Rybak asked if it is vac-truck only or does it include the sweeper truck. Dr. Warren replied he would like for it to include both, but it is a new initiative. He commented it is not limited to the vac-truck he’d like to see what a sweeper truck comes up with. Ms. Comeau asked if the initiate would continue over the summer months to see if the visitors affect the trash generated. He commented he is not opposed to doing that.

7. Public Comment(s) – None.

8. Next Meeting Agenda – Approved with addition.

Addition to New Business – Special Presentation by DHEC

9. Meeting Adjourned



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

December 11, 2019

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Utility Update

1. Southern Lowcountry Regional Board (SoLoCo)
 - a) The current schedule for completion and finalization on the document and activities of Center for Watershed Protection (CWP) is as follows:
 - o SoLoCo Committee met in Bluffton on November 18th and December 4th to continue comment review on the Draft Ordinance and Design Manual. About 3/4 of the documents have been discussed.

Remaining project milestones to be completed:

- o Revised Manual for Public Comment
- o Request for Public Comments
- o Public Comment Period (required to be minimum of 6 weeks)
- o Close of Public Comments Period
- o CWP Review of Public Comments Due
- o Committee Meeting to Review Public Comments
- o Final Draft of Ordinance and Design Manual
- o Final Delivery

Public Stakeholder Meetings

- o January 21, 2020 from 4-6 PM at the Beaufort County Administrative Building, 100 Ribaut Road, Beaufort, SC in Council Chambers
- o January 22, 2020 from 2– 4 PM at the Theodore D. Washington Municipal Building, “Bluffton Town Hall,” 20 Bridge Street, in the Henry “Emmett” McCracken Jr. Town Council Chambers
- o January 23, 2020 - TBD

2. Regionalization
 - a) Regional Stormwater Design Standard and Model Ordinance Project – See update above.
 - b) Regionalization of programs – Pending finalization of the Regional Stormwater Design Standard and Model Ordinance it is hoped each participating jurisdiction will adopt these policy documents for implementation to provide consistent administration of Stormwater Management guidelines and policies in the region. Discussions of a Regional Stormwater Authority to administer the adopted guidelines and policies

holistically within the region/jurisdictions can be fostered.

3. Special presentations –
 - a) DHEC representatives provide update on Jasper County, Able Contracting Site clean-up and water quality monitoring during the meeting today.
4. Military installation and other State and Federal properties SWU fees – See “Delinquent Accounts” below. Staff continues to work with GIS to update impervious area layers for the military installations.
5. Delinquent accounts – County Council voted in Council Hearing held on November 18, 2019 to move forward with initial, Phase I Investigations with Gentry Locke Attorneys (looking at data, laws, ordinances, synopsis of case law) to provide recommendations and likely outcomes of either negotiations or litigation. The County Council approval was contingent on an established \$75,000 cap for funding which will come from Stormwater Utility.
(State and Federal accounts make up approx. 97%-98% of the delinquent account value of approx. \$7 million on the ledger)
6. Annual Financial report from the Municipalities – Per the Intergovernmental Agreements for the Utility, each year on September 30th, the City and Towns are required to submit a summary of revenue and expenditures for the previous fiscal year.
 - a) Beaufort County – Actuals pending CAFR completion.
 - b) Town of Hilton Head Island – Not Received.
 - c) Town of Bluffton – Not Received.
 - d) Town of Port Royal – Not Received.
 - e) City of Beaufort – Not Received.

Monitoring Update

1. Lab Update (From Dr. Alan Warren and Lab Manager Danielle Mickel)
 - a) No information was available at the time of this report.
2. Dr. Eric Montie with USCB delivered the Technical Report on the Historical Analysis of Water Quality and Climate Change Endpoints and Monitoring of Natural Resources in the May River. This data mining research project was presented to the Board on April 11, 2018 and was supported and co-funded by the County and Town of Bluffton. [View Report.](#)

Stormwater Implementation Committee (SWIC) Report

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

Stormwater Related Projects

1. Easements – Staff is working on easement requests and meets monthly to review status. A few condemnations are still being pursued using outside legal counsel.
2. Complaints – Staff continually works numerous drainage related complaints each month.
 - a) Horse Island – No additional update at this time. Last update: The Stormwater Manager discussed preliminary design and construction cost with the County Administrator and Council member for the area and is awaiting direction.
 - b) Flyover bridge preventative maintenance and deferred maintenance repairs – Last update: Notice to Proceed was issued to JMT for design of erosion repair, traffic control and permitting. Change Order for Critical Line Delineation in process due to original delineation (at time of flyover Bridge permitting) being expired and not allowed by DHEC.
 - c) Shell Point Community Meeting – Follow-up meeting with community is planned for January 2020.
3. Alljoy Subwatershed Flooding – The Hazard Mitigation Grant funding application that was for this project was denied.
4. Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park Subdivision (Design Cost \$49,873, Tree Mitigation Cost \$18,200 & \$18,200, Construction Cost by the Developer) – Construction on-going and estimated to be 60% complete.
5. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Construction on-going and estimated to be 80% complete.
6. Graves Property / Pepper Hall Public / private partnership – Property owner has requested meeting with County Administrator to discuss Joint Developer Agreement implementation/timing. This meeting is planned to take place at the beginning of January.
7. Whitehall property purchase – No additional update at this time.
8. US 278 “super street” widening on Jenkins Island (Windmill Harbor area) – No update at this time.
9. Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – The Committee met on November 21, 2019 to discuss comments presented on *DRAFT* Ordinance.

Professional Contracts Report

1. CIP FY 18 Grouping Stormwater Projects – (Design - Ward Edwards \$202,000, Andrews

Engineering \$560,490, Const. est. \$5,512,900) – All projects are in early design phase.

- a) Salt Creek and Shanklin Road – 30% Design submittal under review.
 - b) Brewer Memorial – County has been successful in obtaining Notice of Intent to Grant Easement from property owner required to divert flows from SCDOT storm drain line to proposed wetland. Consultant preparing design and submittal to SCDOT.
2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – 90% Design submittal under review

Regional Coordination

1. Town of Bluffton and Beaufort County Joint meetings on Sanitary Sewer in the May River watershed – No additional update at this time. The last meeting was held on July 18, 2019.
2. Mossy Oaks Task Force – (Design \$20,404, Construction \$205,000; County portions only). See Municipal Reports.
3. Charleston Area MS4 managers group – No additional update at this time. The last meeting was held on July 25th in Charleston.
4. May River Watershed Modeling – See municipal reports for more information.
5. Port Royal Sound Conservation Working Group – No additional update at this time. This group last met on June 14th.

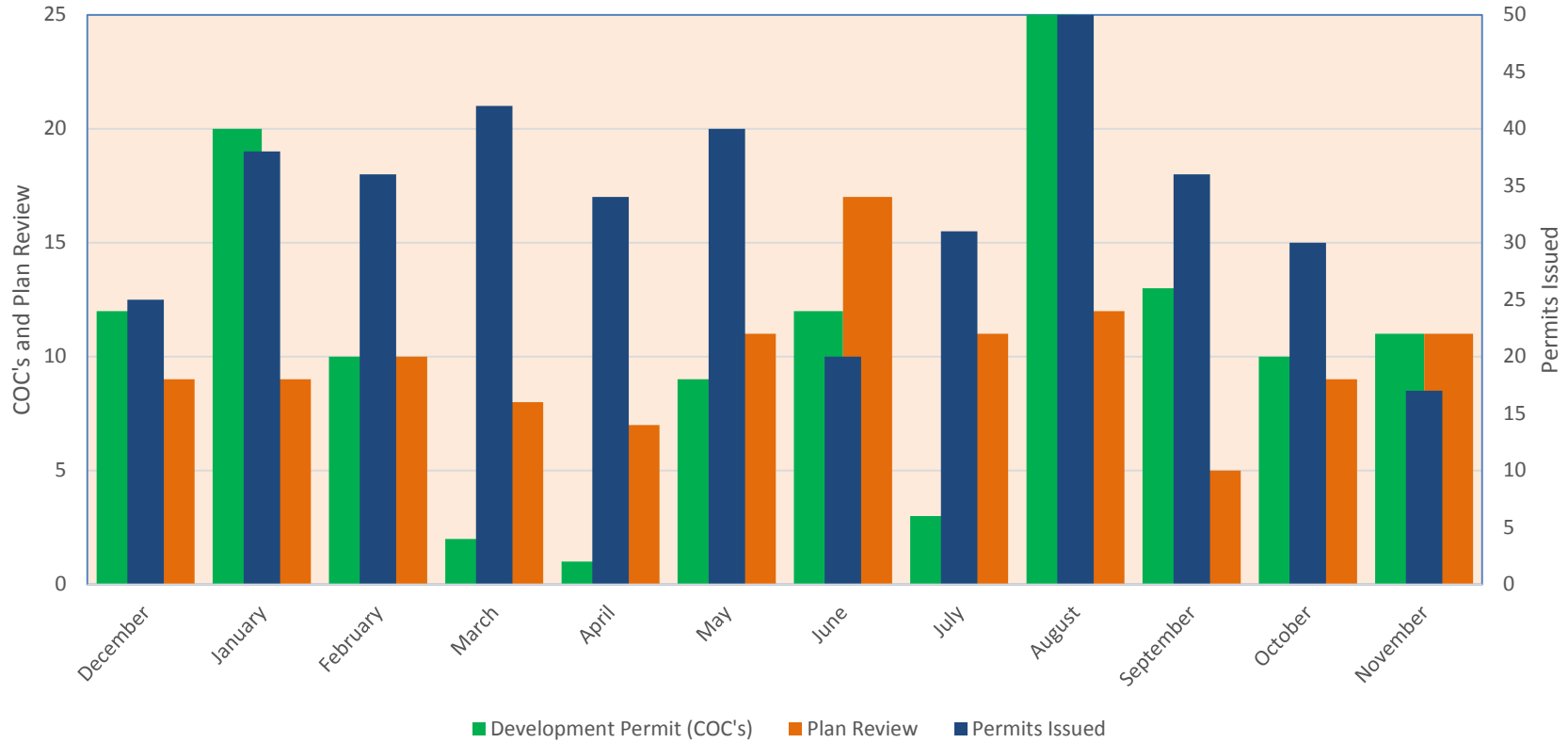
Municipal Reports

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. No information was available at the time of this report.
3. City of Beaufort (From Nate Farrow, Public Works Director)
 - i. No 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

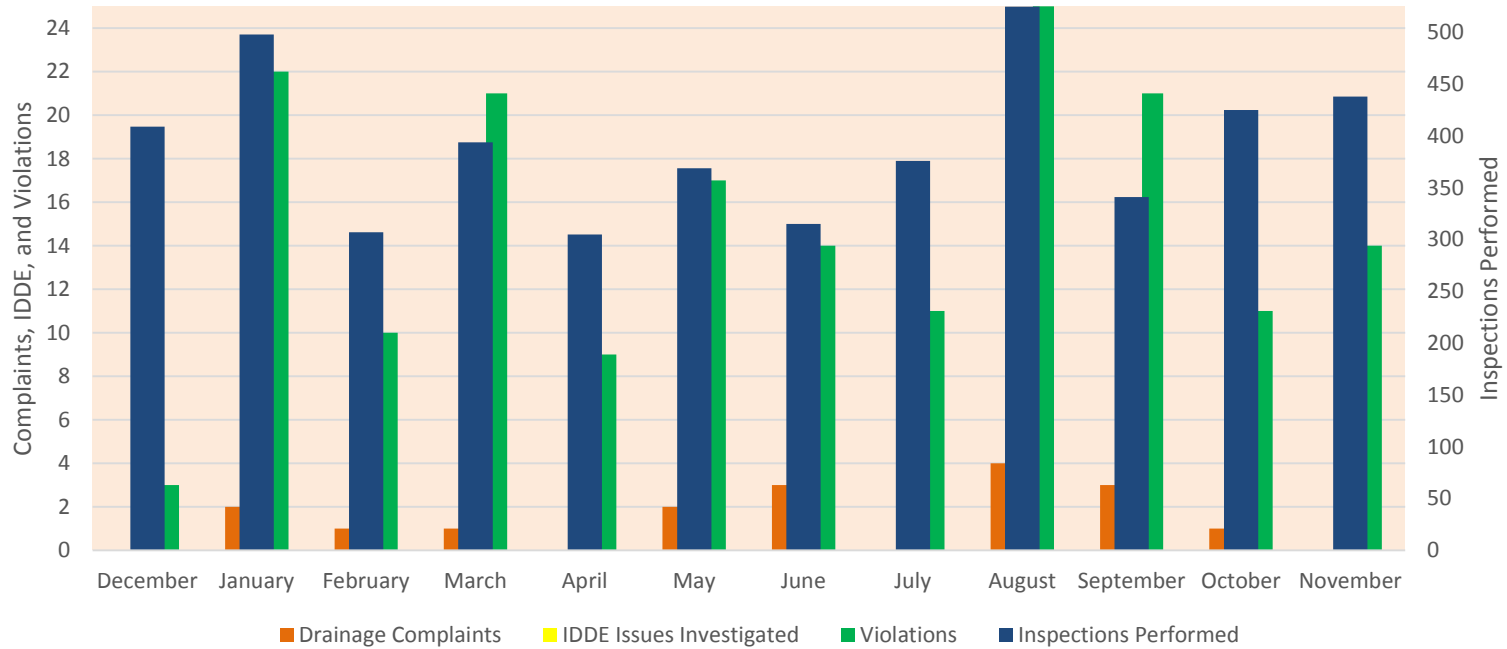
1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months.
2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.
3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
4. Weather Station Data. [See attached chart.](#)
5. Public Education – The Pond Conference was held on November 14th.
6. Energov permitting software – No update at this time
7. MS4 Statewide General permit – No update at this time.
8. Statewide General permit for Construction – No update at this time.
9. Able Contracting Site – DHEC presentation under New Business.
10. Annual MS4 Report – The annual report covering January 1, 2019 to October 1, 2019 was submitted via mail to DHEC on November 26th. [View Report.](#)

MS4 Minimum Control Measure #5 Stormwater Plan Review



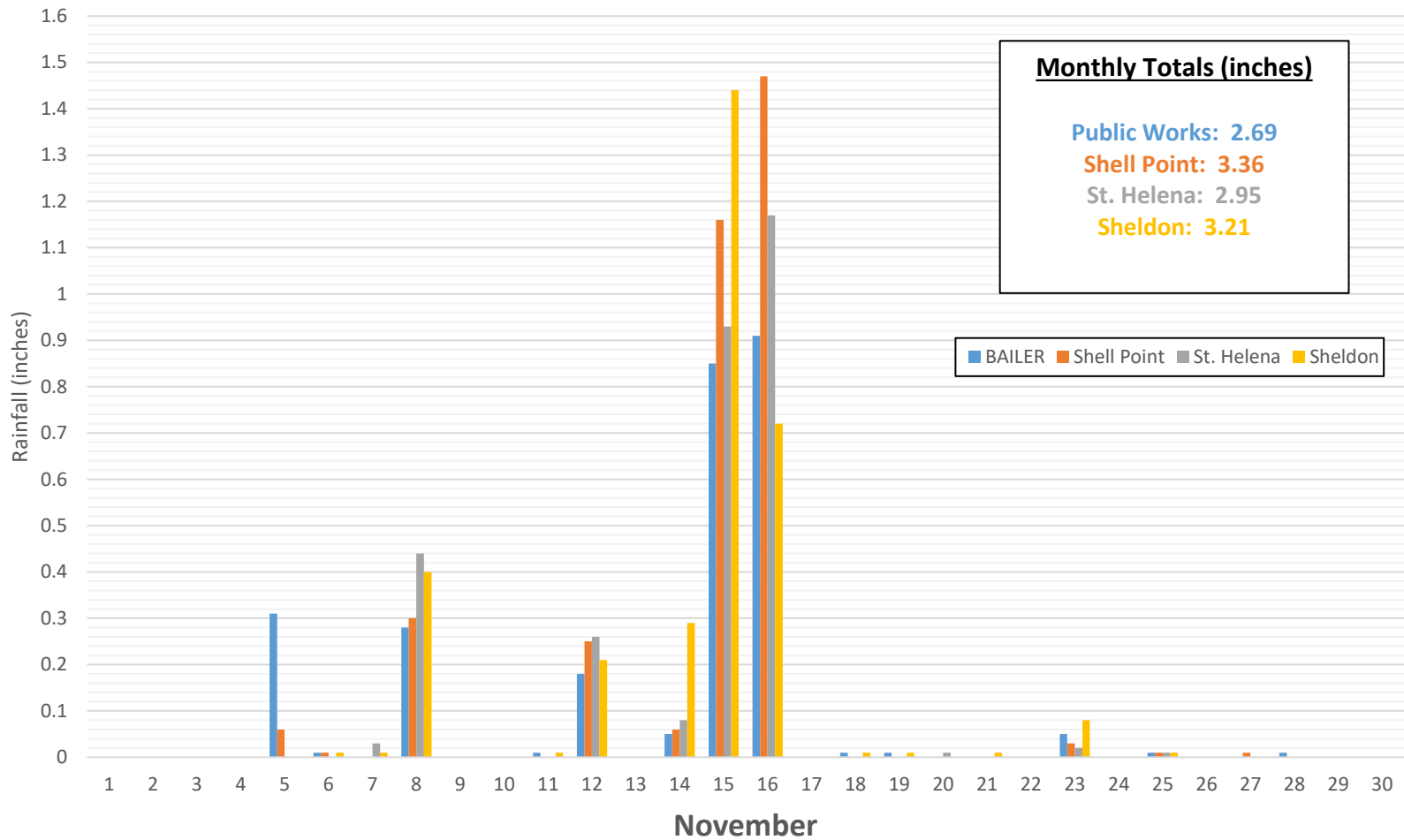
TYPE	December	January	February	March	April	May	June	July	August	September	October	November	Last 12 Months
Development Permit (COC's)	12	20	10	2	1	9	12	3	39	13	10	11	142
Plan Review	9	9	10	8	7	11	17	11	12	5	9	11	119
Permits Issued	25	38	36	42	34	40	20	31	50	36	30	17	399

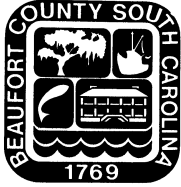
MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	December	January	February	March	April	May	June	July	August	September	October	November	Last 12 Months
Inspections Performed	409	498	307	394	305	369	315	376	525	341	425	438	4702
Drainage Complaints	0	2	1	1	0	2	3	0	4	3	1	0	17
IDDE Issues Investigated	1	0	1	0	1	2	3	2	2	1	1	1	15
Violations	3	22	10	21	9	17	14	11	29	21	11	14	182

Beaufort County Weather Stations Daily Rainfall Amounts - November 2019





MEMORANDUM

Date: December 11, 2019

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

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

Major Project:

- **Woodbridge Subdivision - Bluffton (SWUD 4):** This project improved 623 feet of drainage system. The scope of work included bush hogging 560 feet of roadside ditch, removing blockage from flowline, cleaning out 575 feet of roadside ditch, jetting 40 feet of roadside pipe, extending 8 feet of channel pipe and repairing a sinkhole. The total cost was **\$16,374.36**.

Minor or Routine Projects:

- **Sheldon Washout Repair – (SWUD 5):** The scope of work included installing 1 access pipe and repairing washouts. The total cost was **\$12,181.42**.
- **Bluffton Washout/Sinkhole Repair – Bluffton (SWUD 4):** The scope of work included cleaning out 1 catch basin, repairing washouts and sinkholes. The total cost was **\$9,924.84**.
- **Clydesdale Circle – Port Royal Island (SWUD 6):** The scope of work included replacing 1 driveway pipe. The total cost was **\$7,443.75**.
- **Hilton Head Island Airport Bush Hog – Hilton Head Island (SWUD 3):** This project improved 8,264 feet of drainage system. The scope of work included bush hogging 5,398 feet of channel and 2,866 feet around the pond. The total cost was **\$6,717.16**.
- **Lady’s Island Airport Bush Hog – Lady’s Island (SWUD 7):** This project improved 19,633 feet of drainage system. The scope of work included bush hogging 14,300 feet of channel and 5,333 feet of roadside ditch. The total cost was **\$6,337.16**.
- **Bay Pines Drive – Hilton Head Island (SWUD 3):** The scope of work included replacing 1 driveway pipe. The total cost was **\$6,227.06**.
- **St. Helena Island Washout Repair/Sinkhole Repair – St. Helena Island (SWUD 8):** The scope of work included repairing a washout and sinkhole. The total cost was **\$2,056.98**.
- **St. Helena Island Washout Repair – St. Helena Island (SWUD 8):** The scope of work included repairing washouts. The total cost was **\$1,701.20**.

- **Sheldon Tree Removal – (SWUD 5):** The scope of work included removing fallen trees from workshelf and blockage from flowline. The total cost was **\$598.55.**



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Woodbridge Subdivision- Parkside Drive and Buckwalter Parkway

Activity: Routine/Preventive Maintenance

Duration: 06/07/19-06/18/19

Narrative Description of Project:

Project improved 623 L.F. of drainage system. Bush hogged 560 L.F. of roadside ditch. Removed blockage from flowline. Cleaned out 575 L.F. of roadside ditch. Jetted 40 L.F. of roadside pipe. Extended 8 L.F. of channel pipe. Repaired sinkhole.

2019-570 / Woodbridge Subdivision

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
ASI / Asphalt Installation	30.0	\$652.60	\$79.79	\$33.32	\$0.00	\$297.00	\$1,062.71
AUDIT / Audit Project	2.0	\$43.58	\$0.00	\$0.00	\$0.00	\$0.00	\$43.58
CHPEX / Channel Pipe - Extended	40.0	\$863.15	\$179.15	\$125.52	\$0.00	\$429.30	\$1,597.12
HAUL / Hauling	65.0	\$1,547.00	\$1,207.12	\$576.85	\$0.00	\$720.65	\$4,051.62
PP / Project Preparation	40.5	\$1,398.20	\$48.60	\$71.57	\$126.37	\$401.90	\$2,046.63
RDBH / Roadside ditch - bushhogged	28.0	\$719.56	\$129.68	\$24.53	\$0.00	\$304.32	\$1,178.09
RSDCL / Roadside Ditch - Cleanout	80.0	\$1,702.35	\$272.41	\$62.59	\$0.00	\$838.20	\$2,875.55
RSPJ / Roadside Pipe - Jetted	20.0	\$445.60	\$383.20	\$78.90	\$0.00	\$286.80	\$1,194.50
SD / Soft Digging	10.0	\$222.80	\$191.60	\$77.60	\$0.00	\$143.40	\$635.40
SR / Sinkhole repair	40.0	\$863.20	\$72.00	\$313.76	\$0.00	\$429.30	\$1,678.26
UTLOC / Utility locates	0.5	\$10.90	\$0.00	\$0.00	\$0.00	\$0.00	\$10.90
2019-570 / Woodbridge Subdivision Sub Total	356.0	\$8,468.93	\$2,563.55	\$1,364.64	\$126.37	\$3,850.87	\$16,374.36
Grand Total	356.0	\$8,468.93	\$2,563.55	\$1,364.64	\$126.37	\$3,850.87	\$16,374.36

Before

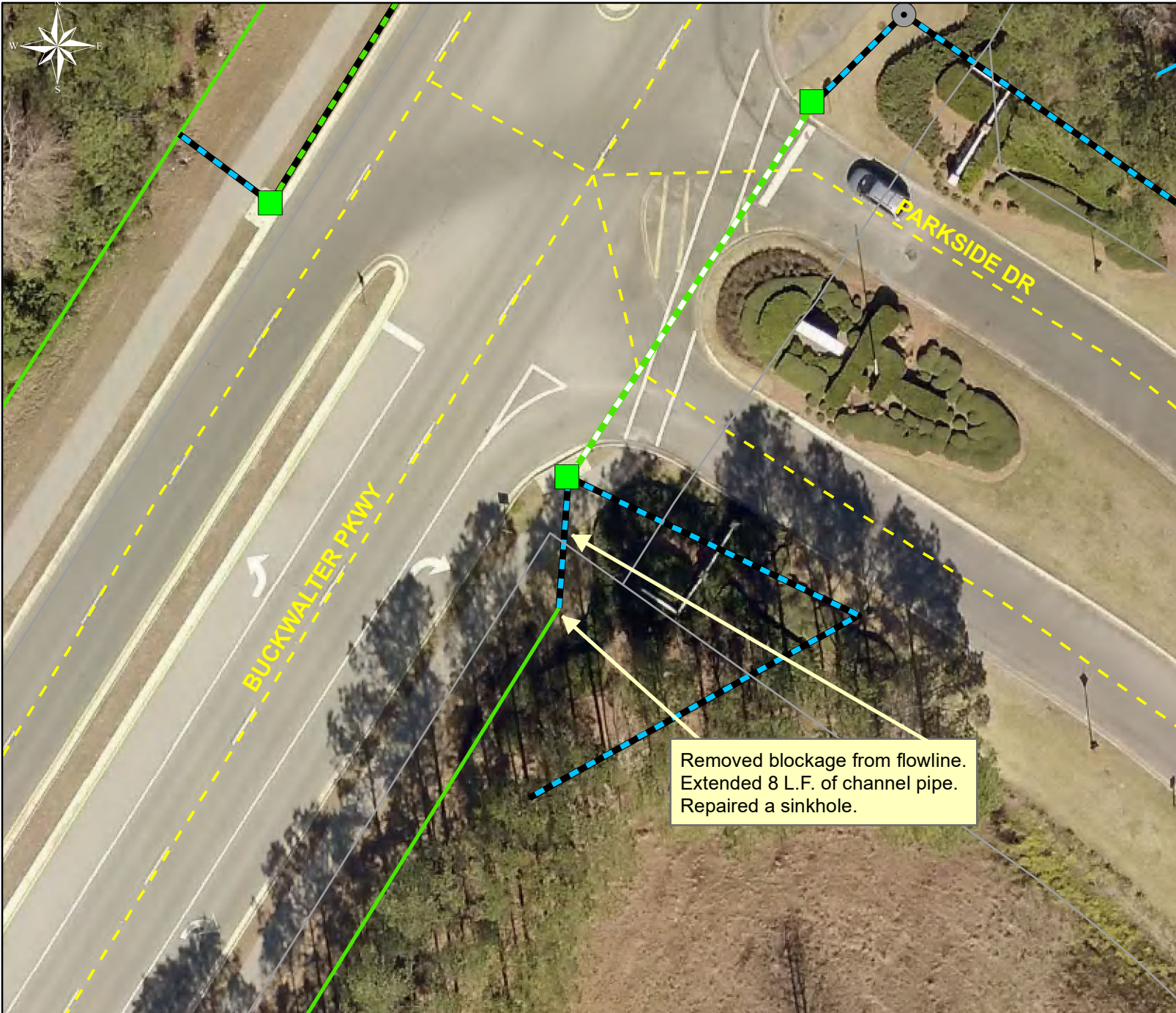


During



After





Project: Woodbridge Subdivision - Parkside Drive Map #1

Activity: Routine Preventive Maintenance














Project #: 2019-570

Township/SW Dist: Bluffton/4

Completed: June 2019

Legend

Drainage Type

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

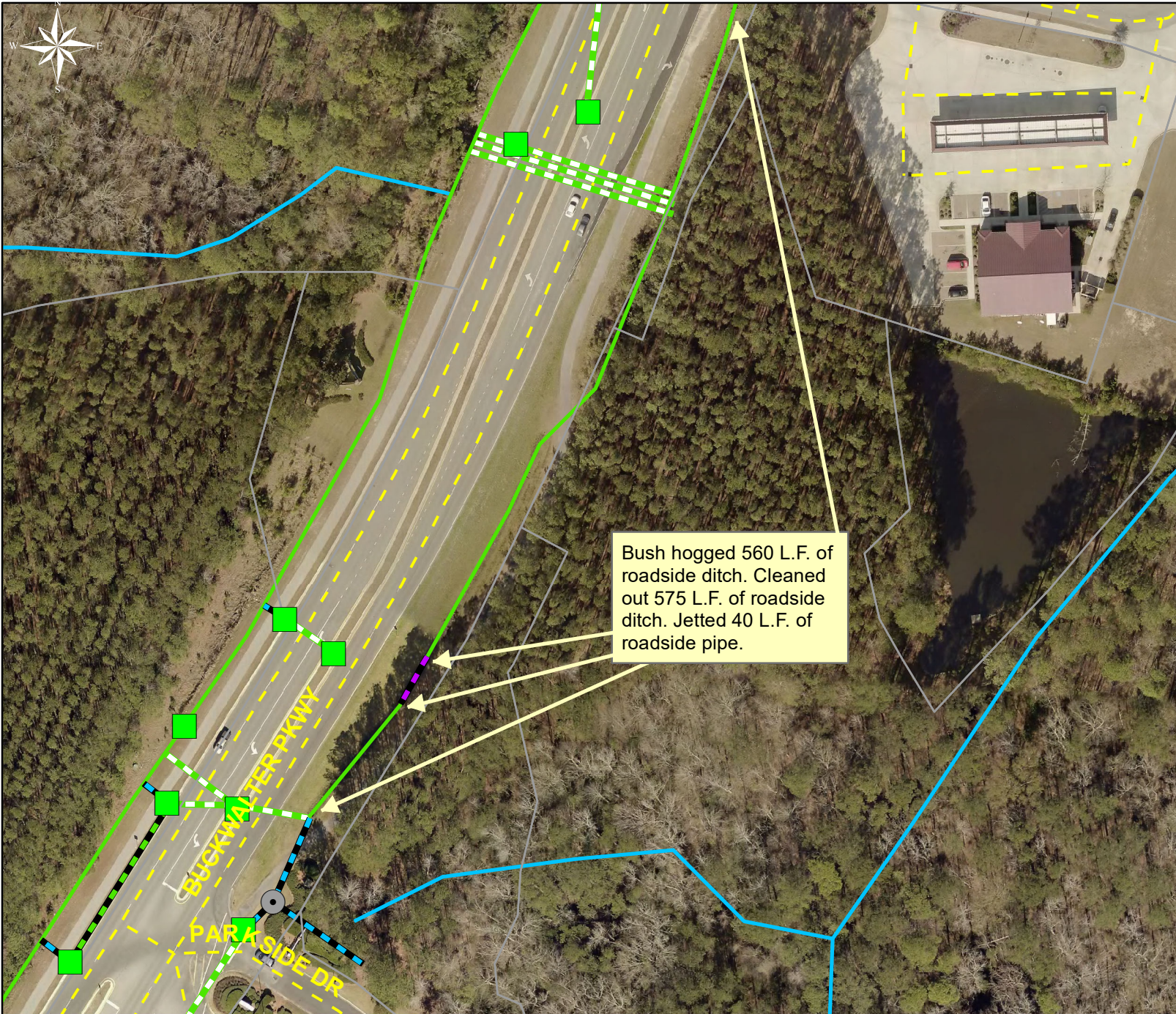
Removed blockage from flowline. Extended 8 L.F. of channel pipe. Repaired a sinkhole.

Prepared By: BC Stormwater Management Utility
Date Print: 10/17/19

File: C:\project summaries map\Woodbridge Subdivision - Parkside Drive Map #1_2019-570

0 5 10 20 30 40 Feet

1 inch = 33 feet



Project: Woodbridge Subdivision - Buckwalter Parkway Map #2

Activity: Routine Preventive Maintenance














Project #: 2019-570

Township/SW Dist: Bluffton/4

Completed: June 2019

Legend

Drainage Type

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

Bush hogged 560 L.F. of roadside ditch. Cleaned out 575 L.F. of roadside ditch. Jetted 40 L.F. of roadside pipe.

0 25 50 100 150 200 Feet **1 inch = 100 feet**

Prepared By: BC Stormwater Management Utility
Date Print: 10/17/19

File: C:\project summaries map\Woodbridge Subdivision - Buckwalter Parkway Map #2_2019-570



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Washout Repair
 Huspah Ct S, Jasmine Hall Road

Activity: Routine/Preventive Maintenance
Duration: 02/06/19-03/18/19

Narrative Description of Project:

Installed (1) access pipe. Repaired washouts.

2019-318A / Sheldon Washout Repair

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APINS / Access pipe - installed	90.0	\$1,921.20	\$402.02	\$674.29	\$0.00	\$858.60	\$3,856.11
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
HAUL / Hauling	49.0	\$1,151.98	\$693.84	\$3,054.31	\$0.00	\$757.83	\$5,657.96
PP / Project Preparation	12.0	\$265.86	\$10.80	\$16.31	\$0.00	\$128.79	\$421.76
RPWO / Repaired Washout	30.0	\$757.70	\$192.89	\$61.50	\$0.00	\$281.85	\$1,293.94
SG / Shoot Grade	15.0	\$334.13	\$60.94	\$17.48	\$0.00	\$214.65	\$627.19
STAGING / Staging Materials/Equipment	9.0	\$195.78	\$10.80	\$6.99	\$0.00	\$89.10	\$302.67
2019-318A / Sheldon Washout Repair Sub Total	206.0	\$4,648.44	\$1,371.29	\$3,830.87	\$0.00	\$2,330.82	\$12,181.42
Grand Total	206.0	\$4,648.44	\$1,371.29	\$3,830.87	\$0.00	\$2,330.82	\$12,181.42

Before



During

(Picture Not Available)

After





Project: Sheldon Washout Repair - Huspah Ct S Map #1

Activity: Routine/ Preventive Maintenance














Project #: 2019-318A

Township/SW Dist: Sheldon/5

Completed: March 2019

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 = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 011/27/19

File: C:\project summaries map\Sheldon Washout Repair - Huspah Ct S Map #1_2019-318A



Project: Sheldon Washout Repair - Jasmine Hall Road Map #2

Activity: Routine/ Preventive Maintenance














Project #: 2019-318A

Township/SW Dist: Sheldon/5

Completed: March 2019

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: 011/27/19

File: C:\project summaries map\Sheldon Washout Repair - Jasmine Hall Road Map #2_2019-318A



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Bluffton Washout/Sinkhole Repair
 Laurel Court, Plantation Park Drive, Fording Island Road Ext, Parkside Drive

Activity: Routine/Preventive Maintenance
Duration: 01/03/19-06/28/19

Narrative Description of Project:

Cleaned out (1) catch basin. Repaired washouts and sinkholes.

2019-319A / Bluffton Washout Repair

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
CBCO / Catch basin - clean out	20.0	\$445.60	\$383.20	\$58.32	\$0.00	\$286.80	\$1,173.92
HAUL / Hauling	25.0	\$553.76	\$354.00	\$421.74	\$0.00	\$346.08	\$1,675.58
PI / Project Inspection	10.0	\$204.60	\$18.00	\$20.50	\$0.00	\$127.20	\$370.30
RPWO / Repaired Washout	78.0	\$1,702.74	\$158.86	\$252.24	\$0.00	\$834.00	\$2,947.84
SR / Sinkhole repair	101.0	\$2,131.21	\$174.41	\$314.81	\$0.00	\$1,104.09	\$3,724.52
2019-319A / Bluffton Washout Repair Sub Total	235.5	\$5,070.60	\$1,088.47	\$1,067.60	\$0.00	\$2,698.17	\$9,924.84
Grand Total	235.5	\$5,070.60	\$1,088.47	\$1,067.60	\$0.00	\$2,698.17	\$9,924.84

Before



During



After

(No Picture Available)



Project: Bluffton Washout Repair/ Sinkhole Repair - Laurel Court Map #1

Activity: Routine/ Preventive Maintenance














Project #: 2019-319A

Township/SW Dist: Bluffton/4

Completed: June 2019

Legend

Drainage Type

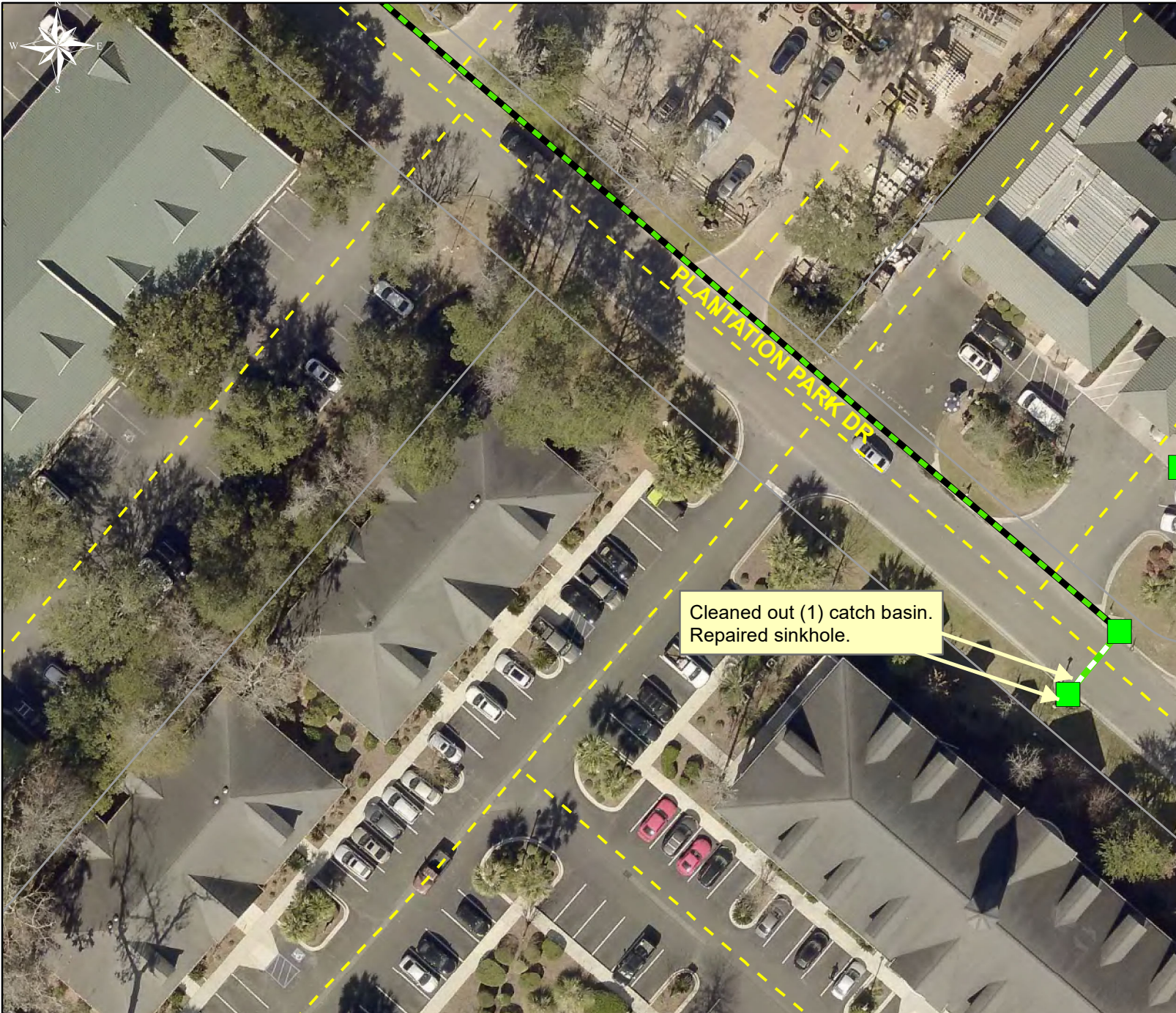
-  Access Pipe
-  Bleeder Pipe
-  Channel Pipe
-  Channel
-  Stream
-  Crossline Pipe
-  Driveway Pipe
-  Lateral
-  Lateral Pipe
-  River
-  Road Pipe
-  Roadside
-  Roadside Pipe

Prepared By: BC Stormwater Management Utility

Date Print: 011/20/19

File: C:\project summaries map\Bluffton Washout Repair - Laurel Court Map #1_2019-319A

0 15 30 60 90 120 **1 inch = 68 feet**
 Feet



Project: Bluffton Washout Repair/
Sinkhole Repair -
Plantation Park Drive Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2019-319A

Township/SW Dist:
Bluffton/4

Completed:
June 2019

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: 011/20/19

File: C:\project summaries map\Bluffton Washout Repair - Plantation Park Drive Map #2_2019-319A



Project: Bluffton Washout Repair/ Sinkhole Repair - Fording Island Road Ext Map #3

Activity: Routine/ Preventive Maintenance

Project #: 2019-319A

Township/SW Dist: Bluffton/4

Completed: June 2019

Legend

Drainage Type

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

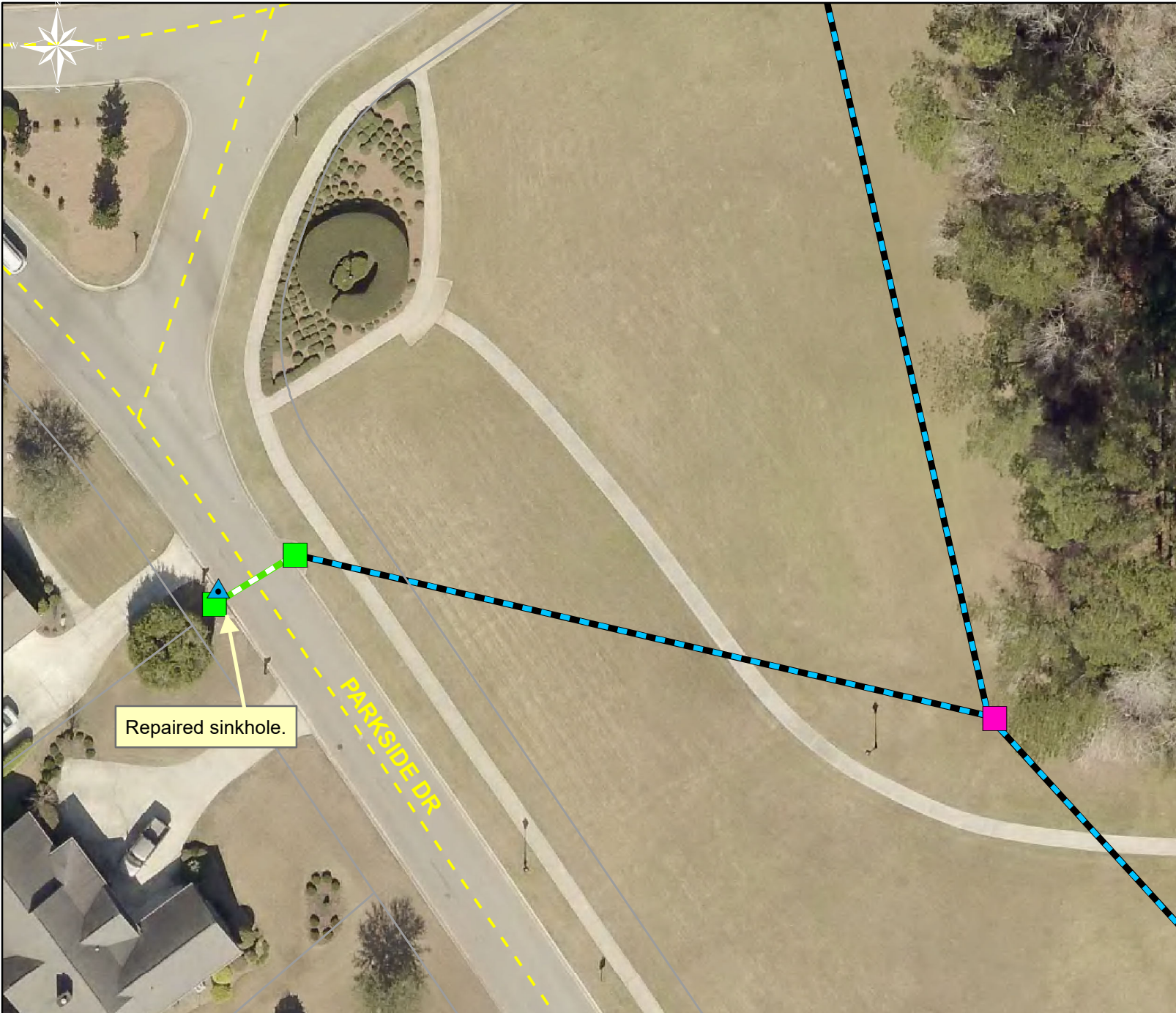
Repaired sinkhole.

0 20 40 80 120 160 1 inch = 83 feet
 Feet

Prepared By: BC Stormwater Management Utility

Date Print:011/20/19

File:C:\project summaries map\Bluffton Washout Repair - Fording Island Road Ext Map #3_2019-319A



Project: Bluffton Washout Repair/ Sinkhole Repair - Parkside Drive Map #4

Activity: Routine/ Preventive Maintenance

Project #: 2019-319A

Township/SW Dist: Bluffton/4

Completed: June 2019

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 1 inch = 42 feet
 Feet

Prepared By: BC Stormwater Management Utility

Date Print: 011/20/19

File: C:\project summaries map\Bluffton Washout Repair - Parkside Drive Map #4_2019-319A



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Clydesdale Circle

Activity: Routine/Preventive Maintenance

Duration: 10/22/19-10/29/19

Narrative Description of Project:

Replaced (1) driveway pipe.

2020-021 / Clydesdale Circle

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
ASI / Asphalt Installation	80.0	\$1,685.20	\$217.76	\$84.76	\$0.00	\$673.50	\$2,661.22
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
DPRPL / Driveway Pipe - Replaced	57.0	\$1,212.82	\$287.88	\$354.24	\$0.00	\$647.07	\$2,502.01
HAUL / Hauling	20.0	\$445.40	\$283.20	\$1,230.83	\$0.00	\$288.40	\$2,247.83
UTLOC / Utility locates	0.5	\$10.90	\$0.00	\$0.00	\$0.00	\$0.00	\$10.90
2020-021 / Clydesdale Circle Sub Total	158.5	\$3,376.11	\$788.84	\$1,669.83	\$0.00	\$1,608.97	\$7,443.75
Grand Total	158.5	\$3,376.11	\$788.84	\$1,669.83	\$0.00	\$1,608.97	\$7,443.75

Before

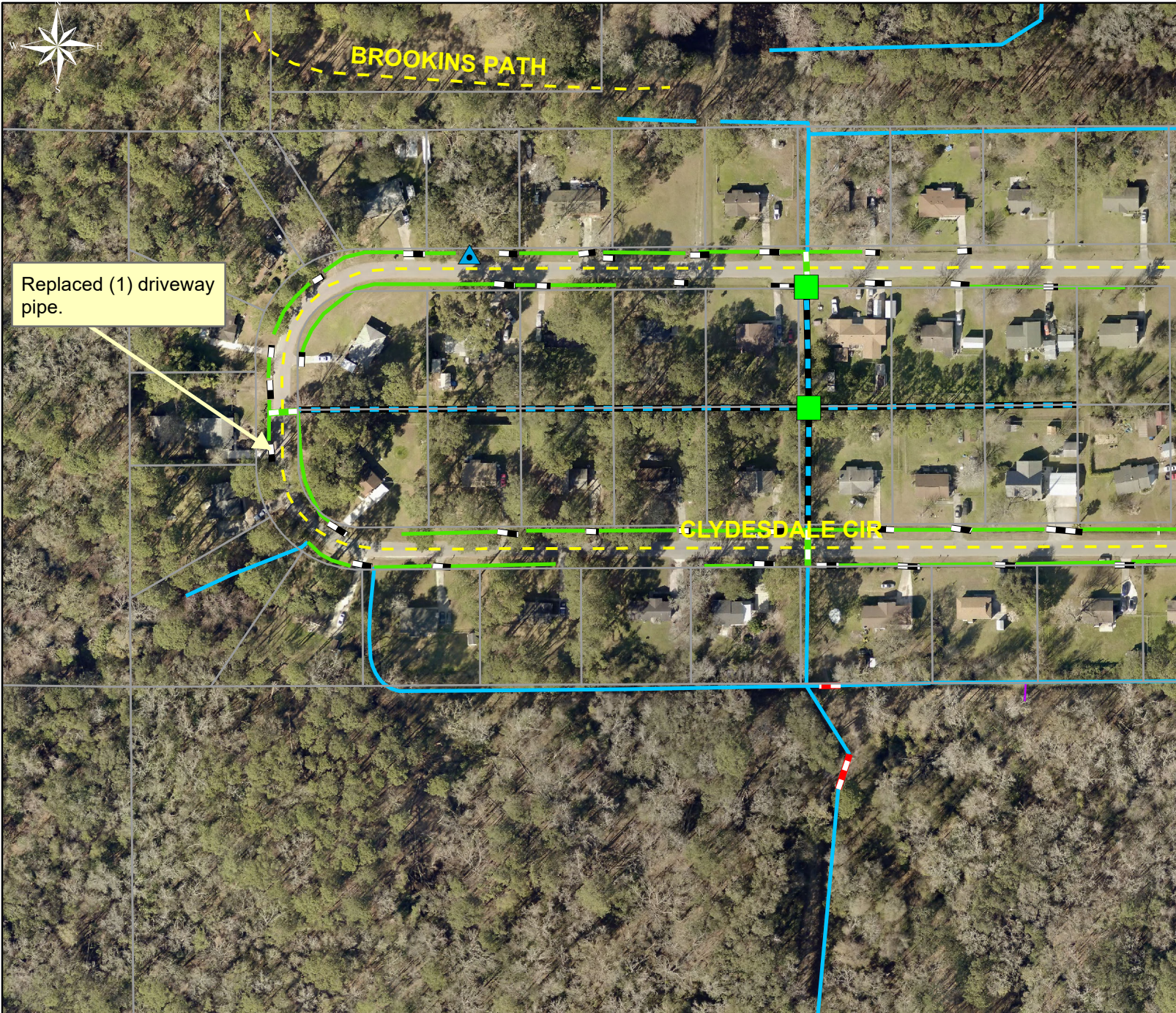


During



After





Project: Clydesdale Circle

Activity: Routine Preventive Maintenance














Project #: 2020-021

Township/SW Dist: Port Royal Island/6

Completed: October 2019

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



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Hilton Head Island Airport Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 07/17/19-07/26/19

Narrative Description of Project:

First Rotation: 07/17/19-07/26/19 Project improved 8,264 L.F. of drainage system. Bush hogged 5,398 L.F. of channel and 2,866 L.F. around pond. This project consisted of the following areas: Hilton Head Airport (8,264 L.F.)

2020-305 / Hilton Head Island Airport

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
CBH / Channel- bushhogged	60.0	\$1,337.10	\$391.44	\$140.07	\$0.00	\$860.40	\$2,729.01
HAUL / Hauling	6.0	\$137.94	\$207.84	\$51.48	\$0.00	\$0.00	\$397.26
PDBH / Ponds - bushhogged	60.0	\$1,337.00	\$429.42	\$143.27	\$0.00	\$860.40	\$2,770.09
RMTRW / Remove trees - Workshelf	13.0	\$454.43	\$60.48	\$86.19	\$0.00	\$197.91	\$799.01
2020-305 / Hilton Head Island Airport Sub Total	140.0	\$3,288.26	\$1,089.18	\$421.01	\$0.00	\$1,918.71	\$6,717.16
Grand Total	140.0	\$3,288.26	\$1,089.18	\$421.01	\$0.00	\$1,918.71	\$6,717.16

Before



During



After





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Lady's Island Airport Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 08/22/19-09/10/19

Narrative Description of Project:

First Rotation: 08/22/19-09/10/19 Project improved 19,633 L.F. of drainage system. Bush hogged 14,300 L.F. of channel and 5,333 L.F. of roadside ditch. This project consisted of the following areas: Airport Circle (19,633 L.F.)

2020-009 / Lady's Island Airport Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
CBH / Channel- bushhogged	90.0	\$2,001.75	\$932.46	\$240.30	\$0.00	\$1,168.50	\$4,343.01
RDBH / Roadside ditch - bushhogged	40.0	\$891.40	\$387.57	\$119.79	\$0.00	\$573.60	\$1,972.36
2020-009 / Lady's Island Airport Bush Hog Sub Total	131.0	\$2,914.94	\$1,320.03	\$360.09	\$0.00	\$1,742.10	\$6,337.16
Grand Total	131.0	\$2,914.94	\$1,320.03	\$360.09	\$0.00	\$1,742.10	\$6,337.16

Before



During



After





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Bay Pines Drive

Activity: Routine/Preventive Maintenance

Duration: 10/09/19-10/23/19

Narrative Description of Project:

Replaced (1) driveway pipe.

2020-019 / Bay Pines Drive

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
APREP / Asphalt Preparation	12.0	\$251.31	\$35.88	\$16.03	\$0.00	\$116.01	\$419.23
ASI / Asphalt Installation	50.0	\$1,025.30	\$99.48	\$58.00	\$0.00	\$519.00	\$1,701.78
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
DPRPL / Driveway Pipe - Replaced	28.0	\$586.39	\$75.36	\$689.37	\$0.00	\$270.69	\$1,621.81
HAUL / Hauling	17.0	\$380.75	\$240.72	\$642.17	\$0.00	\$201.88	\$1,465.52
STAGING / Staging Materials/Equipment	25.0	\$530.20	\$90.00	\$100.38	\$0.00	\$265.45	\$986.03
UTLOC / Utility locates	0.5	\$10.90	\$0.00	\$0.00	\$0.00	\$0.00	\$10.90
2020-019 / Bay Pines Drive Sub Total	133.5	\$2,806.64	\$541.44	\$1,505.95	\$0.00	\$1,373.03	\$6,227.06
Grand Total	133.5	\$2,806.64	\$541.44	\$1,505.95	\$0.00	\$1,373.03	\$6,227.06

Before



During



After





Project: Bay Pines Drive

Activity: Routine/ Preventive Maintenance














Project #: 2020-019

Township/SW Dist: Hilton Head Island/3

Completed: October 2019

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



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: St. Helena Island Washout Repair/Sinkhole Repair
Warsaw Road and White Sands Circle

Activity: Routine/Preventive Maintenance
Duration: 01/02/19-02/06/19

Narrative Description of Project:

Repaired washout and sinkhole.

2019-316A / St. Helena Island Washout Repair	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
HAUL / Hauling	9.0	\$185.48	\$127.44	\$262.58	\$0.00	\$57.68	\$633.18
PP / Project Preparation	6.0	\$121.56	\$7.20	\$6.72	\$0.00	\$75.30	\$210.78
RPWO / Repaired Washout	12.0	\$245.52	\$10.80	\$6.72	\$0.00	\$152.64	\$415.68
SD / Soft Digging	8.0	\$178.24	\$153.28	\$39.08	\$0.00	\$114.72	\$485.32
SR / Sinkhole repair	5.0	\$135.60	\$44.28	\$38.25	\$0.00	\$72.10	\$290.23
2019-316A / St. Helena Island Washout Repair Sub Total	41.0	\$888.19	\$343.00	\$353.35	\$0.00	\$472.44	\$2,056.98
Grand Total	41.0	\$888.19	\$343.00	\$353.35	\$0.00	\$472.44	\$2,056.98

(No Pictures Available)



Project: St. Helena
Island Washout
Repair/Sinkhole
Repair - Warsaw
Island Road Map #1

Activity: Routine/
Preventive
Maintenance














Project #:
2019-316A

Township/SW Dist:
St.Helena Island/8

Completed:
February 2019

Legend

Drainage Type

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

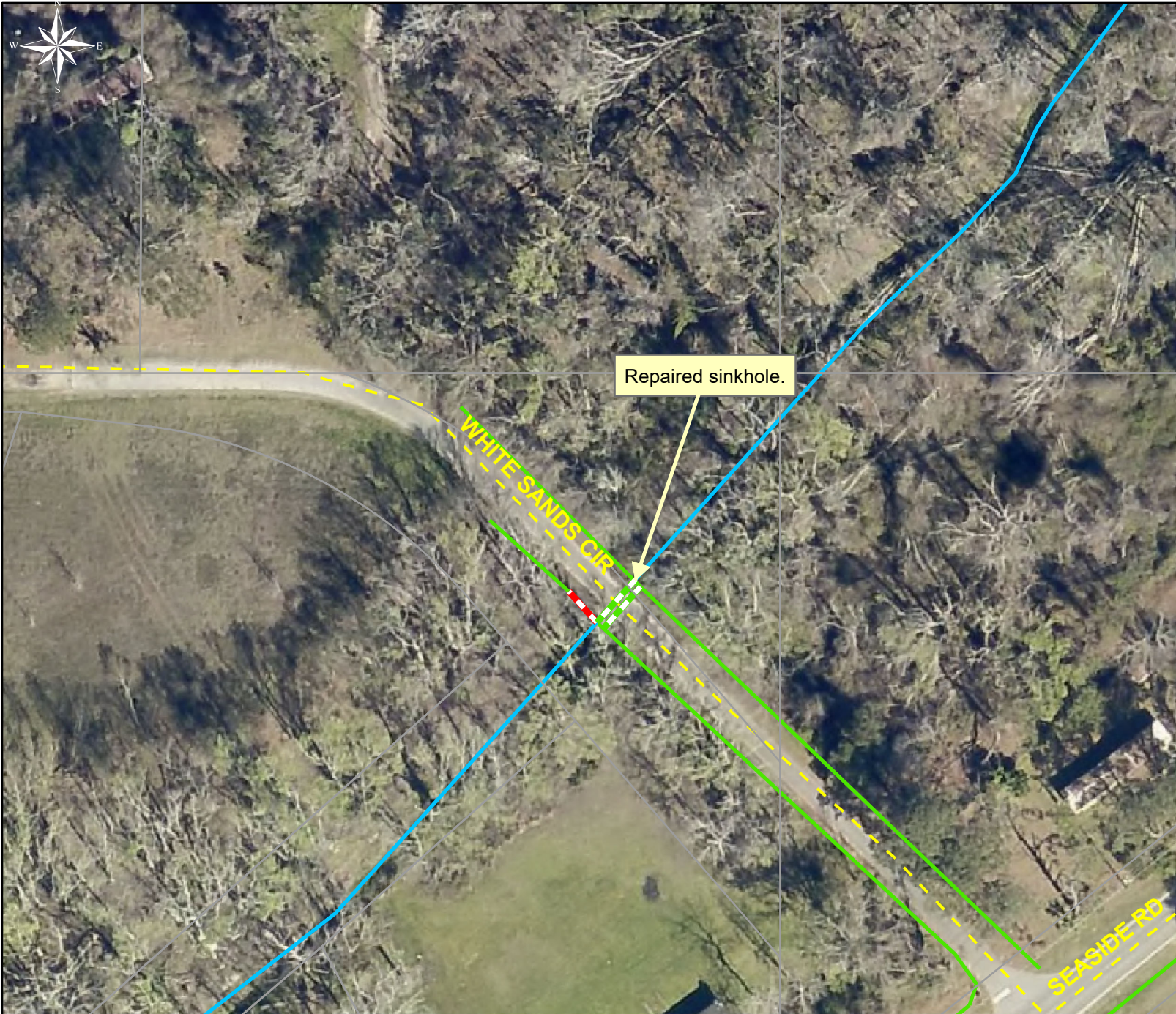


1 inch = 78 feet

Prepared By: BC Stormwater Management Utility

Date Print:011/20/19

File:C:\project summaries map\St. Helena Island Washout Repair - Warsaw Island Road Map #1_2019-316A



Project: St. Helena Island Washout Repair/Sinkhole Repair - White Sands Circle Map #2

Activity: Routine/ Preventive Maintenance














Project #: 2019-316A

Township/SW Dist: St. Helena Island/8

Completed: February 2019

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 15 30 60 90 120 Feet

1 inch = 72 feet

Prepared By: BC Stormwater Management Utility

Date Print: 011/20/19

File: C:\project summaries map\St. Helena Island Washout Repair - White Sands Circle Map #2_2019-316A



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: St. Helena Island Washout Repair- Warsaw Island Road

Activity: Routine/Preventive Maintenance

Duration: 11/08/18-12/17/18

Narrative Description of Project:

Repaired Washouts.

2019-316 / St. Helena Island Washout Repair	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
HAUL / Hauling	8.0	\$169.19	\$113.28	\$156.58	\$0.00	\$72.10	\$511.15
RPWO / Repaired Washout	27.0	\$557.82	\$84.72	\$177.69	\$0.00	\$348.03	\$1,168.26
2019-316 / St. Helena Island Washout Repair Sub Total	36.0	\$748.80	\$198.00	\$334.27	\$0.00	\$420.13	\$1,701.20
Grand Total	36.0	\$748.80	\$198.00	\$334.27	\$0.00	\$420.13	\$1,701.20

(No Pictures Available)



Project: St. Helena
Island Washout
Repair - Warsaw
Island Road

Activity: Routine/
Preventive
Maintenance














Project #:
2019-316

Township/SW Dist:
St.Helena Island/8

Completed:
December 2018

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 15 30 60 90 120
Feet

1 inch = 78 feet

Prepared By: BC Stormwater Management Utility

Date Print:011/20/19

File:C:\project summaries map\St. Helena Island Washout Repair - Warsaw Island Road _2019-316



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Tree Removal- Mitchell Road

Activity: Routine/Preventive Maintenance

Duration: 07/31/18-04/23/19

Narrative Description of Project:

Removed fallen trees from workshelf and blockage from flowline.

2019-510 / Sheldon Tree Removal	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
HAUL / Hauling	6.0	\$133.62	\$84.96	\$125.78	\$0.00	\$86.52	\$430.88
RMTRW / Remove trees - Workshelf	4.0	\$86.11	\$7.53	\$9.32	\$0.00	\$42.93	\$145.89
2019-510 / Sheldon Tree Removal Sub Total	11.0	\$241.52	\$92.49	\$135.10	\$0.00	\$129.45	\$598.55
Grand Total	11.0	\$241.52	\$92.49	\$135.10	\$0.00	\$129.45	\$598.55

(No Pictures Available)



Project: Sheldon
Tree Removal -
Mitchell Road

Activity: Routine/
Preventive
Maintenance














Project #:
2019-510

Township/SW Dist:
Sheldon/5

Completed:
April 2019

Legend

Drainage Type

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

Prepared By: BC Stormwater Management Utility

Date Print: 010/29/19

File: C:\project summaries map\Sheldon Tree Removal - Mitchell Road_2019-510

0 70 140 280 420 560
Feet

1 inch = 290 feet



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, January 8, 2020
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 – December 11, 2019 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
 - A. Utility Update – Daniel Rybak ([backup](#))
 - B. Monitoring Update – Daniel Rybak ([backup](#))
 - C. Stormwater Implementation Committee Report – Daniel Rybak ([backup](#))
 - D. Stormwater Related Projects – Daniel Rybak ([backup](#))
 - E. Upcoming Professional Contracts Report – Daniel Rybak ([backup](#))
 - F. Regional Coordination – Daniel Rybak ([backup](#))
 - G. Municipal Reports – Daniel Rybak ([backup](#))
 - H. MS4 Update – Daniel Rybak ([backup](#))
 - I. Maintenance Projects Report – Matthew Rausch ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. February 12, 2020 ([backup](#))
9. ADJOURNMENT