



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD
AGENDA Wednesday, December 12th, 2:00 p.m.
EXECUTIVE CONFERENCE ROOM
Beaufort, South Carolina 843.255.2805

1. CALL TO ORDER – 2:00p.m.

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.

- A. Approval of Agenda
- B. Approval of Minutes – October 18th, 2023 ([backup](#))

2. INTRODUCTIONS

3. PUBLIC COMMENT

4. REPORTS

- A. Utility Update – Katie Herrera ([backup](#))
- B. Monitoring Update – Katie Herrera ([backup](#))
- C. Stormwater Implementation Committee Report – Katie Herrera([backup](#))
- D. Regional Coordination – Katie Herrera ([backup](#))
- E. Municipal Reports – Taylor Brewer ([backup](#))
- F. Stormwater Related Projects – Taylor Brewer ([backup](#))
- G. Upcoming Professional Contracts Report – Taylor Brewer ([backup](#))
- H. MS4 Update – Taylor Brewer ([backup](#))
- I. Staff Update – Taylor Brewer ([backup](#))
- J. Maintenance Projects Report – Stephen Carter ([backup](#))
- K. Liaison Report - Ms. Alice Howard

5. UNFINISHED BUSINESS

- A. Board Consolidation Update - Katie Herrera

6. NEW BUSINESS - 2024 Schedule ([backup](#))

- A. 2024 Schedule Discussion - Taylor Brewer

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA

- A. Wednesday, February 14th ([backup](#))

9. ADJOURNMENT





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

October 18th, 2023, at 2:00 p.m.

County Council Chambers, 100 Ribaut Rd, Beaufort, SC

Board Members

Present

James Clark
Marc Feinberg
Ron Buchanan
Dennis Ross
Ed Warner
Patrick Mitchell

Absent

Steve Andrews

Ex-Officio Members

Present

Absent

Nate Farrow
Jeff Netzinger

Beaufort County Staff

Katie Herrera
Dafiney Butler
Pamela Cobb
Taylor Brewer
Harold Green
Bradley Harriott

Visitors

Alice Howard, County Council
Ellen Stirup-Comeau-Clemson
Jacob Terry- ToHHI
Tye Pettay-USCB
Bryan Durrance, City of Beaufort

1. Meeting called to order – Marc Feinberg at 2:01 pm

- A. Agenda – Approved
- B. Approval of Minutes – Approved

2. Introductions – Completed.

3. Public Comment(s) – None.

4. Special Shout Out – Welcome Taylor Brewer aboard as the Stormwater Manager

5. Reports

Reports attached in agenda

Highlights:

A. Utility Update – Katie Herrera

- ✓ Southern Lowcountry Regional Board (SoLoCo)
 - The city of Charleston are using our manual for guidance on special development cases.

- ✓ Special Presentation
 - Chairman Feinberg had requested the Board members to discuss a potential fall meeting, location TBD. Currently no updates.
- ✓ Annual Financial Report
 - After the discussion with the Municipalities last year, unaudited information is currently due.
 - Town of Hilton Head is currently not involved with the adoption of SoLoCo.
 - Completed the 2023 tax run successfully.

B. Monitoring Update – Daniel Pettay

Highlights:

- ✓ For the MOU, an updated addendum will need to include Mr. Pettay as the new Interim Lab Manager for the Water Quality Lab as of July 1, 2023.
- ✓ USCB is still operating under the previous MOU for Beaufort County.
- ✓ Water Quality Lab is looking to fill the Lab Manger position.

C. Stormwater Implementation Committee (SWIC) Report – Katie Herrera

Highlights:

- ✓ The discussion regarding the water quality lab, the education contract, and the stormwater utility fee.
- ✓ Making sure the stormwater fee is defensible. The goal is not to increase fees.
- ✓ Budget is sustainable through FY2027.
- ✓ CWI fee to be charged to manage the infrastructure within the unincorporated areas.

D. Regional Coordination – Katie Herrera

- ✓ The survey for the Old Woodlands has been completed.
- ✓ The 55 Garden property and Indian Trail drainage project, this easement has been give to the town of Hilton Head.

E. Stormwater Related Projects – Katie Herrera

Highlights:

- ✓ Continue to meet regularly about projects.
- ✓ Nov 8th is the next meeting for mediation on Factory Creek.
- ✓ Huspah Ct N – Contractors are installing sediment and erosion control BMPs.
- ✓ Bessies Lane – Scheduling a start date to begin work.
- ✓ Church of God – Project is completed with regard to a few repairs.
- ✓ No update on Arthur Horne Park.

F. Professional Contracts Report – Taylor Brewer

Highlights:

- ✓ Brewer Memorial – Closing out with engineer of record.
- ✓ Stormwater engineering consulting services – Woolpert

- b) Scope #11 – Northern Lady’s Island Drainage Study Phase II has been completed.
- c) Scope #12 – Monitoring Station and rain gauge at Okatie River headwaters almost in. Allocated funds - \$58,804.15. Working on a website to showcase water quality stations. Analyzing all the data that has been collected.
- e) Scope #14 – Rivers End Water Quality Improvements have been completed.

G. Municipal Reports

Highlights:

- ✓ Town of Hilton Head (Brian Eber)
 - 2 New Stormwater Inspectors
 - 150 Single Family Pulls
 - 25 General permits
 - Spearheaded two educational programs. Volunteers from the association collected over 425 oysters for restoration and erosion in about 1.5hrs.
- ✓ Town of Bluffton (From Nate Farrow)
 - 319 grant is still on going.
 - Town of Bluffton Heyward Cove study is completed.
 - Calhoun Restaurant area north project is still on going.
- ✓ City of Beaufort (Katie Herrera)
 - Leveraged funds from Federal Program for the Baynard St Drainage Project.

H. MS4 Update – Taylor Brewer

Highlights:

- ✓ Plan Review – steady influx.
- ✓ Stormwater Permits
- ✓ Monthly Inspection summary – staying very busy, team is excited about keeping in compliance.
- ✓ Stormwater Awareness Week was a success.
- ✓ Weather Station Data
- ✓ Education Report- Ellen Sturup Comeau
 - 200 individuals signed up for the Pet Waste Pledge.
 - Pond Conference will be held at USCB.
- ✓ MS4 Statewide General permit –

I. Maintenance Projects Report – Bradley Harriett.

Highlights:

- ✓ Major projects:
 - Lady’s Island Airport
 - Marblehead Road
 - Old Woodland Plantation
- ✓ Minor or routine projects:
 - Pleasant Point Road Channel- Lady’s Island
 - Bluffton Sinkhole Repair- Bluffton

- St. Helena Valley Drains- St. Helena Island
- Southern Magnolia Drive- Lady's Island

J. Liaison Report – Alice Howard

- ✓ New goat in the ponds that are collecting trash.
- ✓ Green Print committee has been meeting to review applications regarding the 1 cent sale tax.
- ✓ Mr. Feinberg wanted to thank Ms. Howard for being a great Liaison.

6. Unfinished Business –

- ✓ Board Consolidation
 - Stormwater Utility
 - Solid Waste and Recycle
 - Keep Beaufort County Beautiful
- ✓ The legal team decided to table the discussion for now. They felt there was no legal reason to do the consolidation. No decision has been made at this time.
- ✓ County Council will make the final decision.

7. New Business-

- ✓ Staff updates- 20 vacancies for stormwater.
- ✓ Alljoy- Marc Feinberg (Photos Presented). Mr. Feinberg went to Alljoy to meet with residents in n early October. He presented photos from his visit to discuss maintenance issues the residents are currently facing with both SCDOT, private, and County ROW.

8. No Public Comment.

- ✓ None.

9. Meeting Adjourned

- ✓ Meeting adjourned at 3:34pm



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



November 2023

Utility Update

1. Regionalization (SoLoCo)
 - a) Staff continues to support coordination on permitting standards.
 1. Amendments to the SoLoCo manual for adoption were approved at the 1/23/23 County Council meeting.
 - b) Staff continues to support other municipalities in their efforts to move forward with adoption.
2. Special presentation suggestions
 - a. Spring meeting location suggestions
3. Reminder: Annual Financial report from the Municipalities are due – 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 – Not Received.
 - b. Town of Hilton Head Island – Received.
 - c. Town of Bluffton – Not Received.
 - d. Town of Port Royal – Not Received.
 - e. City of Beaufort – Not Received.

Monitoring Update

1. [See attached report.](#)

Stormwater Implementation Committee (SWIC) Report

1. SWIC met on October 18th to discuss Clemson Extension, USCB Lab, future of Stormwater Utility Fees, CWI fees and the board consolidation. Next meeting date is in December.

Regional Coordination

1. Old Woodlands
 - a. Drainage easement for 55 Gardner was approved at PFC on November 27th. Moving to County Council for approval on December 11th.
2. Alljoy
 - a. Met with Ms. Laura on-site Oct 31 to discuss drainage and ditch issues. Ditches are in cue to be cut. Public Works is awaiting federal funding to address infrastructure issues.
 - b. The County is in the process of locating the drainage study already performed on the area to assist in assessment. A copy will be provided to Mr. Feinberg upon request at that time.

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Municipal Reports

1. Town of Hilton Head Island (From Jeff Netzing, Stormwater Manager and Jacob Terry, MS4 Coordinator)
 - i. No information was available at time of report.
2. Town of Bluffton (From Kim Jones, Watershed Management Division Director)
 - i. [See attached 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.

Stormwater Related Projects

1. Easements – Staff is working on easement requests and meets monthly to review status of each as well as any new easements.
2. Complaints – Staff continually works numerous drainage related complaints each month.
 - a) Shell Point Community – work has begun by the contractor in the designated project areas.
3. Factory Creek Watershed Regional Detention Basin “Phase II” – Mediation scheduled for November 8th, outcome pending.
4. On Call Stormwater infrastructure services – J.H. Hiers
 - a) Huspah Court N – Contractor has begun work. Sediment and erosion control and other site BMPs are being closely monitored.
 - b) Bessies Lane – Working with contractor to schedule start date.
5. Arthur Horne Park- New staff at USDA has indicated they want to move forward with approving our project. Staff is waiting on a response back from USDA on what else may need to be provided.

Professional Contracts Report

1. CIP FY 18 Grouping Stormwater Projects – (Design - Ward Edwards \$202,000, Andrews Engineering \$560,490, Const. est. \$5,512,900)
 - a) Brewer Memorial – Closeout pending SCDOT approval.
2. Stormwater engineering consulting services – Woolpert
 - a) Scope #8 – St. Helena Drainage Study. Final report received 6/30. Allocated funds – \$129,525.00. Staff initiating work on half of the proposed improvements from the study.
 - b) Scope #11 – Northern Lady’s Island Drainage Study Phase II – Draft report is

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completed. Stormwater field verified improvement suggestions. Comments will be provided to Woolpert and study will be finalized. Executive Summary will be provided upon request. Allocated funds – \$213,650.00

- c) Scope #12 – Staff working with Woolpert on website for public. Allocated funds - \$58,804.15
 - d) Scope #13 – NPDES SMS4 general permit assistance 2023. Allocated funds - \$40,000.00.
 - e) Scope #14 – Rivers End Water Quality Improvements – Data compilation, stormwater inventory and survey, potential BMP identification, model development, alternatives analysis, and drainage report. Allocated funds - \$174,465.00. Approved February 16, 2023. Survey complete and hydraulic modeling is complete, project is being QA/QC'd. Goal is to have project ready to go before the end of 2023.
 - f) Scope #15 – Plan Reviewing for MS4 Compliance – Allocated funds - \$40,000.00.
 - g) Scope # 16 – Tax Run – Woolpert has completed tax run for 2023. Allocated funds - \$52,320.00.
 - h) Scope #20 – Instructional video to walk developers & citizens through the Compliance Calculator is complete, featuring Julianna Hunter! Working internally to get video up and running on our website.
3. Scope #21 – New continuous monitoring station install and O&M. Beaufort County will be collaborating with DNR, Port Royal Sound Foundation and other local MS4s to analyze the best location for the next continuous monitoring station installation.
Allocated funds - \$94,589.73

Scopes on County and Woolpert Radar:

1. SWMP Update – staff to update stormwater management plan for DHEC.
2. 5 year Stormwater Utility Fee Assessment – Budget deep dive to look at next FY SWU fees.

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. Public Education – [See attached report.](#)
5. MS4 Statewide General permit – EPA has provided comments to SCDOT's MS4 permit.

Staff Update

1. Environmental Educator position now open! This person will provide educational materials and outreach to the local community for both Stormwater and Solid Waste & Recycling.

USCB Water Quality Lab Update November 2023

Beaufort County

USCB/Beaufort County Contract MOU: A contract is in place as of 6/7/22 with an expiration of 5 years on 6/6/27.

Monitoring for 2023 includes monitoring for the following categories:

Category 1: TMDL monitoring

Category 2: IDDE screening and monitoring

Category 3: Water quality monitoring (baseline, based upon 303d list)

Category 4: MOA points

Category 5: Special project monitoring

Status: Fourth quarter sampling is underway, with five sites collected for wet weather and five sites collected for dry weather.

Town of Bluffton

USCB/Town of Bluffton MOU: A contract is in place between the Town of Bluffton and USCB with a duration of five years (6/30/2028).

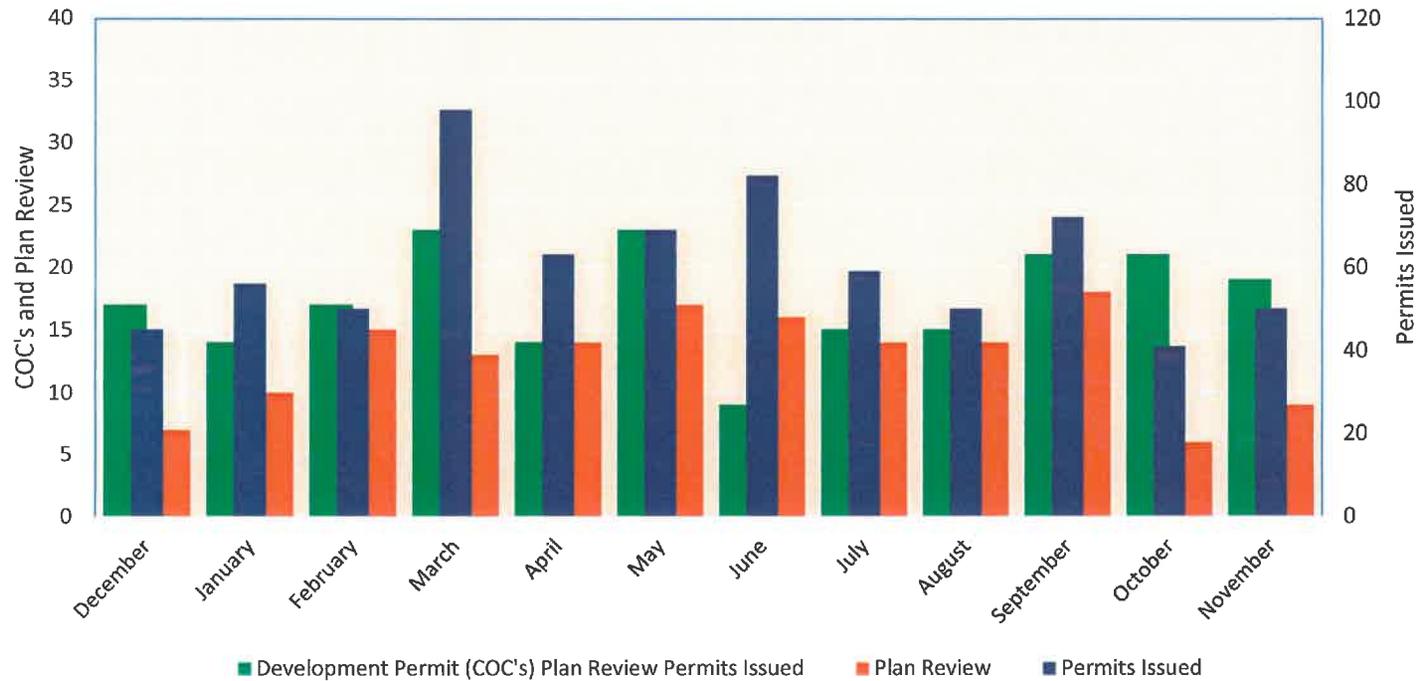
Monitoring for 2023 includes monitoring for the following categories: MS4, TMDL, Monthly, CIP, MRWAP and shared locations, along with sample collection for Bridge Street sites for wet weather. **Status:** Monitoring continues with additional sampling sites and increased frequency of 2X a month.

USCB Water Quality Laboratory

The job search to hire a Lab Manager continues. Hamp Simkins is on FMLA as of 10/30/23. To address the reduction in workforce, our part-time assistant, Lauryn Carrington, was promoted to full-time. Lauryn is now responsible for Beaufort County sampling and sample analyses, along with the Town of Bluffton sample analyses. A new part-time assistant is being hired and should start the week of 12/4/23 once onboarding is completed. The new assistant has extensive experience in environmental monitoring with the US Fish and Wildlife Service and SCDNR, among other agencies.

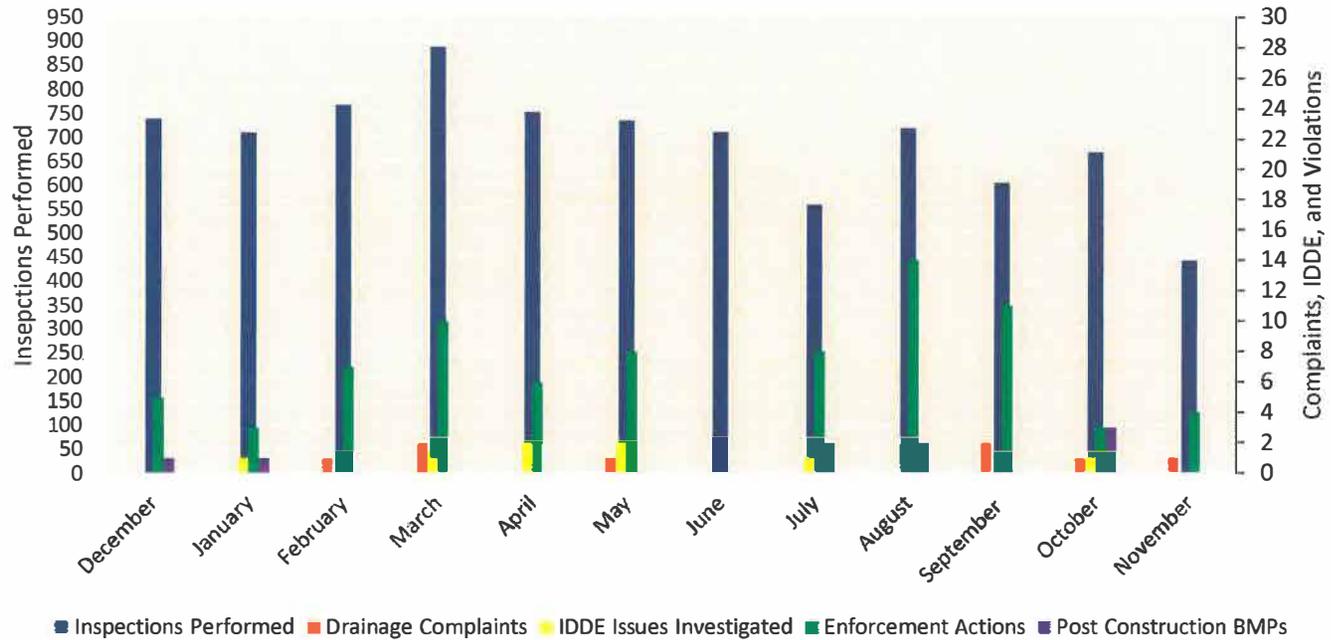
Palmetto Bluff: FY 2023 sampling efforts are 12x/year for 6 wet/6 dry events including the additional parameters requested by Town of Bluffton. **Status:** Continued collection.

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)	17	14	17	23	14	23	9	15	15	21	21	19	208
Plan Review	7	10	15	13	14	17	16	14	14	18	6	9	153
Permits Issued	45	56	50	98	63	69	82	59	50	72	41	50	735

MS4 Minimum Control Measure #4 Sediment & Erosion Control Inspections



TYPE	December	January	February	March	April	May	June	July	August	September	October	November	Last 12 Months
Inspections Performed	739	711	769	889	754	736	712	559	720	605	669	442	8305
Drainage Complaints	0	0	1	2	0	1	0	0	0	2	1	1	8
IDDE Issues Investigated	0	1	0	1	2	2	0	1	0	0	1	0	8
Enforcement Actions	5	3	7	10	6	8	0	8	14	11	3	4	79
Post Construction BMPs	1	1	0	0	0	0	0	2	2	0	3	0	9

LOWCOUNTRY STORMWATER PARTNERS MONTHLY REPORT

Project (Year 2022)	Project Type	POC	Direct/Indirect	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Small Grants Program	Programs	Bacteria, Freshwater	Direct												
Pet Waste Station Map	Programs	Bacteria	Indirect												
Pet Waste Displays at Local Orgs	Other	Bacteria	Indirect												
Septic Workshop	Programs	Bacteria	Direct												
Bilingual Septic Rack Cards	Publication	Bacteria	Indirect												
Septic "Welcome to the Neighborhood" Packets	Publication	Bacteria	Indirect												
Boater Informational Packet	Publication	Bacteria	Indirect												
Boater online resources	Publication	Bacteria	Indirect												
Boater Waste Signage	Media	Bacteria	Indirect												
Boater Waste Buckets/Bags	Purchases	Bacteria	Indirect												
Adopt-A-Landing/Clean Marina Program	Programs	Bacteria	Direct												
2023 Beaufort Stormwater Pond Conference	Programs	Nutrients	Direct												
Healthy Pond Series: North	Programs	Nutrients	Direct												
Healthy Pond Series: South	Programs	Nutrients	Direct												
Healthy Pond Series: Central	Programs	Nutrients	Direct												
Soil sample placards at retailers	Media	Nutrients	Indirect												
Native Plant Signage	Media	Nutrients	Indirect												
Native Seed Promo Packet	Purchases	Nutrients	Indirect												
Soil Sample Bags at Local Retailers	Other	Nutrients	Indirect												
Buffer Workshop	Programs	Nutrients	Direct												
LID Lunch-and-Learn	Programs	Freshwater	Direct												
BMP Park Field Day	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
LID Map/Website Updates	Programs	Freshwater	Indirect												
BMP info packet	Publication	Freshwater	Indirect												
BMP Social Media Campaign	Publication	Freshwater	Indirect												
2024 Strategic Plan Update	Publication	Consortium Management	Indirect												
Being a Neighbor for Clean Water (Fall)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
Rain Barrel Sale	Programs	Freshwater	Direct												
Adopt-A-Stream (Spring)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
Adopt-A-Stream (Fall)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
4-H2O (July)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
Kids in Kayaks	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
LSP consortium meeting (March)	Programs	Consortium Management	Direct												
LSP consortium meeting (June)	Programs	Consortium Management	Direct												
LSP consortium meeting (Sept)	Programs	Consortium Management	Direct												
LSP consortium meeting (Dec)	Programs	Consortium Management	Direct												
Water Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
May River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Keep Broad Creek Clean Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Beach/River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Soft Shell Crab Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Paris Island Earth Day	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Shrimp Fest	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Changing Tides (monthly)	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
News Article 1	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
News Article 2	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
News Article 3	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
FB posts (one a week)	Media	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
SWUB Report (monthly)	Reporting	Consortium Management	Indirect												
LSP Annual Report	Reporting	Consortium Management	Indirect												
Rack Cards	Purchases	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect												
Mailers	Purchases	Bacteria, Nutrients	Indirect												
LSP Promo Materials	Purchases	Consortium Management	Indirect												
Direct Contacts	Other	General Stormwater, Bacteria, Nutrients, Freshwater	Direct												
Rain Garden Workshop	Programs	Freshwater	Direct												

KEY	
	Not Started
	In Progress
	Completed
	Cancelled



MEMORANDUM

Date: December 1, 2023

To: Stormwater Management Utility Board

From: Stephen Carter, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

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

Major Projects:

- **Hunter Road and Cardinal Road – Hilton Head Island (3):** This project improved 1,751 linear feet of drainage system. The scope of work included cleaning out 1,518 linear feet of roadside ditch, replacing 233 linear feet of roadside pipe, jetting (1) driveway pipe and hydroseeding for erosion control. The total cost was **\$69,778.31**.
- **Sandy Ridge Road – Port Royal Island (9):** The scope of work included installing rip rap and hydroseeding for erosion control. The total cost was **\$20,924.26**.
- **David Green Road Channel – St. Helena Island (8):** This project improved 240 linear feet of drainage system. The scope of work included installing 240 linear feet of channel pipe, rip rap and hydroseeding for erosion control. The total cost was **\$57,429.25**.

Minor or Routine Projects:

- **African Baptist Church Road – Port Royal Island (8):** This project improved 510 linear feet of drainage system. The scope of work included cleaning out 510 linear feet of roadside ditch. The total cost was **\$5,115.97**.
- **Fox Island Road – Port Royal Island (6,9):** This project improved 1,688 linear feet of drainage system. The scope of work included cleaning out 1,688 linear feet of roadside ditch. The total cost was **\$9,949.29**.
- **Gardner Drive – St. Helena Island (8):** This project improved 4,000 linear feet of drainage system. The scope of work included repairing a washout and cleaning out 4,000 linear feet of road sweep. The total cost was **\$6,497.07**.

- **Joe Capers Road – St. Helena Island (8):** The scope of work included installing (1) driveway pipe. The total cost was **\$5,718.18**.
- **Rice Road – Port Royal Island (6):** This project improved 1,113 linear feet of drainage system. The scope of work included cleaning out 1,113 linear feet of roadside ditch. The total cost was **\$8,281.98**.
- **Sheldon Washout/Sinkhole Repair – Sheldon (5):** The scope of work included repairing washouts. The total cost was **\$12,023.19**.
- **Warsaw Island Road – St. Helena Island (8):** The scope of work included replacing (1) driveway pipe and installing rip rap for erosion control. The total cost was **\$12,136.67**.



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Hunter Road and Cardinal Road

Activity: Routine/Preventive Maintenance

Duration: 08/18/2023 - 09/20/2023

Narrative Description of Project:

Project improved 1,751 L.F. of drainage system. Cleaned out 1,518 L.F. of roadside ditch and replaced 233 L.F. of roadside pipe. Jetted (1) driveway pipe and hydroseeded for erosion control.

2024-504 / Hunter Road and Cardinal Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
ASI / Asphalt Installation	56.00	\$1,788.43	\$635.42	\$0.00	\$0.00	\$951.44	\$3,375.29
AUDIT / Audit Project	5.00	\$180.55	\$0.00	\$0.00	\$0.00	\$111.94	\$292.49
COMP / Compile Project	24.00	\$708.13	\$134.48	\$0.00	\$0.00	\$437.12	\$1,279.73
HAUL / Hauling	233.00	\$7,441.28	\$16,929.77	\$1,746.59	\$0.00	\$4,288.26	\$30,405.90
HYDR / Hydroseeding	16.00	\$493.91	\$244.66	\$1,791.73	\$0.00	\$327.92	\$2,858.22
ONJV / Onsite Job Visit	64.00	\$2,572.41	\$752.00	\$0.00	\$0.00	\$1,588.00	\$4,912.41
PP / Project Preparation	16.00	\$431.05	\$307.49	\$0.00	\$0.00	\$266.08	\$1,004.62
PURCH / Purchase supplies	0.00	\$0.00	\$0.00	\$0.00	\$567.00	\$0.00	\$567.00
RSDCL / Roadside Ditch - Cleanout	112.00	\$3,264.95	\$1,595.12	\$0.00	\$0.00	\$1,557.92	\$6,417.99
RSPJ / Roadside Pipe - Jetted	24.00	\$678.09	\$622.32	\$0.00	\$0.00	\$266.08	\$1,566.49
RSPR / Roadside Pipe - Replaced	120.00	\$3,712.33	\$1,869.71	\$1,691.68	\$0.00	\$2,291.56	\$9,565.28
SD / Soft Digging	16.00	\$482.40	\$622.32	\$7.00	\$0.00	\$145.28	\$1,257.00
TRAFCTRL / Traffic Control	104.00	\$3,010.78	\$1,327.76	\$0.00	\$0.00	\$1,858.40	\$6,196.94
UTLOC / Utilitv locates	1.50	\$48.83	\$0.00	\$0.00	\$0.00	\$30.14	\$78.96
Grand Total	791.50	\$24,813.12	\$25,041.05	\$5,237.00	\$567.00	\$14,120.14	\$69,778.31

Before



During



After





Project: ToHHI-
Hunter Road and
Cardinal Road

Activity: Routine/
Preventive
Maintenance

Project #:
2024-504

Township/SW Dist:
Hilton Head Island/3

Completed:
September 2023

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: 11/07/23

File: C:\project summaries map\ToHHI- Hunter Road and Cardinal Road_2024-504



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sandy Ridge Road

Activity: Routine/Preventive Maintenance

Duration: 09/25/2023 - 09/29/2023

Narrative Description of Project:

Installed rip rap and hydroseeded for erosion control

2024-519 / Sandy Ridge Road

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	2.00	\$72.22	\$0.00	\$0.00	\$0.00	\$44.58	\$116.80
HAUL / Hauling	62.50	\$2,177.11	\$4,911.88	\$5,610.52	\$0.00	\$1,433.86	\$14,133.37
HYDR / Hydroseeding	16.00	\$511.86	\$87.45	\$267.92	\$0.00	\$339.04	\$1,206.27
ONJV / Onsite Job Visit	16.00	\$804.82	\$188.00	\$0.00	\$0.00	\$496.80	\$1,489.62
RRI / Rip Rap - Installed	40.00	\$1,305.20	\$1,161.38	\$0.00	\$0.00	\$851.92	\$3,318.50
SWP / add dirt	8.00	\$281.56	\$204.35	\$0.00	\$0.00	\$173.80	\$659.71
Grand Total	144.50	\$5,152.76	\$6,553.06	\$5,878.44	\$0.00	\$3,340.00	\$20,924.26

(Before)



(During)



(After)



Project: Sandy Ridge Road

Activity: Routine/
Preventive
Maintenance

Project #:
2024-519

Township/SW Dist:
Port Royal Island/9

September 2023



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 = 130 feet

Prepared By: BC Stormwater Management Utility
Date Print: 11/17/23
File:C:\project summaries map/Sandy Ridge Road_2024-519



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: David Green Channel

Activity: Routine/Preventive Maintenance

Duration: 10/02/2023 - 10/23/2023

Narrative Description of Project:

Project improved 240 L.F. of drainage system. Installed 240 L.F. of channel pipe, rip rap and hydroseeded for erosion control.

2024-521 / David Green Channel	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	3.50	\$125.82	\$0.00	\$0.00	\$0.00	\$78.01	\$203.82
CLJS / Cleaned up jobsite	8.00	\$296.52	\$249.20	\$0.00	\$0.00	\$183.85	\$729.57
CPI / Channel Pipe - Installation	78.00	\$2,842.35	\$2,587.65	\$7,966.00	\$0.00	\$1,762.26	\$15,158.27
HAUL / Hauling	138.00	\$4,858.05	\$9,902.34	\$3,178.21	\$0.00	\$3,011.99	\$20,950.59
HYDR / Hydroseeding	10.00	\$375.35	\$147.86	\$344.89	\$0.00	\$232.72	\$1,100.82
LM / Loading Materials	25.25	\$957.18	\$11,941.74	\$0.00	\$0.00	\$593.45	\$13,492.36
ONJV / Onsite Job Visit	16.00	\$842.40	\$188.00	\$0.00	\$0.00	\$522.29	\$1,552.69
PP / Project Preparation	56.00	\$2,089.67	\$855.86	\$0.00	\$0.00	\$1,295.60	\$4,241.13
Grand Total	334.75	\$12,387.35	\$25,872.65	\$11,489.11	\$0.00	\$7,680.15	\$57,429.25

Before



During



After



Project: David Green Road Channel

Activity: Routine/ Preventive Maintenance

Project #: 2024-521

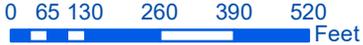
Township/SW Dist: St. Helena Island/8

October 2023



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

Installed 240 L.F. of channel pipe, rip rap and hydroseeded for erosion control.



1 inch = 330 feet



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: African Baptist Church Road

Activity: Routine/Preventive Maintenance

Duration: 08/09/2023 - 08/11/2023

Narrative Description of Project:

Project improved 510 L.F. of drainage system. Cleaned out 510 L.F. of roadside ditch.

2024-506 / African Baptist Church Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	0.50	\$18.06	\$0.00	\$0.00	\$0.00	\$11.15	\$29.20
HAUL / Hauling	16.00	\$494.08	\$1,257.44	\$0.00	\$0.00	\$0.00	\$1,751.52
ONJV / Onsite Job Visit	8.00	\$402.41	\$94.00	\$0.00	\$0.00	\$248.40	\$744.81
RSDCL / Roadside Ditch - Cleanout	40.00	\$1,101.86	\$773.86	\$0.00	\$0.00	\$714.72	\$2,590.44
Grand Total	64.50	\$2,016.40	\$2,125.30	\$0.00	\$0.00	\$974.27	\$5,115.97

(Before)



(During)



(After)



Project: African Baptist Church Road

Activity: Routine/
Preventive
Maintenance

Project #:
2024-506

Township/SW Dist:
Port Royal Island/6,9

Completed:
August 2023



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 = 420 feet

Prepared By: BC Stormwater Management Utility
Date Print: 11/07/23

File: C:\project summaries map\African Baptist Church Road_2024-506



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Fox Island Road

Activity: Routine/Preventive Maintenance

Duration: 10/26/2023 - 10/30/2023

Narrative Description of Project:

Project improved 1,688 L.F. of drainage system. Cleaned out 1,688 L.F. of roadside ditch.

2024-515 / Fox Island Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	0.50	\$18.06	\$0.00	\$0.00	\$0.00	\$11.19	\$29.25
HAUL / Hauling	24.00	\$775.27	\$1,886.16	\$0.00	\$0.00	\$480.67	\$3,142.09
ONJV / Onsite Job Visit	7.00	\$368.55	\$82.25	\$0.00	\$0.00	\$228.50	\$679.30
RSDCL / Roadside Ditch - Cleanout	96.00	\$2,914.01	\$1,242.05	\$0.00	\$0.00	\$1,805.23	\$5,961.29
UTLOC / Utility locates	2.50	\$84.87	\$0.00	\$0.00	\$0.00	\$52.48	\$137.35
Grand Total	130.00	\$4,160.76	\$3,210.46	\$0.00	\$0.00	\$2,578.07	\$9,949.29

(No Pictures Available)

Project: Fox Island Road

Activity: Routine/
Preventive
Maintenance

Project #:
2024-515

Township/SW Dist:
Port Royal Island/6,9

Completed:
October 2023



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 = 210 feet

Prepared By: BC Stormwater Management Utility
Date Print: 11/07/23
File: C:\project summaries map\Fox Island Road_2024-515



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Gardner Drive

Activity: Routine/Preventive Maintenance

Duration: 10/10/2023 - 10/13/2023

Narrative Description of Project:

Project improved 4,000 L.F. of drainage system. Repaired washout and road sweep 4,000 L.F.

2024-525 / Gardner Drive	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	1.00	\$36.11	\$0.00	\$0.00	\$0.00	\$22.39	\$58.50
HAUL / Hauling	24.00	\$861.00	\$1,886.16	\$732.83	\$0.00	\$533.82	\$4,013.80
RDSW / Street/Road Sweep	12.00	\$413.88	\$248.42	\$0.00	\$0.00	\$256.60	\$918.90
RPWO / Repaired Washout	16.00	\$624.48	\$465.96	\$0.00	\$0.00	\$387.18	\$1,477.61
UTLOC / Utility locates	0.50	\$17.44	\$0.00	\$0.00	\$0.00	\$10.81	\$28.25
Grand Total	53.50	\$1,952.90	\$2,600.54	\$732.83	\$0.00	\$1,210.80	\$6,497.07

(No Pictures Available)

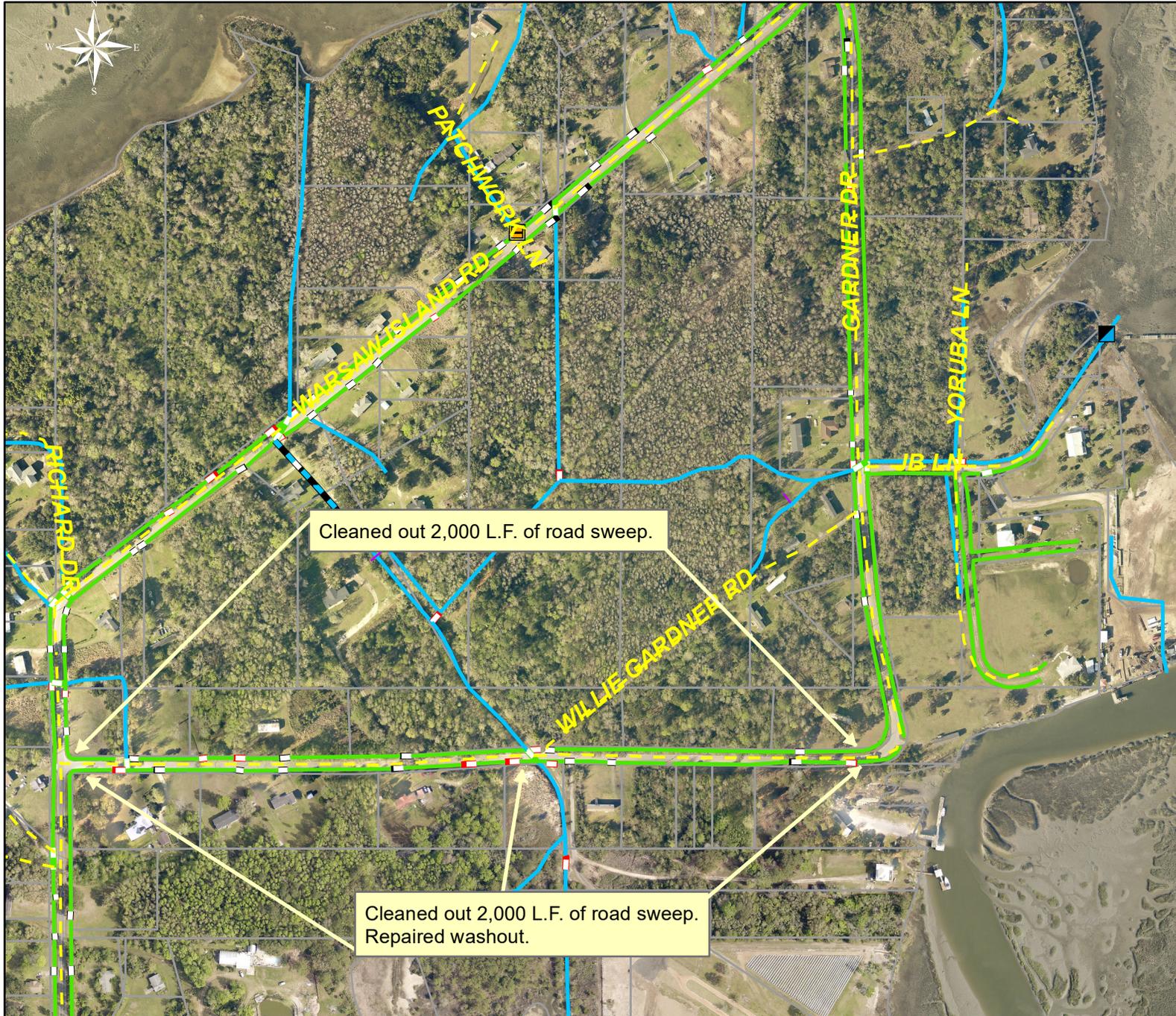
Project: Gardner Drive

Activity: Routine/
Preventive
Maintenance

Project #:
2024-525

Township/SW Dist:
St. Helena Island/8

Completed:
October 2023



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 = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 11/07/23

File: C:\project summaries map\Gardner Drive_2024-525



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Joe Capers Road

Activity: Routine/Preventive Maintenance

Duration: 09/28/2023

Narrative Description of Project:

Installed (1) driveway.

2024-516 / Joe Capers Road

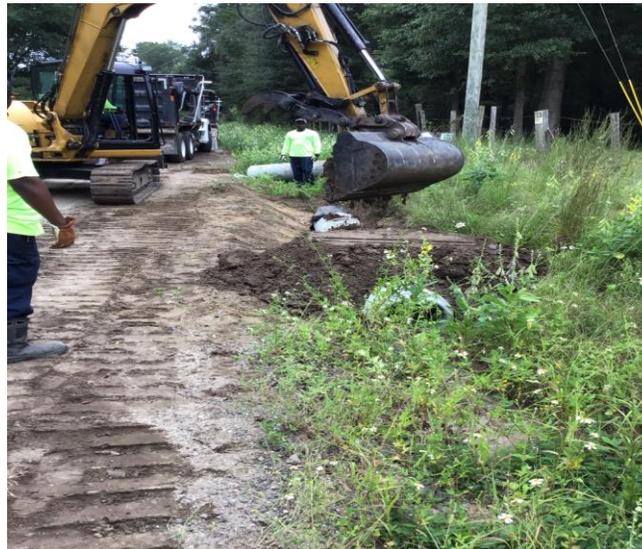
	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	0.50	\$18.06	\$0.00	\$0.00	\$0.00	\$11.15	\$29.20
DPINS / Driveway Pipe - Installed	16.00	\$563.11	\$408.70	\$398.46	\$0.00	\$370.72	\$1,740.99
HAUL / Hauling	24.00	\$830.88	\$1,886.16	\$630.87	\$0.00	\$547.44	\$3,895.35
UTLOC / Utility locates	1.00	\$32.55	\$0.00	\$0.00	\$0.00	\$20.09	\$52.64
Grand Total	41.50	\$1,444.60	\$2,294.86	\$1,029.33	\$0.00	\$949.40	\$5,718.18

(Before)

(During)

(After)

(No Pictures Available)





Project: Joe Capers Road

Activity: Routine/
Preventive
Maintenance

Project #:
2024-516

Township/SW Dist:
St. Helena Island/8

September 2023

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 = 200 feet

Prepared By: BC Stormwater Management Utility
Date Print: 110/15/23
File:C:\project summaries map\Joe Capers Road_2024-516



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Rice Road

Activity: Routine/Preventive Maintenance

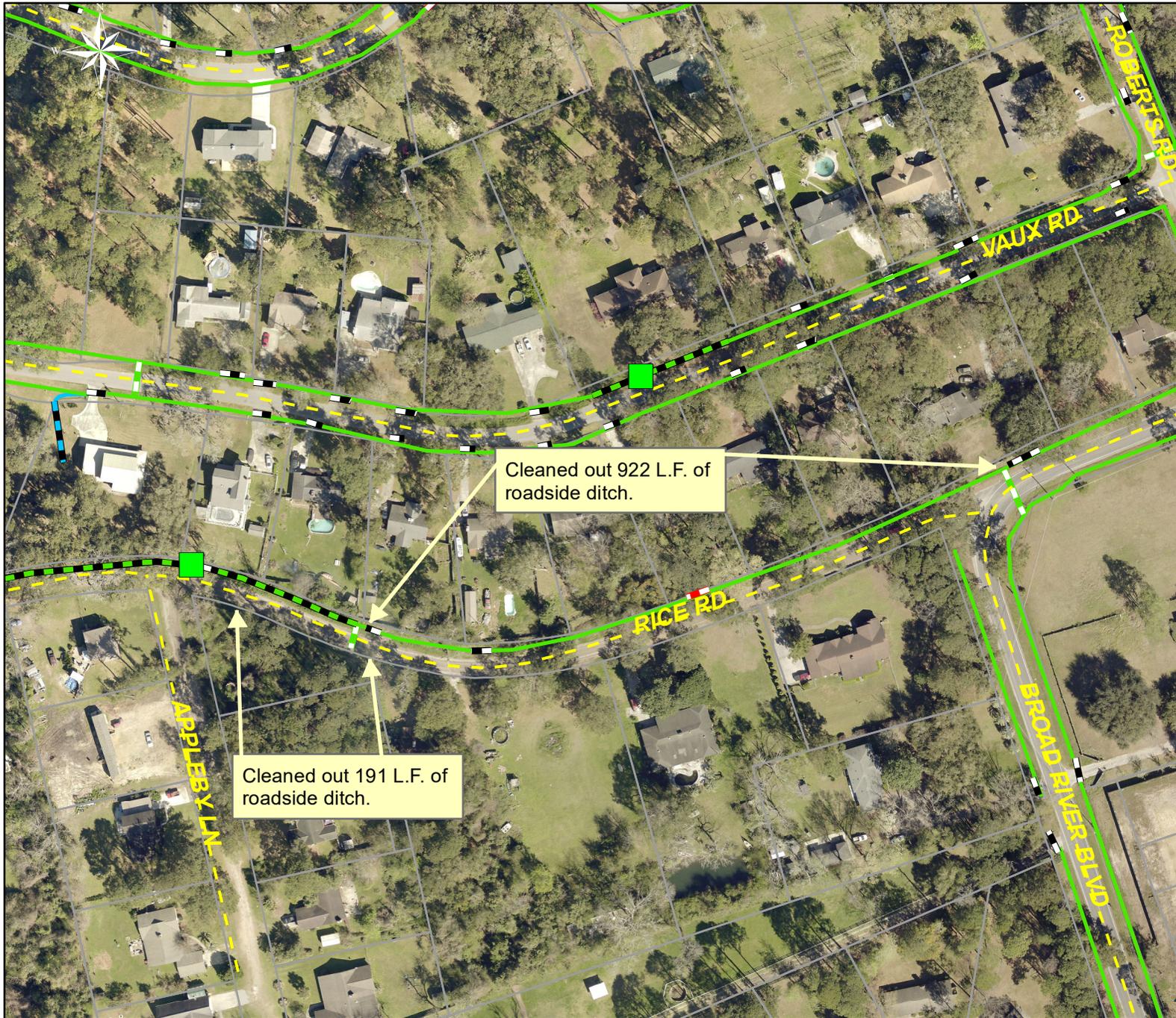
Duration: 10/02/2023 - 10/04/2023

Narrative Description of Project:

Project improved 1,113 L.F. of drainage system. Cleaned out 1,113 L.F. of roadside ditch.

2024-511 / Rice Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	1.00	\$36.11	\$0.00	\$0.00	\$0.00	\$22.39	\$58.50
HAUL / Hauling	20.00	\$675.73	\$1,519.48	\$0.00	\$0.00	\$418.96	\$2,614.17
ONJV / Onsite Job Visit	16.00	\$842.40	\$188.00	\$0.00	\$0.00	\$522.29	\$1,552.69
RSDCL / Roadside Ditch - Cleanout	48.00	\$1,380.60	\$1,165.24	\$0.00	\$0.00	\$855.00	\$3,400.84
TRAFCTRL / Traffic Control	8.00	\$227.19	\$204.24	\$0.00	\$0.00	\$140.86	\$572.29
UTLOC / Utility locates	1.50	\$51.16	\$0.00	\$0.00	\$0.00	\$32.34	\$83.50
Grand Total	94.50	\$3,213.19	\$3,076.96	\$0.00	\$0.00	\$1,991.83	\$8,281.98

(No Pictures Available)



Project: Rice Road

Activity: Routine/
Preventive
Maintenance

Project #:
2024-511

Township/SW Dist:
Port Royal Island/6

October 2023

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: Sheldon Washout/Sinkhole Repair
 Backache Acres, Big Estate Road and Old Dawson Acres.

Activity: Routine/Preventive Maintenance

Duration: 11/01/2023 - 05/11/2023

Narrative Description of Project:

Repaired washouts.

2023-422/Sheldon Washout / Sinkhole Repair

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.00	\$72.22	\$0.00	\$0.00	\$0.00	\$44.58	\$116.80
HAUL / Hauling	49.00	\$1,539.81	\$933.94	\$543.64	\$0.00	\$990.92	\$4,008.31
INSPRD / Inspection - Road	0.00	\$0.00	\$4.35	\$6.24	\$0.00	\$0.00	\$10.59
ONJV / Onsite Job Visit	16.00	\$736.16	\$69.60	\$65.45	\$0.00	\$260.00	\$1,131.21
RPWO / Repaired Washout	112.00	\$3,364.48	\$738.14	\$354.54	\$0.00	\$2,299.12	\$6,756.28
Grand Total	179.00	\$5,712.67	\$1,746.03	\$969.87	\$0.00	\$3,594.62	\$12,023.19

Before



During



After





Project: Sheldon Washout/ Sinkhole Repair- Old Dawson Acres Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2023-422

Township/SW Dist: Sheldon/5

Completed: May 2023

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 = 170 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 11/21/23

File: C:\project summaries map\Sheldon Washout\Sinkhole Repair- Old Dawson Acres Map #1_2023-422



Project: Sheldon Washout/ Sinkhole Repair-Big Estate Road Channel Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2023-422

Township/SW Dist: Sheldon/5

Completed: May 2023

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 23470 940 1,410 1,880 Feet 1 inch = 1,300 feet

Prepared By: BC Stormwater Management Utility

Date Print: 11/21/23

File: C:\project summaries map\Sheldon Washout/Sinkhole Repair- Big Estate Road Channel Map #2_2023-422



Project: Sheldon Washout/ Sinkhole Repair- Backache Acres Channel Map #3

Activity: Routine/ Preventive Maintenance

Project #: 2023-422

Township/SW Dist: Sheldon/5

Completed: May 2023

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 = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 11/21/23

File: C:\project summaries map\Sheldon Washout/Sinkhole Repair- Backache Acres Channel Map #3_2023-422



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Warsaw Island Road

Activity: Routine/Preventive Maintenance

Duration: 08/16/2023 - 08/17/2023

Narrative Description of Project:

Replaced (1) driveway pipe and installed rip rap for erosion control.

2024-501 / Warsaw Island Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Cost	Total Cost
AUDIT / Audit Project	2.00	\$72.22	\$0.00	\$0.00	\$0.00	\$44.58	\$116.80
DPRPL / Driveway Pipe - Replaced	32.00	\$1,089.16	\$528.92	\$529.49	\$0.00	\$755.92	\$2,903.48
HAUL / Hauling	24.00	\$746.16	\$1,886.16	\$2,587.79	\$0.00	\$495.12	\$5,715.23
ONJV / Onsite Job Visit	16.00	\$804.82	\$188.00	\$0.00	\$0.00	\$496.80	\$1,489.62
RRI / Rip Rap - Installed	24.00	\$771.67	\$377.25	\$39.00	\$0.00	\$510.96	\$1,698.88
UC / Utility Coordination	2.00	\$65.10	\$25.54	\$0.00	\$0.00	\$43.06	\$133.70
UTLOC / Utility locates	1.50	\$48.83	\$0.00	\$0.00	\$0.00	\$30.14	\$78.96
Grand Total	101.50	\$3,597.95	\$3,005.87	\$3,156.27	\$0.00	\$2,376.58	\$12,136.67

Before



During



After





Project: Warsaw
Island Road

Activity: Routine/
Preventive
Maintenance

Project #:
2024-501

Township/SW Dist:
St. Helena Island/8

Completed:
August 2023

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 37.575 150 225 300
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 11/14/23

File: C:\project summaries map\Warsaw Island Road_2024-501

TOWN COUNCIL



STAFF REPORT

Projects and Watershed Resilience Department

MEETING DATE:	December 12, 2023
SUBJECT:	Projects and Watershed Resilience Department Monthly Report
PROJECT MANAGER:	Kimberly Washok-Jones, Director of Projects and Watershed Resilience

CAPITAL IMPROVEMENTS PROGRAM (CIP) UPDATE

PATHWAYS

- 1. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting**
 - Construction of the Phase 6B sidewalks and drainage is complete.
 - **Next Steps**
 - Complete Phase 6B SCDOT closeout.
 - Construction of the street lighting is proposed to be completed in FY 2024 by Dominion.

- 2. New River Linear Trail**
 - Conceptual Master Plan is complete.
 - Submitted plans to Santee Cooper for review and cost share for bridge replacements. They stated they will not participate in a cost share; thus, staff is reviewing the easement agreement terms with legal for next steps.
 - Received \$26,000 PARD grant award and \$2 million in SC appropriations.
 - Easement donation from New Riverside Community Association, Inc. approved at 3/14/23 Town Council.
 - Restroom purchase agreement approved at 7/11/23 Town Council.
 - Well contract finalized.
 - Dominion utility easement approved at 10/10/23 Town Council.
 - Bathroom 100% plans approved. Bathroom fabrication in progress.
 - **Next Steps**
 - Continue engineering design and permitting for Phase 1 pathway (New River to Hwy 46).
 - Well and bathroom installation is proposed to be installed this Spring.

SEWER & STORMWATER

- 1. Buck Island-Simmons ville Sewer (Phases 5A-D)**
 - Permits/Contracts are complete, the project is under construction.
 - **Next Steps**
 - Construction is proposed to be complete in January 2024.

2. Historic District Sewer Extension Phases 2 & 3 - Bridge & Colcock Streets

- Jordan Construction of Hilton Head, Inc. continues construction.
- Main line testing and approvals to operate have been issued by BJWSA.
- **Next Steps**
 - Continue grinder pump and house connections.

3. Historic District Sewer Extension Phases 4 through 6 – Lawrence, Green and Water Streets

- Design for Phases 4, 5, & 6 were submitted to BJWSA for initial review.
- **Next Step**
 - Incorporate any Phases 4, 5, & 6 design changes to drawings per BJWSA review.
 - Construction pending acquisition of Quit Claim Deeds from all the property owners along the ghost roads or initiate legal action.

4. May River Watershed Action Plan Impervious Restoration Water Quality Projects

- Initial site investigations are complete for 8 of the 11 participating project sites.
- Palmetto Pointe Towns, Lowcountry Community Church and Apartment One declined to participate in the Program at this time. Updated Policy document for Impervious Restoration Program submitted and under review.
- Geotechnical investigations at 6 school sites complete and field results under analysis for use in development of Preliminary Design. Meeting held with School District on September 28, 2023 to discuss initial Preliminary Design Plan. Geotechnical investigations for remaining sites have been completed.
- Initial Property Owner contacts for the selected 15 Additional Sites within Municipal Limits have been made.
- **Next Steps**
 - Review results of geotechnical information. Update site concepts based on geotechnical data and begin preliminary design.
 - Based on comments received from the School District, finalize Preliminary Design plan for School sites.
 - Comments on Updated Draft Policy Document presented to consultant and initial meeting to discuss comments and Final Draft prestatation held. Follow up meeting is scheduled.

5. Buck Island Drainage Improvements

- Drainage project is complete and closed out.

HISTORIC DISTRICT IMPROVEMENTS**1. Boundary Street Lighting**

- Complete contract revisions with Dominion to install street lighting on the west side of Boundary Street.
- **Next Steps**
 - Dominion to install street lighting in FY 2024.

2. Squire Pope Carriage House Preservation

- The contract with Huss Inc. was executed and construction began on 1/16/23 with a groundbreaking ceremony held on 2/4/23.
- New sheathing / plywood and ice and water shield has been installed. All windows and doors have been refinished and reinstalled. HVAC, plumbing, electrical, fire suppression and low voltage rough ins are complete.
- **Next Steps**
 - Start exterior siding installation and painting preparation.
 - Submit SCADpro conceptual ideas for the Welcome Center to Town Council at January workshop.

3. Bridge Street Streetscape

- Issued Notice to Proceed for Phase 1 construction to start 12/5/22.
- Obtained survey proposal for Phase II streetscape project.
- Engaged Barrier Island for Phase II design.
- **Next Steps**
 - Phase 1 lighting installation began 11/27/23 from Calhoun to Pritchard. Installation from Pritchard to Burnt Church is being scheduled.
 - SCDOT approved additional storm drainage plan at Martins Place. Construction is being scheduled.
 - Continue phase 2 engineering design for SCDOT permitting.

4. Boundary Street Streetscape

- Engineering Design is 70% complete and submitted to Watershed for stormwater for initial review.
- Met with Dominion Energy on 5/17/23. Underground conversion plans from Dominion Energy is subject to the Town obtaining easements for May River Transmission line and switch gear locations.
- **Next Steps**
 - Continuing with Engineering Design, Underground Power Coordination, and Permitting.
 - Obtain easement exhibits and begin appraisals in FY 2024.
 - Construction in FY 2025, subject to acquisition of all required easements.

5. Calhoun Street Streetscape

- Preliminary engineering design is 40% complete.
- Met with Dominion Energy on 5/17/23. Awaiting underground conversion plans from Dominion Energy.

- **Next Steps**
 - Begin negotiations with May River Road property owners for main transmission line easements.
 - Once the main transmission line easements have been completed, then continue with engineering design into FY 2024.
 - Prepare easement acquisition plats for Phase 1 in CY 2024 and begin easement acquisition.
 - Phased construction is planned to begin in FY 2025 pending budget approval and acquisition of required easements.

6. **Pathway Pedestrian Safety Improvements**

- Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
- Phase 1 ADA sidewalk improvements along Goethe Road were completed in 1/2023.
- Contract with ICE approved at 9/12/23 Town Council meeting.
- **Next Steps**
 - Engineer designs under way.

7. **Comprehensive Drainage Plan Improvements**

- Asset inventory and condition assessment complete for Heyward Cove.
- 2D H/H model development complete.
- Initial Tidal Gauge information gathering at Calhoun St Dock has been completed.
- Review of 2D H/H model development results and areas of inundation/choke points complete.
- FY24 scope of work finalized. Consultant proposal received and under review.
- **Next Steps**
 - Final Project Report updates in progress.
 - Review consultant proposal, negotiate cost and scope items, determine award.

8. **Pritchard Street Drainage Improvements**

- Project scope has increased to include streetscape elements, pedestrian connectivity, street lighting and traffic calming evaluation. Growth Management and Stormwater Pre-Application meeting held October 17, 2023. Attended School District Operations Committee meeting on November 14, 2023 to provide project design status/update and receive feedback. Comments received to be utilized in 90% Design development. Initial discussion with Beaufort County regarding pool operations/impacts held and to be continued.
- **Next Steps**
 - Coordinate approval for proposed improvements with Beaufort County School District and Beaufort County on Pool operation impacts.
 - Complete 90% design submission, permitting submissions and bid document formulation.
 - 90% design submission and identification of easement and street lighting needs.

PARK DEVELOPMENT**1. Oyster Factory Park**

- Civil Construction and Landscape of parking area are substantially complete.
- Design of the event area and reconfigured boat trailer parking is underway.
- Bid event area site development plans in November.
- **Next Steps**
 - Bids due for event area on 12/6/23.
 - Construction of the event area is planned for this winter.
 - Verify scope of boat parking expansion for Public Services installation this winter.

2. Oscar Frazier Park

- Started construction of Rotary Center Improvements in June. Construction to be phased and coordinated with events planned for the Rotary Center.
- Council directed staff to not proceed with sports court design at this time.
- Executed contracts for design/build of the splash pad.
- **Next Steps**
 - Complete Rotary Hardscape construction in December.
 - Begin construction of Splash Pad in the Spring of 2024.

3. New Riverside Barn/Park

- Phase 2 Design is complete.
- JS Construction started phase 1 site construction on 1/27/2023.
- The contract has been executed with Nix Construction for Construction Manager at Risk Services with a GMP for Phases 2 (barn, restroom, playground, and common areas).
- **Next Steps**
 - Complete construction of Phase 1 Site Development Infrastructure in January 2024.
 - Nix construction to obtain for all building permits necessary for Phase 2 construction.
 - Procure all playground equipment.
 - Nix construction to mobilize for Phase 2 construction with a 1/4/2023 construction start date.

4. New Riverside Village

- **Next Steps**
 - Site furnishings, lighting, signage, crosswalk, and additional hardscape path being designed for review at the January Town Council Workshop.

5. Miscellaneous Park Improvements

- Construction of the DuBois playground addition is substantially complete.
- Design of Buckwalter Place (Evicore) Park is underway.

- **Next Steps**
 - Palmetto Recreation Equipment, LLC to complete punch list items for the DuBois playground equipment by the end of the calendar year.
 - Complete design of all FY 2024 park improvements (Evicore and Shade Sails).

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. Town of Bluffton Housing Projects

- **Next Steps**
 - Provide financial assistance to joint venture partner for planning, design and permitting of Affordable/Workforce Housing at 1095 May River Road.
 - PM staff to review progress and applications for payment.

2. Law Enforcement Center Facility Improvements

- Clearing sodding, columns and fence construction for the challenge course is complete.
- **Next Steps**
 - FY 2024 begin design for FY 2025 construction of a possible storage of Public Service maintenance equipment.

3. Sarah Riley Hooks Cottage

- Completed conceptual master plan concepts and building assessment. Presented plans to Town Council at the April Workshop for review and direction.
- Executed design contracts with Meadors Inc., JK Tiller and Shearlock Engineering for design services of the cottage restoration and site planning in FY 2024.
- **Next Steps**
 - Complete design of Cottage and grounds.
 - Begin restoration construction of cottage in FY 2025.

4. Ghost Roads

- Surveying and easement exhibits are complete.
- Bridge Street Quit Claim Deeds are complete. Pritchard and Colcock Streets Quit Claim Deeds are 99% complete. Staff is currently working with Lawrence, Lawton, Green, Pope, Allen, and Water Street property owners to obtain Quit Claim Deeds.
- Staff continue to meet with property owners to raise awareness of the acquisition efforts and communicate next steps and requested Council assistance.
- **Next Steps**
 - Obtain remaining Quit Claim Deeds for Historic District Sewer Phases 4-6 or initiate quiet title proceedings.

5. Document Management

- RFP contract was awarded in March 2022.
- Electronic Document Management system is live.
- Documents for 6 departments have been transitioned to DMS.
- **Next Steps:**
 - Historical documents for the remaining 4 departments will transition through FY 2026.

6. Network Infrastructure

- Replaced core switches at Town Hall and the Law Enforcement Center.
- Replaced two VMWare hosts for a more stable server environment.
- Migration of Munis and Energov systems to a hosted environment completed.
- Replaced phone system to a more modern system.
- Implemented Executime to replace Intime.
- **Next Steps:**
 - Replacing two more VMWare hosts.

WATERSHED MANAGEMENT UPDATE

1. **Stoney Creek/Palmetto Bluff Sewer Partnership**
 - 2022 updated cost-estimate for the project from BJWSA is \$7.2 million + contingencies. BJWSA has agreed to be the Project Manager.
 - Awarded the RIA SCIPP grant in support of Stoney Creek/Palmetto Bluff Sewer Extension with BJWSA and Beaufort County.
 - Met with partners to address BJWSA IGA concerns on 3/2/23. A draft 3-party Intergovernmental Agreement was discussed at a follow up meeting on 5/30/23.
 - Finalized IGA with Town, County, and grant splitting sewer extension costs and BJWSA funding water extension costs.
 - **Next Steps**
 - IGA with Town, County, and grant splitting sewer extension costs and BJWSA routed for signatures.

2. **SC Department of Health and Environmental Control May River Shellfish Harvesting Monitoring Data Year-to-Date and May River Shellfish Harvesting Status Exhibit – Attachments 1 and 1a**

3. **May River Watershed Action Plan Implementation Summary - Attachment 2**
 - Staff continue to work with Water Environmental Consultants (WEC) to review continuous flow data from the Stoney Creek, Rose Dhu Creek, and Palmetto Bluff subwatersheds. WEC is reviewing continuous and intermittent flow data in real time. WEC provided recommendations on the Town's water quality grab sampling program to ensure sufficient data for model calibration. Staff began implementing these recommendations on 7/31/23 and current data review indicates staff and instrumentation are collecting quality flow monitoring data.
 - The Town's Calhoun Street Dock tidal elevation gauge was repaired and is recording tidal elevation data. Water Environmental Consultants (WEC) established two (2) additional tide gauges near the Stoney Creek and Rose Dhu Creek model boundaries as part of a 4-week headwaters tidal gauge study. The Calhoun Street dock and headwaters tidal elevation data will be used to establish a relationship between tidal amplitude and timing in the headwaters of the May River.
 - Staff met with SC Sea Grant on 8/01/23 to discuss components of a Resiliency Assessment as recommended in the Comp Plan and funded in the FY24 budget. Emergency Management, Growth Management, and Watershed presented their needs. Needs for the Buck Island/Simmons ville area for flooding were included. Staff compiled comments on the proposed scope of work and provided them to SC Sea Grant. SC Sea Grant has provided a revised scope of work. Town staff met on 12/07/23 to discuss all comments.
 - Two (2) automatic samplers were deployed in the Bridge Street Streetscape water quality project outfalls following completion of the Streetscape project. The goal was to collect water quality samples for post-construction monitoring. The Town of Bluffton's Watershed Management Division Office weather station recorded 3.82 inches of rainfall on 9/10/23. One (1) automatic sampler was activated due to discharge at the outfall. Fecal indicator bacteria, nutrient, and total suspended solids

(TSS) samples were collected from the automatic sampler and submitted to USCB's Water Quality Laboratory for analysis. Results have been received and staff included them in the 319-Grant final reports. The report was provided to SCDHEC on 11/09/23.

4. **Municipal Separate Storm Sewer System (MS4) Program Update**
5. **MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
 - Staff attended a Lowcountry Stormwater Partners (LSP) Consortium meeting on 11/1/23.
 - Staff led an activity for over one hundred (100) Pritchardville Elementary students about common stormwater pollutants and how to prevent them on 11/08/2023.
 - The 11/30/23 May River Watershed Action Plan Advisory Committee (WAPAC) was canceled. - **Attachment 3**
6. **MS4 MCM – #3 Illicit Discharge Detection and Elimination**
 - Stormwater Infrastructure Inventory Map - **Attachment 4a**
 - *E. coli* Concentrations Trend Map - **Attachment 4b**
 - Monthly, Microbial Source Tracking (MST) Maps - **Attachments 4c and 4d**
 - SC Department of Health and Environmental Control (SCDHEC) collects MST samples for the Town concurrently with their routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC collected samples on 11/29/23. All results are currently pending.
 - Illicit Discharge Investigations – **Attachment 4e**
7. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
8. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
9. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Andrea Moreno and Beth Lewis completed their Post-Construction BMP Inspector Recertification course.
10. **MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**
 - Public Services performed weekly street sweeping on Calhoun Street, Highway 46, Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simmonsville and Buck Island Roads.
 - Performed ditch inspections.
 - Arrow ditch (2,569 LF)
 - Red Cedar ditch (966 LF)
 - Buck Island roadside ditch (15,926 LF)

- Simmonsville roadside ditch (13,792 LF)
 - Ongoing roadside mowing, litter clean-up and maintenance of Masters' Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road, and Eagles Field.
- 11. Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**
- 12. Citizen Request for Watershed Management Services & Activities – Attachment 8**

Attachments

1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
 - a. SCDHEC May River Shellfish Harvesting Status Exhibit
2. Quarterly Update – May River Watershed Action Plan Implementation Summary*
3. MS4 Minimum Control Measures #1 and #2 – WAPAC Public Notice
4. MS4 Minimum Control Measure #3 – Illicit Discharge Detection and Elimination
 - a. Stormwater Infrastructure Inventory Map
 - b. *E. coli* Concentrations Trend Map
 - c. Microbial Source Tracking Trend Map – Human Source
 - d. Microbial Source Tracking Map – All Sources
 - e. Illicit Discharge Investigations
5. MS4 Minimum Control Measure #4 – Construction Site Stormwater Runoff Control
6. MS4 Minimum Control Measure #5 – Stormwater Plan Review and Related Activity
7. Citizen Drainage, Maintenance, and Inspections Concerns Map
8. Citizen Request for Watershed Management Services and Activities Map
9. CIP Master Project Schedules

* Attachment noted above includes the latest updates in green.

	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
	Fecal Coliform (MPN)																							
December	17.0	79.0	33.0		22.0	49.0	49.0		17.0	4.5	17.0		4.5	17.0	49.0		4.0	6.8	6.8		11.0	7.8	13.0	
November	70.0	33.0	33.0		31.0	33.0	13.0		17.0	7.8	7.8		13.0	4.0	4.5		13.0	4.5	6.1		4.5	2.0	13.0	
October	49.0	49.0	23.0	33.0	79.0	26.0	46.0	23.0	31.0	13.0	13.0	17.0	21.0	23.0	23.0	33.0	33.0	23.0	11.0	2.0	79.0	17.0	14.0	6.8
September	110.0	33.0	540.0	23.0	49.0	11.0	350.0	13.0	49.0	17.0	350.0	13.0	33.0	13.0	170.0	7.8	33.0	2.0	79.0	17.0	33.0	11.0	33.0	13.0
August	49.0	49.0	23.0	23.0	49.0	49.0	23.0	49.0	23.0	23.0	11.0	6.8	23.0	49.0	13.0	13.0	17.0	14.0	17.0	23.0	22.0	14.0	11.0	2.0
July	33.0	350.0	920.0	350.0	13.0	64.0	49.0	920.0	23.0	79.0	95.0	70.0	7.8	33.0	130.0	49.0	7.8	33.0	23.0	33.0	17.0	13.0	46.0	17.0
June	NS	49.0	13.0	14.0	NS	79.0	4.5	7.8	NS	13.0	11.0	23.0	NS	17.0	2.0	13.0	NS	22.0	1.8	33.0	NS	2.0	9.3	13.0
May	70.0	2.0	4.5	23.0	49.0	49.0	4.5	33.0	23.0	23.0	4.0	17.0	22.0	23.0	1.8	13.0	6.8	23.0	1.8	33.0	4.5	7.8	2.0	21.0
April	33.0	33.0	4.5	170.0	33.0	23.0	4.5	130.0	13.0	22.0	1.8	110.0	6.8	17.0	2.0	70.0	13.0	7.8	1.8	NS	13.0	2.0	1.8	7.8
March	170.0	33.0	33.0	23.0	49.0	11.0	23.0	49.0	130.0	17.0	2.0	17.0	49.0	13.0	4.5	17.0	70.0	2.0	2.0	17.0	33.0	2.0	2.0	17.0
February	17.0	79.0	23.0	540.0	7.8	70.0	31.0	350.0	21.0	79.0	17.0	240.0	4.5	23.0	22.0	240.0	4.5	7.8	2.0	33.0	6.8	6.8	11.0	33.0
January	95.0	17.0	49.0	33.0	33.0	17.0	22.0	33.0	33.0	13.0	33.0	13.0	17.0	23.0	7.8	33.0	17.0	17.0	7.8	7.8	17.0	7.8	7.8	4.5
** Truncated GeoMetric Mean	34.0	36.0	40.0	40.0	21.0	26.0	28.0	33.0	16.0	18.0	18.0	18.0	12.0	15.0	14.0	17.0	10.0	10.0	9.0	10.0	9.0	8.0	9.0	8.0
** Truncated 90th Percentile	106.0	139.0	192.0	226.0	59.0	69.0	91.0	152.0	50.0	58.0	72.0	83.0	37.0	39.0	54.0	81.0	31.0	35.0	41.0	47.0	35.0	33.0	32.0	26.0

NS = No Sample

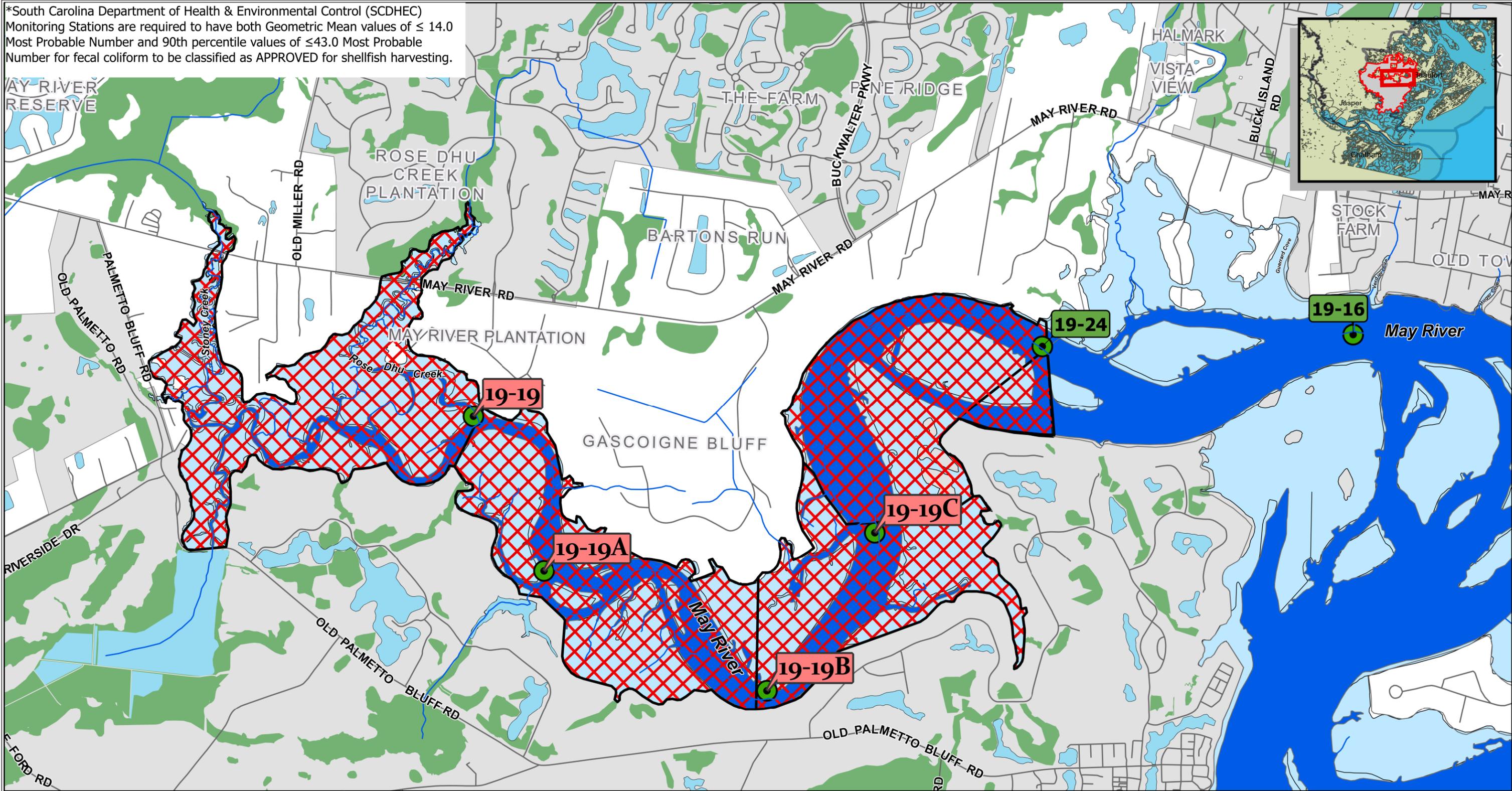
SCDHEC Regulatory Requirements:

Geometric Mean ≤ 14

90th Percentile ≤ 43

** Town staff calculations utilizing SCDHEC statistics

*South Carolina Department of Health & Environmental Control (SCDHEC)
Monitoring Stations are required to have both Geometric Mean values of ≤ 14.0
Most Probable Number and 90th percentile values of ≤ 43.0 Most Probable
Number for fecal coliform to be classified as APPROVED for shellfish harvesting.



SCDHEC Shellfish Monitoring Stations



Restricted
2022/2023 Shellfish
Season



Open SCDHEC Shellfish
Monitoring Stations



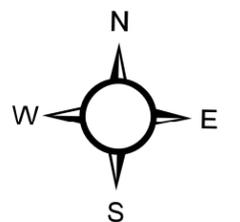
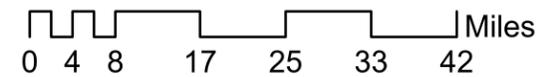
SCDHEC Shellfish Monitoring
Station Classification Change

- Streets
- Drainage
- Town Jurisdiction
- County Jurisdiction
- Water
- Wetlands

Town of Bluffton

Beaufort County, SC

SCDHEC SHELLFISH HARVESTING STATUS



Date: 10/18/2022

WAPAC Meeting Presentation
May River Watershed Action Plan Update & Modeling Report
Overview and Status
August 25, 2022

Updated July 27, 2023

Overview

- May River Watershed Action Plan Update & Modeling Report completed November 2020.
- Town Council Adoption of May River Watershed Action Plan Update as a Supporting Document to the Comprehensive Plan completed February 2021.
- May River Watershed Action Plan Update & Modeling Report Summary:
 - **Executive Summary** provides an overview of the project background, findings and interpretation, current state of knowledge concerning fecal coliform fate and transport, and an overview of proposed recommendations for the Town.
 - **1.0 Introduction** includes more detailed project background including the purpose of the document and the Project Team's tasks to 1) develop water quality models to compare current conditions (2018) to pre-shellfish impairment conditions (2002) to develop pollutant load reduction estimates, and 2) evaluate 2011 Action Plan BMPs for appropriateness under current conditions and provide up to eleven (11) alternative projects and preliminary cost estimates.
 - **2.0 Model Setup; 3.0 Model Calibration, and 4.0 Water Quality Model Results** details the methodology used by the Project Team to establish and calibrate the models and the model outputs. This highly technical information is necessary for future Water Quality (WQ) Model calibration and use for consistency.
 - **5.0 Recommendations** includes strategies to improve the Town's monitoring efforts to calibrate the WQ Model further (§5.1), strategies and BMPs for bacteria reduction (§5.2), an evaluation of 2011 Action Plan BMP projects (§5.3), and methodology used to develop 2020 Action Plan Update recommended projects (four septic to sewer conversion projects and eleven stormwater BMP retrofit projects) with cost-estimates and ranking/prioritization (§5.4).
 - **6.0 Conclusions** offers a summary of the WQ Model results in context of current state of knowledge.
 - **7.0 References** documents the prior research findings used to inform recommendations.
 - **Appendices** reference supporting materials:
 - Montie et al. (2019) "Technical Report: Historical Analysis of Water quality, Climate Change Endpoints, and Monitoring in Natural Resources in the May River,"
 - Technical Memo from Dr. Rachel Noble,
 - Watershed Treatment Model Spreadsheets, and
 - Detailed Project Cost Estimate Spreadsheets.

MRWAP 2020 Update Septic to Sewer Project Recommendations/Evaluations:

- Four (4) septic to sewer conversion projects were evaluated in the Rose Dhu Creek and Stoney Creek subwatersheds:
 - Cahill
 - Gascoigne
 - Stoney Creek
 - Pritchardville
 - These projects overlap with 42 subcatchments in the Stoney Creek watershed and 11 in Rose Dhu Creek. Based on WQ Model outputs, these projects alone may potentially reduce FC loading by 3.46×10^{13} FC per year.
- The estimated septic to sewer conversion costs of these projects also requires water capacity upgrades. Previous cost estimates are not accurate and will be updated by BJWSA as each project is considered.

Work Performed and Current Status as of August 25, 2022 Meeting

Discussions with the Town, Beaufort County and BJWSA have been held about future Septic to Sewer Program projects identified above. Stoney Creek Septic to Sewer Project has been identified as the next priority project to pursue under the Septic to Sewer Program.

- The Town and Beaufort County are finalizing Funding and Cost share elements relative to the project. The Stoney Creek sewer and water project cost estimate is nearly \$14 million which is offset by a \$5,925,000 grant.

Update for WAPAC July 27, 2023 Meeting:

Stoney Creek/Palmetto Bluff Sewer: Three-party agreement is being finalized by BJWSA legal team now. BJWSA's RFP for water and sewer design services was supposed to close 6/30/23. Due to RIA protocol, they must review and approve an RFP prior to posting, thus the RFP was canceled. BJWSA received RIA approval and reposted the RFP on 7/17/23 with a closing of 8/1/23.

MRWAP Update Eleven Impervious Restoration (stormwater retrofit) Project Recommendations/Evaluations:

- Eleven (11) project sites (incorporating various individual BMPs) were selected in consultation with the Town (prioritizing subcatchments with FC bacteria hotspot and/or large impervious areas). These sites were evaluated in terms of the potential benefits gained by retrofitting to meet the 95th percentile storm retention, to the maximum extent possible, under the proposed Impervious Area Restoration/Stormwater Retrofit Program.

Eleven (11) proposed project sites Rose Dhu Creek (6 projects) and Stoney Creek (5 projects):

- Bluffton Early Learning Center (BELC)
- Boys and Girls Club of Bluffton (BGC)
- Benton House (BH)
- Bluffton High School (BHS)
- Buckwalter Recreation Center (BRC)

- Lowcountry Community Church (LCC)
- McCracken Middle School/Bluffton Elementary School (MMSBES)
- May River High School
- One Hampton Lake Apartments (OHLA)
- Pritchardville Elementary School (PES)
- Palmetto Pointe Townes (PPT)
- Based on WQ Model outputs, these projects alone may potentially reduce FC loading by
 - 2.99×10^{14} FC reduction for the Full SWRv (entire sub-basin drainage area catchment).
 - 2.53×10^{14} FC reduction for the Reduced SWRv projects (impervious area drainage area of sub-basin catchment).
- The estimated of Full SWRv projects costs is \$32.7 million and the estimated cost of Reduced SWRv projects is \$22.6 million.
- Currently the Towns' Impervious Restoration Program is targeting Reduced SWRv for future projects.

Example of Impervious Restoration Project evaluation from May River Watershed Action Plan Update & Modeling Report:



Figure 52. McCracken Middle School/Bluffton Elementary School Proposed Stormwater BMP Retrofits

Work Performed and Current Status as of August 25, 2022 Meeting

Update for WAPAC July 27, 2023 Meeting:

Work performed for this project is being performed by MSA Consultant Engineering Firm:

- Drafted a detailed scope of work for Engineering Consultant Firm review and cost proposal (Expression of Interest) regarding performance of the work elements presented herein and related to MRWAP Update recommendations for implementation.
- The Expression of Interest was submitted to 3 consultant firms under existing Master Service Agreements with the Town for review and a request for response.
- All 3 Firms responded and their respective responses were evaluated, scored and discussed internally.
- A recommendation for Award was made to Goodwyn, Mills and Cawood selected.
 - Phase I of this work performed under existing FY 22 funding from Watershed Management Division.
 - Phase II of this work was approved for FY23 funding.

Task 1 : MRWAP Update 11 site locations

Update for WAPAC July 27, 2023 Meeting:

Eleven (11) proposed project sites Rose Dhu Creek (6 projects) and Stoney Creek (5 projects):

Yellow highlight indicates geotechnical evaluations complete.

1. **Bluffton Early Learning Center (BELC). Participating in preliminary design development phase.**
 2. Boys and Girls Club of Bluffton (BGC). **Participating in preliminary design development phase.**
 3. Benton House (BH). **Participating in preliminary design development phase.**
 4. **Bluffton High School (BHS). Participating in preliminary design development phase.**
 5. Buckwalter Recreation Center (BRC). **Participating in preliminary design development phase.**
 6. Lowcountry Community Church (LCC). **Declined to Participate.**
 7. **McCracken Middle School/Bluffton Elementary School (MMSBES). Participating in preliminary design development phase.**
 8. **May River High School. Participating in preliminary design development phase.**
 9. One Hampton Lake Apartments (OHLA). **Declined to Participate.**
 10. **Pritchardville Elementary School (PES). Participating in preliminary design development phase.**
 11. Palmetto Pointe Townes (PPT). **Declined to Participate.**
- Evaluate 11 sites and proposed BMPs. **Complete.**
 - Update concept plans for 11 sites based on site evaluations, recommendations and discussions. **Complete.**
 - Perform geotechnical evaluations at each site at locations related to BMP locations of updated concept plans. **Completed for the 5 school sites.** Geotechnical evaluations for the remaining **3** participating partner sites are being schedule based on recent property owner participation status being known/confirmed.

Coordinating geotechnical work approval with property owners and schedule for Benton House (BH), Buckwalter Recreation Center (BRC) and Boys and Girls Club of Bluffton (BGC).

- Refine updated concepts and use for presentations to Property Owner to discuss Impervious Restoration Program goals, objectives and gain support for Program and their participation. **Based on geotechnical investigation results, updated Concept plans for the 5 school sites have been refined. A meeting will be scheduled with School District to discuss the updated concept plans to get their feedback prior to beginning Preliminary Design task.**
 - Develop list of “incentives” to secure Property Owner participation (**see Policy Document Formulation below**).
- Based on geotechnical information and Property Owner feedback further refine concept plans to Preliminary Design :
 - Determine BMP types and location to maximize SWRv/WQ treatment in cost effective approach. **Estimated impervious area treated and SWrv capture based on refined Concept plans developed for the 5 school sites.**
 - Determine estimated pollutant load reductions.
 - Develop site specific BMP details.
 - Develop preliminary BMP maintenance schedule and cost for each site.
- Preliminary Design development plans will be presented to the Property Owner for review and discussion. Other Restoration Program details (maintenance responsibilities, easements, incentives, etc.) developed as part of the Program (see Policy Document Formulation below) will also be discussed in hopes of establishing a commitment from the Property Owner to participate in the Program. Once a “commitment” is secured from the Property Owner, the project site will be moved to Final design, permitting, and ultimately construction.

Task 2 : Identify 15 new project sites for Town of Bluffton Impervious Restoration/BMP Retrofit Projects.

- The Town wishes to identify an additional 15 project sites located within the municipal limits of Bluffton for the Impervious Restoration/BMP Retrofit Program. However, the criteria for site selection will be considered to be more “low hanging fruit” based on the following:
 - Within Town of Bluffton Municipal limits.
 - Soils – sandy soils with high infiltration rates offer the biggest bang for the buck for water quality treatment/improvement. Utilizing soil survey and other information target sites where infiltration can be maximized on-site.
 - Public or governmental agency land/property owner (not SCDOT RoW).

Update for WAPAC July 27, 2023 Meeting:

Finalized the list of 15 additional sites (and 5 alternates) to be considered/evaluated within the municipal limits of Bluffton for Impervious Restoration feasibility and concept plan development. Site evaluations will be performed as property owner approvals for access to property to perform site assessment is obtained.

Town of Bluffton Impervious Restoration/BMP Retrofit Policy Documents.

Task 3 : Section 5.4.4. Stormwater BMP Retrofit Projects of the May River Watershed Action Plan Update and Model Report identifies potential Impervious Restoration/BMP Retrofit projects located on Public and Private Land. As mentioned earlier, one of the primary site selection criteria, at time of report development, was to identify sites with large impervious areas so that pollutant load reductions could be estimated and the benefits of such projects on stormwater quality quantified/estimated, if implemented into construction. Generally, Public Funds are not expended to improve private property nor is Town of Bluffton funding generally expended on Public Land owned by another government entity. In order for such projects identified in Section 5.4.4. to move forward in the interest of improved water quality and for the overall benefit and welfare of the constituents of the Town of Bluffton, Policy Documents need to be formulated that establishes the parameters of such a Program to be initiated and implemented.

Policy Document Formulation has been initiated and includes research of similar programs nationwide.

Update for WAPAC July 27, 2023 Meeting:

- **Updated Draft Policy Document was completed and submitted in June for staff review and comments are being finalized.**
- **Upon Policy Document Final Draft development, the Policy Document will be presented to WAPAC with a request for recommendation to Town Council for adoption.**

Other, Related MRWAP Update Recommendations

- Adopt proposed regional Southern Lowcountry Post Construction Stormwater Ordinance and Design Manual - **complete** September 2021.
- The Town should incorporate volume reduction BMPs (those that encourage infiltration) within existing and future CIP projects to the maximum extent practical, especially for project locations with well-drained soils (HSG A or B) – **in progress**, see below.

○ Work Performed and Current Status as of August 25, 2022 Meeting

- Bridge Street Streetscape Project
 - Project design/permitting is complete, and Construction Contract has been awarded.
 - Incorporated Infiltration BMPs within the project to capture and treat 1.95” of rainfall over impervious surfaces within the project area, prior to discharge into the May River.
 - Received Section 319 Grant from DHEC to cost-share cost of construction of proposed BMPs.
 - Construction was initiated by JS Construction in early December 2022. Construction considered 65% complete.

Update for WAPAC July 27, 2023 Meeting:

- **Project work is Substantially Complete.**
- **Partial reimbursement from DHEC for construction cost supported by 319 Grant requested and received.**
- Pritchard Street Drainage Improvement Project

- Project in Design Phase and considered 30% complete.
- Incorporated Infiltration BMPs within the project to capture and treat 1.95" of rainfall over impervious surfaces within the project area, prior to discharge into Heyward Cove.
- 70% design plan submitted, reviewed and comments presented to consultant.
- 319 Grant was awarded by DHEC to the Town.
- **Update for WAPAC July 27, 2023 Meeting:**
 - **Project Scope of Work and budget increase approved for FY24 to include streetscape elements of lighting, sidewalk, traffic calming and ADA compliance.**
 - **Updated survey received.**
 - **Updated 70% design drawings received in July and under review.**
- In-House Microbial Source Tracking – **in progress**, see below
 - The Town entered a Memorandum of Understanding (MOU) with the University of South Carolina Beaufort (USCB) in July 2021 to establish and fund a regional Microbial Source Tracking (MST) laboratory capable of accepting environmental water quality samples.
 - Analytical services are provided by the USCB-MST laboratory for all environmental samples collected by the Town.
 - Staff has collected additional fecal samples needed for dog, bird, and deer. The USCB-MST Laboratory is conducting the assessment on additional fecal samples and Dr. Pettay will provide a final report to the Town once all fecal markers in regional watersheds have been analyzed.
 - **Update for WAPAC July 27, 2023 Meeting: Additional genetic fecal markers continue to be analyzed by Dr. Pettay and the MST Laboratory.**
- Future (new) Bacteria Monitoring Locations - **in progress**, see below
 - Staff increased sampling frequency and implemented additional monitoring sites and parameters in the May River headwaters based upon recommendations in the 2020 May River Watershed Action Plan Update and Model Report.
 - Staff is collecting intermittent flow data at SonTek IQ sites in conjunction with grab FIB samples.
 - **Update for WAPAC July 27, 2023 Meeting** Staff is working with the consultant to identify recommended strategies for intermittent flow data collection and a review of the Town's FIB grab sample schedule.
- Future (new) Water Flow Monitoring Locations.
 - **Work Performed and Current Status as of August 25, 2022 Meeting**
 - The MRWAP Update included recommendations for the Town to perform certain rainfall and flow data measurements in May River Headwater Watersheds in order to "calibrate" and make more accurate Model predictions. These recommendations were evaluated and a game plan to address recommendations to calibrate model developed.

- Utilizing existing flow and rainfall data collected over past years with rain gauges, IQ Plus and Sontek measuring instruments in Stoney Creek, Rose Dhu Creek, Palmetto Bluff, Duck Pond and Heyward Cove, the Town hired a consultant to review the data and determine:
 - Useful data obtained to gain the required information to calibrate model.
 - The data obtained from Stoney Creek and Heyward Cove was deemed sufficient for Model calibration and Final report for this work is in process.
 - Duck Pond was deemed inconsequential, not needed due to drainage area size and proximity/outfall to tidal waters.
 - Consultant Final Report delivered, and Model Calibration Data for Stoney Creek and Heyward Cove identified.
 - If data review resulted in insufficient data, develop a monitoring program that would produce the data needed.
 - Rose Dhu Creek and Palmetto Bluff flow data review resulted in data that was insufficient to calibrate Model.
 - Potential purchase of telemetry stations to equip continuous flow monitoring stations with real-time data access.
 - Final Report delivered. Based on recommendations of data and process needed, staff has procured needed telemetry station equipment and has hired a consultant to assist in getting the intermittent and continuous flow data and producing a Final Report. The field work installation of equipment is being scheduled. Once installed and operational, data collection will last 6 months.

Update for WAPAC July 27, 2023 Meeting

- **The Town of Bluffton procured and installed two (2) SonTek Turnkey Systems that enable real-time continuous flow data review to a cloud-based service. These systems are deployed in the Rose Dhu Creek and Palmetto Bluff subwatersheds.**
- **A SonTek IQ remains deployed in the Stoney Creek subwatershed. The consultant's first data review determined there was sufficient flow data for model calibration in the Stoney Creek subwatershed. However, staff determined it would continue to collect continuous flow data at this location so that continuous flow, intermittent flow, bacteria samples, and rainfall data were**

collected for three (3) of the four (4) Modeling Report subwatersheds simultaneously.

- Consultant is reviewing data and identifying power, beam, or possible maintenance issues weekly.
- Intermittent flow measurements, utilizing the FlowTracker2, will be conducted at the time of grab sampling at the three (3) SonTek IQ flow stations beginning 7/31/23.



PUBLIC NOTICE

The May River Watershed Action Plan Advisory Committee
(WAPAC) meeting scheduled for

Thursday, November 30, 2023

has been

CANCELLED

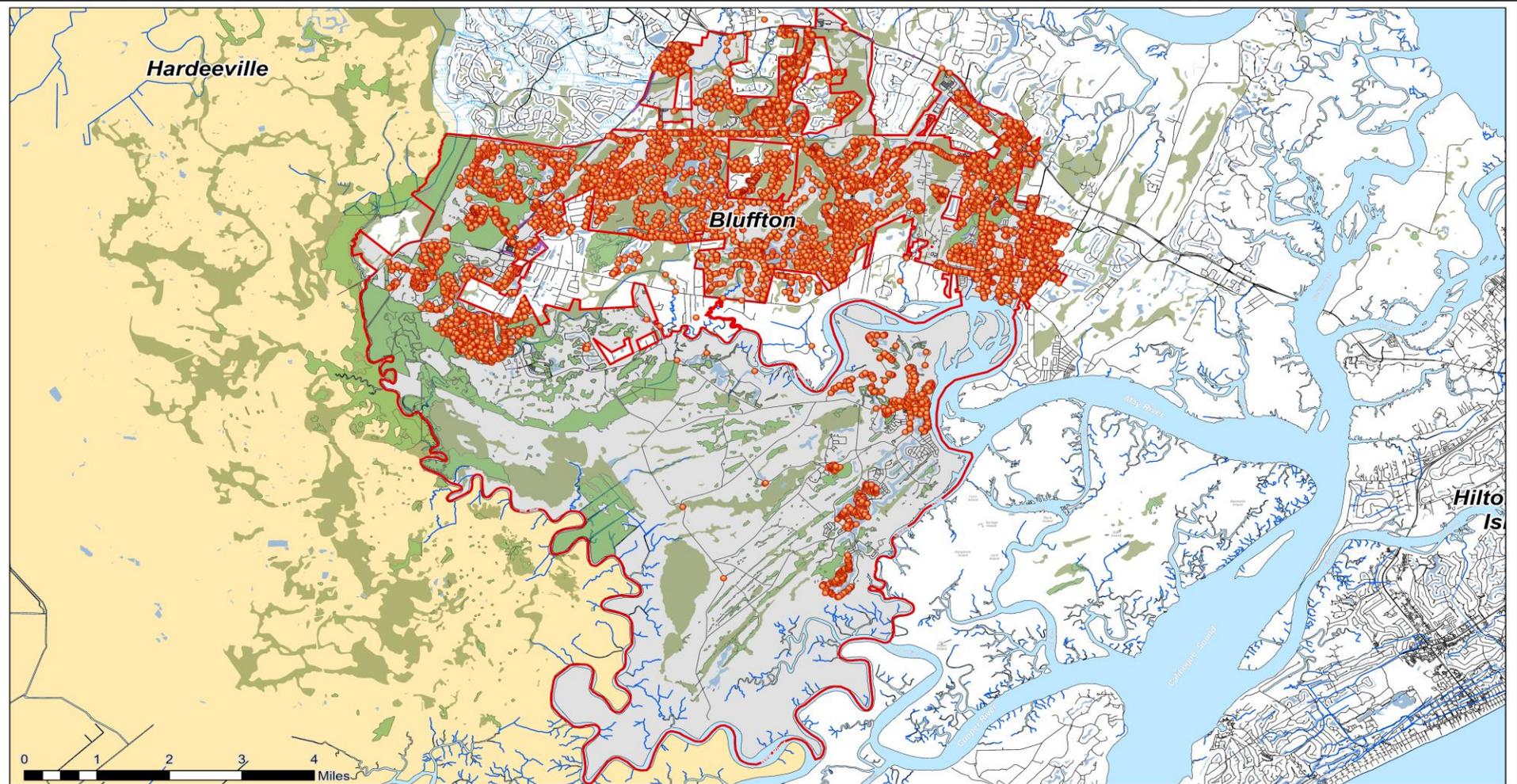
due to lack of quorum.

The next meeting is scheduled for

Thursday, January 25, 2024

If you have questions, please contact
the Watershed Management Division
at: 843-706-4559

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



- SW STRUCTURE
- SW PIPE
- TOWN OF BLUFFTON
- BEAUFORT COUNTY
- JASPER COUNTY
- WETLAND
- WATER
- ROADS

Town of Bluffton
Beaufort County, SC

STORMWATER INFRASTRUCTURE

The map is accurate as of 11/16/2023. The map is not a warranty, representation, or guarantee of accuracy. The user assumes all responsibility for the use of the map. The user agrees to hold the Town of Bluffton harmless from any and all claims, damages, and expenses, including reasonable attorneys' fees, arising from the use of the map. The user further agrees to indemnify and hold the Town of Bluffton harmless from any and all claims, damages, and expenses, including reasonable attorneys' fees, arising from the use of the map.

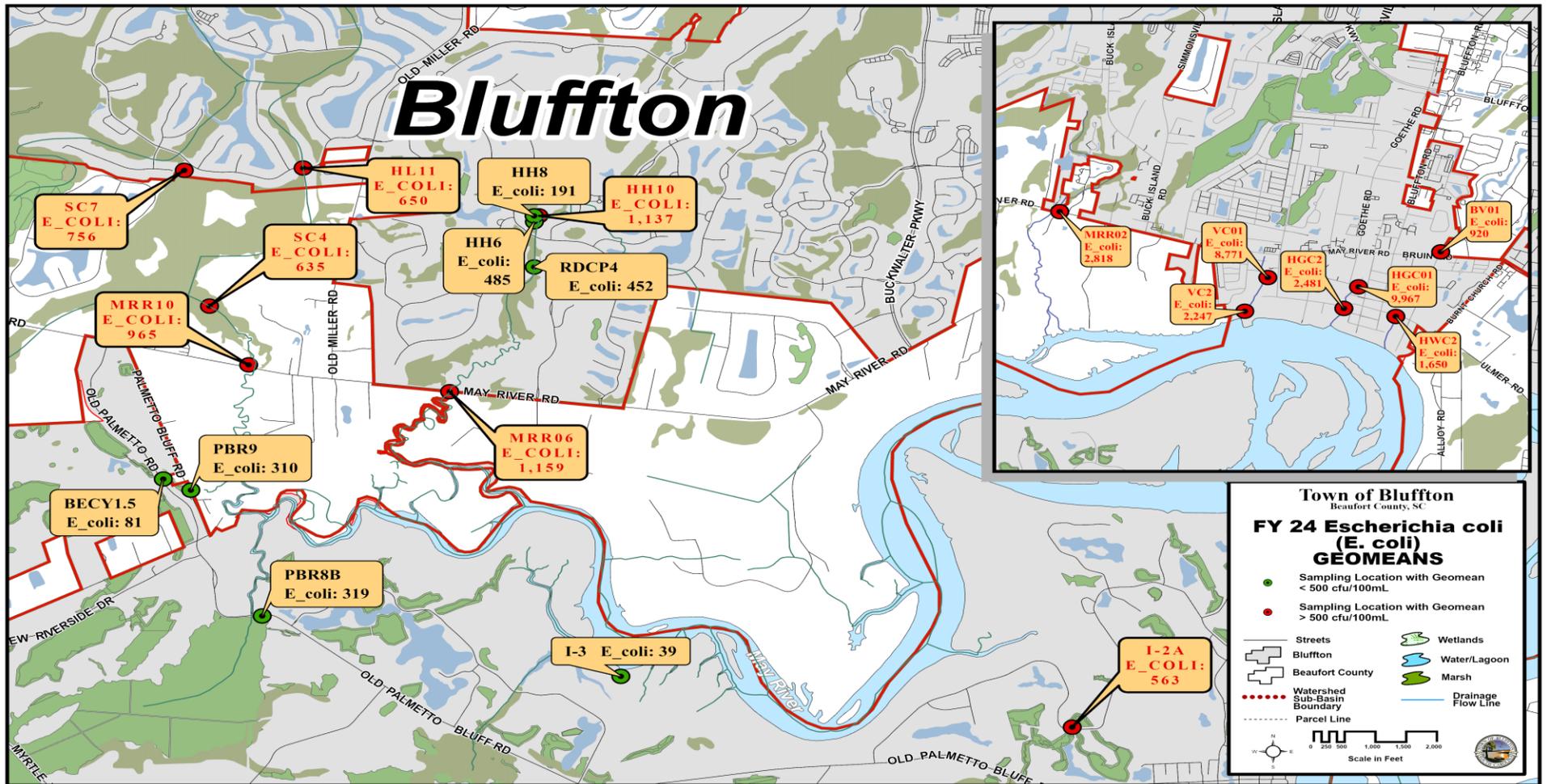


Updated Date: 11/16/2023

Stormwater Infrastructure Inventory Collection Status

Collection Totals	16,742
FY 2024 YTD	85

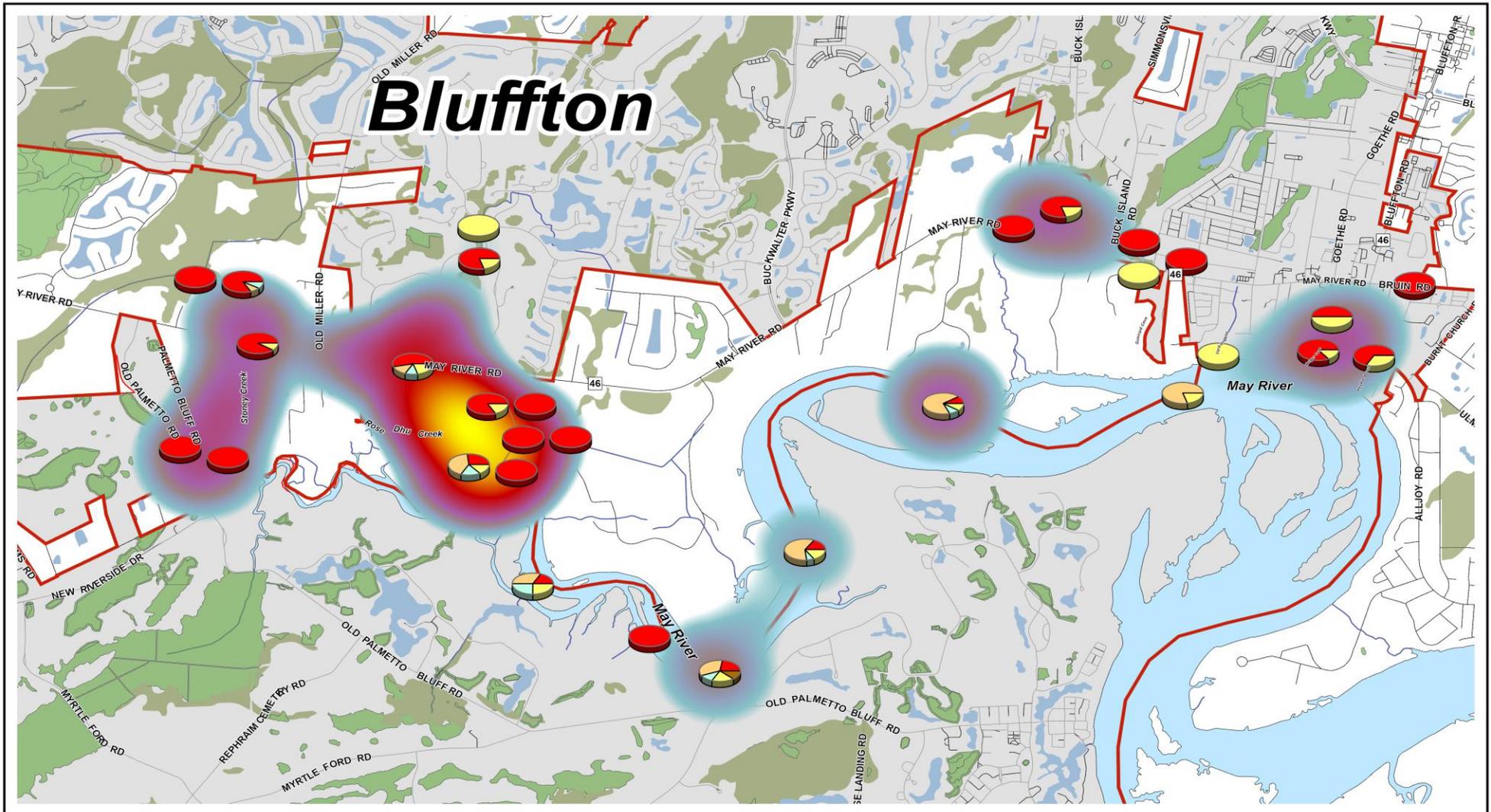
MS4 Minimum Control Measure #3 – IDDE: *E. coli* Concentrations Trend Map



	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2024 YTD Totals	169	22	113
FY 2023 Totals	584	108	108
FY 2022 Totals	447	78	119

Totals include only samples submitted for laboratory analysis, and not *in situ* parameters.

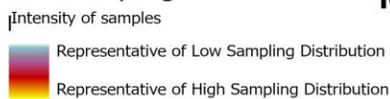
MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Trend Map



MST Sampling Results



MST Sampling Sites



MICROBIAL SOURCE TRACKING (MST) LOCATIONS

Samples at Sites With Positive Detection
and the Intensity of Positive Hits

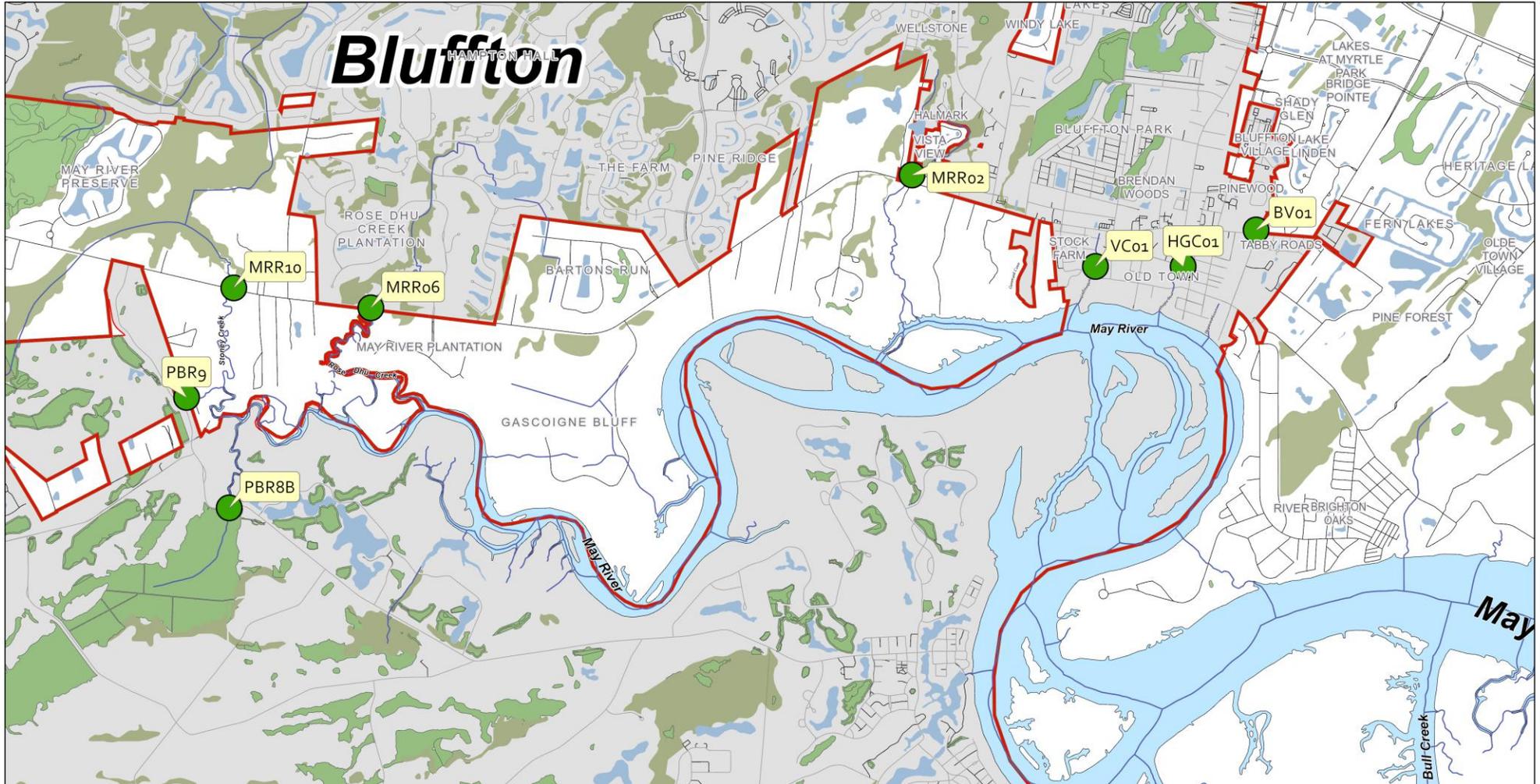
Town of Bluffton
Beaufort County, SC

- Town Jurisdiction
- Beaufort County
- Drainage Flow Lines



Updated Date: 11/16/2023

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

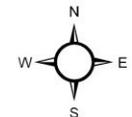


- MST Sampling Location Without Human Genetic Marker Detection
- MST Sampling Location With Human Genetic Marker Detection
- Flowline
- Street
- ☐ Town Jurisdiction
- ☐ County Jurisdiction

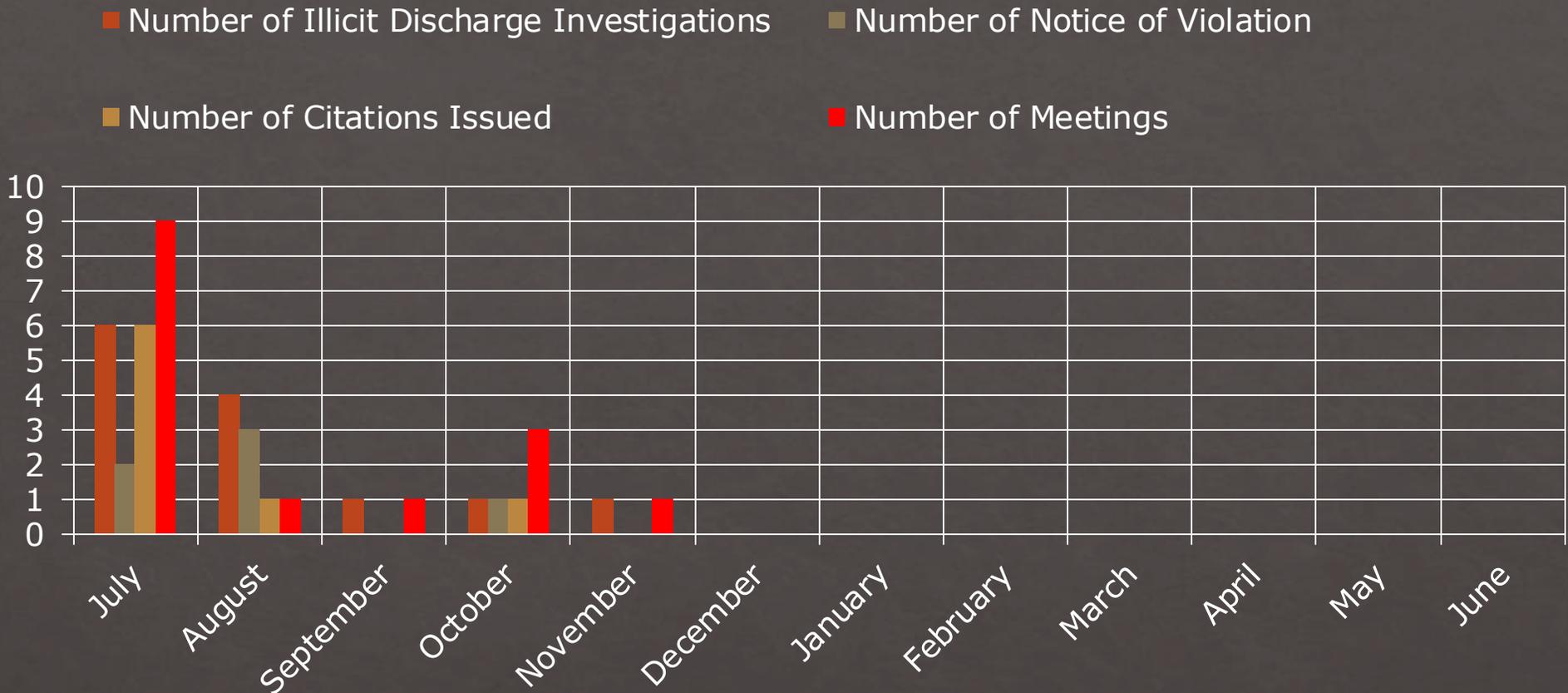
MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results November 2023 MS4 Sampling

Town of Bluffton
Beaufort County, SC



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



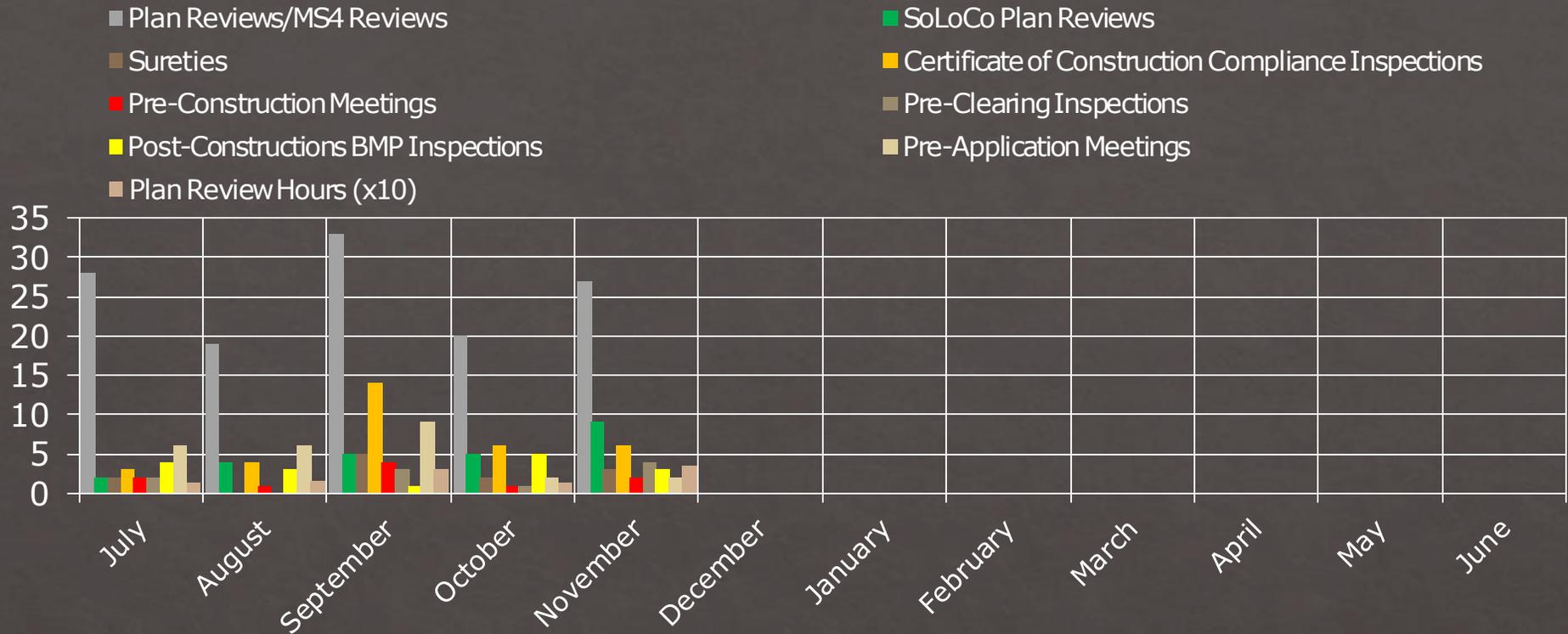
	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of Citations Issued	Number of Meetings
FY 2024 YTD Totals	13	6	8	15
FY 2023 Totals	27	89	1	20
FY 2022 Totals	30	5	3	17

MS4 Minimum Control Measure #4 - Construction Site Stormwater Runoff Control



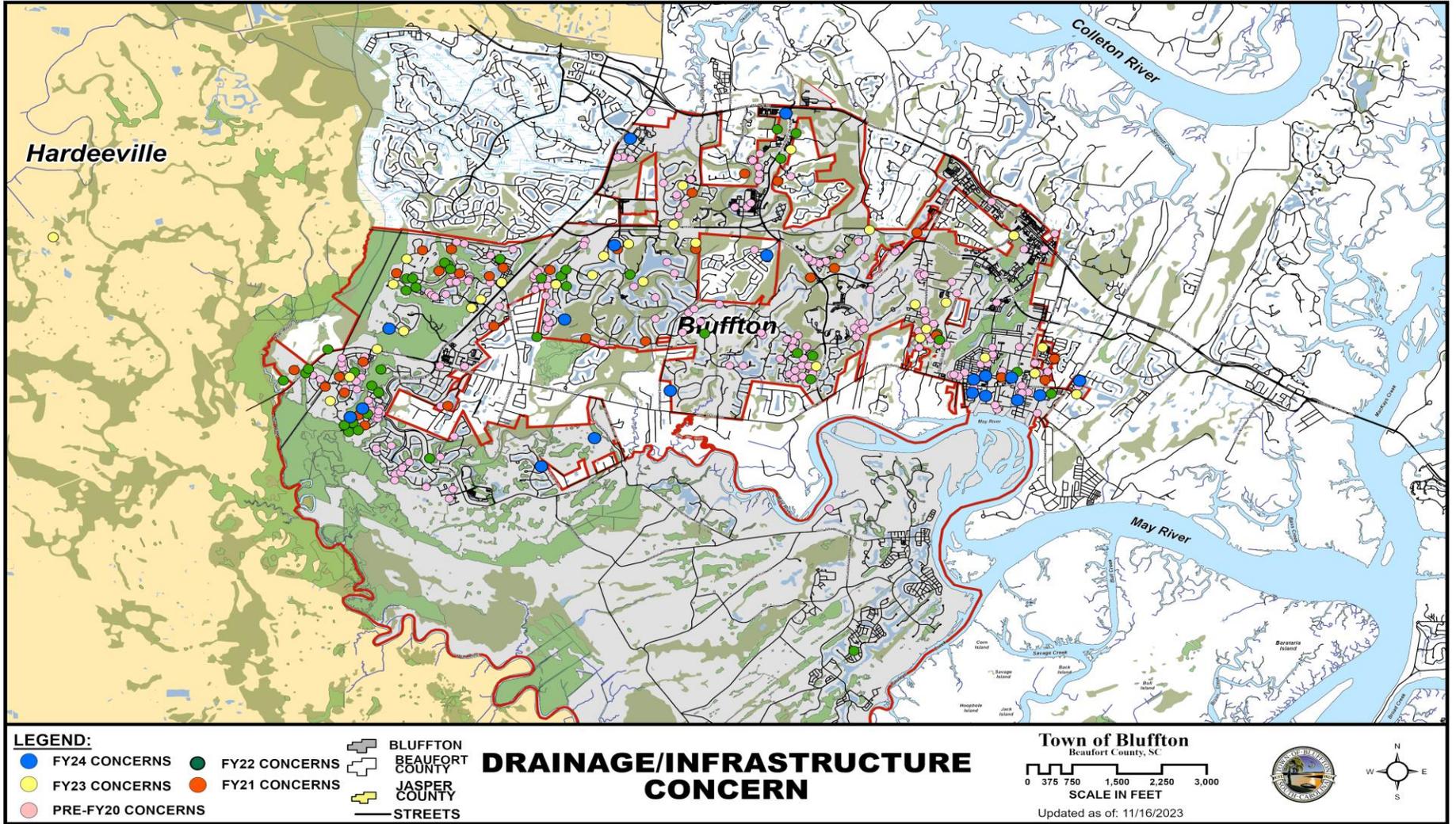
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOV's Issued	Number of SWO Issued	Number of Citations Issued	Number of E&SC Meetings
FY 2024 YTD Totals	886	828	53	7	0	182
FY 2023 Totals	2,321	2,030	266	26	0	577
FY 2022 Totals	3,127	2,701	392	49	0	673

MS4 Minimum Control Measure #5 Stormwater Plan Review & Related Activity



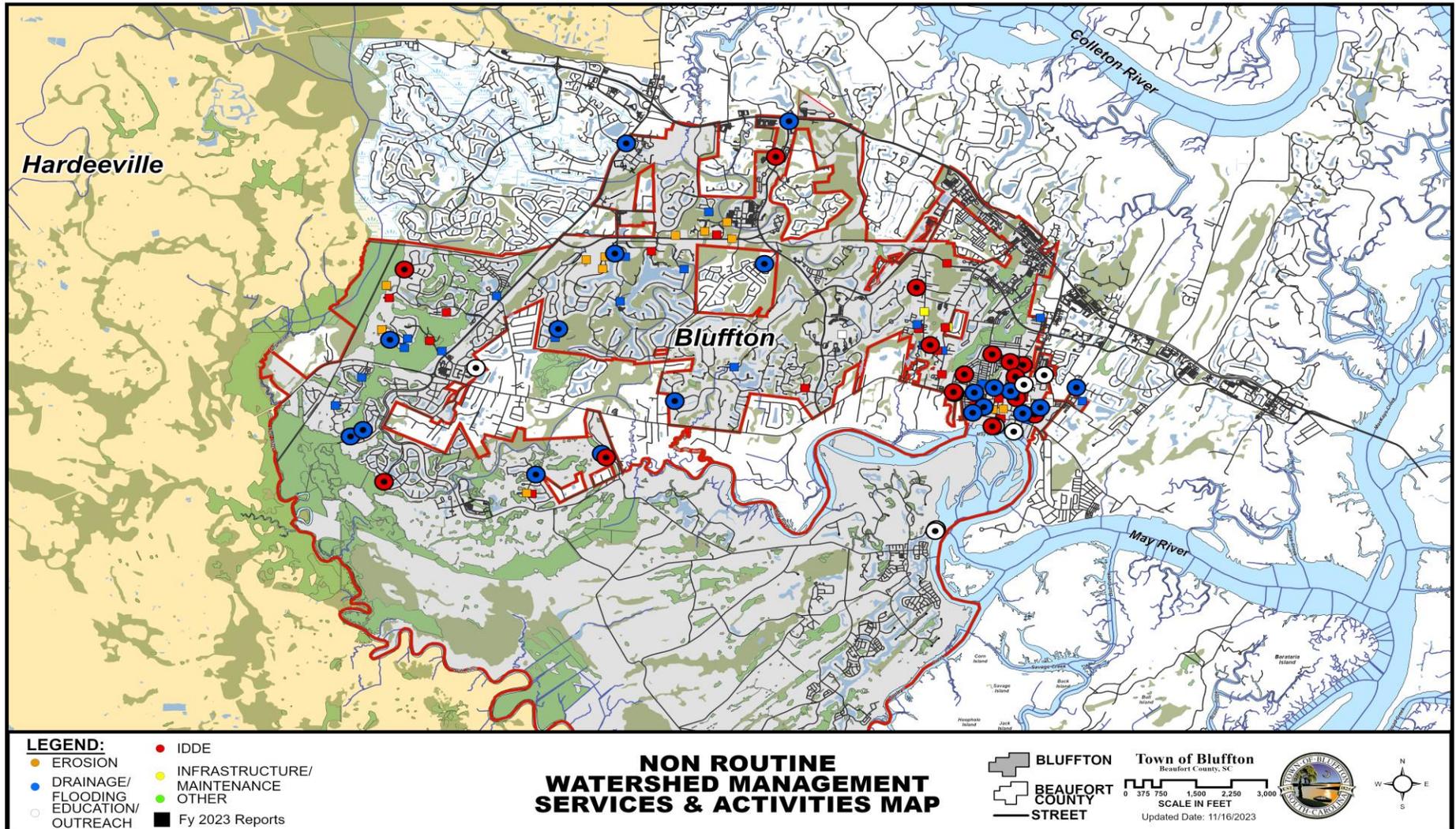
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2024 YTD	127	25	12	33	10	10	16	25	105 Hrs.
FY 2023 Totals	297	67	42	40	15	13	45	50	386 Hrs.
FY 2022 Totals	231	13	42	26	30	23	44	26	454 Hrs.

Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2024 YTD Totals	18	2
FY 2023 Totals	61	52
FY 2022 Totals	38	34

Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2024 YTD Totals	44	17
FY 2023 Totals	46	23
FY 2022 Totals	33	21

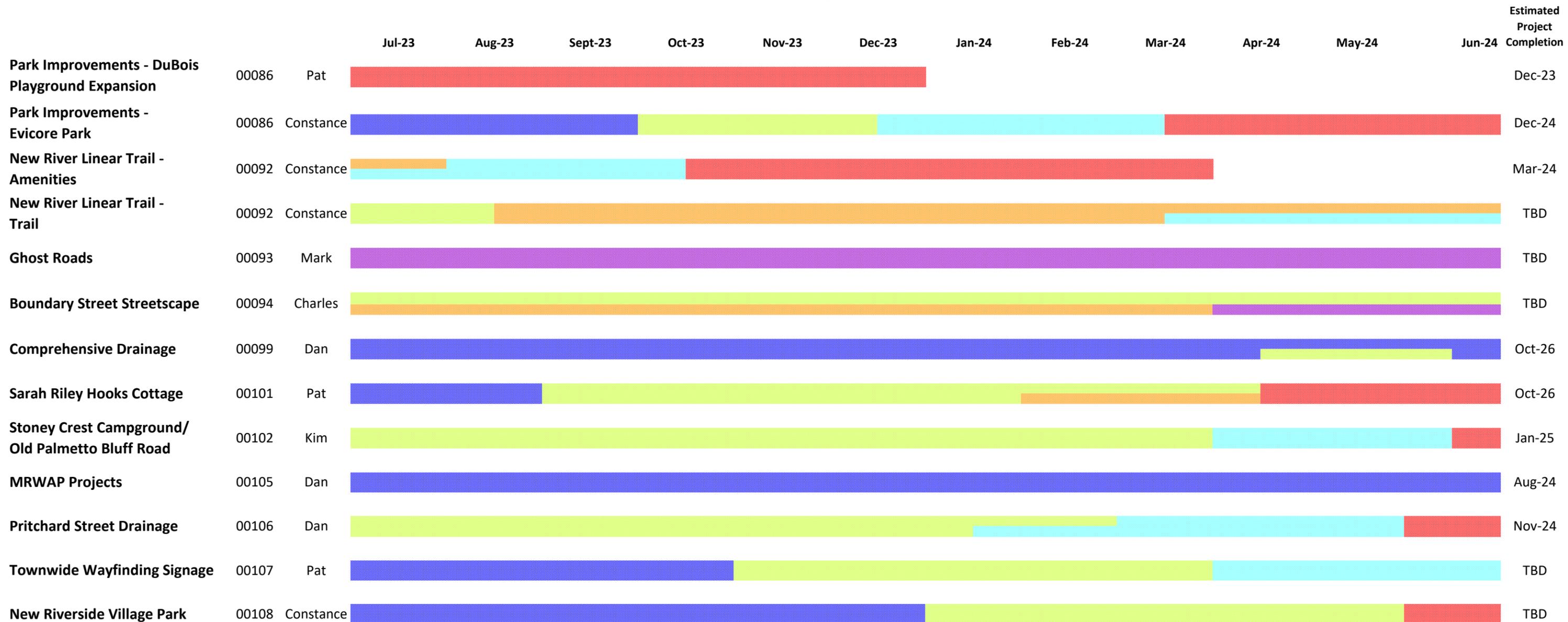
FY24 CIP Master Project Schedule



■ Planning & Conceptual Design
 ■ Final Design & Construction Documents
 ■ Permitting
 ■ Easement & Land Acquisition
 ■ Bidding & Contracts
 ■ Construction

SUBJECT TO CHANGE

FY24 CIP Master Project Schedule



■ Planning & Conceptual Design
 ■ Final Design & Construction Documents
 ■ Permitting
 ■ Easement & Land Acquisition
 ■ Bidding & Contracts
 ■ Construction

SUBJECT TO CHANGE

DRAFT SWUB SCHEDULE 2024

DATE	TIME	LOCATION
Wednesday, February 14 th	2:00PM	Executive Conference Room 100 Ribaut Rd
Wednesday, April 17 th	2:00PM	Executive Conference Rom 100 Ribaut Rd
Wednesday, May 15 th	2:00PM	Executive Conference Rom 100 Ribaut Rd
Wednesday, July 17 th	2:00PM	Executive Conference Rom 100 Ribaut Rd
Wednesday, September 18 th	2:00PM	Executive Conference Rom 100 Ribaut Rd
Wednesday, November 20 th	2:00PM	Executive Conference Rom 100 Ribaut Rd
Wednesday, December 18 th	2:00PM	Executive Conference Rom 100 Ribaut Rd



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, February 14th, 2:00 p.m.
County Council Chambers
Beaufort, South Carolina 843.255.2805

1. CALL TO ORDER – 2:00p.m.

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.

- A. Approval of Agenda
 - B. Approval of Minutes – Decemebr 12th, 2023
([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. REPORTS
- A. Utility Update – Katie Herrera ([backup](#))
 - B. Monitoring Update – Katie Herrera ([backup](#))
 - C. Stormwater Implementation Committee Report – Katie Herrera([backup](#))
 - D. Regional Coordination – Katie Herrera ([backup](#))
 - E. Municipal Reports – Taylor Brewer ([backup](#))
 - F. Stormwater Related Projects – Taylor Brewer ([backup](#))
 - G. Professional Contracts Report – Taylor Brewer ([backup](#))
 - H. MS4 Update – Taylor Brewer ([backup](#))
 - I. Staff Update – Taylor Brewer ([backup](#))
 - J. Maintenance Projects Report – Stephen Carter ([backup](#))
 - K. Liaison Report - Ms. Alice Howard
5. UNFINISHED BUSINESS
- A. Board Consolidation Update - Katie Herrera ([backup](#))
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
- A. Wednesday, April 17th ([backup](#))
9. ADJOURNMENT

