



BEAUFORT COUNTY STORMWATER MANAGEMENT UTILITY BOARD AGENDA Wednesday, April 19th, 2023, 2:00 p.m. Brewer Memorial Park 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 February 15th, 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 Katie Herrera (backup)
- F. Stormwater Related Projects Julianna Corbin (backup)
- G. Upcoming Professional Contracts Report Julianna Corbin (backup)
- H. MS4 Update Julianna Corbin (backup)
- I. Staff Update Julianna Corbin (backup)
- J. Maintenance Projects Report Stephen Carter (backup)
- K. Liaison Report Ms. Alice Howard

5. UNFINISHED BUSINESS

- A. Stormwater Budget Update Carolyn Wallace (backup)
- 6. NEW BUSINESS
 - A. Brewer Memorial Park Walk Through Stormwater Staff
- 7. PUBLIC COMMENT
- 8. NEXT MEETING AGENDA
 - A. Wednesday, May 17TH 2023 (backup)
- 9. ADJOURNMENT





Beaufort County Stormwater Management Utility Board (SWUB Board)

Meeting Minutes

February 15, 2023, at 2:00 p.m. Beaufort County Chambers

Members	Ex-Officio Me	embers
Absent	Present	Absent
	Nate Farrow	
	Bill Baugher	
	Jeff Netzinger	
	Van Willis	
County Staff	Visitors	;
Absent		
Matt Rausch	Jacob Terry	
	Alice Howard	
	Mr. William Smith, St. Hel	ena
	Absent County Staff Absent	AbsentPresentNate FarrowBill BaugherJeff NetzingerVan WillisVan WillisCounty StaffAbsentMatt RauschJacob TerryAlice Howard

- 1. Meeting Called to Order Mr. Marc Feinberg called the meeting to order at 2:00 p.m.
 - A. Agenda Approved.
 - **B.** Approval of Minutes Approved.
- 2. Introductions Completed.
- 3. Public Comment(s) No comment.
- 4. Special Presentation(s) Mrs. Katie Herrera
 - A. Suggested that the next SWUB meeting take place at Brewer Memorial Park.
- 5. Reports -
 - A. Utility Update Mrs. Katie Herrera
 - ✓ Regionalization
 - (a) Staff continues to support coordination on permitting standards.
 - 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.
 - ✓ Special presentation suggestions Brewer Memorial Park.
 - (a) Brewer Memorial Park Spring 2023

- ✓ Reminder: Annual Financial report for 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 Received.
 - (b) Town of Hilton Head Island Received.
 - (c) Town of Bluffton Received.
 - (d) Town of Port Royal Not Received.
 - (e) City of Beaufort Not Received.
- B. Monitoring Update Mrs. Katie Herrera
 - ✓ USCB is continuing to collect samples as we have had a lot of weather come through the area.
- C. Stormwater Implementation Committee (SWIC) Report Mrs. Katie Herrera
 - ✓ Staff is currently working on the Fiscal Year 24 Budget, which includes cost share items. SWIC items to be provided by 2/15/2023 per IGAs.
- D. Regional Coordination Mrs. Katie Herrera
 - ✓ Item No. 9 Arthur Horne process: Met with NRCS staff on February 6, 2023 who was contacted by the Gullah Geechee community about additional funding for a stormwater related project.

E. Municipal Reports -

- ✓ Town of Hilton Head Island Mr. Jeff Netzinger
 - (a) Preliminary budget submission for next fiscal school year; currently being reviewed by senior staff members.
- ✓ Town of Bluffton Mr. Bill Baugher
 - (a) Buck Island drainage improvement continues.
 - (b) Old Town comprehensive infrastructure drainage study is nearing completion.
 - (c) Bridge St. is at mid-construction.
 - (d) New Riverside Barn Park: Construction has begun.
 - (e) Water Quality Manager has begun a comprehensive study of continuous flow at Stoney Creek area.
 - (f) USCB has begun their MST lab work.
- ✓ Town of Port Royal Mr. Van Willis
 - (a) Waiting on response for grants that have been submitted.

- (b) Installing the water control structure in the Cypress Wetlands.
- (c) Have officially adopted the SoLoCo Manual.

F. Stormwater Related Projects – Ms. Julianna Corbin

- 1. Easements Staff is working on easement requests and meets monthly to review status of each as well as any new easements. Edits to the Extent of Service and Level of Service documents pending Council guidance prior to finalization. Did we talk about this?
- 2. Complaints Staff continually works numerous drainage related complaints each month.
 - (a) Shell Point Community The intergovernmental agreement with SCDOT was uploaded for Beaufort County legal review on January 24. Environmental survey scope and fee was approved on January 25 and surveyors are to commence imminently.
- 3. Factory Creek Watershed Regional Detention Basin "Phase II" Staff is preparing to take legal action.
- 4. Grave Property / Pepper Hall Public / private partnership County Stormwater obligations have been completed.
- 5. Whitehall property purchase Construction continues on City property.
- 6. Lady's Island Plan, Sea Level Rise, and "no-fill" ordinance No update at this time.
- 7. Tuxedo Park Pond Dredging Project deferred to Fiscal Year 24.
- 8. Huspah Court North and Bessie's Lane: On-call Stormwater Infrastructure services.
 - (a) Huspah Court materials have been ordered. Pipe was delivered January 30 and junction boxes are expected in 12-14 weeks. JH Hiers is preparing estimate.
 - (b) Bessies Lane Site visit scheduled for February 7, 2023. JH Hiers is preparing estimate.
- 9. Arthur Horn Park No update since last report: The final Preliminary Investigation Feasibility Report (PIFR) was signed for approval by the State Conservationist on October 11, 2022. The project is fourth in the State Agency Priority Rating. Planning efforts with federal contractors will begin next.
- **G.** Professional Contracts Ms. Julianna Corbin
 - CIP Fiscal Year 18 Grouping Stormwater Projects (Design Ward Edwards \$202,000, Andrews Engineering \$650,490, Const. est. \$5,512,900)
 - (a) Brewer Memorial Irrigation issues at the park were scheduled for repair in January.
 - ✓ Stormwater engineering consulting services Woolpert
 - (a) Scope #4 Tax Run and Utility assistance. In the event the County needs assistance with assessing SW Fees, we have them available on call. We will also look to have them QA/QC data from previous years. Allocated funds -\$29,900.00.
 - (b) Scope #8 St. Helena Drainage Study. Final report draft received 6/30. Allocated funds \$129,525.00

- (c) Scope #11 Woolpert continues to QA/QC the model results and produce the report. Allocated funds \$213,650.00
- (d) Scope #12 Water quality monitoring station and rain gauge at Okatie River headwaters. Allocated funds \$58,804.15
- (e) Scope #13 NPDES SMS4 general permit assistance 2023. Allocated funds \$40,000.00.
- (f) 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. Pending approval.

Scopes on County and Woolpert Radar:

- 1. Mint Farm Water Quality Retrofits.
- H. MS4 Report Ms. Julianna Corbin
 - (a) Plan Reviews and inspections have slowed down but there is expectancy to increase in the coming months.
 - (b) Stormwater Inspectors have received their OSHA certifications.
 - (c) Continue to work with taking applications and payments through the Energov permitting software.
- I. Public Education Report Ms. Julianna Corbin
 - (a) Unavailable at time of report.
- J. Staff Update Ms. Julianna Corbin
 - (a) Stormwater continues to interview for all staff vacancies.
- K. Maintenance Report Mr. Stephen Carter
 - (a) Lightsey Road Channel Sheldon (5): This project improved 3,383 linear feet of drainage system. The scope of work included cleaning out 3,383 linear feet of channel ditch. The total cost was \$15,131.06.
 - (b) Halifax Drive St. Helena Island (8): This project improved 4,645 linear feet of drainage system. The scope of work included cleaning out 4,219 linear feet of channel ditch and 426 linear feet of roadside ditch. The total cost was \$17,478.62.
 - (c) Old Jericho Road and Taft Street Port Royal Island (6,9): This project improved 1,330 linear feet of drainage system. The scope of work included cleaning out 1,330 linear feet of roadside ditch and jetting (6) driveway pipes. Hydroseeded for erosion control. The total cost was \$17,781.71.
 - (d) Beaufort County Sherriff's Office, Camp St. Mary's Road Bluffton (4). The scope of work included grading the road to improve drainage. The total cost was \$1,431.41.

(e) Burkes Beach – Hilton Head Island (3): This project improved 1,762 linear feet of drainage system. The scope of work included cleaning out 1,762 linear feet of roadside ditch and jetting (2) driveway pipes. The total cost was \$11,577.84.

L. Liaison Report: Beaufort County Council – Mrs. Alice Howard

- (a) Held the Budget Workshop for two days and discussed the following pertaining to stormwater:
 - Equipment needs,
 - Senator Graham's staff,
 - Funding process for Shell Point,
- 6. Unfinished Business Mrs. Katie Herrera
 - (a) Met onsite with members of the Open Land Trust. It was decided that the Beaufort County Rural and Critical Land Preservation board would not support the Land Swap Agreement initiative.

7. New Business – Mrs. Katie Herrera

- (a) TY23 Management Memo is a document we provide to the municipalities about the previous tax year and what was billed and collected for the information of the jurisdictions that all serve under the utility. We use this information to project the cost impact of next year.
- 8. Public Comment Mr. William Smith
 - (a) St. Helena has a lot of road and ditches that are filled with water and the community is wondering if they are being ignored by the utility board members and Beaufort County?
 - (b) Residents are losing property because their lands are becoming wetlands.
 - (c) What is the stormwater plans to solve the standing water problems?
 - ✓ Steve Andrews: What can we do for the residents on St. Helena?
 - ✓ Mr. Marc Feinberg: We would recommend to Mrs. Herrera and her staff to investigate to analyze the full situation.
 - ✓ Mrs. Katie Herrera: A study has been performed to determine how to address flooding issues. Staff is coordinating with the County Council representative to present the information of the Study.

9. Next Meeting Agenda –

✓ Approved

10. Meeting Adjourned



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



March 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. Town of Port Royal has adopted SoLoCo.
 - 3. Town of Hilton Head is considering adopting SoLoCo.
- 2. Special presentation suggestions
 - c) Fall 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 Received.
 - d. Town of Port Royal Received.
 - e. City of Beaufort Not Received.

Monitoring Update

- 1. Lab Update (From Lab Manager Danielle Mickel)
 - i. See attached report.

Stormwater Implementation Committee (SWIC) Report

1. No update at the time of report.

Regional Coordination

1. No update at the time of report.

Municipal Reports

- 1. Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager and Brian Eber, 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.

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- 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. Edits to the Extent of Service and Level of Service documents pending Council guidance prior to finalization
- 2. Complaints Staff continually works numerous drainage related complaints each month.
 - a) Shell Point Community Task Force meeting held March 14. The intergovernmental agreement with SCDOT is approved and pending County signature. Design Scope and Fee was rejected by Beaufort County on February 13. County staff awaits results of environmental survey scope at time of report. The project is on hold at present and the path forward will be determined upon receipt of the environmental findings and revised design scope and fee. Congressional earmark through the Water Resources Development act was approved, but there was no money tied to the approval. Staff has worked with Senator Graham's office and SCEMD to submit a Congressionally Directed Spending request for next fiscal year.
- 3. Factory Creek Watershed Regional Detention Basin "Phase II" No update; litigation pending.
- 4. On Call Stormwater infrastructure services
 - a) Huspah Court N JH Hiers delivered revised estimate. Project will seek approval at Community Services and Land Use Committee on April 10 and subsequently at County Council on April 10 or 24. All materials delivered March 29.
 - b) Bessies Lane –JH Hiers is preparing estimate.
 - c) Church of God Material delivered and estimate has been provided by JH Hiers. Project will seek approval at Community Services and Land Use Committee on April 10.
- 5. Arthur Horne Park- No update since last report The final Preliminary Investigatory Feasibility Report (PIFR) was signed for approval by the State Conservationist on October 11. The project is fourth in the State Agency Priority Rating. Planning Efforts with federal contractors will begin next.

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 Irrigation issues at the park have been repaired. Closeout pending.

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

- 2. Stormwater engineering consulting services Woolpert
 - a) Scope #8 St. Helena Drainage Study. Final report draft received 6/30. Allocated funds \$129,525.00
 - b) Scope #11 Northern Lady's Island Drainage Study Phase II Report draft is pending. Allocated funds \$213,650.00
 - c) Scope #12 Monitoring Station and rain gauge at Okatie River headwaters. 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. Inventory complete and survey to begin first week of April.

Scopes on County and Woolpert Radar:

1. Mint Farm Water Quality Retrofits

MS4 Report

- 1. Plan Review <u>See the attached chart</u> for Beaufort County Stormwater staff plan review workload for the past 12 months.
- 2. Stormwater Permits <u>See the attached chart</u> for Beaufort County Stormwater permits issued for the past 12 months.
- 3. Monthly Inspection summary <u>See the attached chart</u> for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
- 4. Public Education No update at this time. Annual report completed on 3/15/23.
- 5. Energov permitting software No update at this time.
- 6. MS4 Statewide General permit No update at this time. Staff working with the Airports team to update their Industrial Stormwater Permit. Staff completing the annual report to be submitted prior to the end of April.

Staff Update

 Katie Herrera has accepted the role of the Assistant Public Works Director of Environmental. The Stormwater Manager and Stormwater Infrastructure Superintendent positions are currently vacant. Stephen Carter is filing in as the Interim Stormwater Superintendent. Jonathan Spencer's last day will be 4/17/23 to further his education. All vacancies continue to be advertised for.



Date: April 5, 2023

To: Stormwater Management Utility Board

From: Stephen Carter, Interim Stormwater Infrastructure Superintendent

Re: Maintenance Project Report

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

Major Projects:

- Island Tank Road and John Davis Court Port Royal Island (6): This project improved 1,977 linear feet of drainage system. The scope of work included cleaning out 1,830 linear feet of roadside ditch and 147 linear feet of valley drain. Jetted (27) driveway pipes and (5) crossline pipes. The total cost was \$15,978.95.
- Joe Frazier Road Channel Port Royal Island (6): This project improved 450 linear feet of drainage system. The scope of work included grubbing and clearing 450 linear feet of workshelf and cleaning out 450 linear feet of channel ditch. Installed (1) access pipe, (1) bleeder pipe, rip rap and hydroseeded for erosion control. The total cost was \$32,583.65.

Minor or Routine Projects:

- Brilliant Lane Port Royal Island (6,9): This project improved 2,552 linear feet of drainage system. The scope of work included cleaning out 545 linear feet of channel ditch, 1,126 of roadside ditch and 881 linear feet of valley drain. Jetted (11) driveway pipes, (2) crossline pipes and (1) access pipe. The total cost was \$6,317.92.
- Camp St Marys Road and Okatie Bluff Road Bluffton (4): This project improved 100 linear feet of drainage system. The scope of work included cleaning out 100 linear feet of roadside ditch, repairing (1) crossline pipe and (1) sinkhole. The total cost was \$6,414.80.



Project Summary: Island Tank Road and John Davis Court

Activity: Routine/Preventive Maintenance Duration: 11/29/2022 - 02/01/2023

Narrative Description of Project:

Project improved 1,977 L.F. of drainage system. Cleaned out 1,830 L.F. of roadside ditch and 147 L.F. of valley drain. Jetted (27) driveway pipes and (5) crossline pipes.

2023-580 / Island Tank Rd and John Davis	Labor	Labor	Equipment	Material	Contractor	Indirect	Total
Ct	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	2.00	\$65.48	\$0.00	\$0.00	\$0.00	\$40.42	\$105.90
COVD / Cleaned Out Valley Drains	24.00	\$630.99	\$185.28	\$16.50	\$0.00	\$389.52	\$1,222.29
DPJT / Driveway Pipe - Jetted	24.00	\$755.05	\$459.84	\$81.01	\$0.00	\$466.08	\$1,761.98
HAUL / Hauling	52.00	\$1,558.44	\$991.12	\$495.11	\$0.00	\$0.00	\$3,044.67
ONJV / Onsite Job Visit	33.00	\$1,376.76	\$143.55	\$41.98	\$0.00	\$0.00	\$1,562.29
RSDCL / Roadside Ditch - Cleanout	180.00	\$4,538.13	\$986.72	\$470.44	\$0.00	\$2,054.88	\$8,050.17
UTLOC / Utility locates	5.00	\$208.60	\$17.40	\$5.65	\$0.00	\$0.00	\$231.65
Grand Total	320.00	\$9,133.45	\$2,783.91	\$1,110.69	\$0.00	\$2,950.90	\$15,978.95

Before

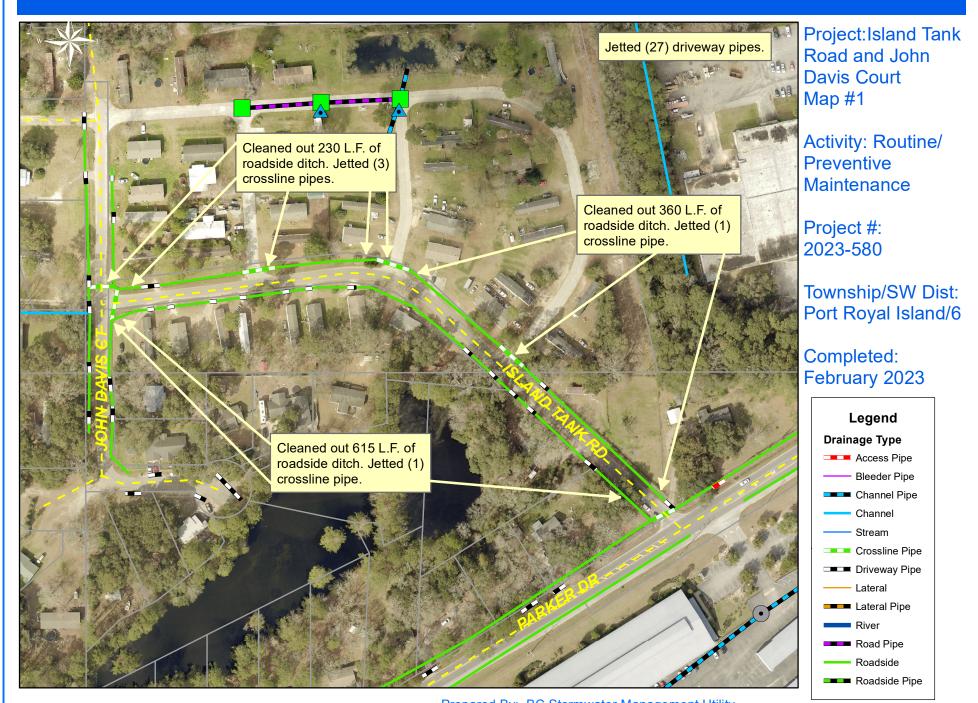


After

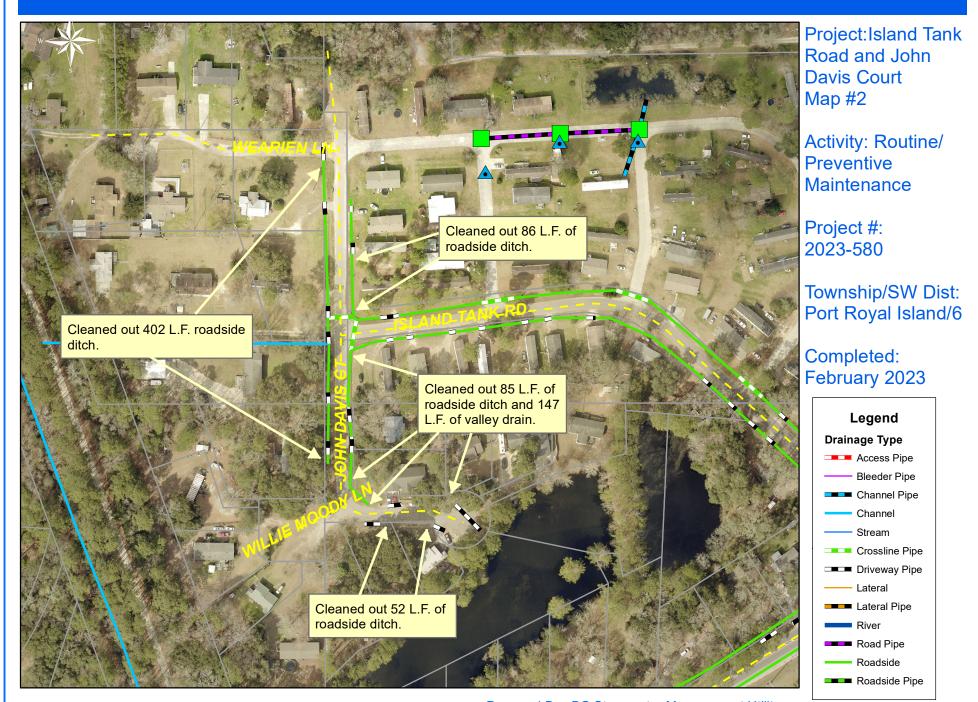








0 25 50 100 150 200 Feet **1 inch = 170 feet** Prepared By: BC Stormwater Management Utility Date Print:03/09/23 File:C:\esproject summaries map/Island Tank Road & John Davis Court Map #1_2023-580



0 25 50 100 150 200 Feet 1 inch = 170 feet

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Project Summary: Joe Frazier Road Channel

Activity: Routine/Preventive Maintenance Duration: 12/20/2022 - 02/09/2023

Narrative Description of Project:

Project improved 450 L.F. of drainage system. Grubbed and cleared 450 L.F. of workshelf and cleaned out 450 L.F. of channel ditch. Installed (1) access pipe, (1) bleeder pipe, rip rap and hydroseeded for erosion control.

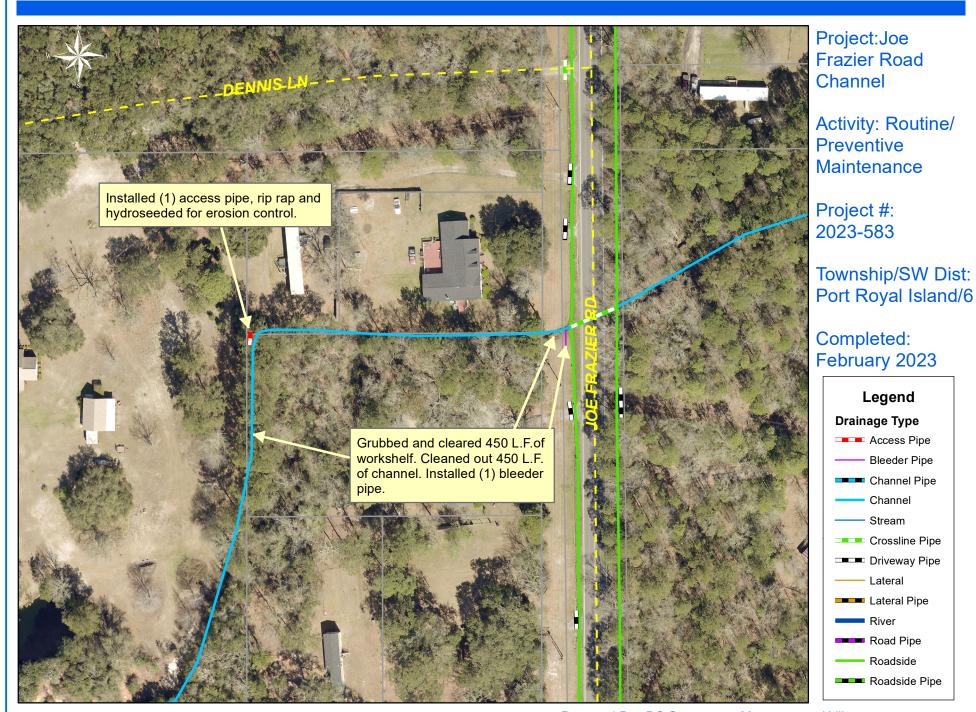
2023-583 / Joe Frazier Road Channel	Labor	Labor	Equipment	Material	Contractor	Indirect	Total
	Hours	Cost	Cost	Cost	Cost	Cost	Cost
APINS / Access pipe - installed	24.00	\$758.01	\$125.38	\$501.09	\$0.00	\$467.92	\$1,852.41
AUDIT / Audit Project	4.00	\$130.96	\$0.00	\$0.00	\$0.00	\$80.84	\$211.80
CCO / Channel - cleaned out	16.00	\$546.76	\$66.92	\$248.86	\$0.00	\$337.52	\$1,200.07
DEBREM / Debris Removal - Jobsite	88.00	\$2,820.80	\$555.61	\$151.83	\$0.00	\$1,741.28	\$5,269.52
HAUL / Hauling	51.00	\$1,761.53	\$972.06	\$2,204.50	\$0.00	\$1,087.32	\$6,025.40
HYDR / Hydroseeding	8.00	\$273.38	\$58.22	\$437.28	\$0.00	\$168.76	\$937.64
ONJV / Onsite Job Visit	69.00	\$3,371.13	\$300.15	\$109.41	\$0.00	\$2,029.53	\$5,810.22
PA / Project Assit	24.00	\$607.20	\$104.40	\$60.50	\$0.00	\$374.88	\$1,146.98
WSGRB / Workshelf - Grubbed	136.00	\$4,245.74	\$904.20	\$335.60	\$0.00	\$2,620.88	\$8,106.42
WSL / Workshelf - Level 48.00		\$1,261.83	\$162.86	\$182.10	\$0.00	\$416.40	\$2,023.19
Grand Total	468.00	\$15,777.34	\$3,249.80	\$4,231.17	\$0.00	\$9,325.33	\$32,583.65
Before		Du	ring			After	•

During





(No Picture Available)



Prepared By: BC Stormwater Management Utility Date Print:04/03/23 File:C:\esproject summaries map/Joe Frazier Road Channel 2023-583

0 20 40 80 120 160 Feet 1 inch = 100 feet



Project Summary: Brilliant Lane

Narrative Description of Project:

Activity: Routine/Preventive Maintenance Duration: 08/14/2022 - 01/19/2023

Project improved 2,552 L.F. of drainage system. Cleaned out 545 L.F. of channel ditch, 1,126 L.F. roadside ditch and 881 L.F. valley drain. Jetted (11) driveway pipes, (2) crossline pipe and (1) access pipe.

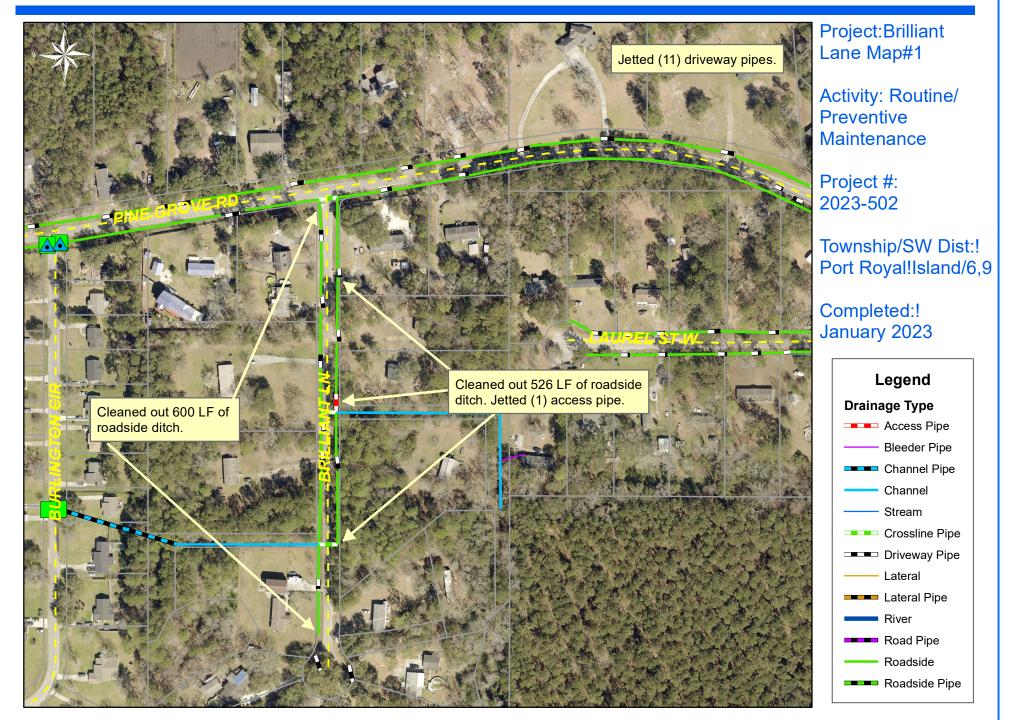
2023-502 / Brilliant Lane	Labor	Labor	Equipment	Material	Contractor	Indirect	Total
	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	1.00	\$32.74	\$0.00	\$0.00	\$0.00	\$20.21	\$52.95
CCO / Channel - cleaned out	CO / Channel - cleaned out 24.00			\$68.19	\$0.00	\$296.88	\$1,105.41
DPJT / Driveway Pipe - Jetted	22.00	\$692.13	\$434.57	\$209.71	\$0.00	\$427.24	\$1,763.65
HAUL / Hauling	24.00	\$792.37	\$457.44	\$151.57	\$0.00	\$341.12	\$1,742.50
RSDCL / Roadside Ditch - Cleanout	24.00	\$758.01	\$142.15	\$124.14	\$0.00	\$467.92	\$1,492.22
UTLOC / Utility locates 2.50 \$107.6		\$107.62	\$0.00	\$0.00	\$0.00	\$53.56	\$161.18
Grand Total	97.50	\$3,037.60	\$1,119.78	\$553.61	\$0.00	\$1,606.93	\$6,317.92

Before



After

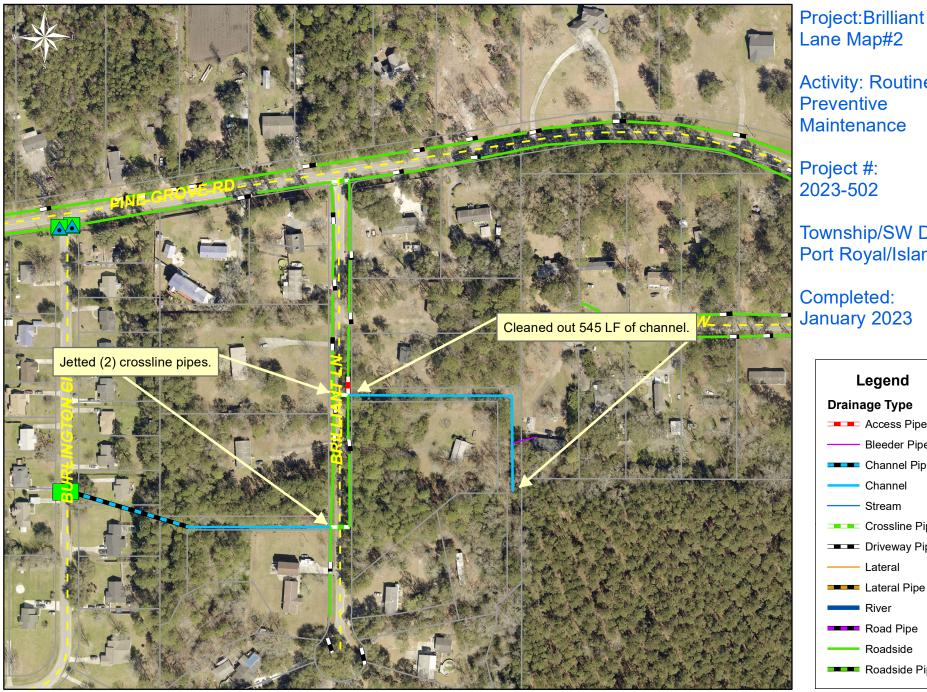




0 50 100 200 300 400 Feet

1 inch = 210 feet

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1 inch = 210 feet

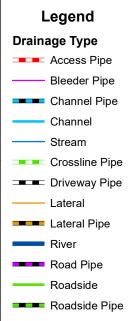
Lane Map#2

Activity: Routine/ Preventive Maintenance

Project #: 2023-502

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

Completed: January 2023



Prepared By: BC Stormwater Management Utility Date Print:03/06/23 File:C:\esproject summaries map/Brilliant Lane Map#2_2023-502





Project Summary: Camp St Marys Road and Okatie Bluff Road

Activity: Routine/Preventive Maintenance Duration: 11/21/2022 - 11/22/2022

Narrative Description of Project:

Project improved 100 L.F. of drainage system. Cleaned out 100 L.F. of roadside ditch, repaired (1) crossline pipe and (1) sinkhole.

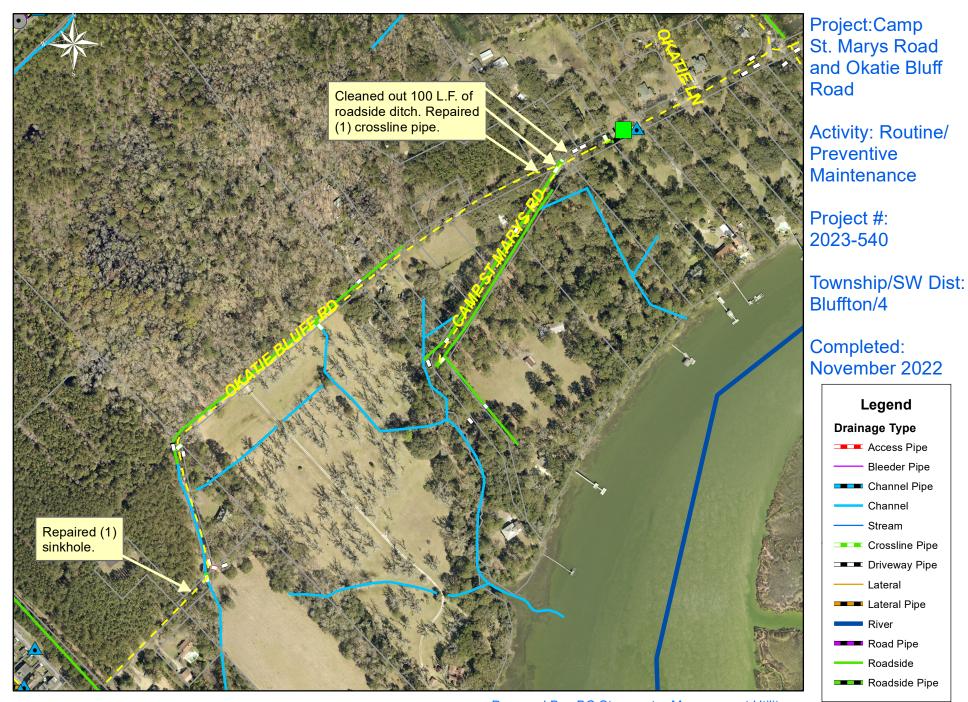
2023-540 / Camp St Marys Road and Okatie	Labor	Labor	Equipment	Material	Contractor	Indirect	Total
Bluff Road	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
CPREP / Crossline Pipe - Repaired	40.00	\$978.51	\$185.28	\$168.86	\$0.00	\$389.52	\$1,722.17
HAUL / Hauling	16.00	\$479.52	\$304.96	\$1,429.09	\$0.00	\$0.00	\$2,213.57
ONJV / Onsite Job Visit	16.00	\$667.52	\$69.60	\$17.40	\$0.00	\$0.00	\$754.52
RSDCL / Roadside Ditch - Cleanout	40.00	\$978.51	\$235.44	\$94.60	\$0.00	\$389.52	\$1,698.07
Grand Total	112.50	\$3,120.43	\$795.28	\$1,709.95	\$0.00	\$789.15	\$6,414.80



During

After





0 80 160 320 480 640 Feet 1 inch = 420 feet

Prepared By: BC Stormwater Management Utility Date Print:03/20/23 File:C:\esproject summaries map/Camp St.Marys and Okatie Bluff Road_2023-540

Beaufort County Stormwater Utility Proposed Budget for FY2024

Unaudited Projected Revenue

	FY 2023	FY 2024
Revenue	Budget	Proposed Budget
Total Revenue from SWU Fees	6,713,976	(6,945,300)
Interest	15,000	(100,000)
Other	20,960	(132,000)
Reserve Utilization	1,445,233	(3,685,270)
Projected Revenue Total	8,195,169	(10,862,570)

Cost-Share of SWM Budget (\$284,929), WQ montioring (\$170K) & PE/O (\$90K): COB - \$38,321 ToB - \$65,884 ToPR - \$24,361 ToHHI - \$162,819 CWI Fees - \$795,300 (Revenue from SW Fees rounded down from \$6.19M to \$6.15M) Interest on County investments allocated to SW \$20K - SW Permits & Fines \$108K - \$120K 90/10 Grant for Alljoy \$2K - ToB hydroseeding project \$2K - CoB hydroseeding project \$2K - CoB hydroseeding project \$3.078M - Maintenance Projects

Efforts (Expenses)

FY 2023	FY 2024
323,840	302,310
	•
5,106,258	5,232,820
	2,277,000
-	635,000
5,106,258	8,144,820
1,000,070	980,233 🕇
170,000	170,000
90,000	90,000
1,260,070	1,240,233
50,000	- 1
800,000	-
400,000	-
1,250,000	-
255,000	1,175,207
8,195,169	10,862,570
	323,840 5,106,258 - 5,106,258 1,000,070 170,000 90,000 1,260,070 50,000 800,000 400,000 1,250,000 255,000

\$570K - Vacuum truck

\$74K - F250 pickup (replacement)

\$225K - JD Loader (replacement)

\$90K - 308D Cat excavator (replacement)

\$11K - Trailer

\$205K - rollover for bush hog purchase

Personnel SW Manage

SW Manager; Business Mngr; Admin Tech - .5 FTE (Fringe benefits adjusted for all sections) Personnel Superintendent; Asst Superintendent; Admin Tech, (2) Foremen; (35) crew & support Professional/Non-Professional Services \$250K - Prescriptive drainage easements consultant service \$120K - Sweeper service Major Project \$166K - St. Helena projects (watershed study) Construction \$800K - Shell Point \$350K - Rivers End construction \$209K - Church of God \$550K - Lucy Point Creek Regional BMP (Tuxedo Park) (2017 Master Plan) \$368K - Huspah Court N

Professional Services \$635K - Shell Point (Rollover for FY2023)

Personnel

Env Engr; Sr Inspector; (3) Inspectors; (2) Infrastruc Inspec Tech; Admin Tech - .5 FTE **Professional Services** \$10K - Cost-Share for aerial photo \$354K -SW Consultant service (include \$54K rollover for FY2023) Alljoy Drainage Study (\$120K) River's End Drainage Study (\$175K) Mint Farm Drainage Study Insitu Monitoring Station maint (\$5K) Permit compliance (25K) General Services (29K)

Graves/Pepper Hall - cost-share of drainage construction completed Shell Point - moved to operations budget Arthur Horn - Next milestone in FY2026





BEAUFORT COUNTY STORMWATER MANAGEMENT UTILITY BOARD AGENDA Wednesday, May 17th, 2023, 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 April 19th, 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. Stormwater Related Projects Julianna Corbin (backup)
 - E. Upcoming Professional Contracts Report Julianna Corbin (backup)
 - F. Regional Coordination Katie Herrera (backup)
 - G. Municipal Reports Katie Herrera (backup)
 - H. MS4 Update Katie Herrera(backup)
 - I. Staff Update Katie Herrera (backup)
 - J. Maintenance Projects Report Matthew Rausch (backup)
 - K. Liaison Report Ms. Alice Howard
- 5. UNFINISHEDBUSINESS
- 6. NEW BUSINESS
- 7. PUBLIC COMMENT
- 8. NEXT MEETING AGENDA
 - A. Wednesday, July 19TH 2023 (backup)
- 9. ADJOURNMENT





USCB Water Quality Lab Update

Beaufort County

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

Amendment #1: Fully executed on 7/28/22 allowing Danielle Mickel to be CO-Principal Investigator and now Lead Principal Investigator of grant contract with Dr. Alan Warren's departure.

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:** First quarter is complete.

CIP:

- 1. Mossy Oaks Drainage Study: Mossy Oaks drainage area plan consists of a bi-monthly collection of four sampling sites; two outfall basins and two upstream basins. Status: Bi-monthly sampling has begun in June 2021. A full year's worth of data is completed.
- 2. Pepper Hall Drainage Study: Pepper Hall property monitoring plan consists of a bi-monthly collection of six sampling sites; 3 inlets and 3 outlets to determine baseline data prior to construction. Sampling will continue during and after construction to measure the effectiveness of BMP's required on-site. Status: Bi-monthly sampling began in January 2021. Sample collection has ceased due to lack of access to site locations.
- 3. Port Royal Redevelopment: The Town of Port Royal continues with WQ monitoring for the four sites in the proposed redevelopment area. The sampling schedule is quarterly wet events and is included in Beaufort County's Monitoring Plan. Status: First quarter is c o m p l e t e.

Town of Bluffton

USCB/Town of Bluffton MOU: An amendment to agreement #2012-17 on July 16, 2021, to extend term to 6/30/23. No new MOU has been agreed upon. 90-day closeout has begun.

Amendment #4: Fully executed on 7/22/22 allowing Danielle Mickel to be CO-Principal Investigator and now Lead Principal Investigator of grant contract with Dr. Alan Warren's departure.

Monitoring for 2023 includes monitoring for the following categories: MS4, TMDL, Monthly, MST, CIP, MRWAP and shared locations. Also, sample collection began for Bridge Street sites for wet weather. **Status**: Flow contractor suggested collecting microbiology samples during storm events at 4 locations over the next 6 months. Monitoring for 2022 began with additional sampling sites and increased frequency of 2X a month.

Special Project: A 319-grant funded BMP to be tested by conducting a simulation and dye study at the proposed BMP location. Project simulation occurred on 10/19/2022.

USCB Water Quality Laboratory

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.

2023 Proficiency testing for the Water Pollution and Water Supply study: Annual PT testing required for all certified laboratory parameters to uphold certification. This study consists of 10 different analyses requiring the analysis of an unknown sample, which is then reported to the PT provider and the State. The passing of all analyses in the study is a requirement to keep laboratory state certification. **Status**: Proficiency testing in process as cannot complete until field instrument arrives.

Standard Operating Procedures and Quality Assurance Manual: Annual update of these documents in its entirety are required to uphold State laboratory certification. **Status**: All SOP's and QAM need to be updated for 2023.

SCDHEC Tri-annual audit: SCDHEC evaluation occurred on 11/30/2022 and certified status continues.

Purchases: New in-situ instrumentation purchased due to old instrumentation being obsolete and repair costs outweigh worth. New instrument is proposed to arrive 8-10 weeks after July 2022. **Status:** We are still waiting on instrument to arrive.

STAFF REPORT Projects and Watershed Resilience Department



MEETING DATE:	April 11, 2023
SUBJECT:	Projects and Watershed Resilience Department Monthly Report
PROJECT MANAGER:	Kimberly Washok-Jones, Director of Projects and Watershed Resilience

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

- 1. Goethe-Shults Sidewalks Phase 2
 - Sidewalks are completed and SCDOT has closed out the project.
 - <u>Next Steps</u>
 - Complete additional services to study the outfall along Shults Road.

2. Buck Island-Simmonsville Neighborhood Sidewalks and Lighting

- Phase 6A along Simmonsville Road from Grayco northward to Sugaree Drive is complete.
- A contract for Phase 6B along Simmonsville Road from Sugaree Drive northward to the existing New Mustang Road was awarded to JS Construction Services, Inc.
- <u>Next Steps</u>
 - Prepare and obtain streetlight easements and begin condemnation process for remaining Phase 5 street lighting easements.
 - Complete Phase 6B construction and SCDOT closeout.
 - Construction of the remaining Simmonsville Road sidewalks and lighting is to be completed in FY 2023.

3. New River Linear Trail

- Conceptual Master Plan is complete.
- Executed PO with Barrier Island Engineering for Phase 1 Engineering Design.
- Submitted PRT application for a restroom facility, water source and lighting at the New River Trail Park. Submitted request to Bill Herbkersman to solicit support from the Beaufort County Delegation.
- Received easement donation from New Riverside Community Association, Inc.
- Submitted plans to Santee Cooper for cursory review and cost share for bridge replacements.
- Received \$26,000 PARD grant award.

- <u>Next Steps</u>
 - Continue engineering design for Phase 1 pathway (New River to Hwy 46).
 - Easement Donation from New Riverside Community Association, Inc. approved at 3/14/23 Town Council.
 - PRT Grant to be awarded in May 2023.

SEWER & STORMWATER

1. Buck Island-Simmonsville Sewer (Phases 5A-D)

- Construction was halted on Phases 5A-D by BJWSA due to the contractor underperforming their job duties.
- Received permits to construct from DHEC.
- Posted a solicitation to construct and only received one response. The solicitation was reposted per Dept. of Commerce due to grant funding.
- <u>Next Steps</u>
 - Re-bid period ends 4/17/2023.
 - Start construction late summer 2023.

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

- Received SCDHEC permit to construct for original scope.
- No contractors responded to the first construction solicitation.
- Received Quit Claim Deeds from all the property owners along the ghost road.
- Obtained road ownership from SCDOT.
- Contract was awarded to Jordan Construction of Hilton Head, Inc. 3/14/2023.
- <u>Next Steps</u>
 - Start house connections once construction is complete and Permit to Operate is issued by DHEC.

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

- Received initial design for Phases 4, 5, & 6 from the engineer.
- <u>Next Step</u>
 - Incorporate any Phases 4, 5, & 6 design changes to drawings and submit to BJWSA for review and permitting.
 - Obtain Quit Claim Deeds from all the property owners along the ghost roads or initiate condemnation process in April 2023.

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

- Initial site investigations are complete for 9 of the 11 participating project partners.
- Palmetto Pointe Towns and Lowcountry Community Church declined to participate in the Program at this time.
- Policy document for Impervious Restoration Program under formulation.
- Geotechnical investigations at 6 school sites complete and field results under analysis for use in development of Preliminary Design. Geotechnical investigations for the 3 remaining sites are being coordinated.
- Next Steps
 - Proceed with geotechnical evaluations at the 3 remaining site locations. Begin preliminary site design.
 - Preliminary Design development utilizing geotechnical investigation information.
 - Policy Document DRAFT is being updated based on comments provided.

5. Buck Island Drainage Improvements

- A contract was executed on 11/18/22.
- Construction is substantially complete.
- 10" water main relocation/lowering performed on 2/15/23.
- <u>Next Steps</u>
 - SCDOT final inspection approval, As-Built submittal review/approval, completion of punch list items, project close-out by 4/30/23.

HISTORIC DISTRICT IMPROVEMENTS

1. Boundary Street Lighting

- Phase 2 photometric plans, encroachment permits, and lighting agreements are complete and approved.
- SCDOT and Dominion indicated poles must be installed on private property due to conflicts with sewer force main and communication utilities within the right of way. Easements must now be obtained to install Phase 2 lighting.
- <u>Next Steps</u>
 - Install streetlights on the west side of the street in FY 2023. Coordinate conduit and light installation for the east side of the street in conjunction with larger streetscape project.
 - Obtain easements as needed for Phase 2 street lighting.

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.
- Selective demolition and dismantling continue, removal of windows, structural framing and stabilization.
- <u>Next Steps</u>
 - Concrete foundation is complete and brick piers are under construction.

3. Bridge Street Streetscape

- Issued Notice to Proceed for Phase I construction to start 12/5/22.
- Obtained survey proposal for Phase II streetscape project.
- Engaged Barrier Island for Phase II design.
- Obtained easement from Cunningham LLC for sidewalk connections.
- Submitted plan revision to SCDOT for sidewalk from Boundary to Pritchard.
- <u>Next Steps</u>
 - Continue construction of Phase I and complete in Summer 2023.
 - Drainage 100%, parking 50%, Sidewalks 95%, IT conduit and pull boxes 50%, lighting 5%.
 - o Obtain easement from Cunningham LLC for sidewalk connections.
 - Continue coordination of irrigation tie-in with property owners.
 - Meet with Bluffton Electric for plan to installation additional power from Calhoun to Boundary.

4. Boundary Street Streetscape

- Engineering Design is 70% complete and submitted to Watershed for stormwater for initial review.
- Town Council approved a contract amendment on 2/14/23 to complete engineering design and permitting.

<u>Next Steps</u>

- Continuing with Engineering Design and Permitting.
- Obtain easement exhibits and begin appraisals in FY 2023.
- Bid construction in FY 2024.

5. Calhoun Street Streetscape

• Surveying is complete and preliminary engineering design is 40% complete.

<u>Next Steps</u>

- Continue engineering design into FY 2023.
- Prepare easement acquisition plats for Phase 1 in June 2023.
- Begin easement acquisition in FY 2024.
- Phased construction is planned to begin in FY 2025 pending budget approval.

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 January.
- Submitted US DOT RAISE grant application for planning and design of bike and pedestrian safety improvements in Historic District, Goethe/Shults and Buck Island/Simmonsville neighborhoods for implementation in a phased approach.
- <u>Next Steps</u>
 - Phase 2 design proposal under review.
 - Pending US DOT RAISE grant award in June 2023.

7. Historic District Comprehensive Drainage Plan Improvements

- Asset inventory and condition assessment complete.
- 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 area of inundation/choke points complete.
- <u>Next Steps</u>
 - Establish maintenance and CIP project needs list and Master Planning report to reduce risk of flooding.

8. Pritchard Street Drainage Improvements

- Cranston Engineering is proceeding with 100% design development based on 70% review comments and meeting discussions.
- Project scope has increased to include streetscape elements, pedestrian connectivity, street lighting and traffic calming evaluation.
- Barrier Island Engineering completed a 3rd party evaluation of drainage claims and complaints associated with 40 Pritchard Street. The concept plan of potential onsite drainage improvements that can be performed by the homeowner to reduce the risk of flooding for his property has been delivered.

<u>Next Steps</u>

- Coordinate approval for proposed improvements with Beaufort County School District.
- Complete 100% design submission, permitting submissions and bid document formulation.

PARK DEVELOPMENT

1. Oyster Factory Park

- Executed contract with JS Construction for parking expansion.
- Executed Task Authorization with Witmer, Jones, Keefer for design of the event area.
- Construction of the parking area began in March 2023.
- Design of Phase 3 signage for Garvin/Garvey house completed.

<u>Next Steps</u>

- Continue construction of the parking lot.
- Begin design of Oyster Factory Park cookout area in FY 2023.

2. Oscar Frazier Park

- Began design of FY 2023 improvements including hardscape near the Rotary Center, sport courts, and splash pad.
- Submitted conceptual plans at Quarterly Workshop and obtained Town Council input. Sent questionnaire for sport court alternatives to Bluffton Park HOA for review and selection of preferred option.
- <u>Next Steps</u>
 - Obtain TC approval of construction contract for the Rotary Center hardscape plans and execute contract in May 2023.
 - Hardscape construction to begin in June.

- Receive Town Council direction on sport courts at April Quarterly Workshop.
- Complete design of splash pad and sport courts in FY 2023.

3. New Riverside Barn/Park

- Construction documents for the restroom building are complete.
- Architectural design services for the Barn additions are 90% complete.
- Design of the playground area is 50% complete.
- JS Construction started phase 1 site construction on 1/27/2023.
- Selected Nix Construction to provide Construction Manager at Risk Services for Phase 2 and 3.

<u>Next Steps</u>

- Complete the architectural design of barn addition.
- Continue design of playground area in FY 2023.
- Continue construction of Phase 1 Site Development Infrastructure.
- Execute a Construction Manager at Risk contract with Nix Construction.

4. Miscellaneous Park Improvements

- Presented proposed DuBois Park playground improvements at the October Workshop and TC requested staff to explore alternative playground equipment.
- <u>Next Steps</u>
 - Continue with the design of DuBois Park playground improvements and present at the April TC Workshop.

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. Town of Bluffton Housing Projects

- <u>Next Steps</u>
 - Provide financial assistance to joint venture partner for planning, design and permitting of Affordable/Workforce Housing at 1095 May River Road.

2. Law Enforcement Center Facility Improvements

- Initial scope of work of the parking/service yard, and covered sheds are complete.
- Clearing for the challenge course is complete.
- Reflection Plaza construction, signage and dedication ceremony are completed.
- <u>Next Steps</u>
 - Complete construction with The Greenery for the challenge course and expanded area for an impound lot and storage of Public Service maintenance equipment.

3. Sarah Riley Hooks Cottage

- Obtained conceptual master plan concepts from JK Tiller and reviewed with Executive Staff.
- Prepared questionnaire and obtained stakeholder input for use of the property and cottage.
- Selected Meadors Inc to provide a Structural Assessment Report to determine the feasibility of preservation or re-construction of the cottage.

<u>Next Steps</u>

- Present Conceptual Master Plan and Structural Assessment to TC for review at the April Workshop.
- Complete Conceptual Master Planning in FY 23.
- Obtain proposal for construction documents of the Cottage preservation or reconstruction. Construction to be determined based on FY 24 budget approval.

4. Ghost Roads

- Surveying and easement exhibits are complete.
- Bridge Street Quit Claim Deeds are complete. Pritchard and Colcock Streets Quit Claim Deeds are 95% 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.
- <u>Next Steps</u>
 - Obtain remaining Quit Claim Deeds for Historic District Sewer Phases 4-6 or initiate condemnation proceedings.

5. Document Management

- RFP contract was awarded in March 2022.
- Electronic Document Management system is live.
- Documents for 5 departments have been transitioned to DMS.
- Next Steps:
 - Historical documents for the remaining 9 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.
- <u>Next Steps</u>:
 - Replacing two more VMWare hosts.
 - Implementation of Executime to replace Intime.

WATERSHED MANAGEMENT

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.
- Completed DRAFT RIA SCIPP application in support of Stoney Creek/Palmetto Bluff Sewer Extension with BJWSA and Beaufort County. Obtained letters from governmental agencies and stakeholders in support of the application.
- Met with partners to address BJWSA IGA concerns on 3/2/23. A draft 3-party Intergovernmental Agreement is being updated by Director of Procurement.

<u>Next Steps</u>

- Await notification of grant application. Anticipated in late April/early May 2023.
- $\circ~$ BJWSA to procure design engineer through existing MSAs.
- 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 has procured SonTek IQ telemetry stations and are coordinating installation of the equipment.
 - Staff deployed a HOBO-U20 water level logger at the Calhoun Street dock to collect tidal elevation data and staff intends to continue data collection at this location.

4. Municipal Separate Storm Sewer System (MS4) Program Update

- Staff have completed a draft of the MS4 Annual Report as required by SCDHEC.
- 5. MS4 Minimum Control Measure (MCM) #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement
 - The 03/23/23 May River Watershed Action Plan Advisory Committee (WAPAC) was cancelled. The next scheduled meeting is 04/27/23. *Attachment 3*
 - Staff presented to River Ridge elementary students for Career Day on 3/10/23.
 - Staff continues to coordinate and secure partnerships for the May River Cleanup that will take place 5/06/23.

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 conducted sampling 02/07/23 and 03/14/23. The human genetic marker was detected at three (3) SCDHEC Shellfish Harvesting Stations in the May River. Staff

notified all pertinent parties of these water quality sampling results via email. March water quality sampling results are 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)
 - Staff attended the South Carolina Association of Stormwater Managers (SCASM) quarterly meeting on 03/02/23.

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. 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 Project Schedules
- * Attachment noted above includes the latest updates in red.

SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date May River Headwaters Shellfish Stations

		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		79.0	26.0	46.0		31.0	13.0	13.0		21.0	23.0	23.0		33.0	23.0	11.0		79.0	17.0	14.0	
September	110.0	33.0	540.0		49.0	11.0	350.0		49.0	17.0	350.0		33.0	13.0	170.0		33.0	2.0	79.0		33.0	11.0	33.0	
August	49.0	49.0	23.0		49.0	49.0	23.0		23.0	23.0	11.0		23.0	49.0	13.0		17.0	14.0	17.0		22.0	14.0	11.0	
July	33.0	350.0	920.0		13.0	64.0	49.0		23.0	79.0	95.0		7.8	33.0	130.0		7.8	33.0	23.0		17.0	13.0	46.0	
June	NS	49.0	13.0		NS	79.0	4.5		NS	13.0	11.0		NS	17.0	2.0		NS	22.0	1.8		NS	2.0	9.3	
Мау	70.0	2.0	4.5		49.0	49.0	4.5		23.0	23.0	4.0		22.0	23.0	1.8		6.8	23.0	1.8		4.5	7.8	2.0	
April	33.0	33.0	4.5		33.0	23.0	4.5		13.0	22.0	1.8		6.8	17.0	2.0		13.0	7.8	1.8		13.0	2.0	1.8	
March	170.0	33.0	33.0		49.0	11.0	23.0		130.0	17.0	2.0		49.0	13.0	4.5		70.0	2.0	2.0		33.0	2.0	2.0	
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	30.0	16.0	18.0	18.0	17.0	12.0	15.0	14.0	16.0	10.0	10.0	9.0	9.0	9.0	8.0	9.0	7.0
** Truncated 90th Percentile	106.0	139.0	192.0	249.0	59.0	69.0	91.0	122.0	50.0	58.0	72.0	86.0	37.0	39.0	54.0	82.0	31.0	35.0	41.0	42.0	35.0	33.0	32.0	26.0

NS = No Sample

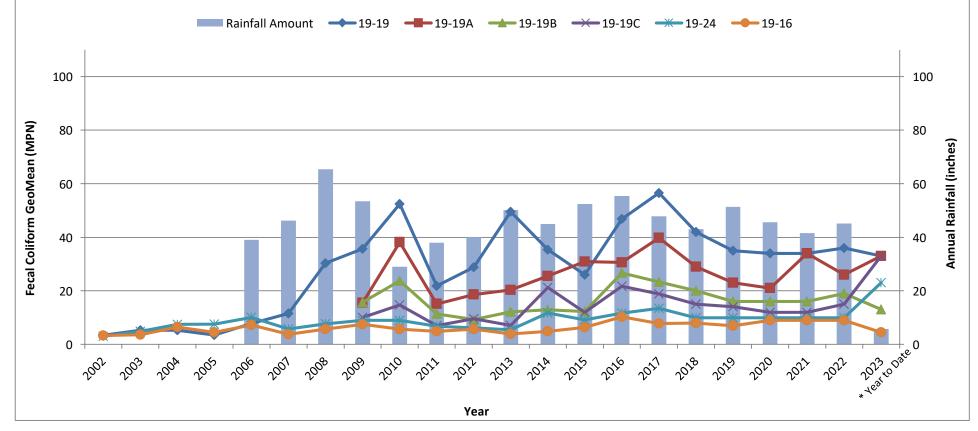
SCDHEC Regulatory Requirements:

Geometric Mean ≤ 14

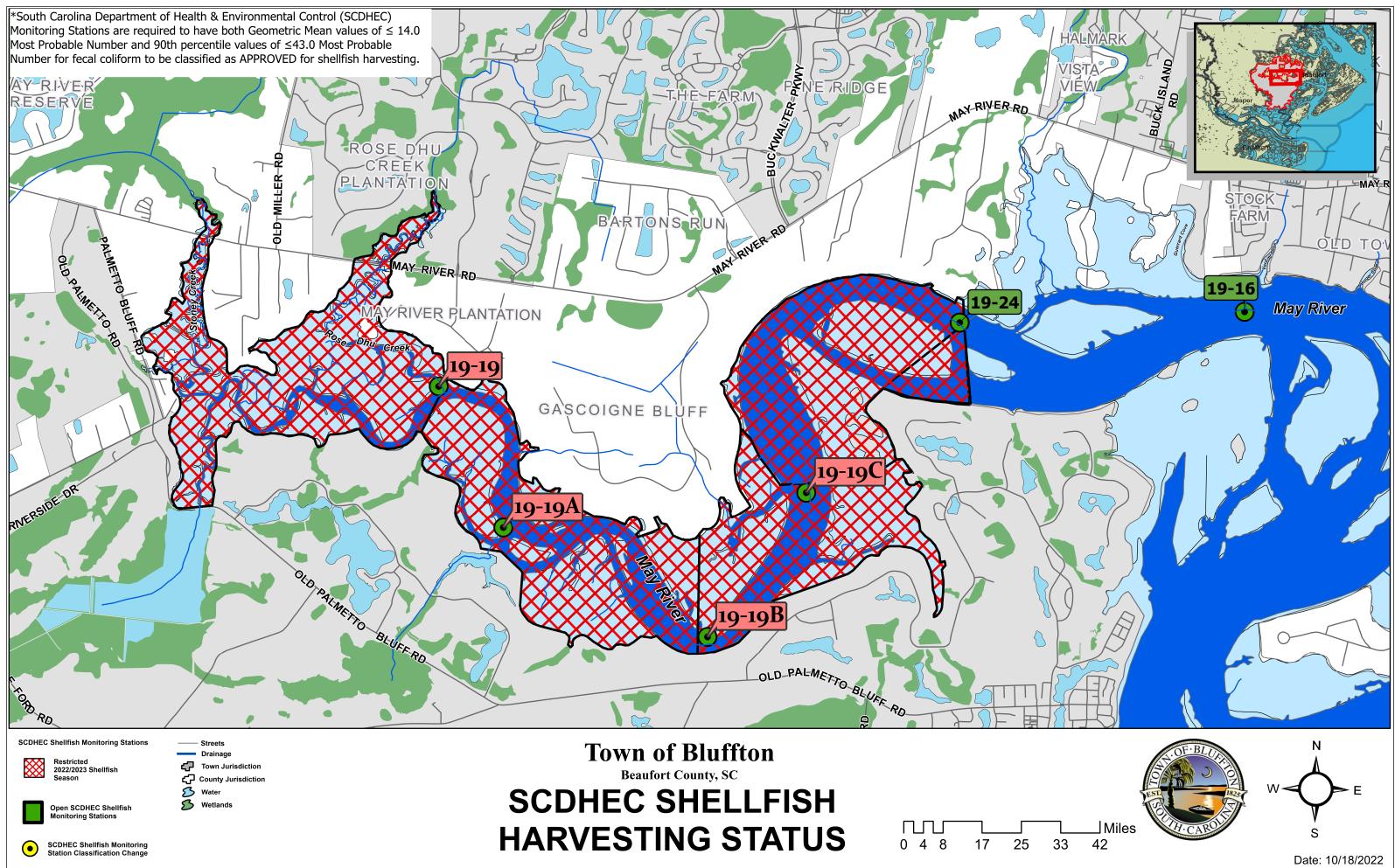
90th Percentile \leq 43

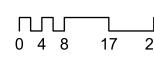
** Town staff calculations utilizing SCDHEC statistics

SCDHEC May River Headwaters Shellfish Stations Average Annual Fecal Coliform



Attachment 1 SCDHEC Shellfish Monitoring YTD





Attachment 1a

WAPAC Meeting Presentation May River Watershed Action Plan Update & Modeling Report Overview and Status August 25, 2022 Updated February 23, 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 3.46x10¹³ FC per year.
- The estimated septic to sewer conversion costs of these projects is \$5.5 million.

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 and a letter to BJWSA will be developed and sent to BJWSA regarding project funding, capital outlay and schedule for implementation.

Update for WAPAC February 23, 2023 Meeting:

The Town, Beaufort County and BJWSA continue to work on details to draft a proposed Inter-Governmental Agreement (IGA) to be presented to each respective approving authority for review, finalization, and approval. It is anticipated that this process is months away from final approval/adoption of the respective parties.

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
 - 2.99×10¹⁴ FC reduction for the Full SWRv (entire sub-basin drainage area catchment).
 - 2.53×10¹⁴ 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 February 23, 2023 Meeting:

• Drafted a detailed scope of work for Engineering Consultant Firm review and cost proposal (Expression of Interest) regarding performance of the following work elements related to MRWAP Update recommendations for implementation:

Task 1 : MRWAP Update 11 site locations

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

Yellow highlight indicates geotechnical evaluations complete.

- Bluffton Early Learning Center (BELC). Participating in preliminary design development phase.
- Boys and Girls Club of Bluffton (BGC). Participating in preliminary design development phase.
- Benton House (BH). Participating in preliminary design development phase.
- Bluffton High School (BHS). Participating in preliminary design development phase.
- Buckwalter Recreation Center (BRC). Participating in preliminary design development phase.
- Lowcountry Community Church (LCC). Declined to Participate.
- McCracken Middle School/Bluffton Elementary School (MMSBES). Participating in preliminary design development phase.
- May River High School. Participating in preliminary design development phase.
- One Hampton Lake Apartments (OHLA). Participating in preliminary design development phase.
- Pritchardville Elementary School (PES). Participating in preliminary design development phase.
- 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 4 participating partner sites are being schedule based on recent property owner participation status being known/confirmed.
- 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.
 - Developpe 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.
 - 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 February 23, 2023 Meeting:

Desktop analysis and field work performed to develop a list of 45 sites that potentially meet the criteria above. This list of potential sites is under review/evaluation.

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.

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

- 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 and the Consulting Firm of Goodwyn, Mills and Cawood selected.
 - 1. Phase I of this work is in process under existing FY 22 funding from Watershed Management Division.
 - 2. Phase II of this work will be presented for Town Council review and approval in the August Town Council Meeting and FY23 funding.

Update for WAPAC February 23, 2023 Meeting:

Phase II work was approved by Town Council and work has been initiated and reported herein.

- Phase I work completed by Consultant and Town:
 - 1. Review of recommendations of the MRWAP Update.
 - 2. On-site evaluations at each proposed site.
 - 3. Meetings with Beaufort County School District.
 - 6 of the 11 sites are located on School property. The School District is deemed an important project partner and as such several meeting have been help to discuss the program and need for project BMPs to improve water quality. The School District has granted permission for us to perform initial site investigations, provided site specific plan information, future development plans on each site and expressed a willingness to participate in the Program.
 - Drafted a Letter to Non-School Property Owners describing the Impervious Restoration Program goals and objectives and requesting a meeting to discuss and gain support.
 - 4. Policy Document Formulation has been initiated and includes research of similar Programs Nationwide.

Update for WAPAC February 23, 2023 Meeting:

2 *DRAFT* Policy Documents have been submitted for review and comment. Comments are being evaluated and addressed by consultant and an update *DRAFT* Policy Document is expected by April 2023.

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.
 <u>Update for WAPAC February 23, 2023 Meeting</u> Construction was initiated by JS Construction in early December 2022. Construction considered 65% complete.
- 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.
 - Submitted Section 319 Grant proposal to DHEC to cost-share cost of construction of proposed BMPs. Pre-proposal was accepted, and Full Proposal was requested by DHEC. Under Review.

Update for WAPAC February 23, 2023 Meeting

- 70% design plan submitted, reviewed and comments presented to consultant.
- 319 Grant was awarded by DHEC to the Town.
- 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.
 - **Update for WAPAC February 23, 2023 Meeting** 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.
- 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.
 - **Update for WAPAC February 23, 2023 Meeting** Staff is collecting intermittent flow data at SonTek IQ sites in conjunction with grab FIB samples.
 - **Update for WAPAC February 23, 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.

Update for WAPAC February 23, 2023 Meeting

- 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.
 - Final report identifying recommended strategies to gain required data is in process.
 - Potential purchase of telemetry stations to equip continuous flow monitoring stations with real-time data access.

Update for WAPAC February 23, 2023 Meeting

 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.



PUBLIC NOTICE

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

Thursday, March 23, 2023, at 3:00 P.M.

has been

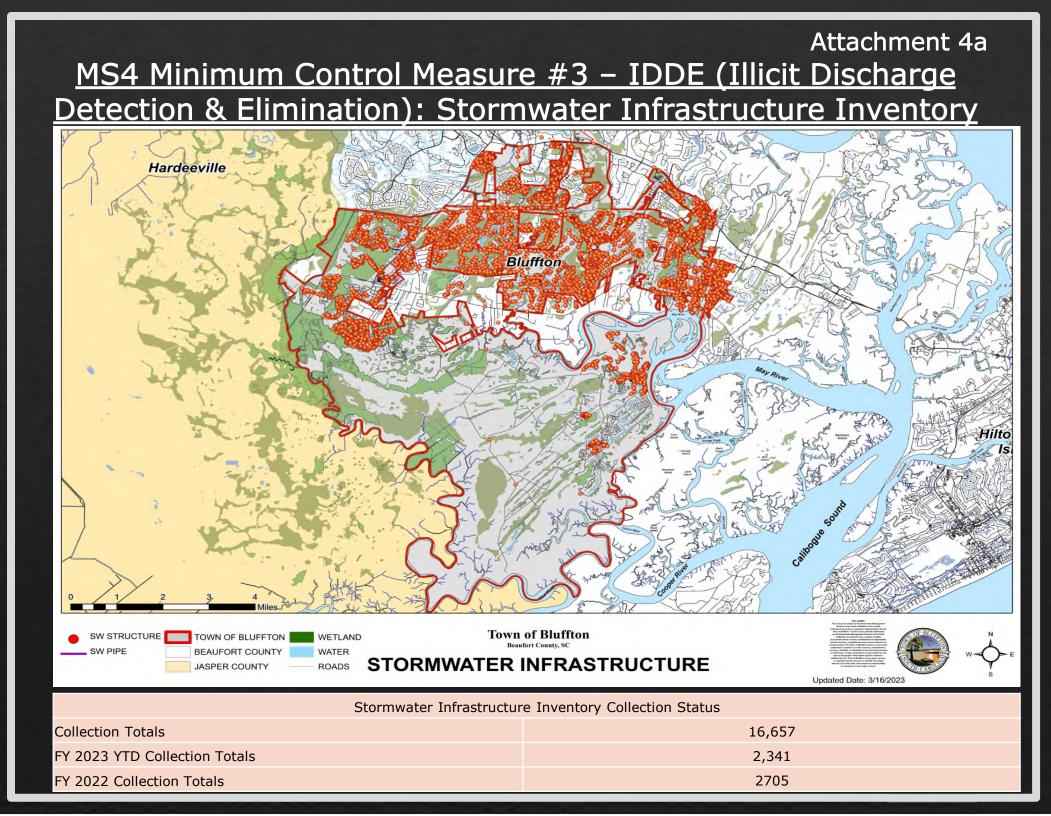
CANCELLED

due to lack of quorum.

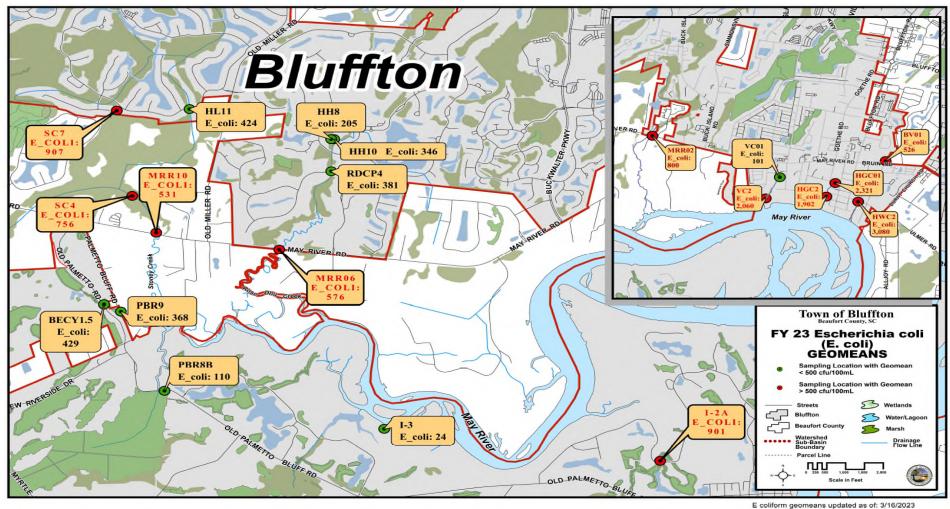
The next meeting is scheduled for

Thursday, April 27, 2023

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



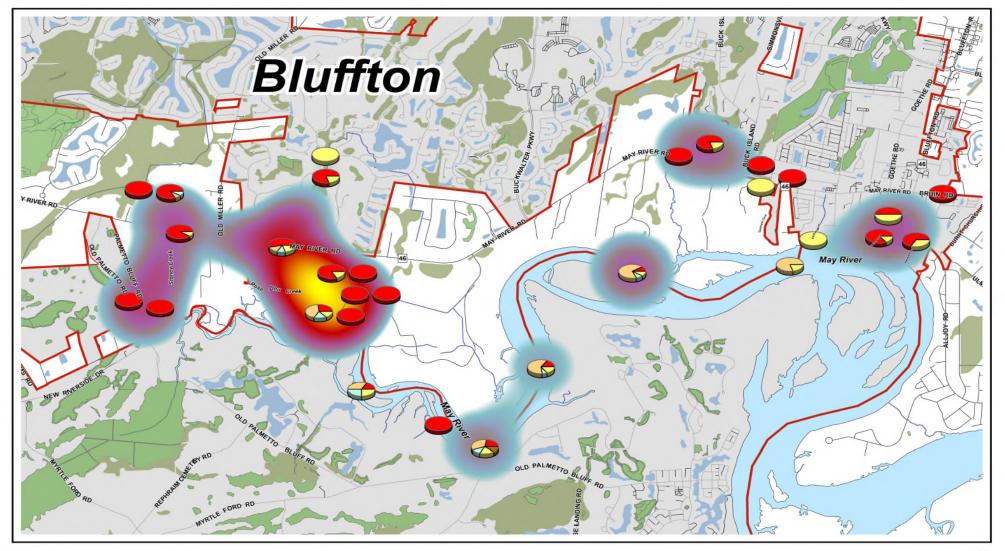
Attachment 4b <u>MS4 Minimum Control Measure #3 – IDDE:</u> <u>E. coli Concentrations Trend Map</u>



	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2023 YTD Totals	430	78	72
FY 2022 Totals	447	78	119
FY 2021 Totals	380	115	179

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

Attachment 4c <u>MS4 Minimum Control Measure #3 – IDDE:</u> <u>Microbial Source Tracking (MST) Trend Map</u>



MSTSamplingResults MST Sampling Sites

Intensity of samples

MICROBIAL SOURCE TRACKING (MST) LOCATIONS

Human Bird Deer Dog Horse

Representative of Low Sampling Distribution

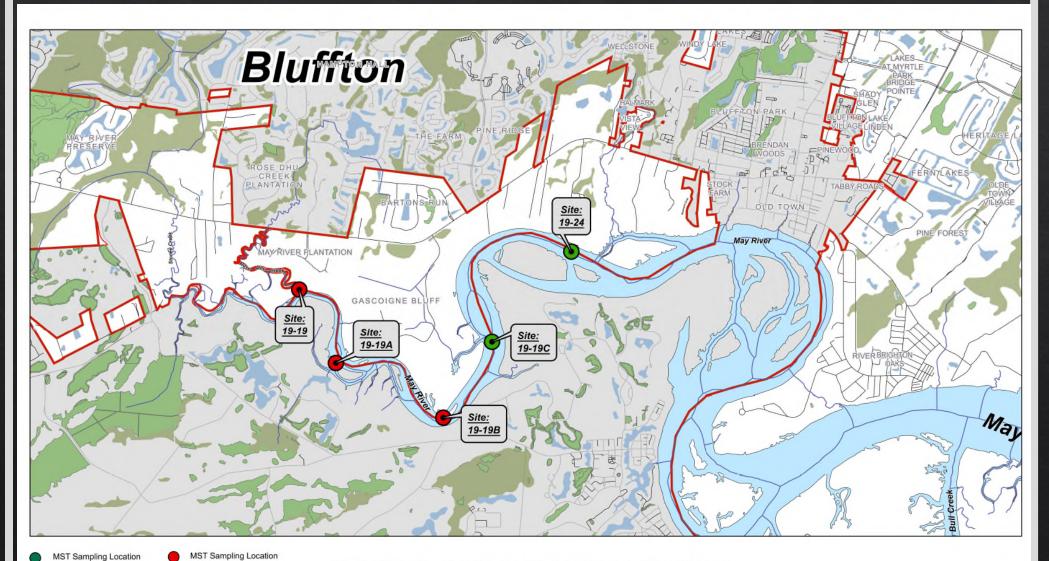
Representative of High Sampling Distribution

Samples at Sites With Positive Detection and the Intensity of Positive Hits Town Jurisdiction Beaufort County Drainage Flow Lines

Town of Bluffton Beaufort County, SC

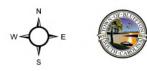
Updated Date: 3/16/2023

Attachment 4d <u>MS4 Minimum Control Measure #3 – IDDE:</u> <u>Microbial Source Tracking (MST) Map – Human Sources</u>



MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results February 2023



County Jurisdiction

Flowline

Street

Without Detection

With Detection

Town of Bluffton Beaufort County, SC

Attachment 4e

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

Number of Illicit Discharge Investigations

30

36

3

1

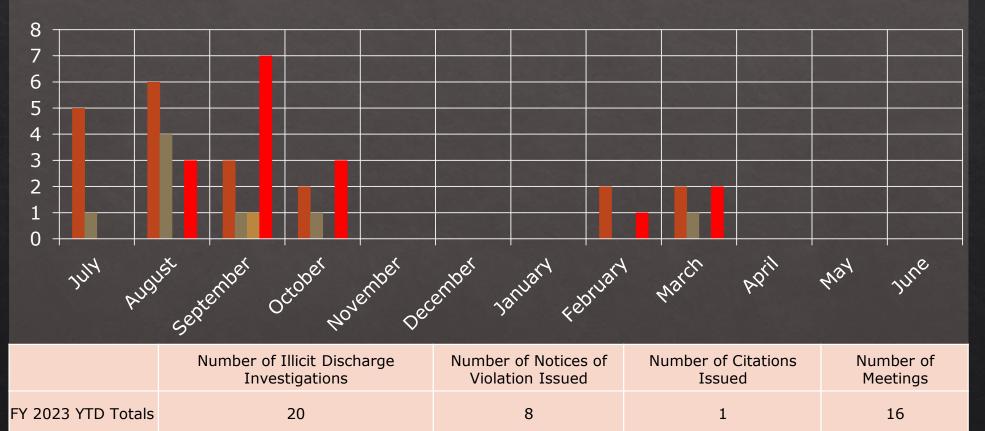
Number of Citations Issued

FY 2022

Totals FY 2021

Totals

Number of Meetings



5

11

17

29

Attachment 5

<u>MS4 Minimum Control Measure #4 -</u> <u>Construction Site Stormwater Runoff Control</u>

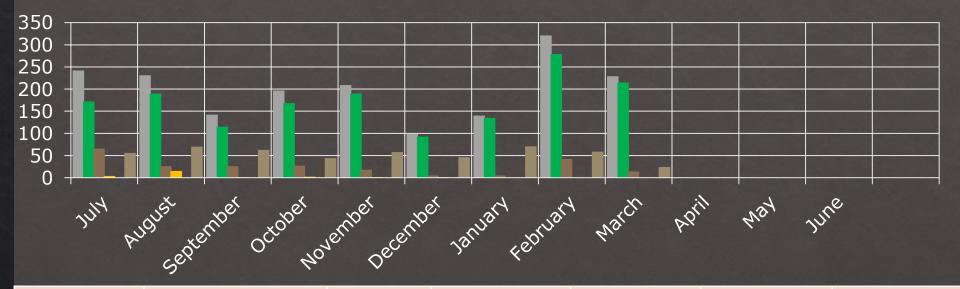
Erosion & Sediment Control Inspections (E&SC)

Number of Notice of Violation (NOV)

- Number of Inspections Passed
- Number of Stop Work Orders (SWO)

Number of Citations Issued

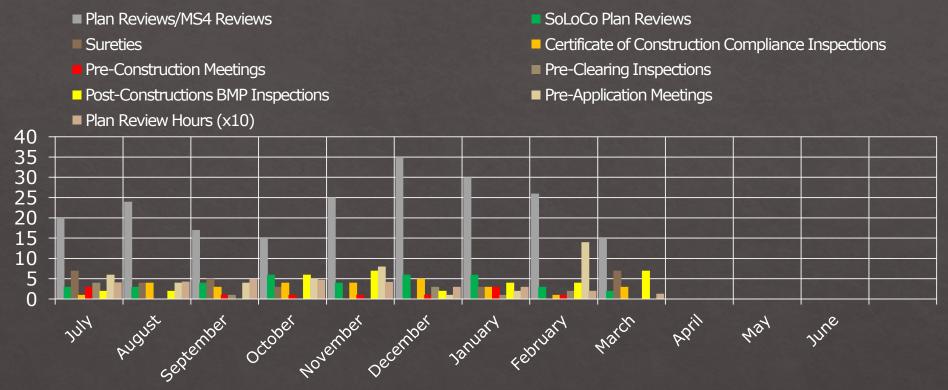
Number of Erosion & Sediment Control Meetings



	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOVs Issued	Number of SWO Issued	Number of Citations Issued	Number of E&SC Meetings
FY 23 YTD Totals	1810	1557	229	24	0	491
FY 2022 Totals	3127	2701	392	49	0	673
FY 2021 Totals	1,805	1,527	267	32	4	413

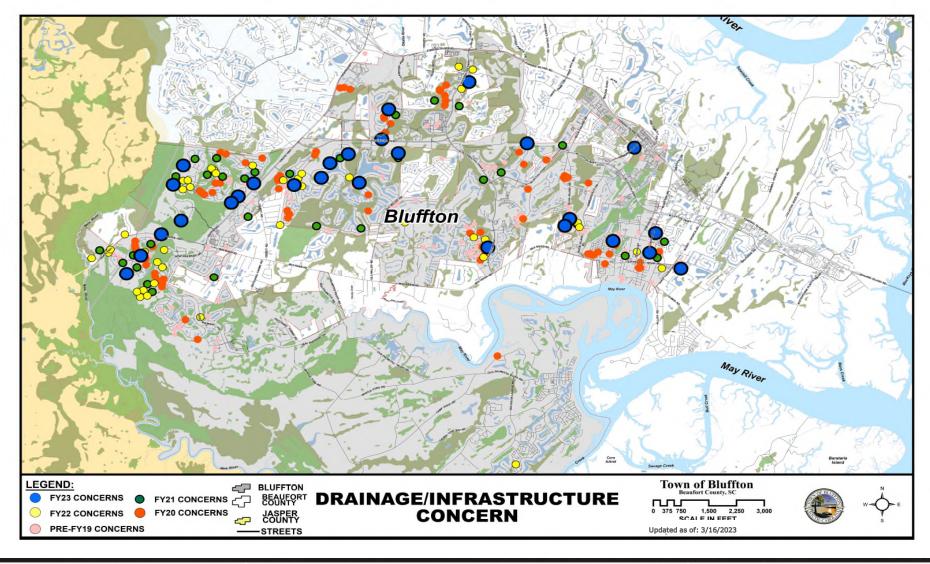
Attachment 6

<u>MS4 Minimum Control Measure #5</u> <u>Stormwater Plan Review & Related Activity</u>



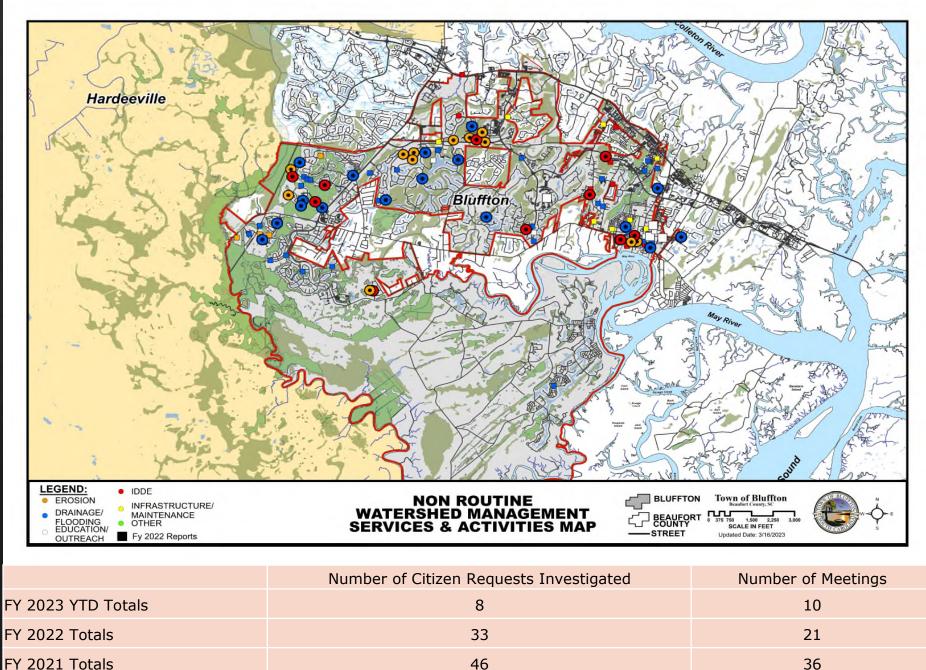
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre- Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2023 YTD	207	37	29	28	11	11	34	44	315 Hrs.
FY 2022 Totals	231	13	42	26	30	23	44	26	454 Hrs.
FY 2021 Totals	186	0	61	55	24	24	22	41	789 Hrs.

Attachment 7 <u>Citizen Drainage, Maintenance and Inspections Concerns Map</u>



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2023 YTD Totals	52	44
FY 2022 Totals	38	34
FY 2021 Totals	45	39

Attachment 8 Citizen Request for Watershed Mngt. Services & Activities Map



FY 2021 Totals

				ARY STREET LIGHTING POSED SCHEDULE
Task Name	Duration	Start	Finish	2020 Jun Jul AugSepOctNovDec Jan FebMarAprMayJun Jul AugSepOctNovDec Jan FebMarAprI
BOUNDARY STREET LIGHTING PHASE 2	901 days	Mon 7/8/19	Mon 12/19/22	
Planning and Conceptual Design	697 days	Mon 7/8/19	Tue 3/8/22	
Permitting	90 days	Mon 1/20/20	Fri 5/22/20	
Easements and Land Acquisition	369 days	Tue 6/1/21	Fri 10/28/22	
Construction	31 days	Mon 11/7/22	Mon 12/19/22	
	BOUNDARY STREET LIGHTING PHASE 2 Planning and Conceptual Design Permitting Easements and Land Acquisition	BOUNDARY STREET LIGHTING PHASE 2 901 days Planning and Conceptual Design 697 days Permitting 90 days Easements and Land Acquisition 369 days	BOUNDARY STREET LIGHTING PHASE 2901 daysMon 7/8/19Planning and Conceptual Design697 daysMon 7/8/19Permitting90 daysMon 1/20/20Easements and Land Acquisition369 daysTue 6/1/21	PRC Task Name Duration Start Finish BOUNDARY STREET LIGHTING PHASE 2 901 days Mon 7/8/19 Mon 12/19/22 Planning and Conceptual Design 697 days Mon 7/8/19 Tue 3/8/22 Permitting 90 days Mon 1/20/20 Fri 5/22/20 Easements and Land Acquisition 369 days Tue 6/1/21 Fri 10/28/22

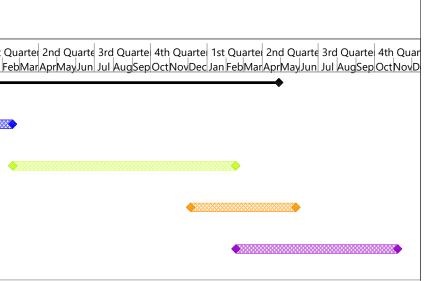
Project: 00069	Milestone	•	Project Duration	←	Permitting	Со
Date: Thu 7/7/22	Critical Task	*	Planning and Conceptual Design		Easements and Land Acquisition	
	Task		Final Design and Construction Document	s 🔶	Bidding and Contract	
				Page 1		

	bMarAprMayJun Jul AugSepOctNovDec
orMayJun Jul AugSep OctNovDec Jan Fe	bMar AprMayJun Jul AugSep OctNov Dec
Construction	

BOUNDARY STREET STREETSCAPE PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessors	Finish	Quarte 4th Quarte 1st Quarte 2nd Quarte 3rd Quarte 4th Quarte 1st Qu AugSepOctNovDec Jan FebMarAprMayJun Jul AugSepOctNovDec Jan Fel
1	BOUNDARY STREET STREETSCAPE	689 days	Mon 9/7/20		Thu 4/27/23	•
2	Planning and Conceptual Design	379 days	Mon 9/7/20		Thu 2/17/22	
14	Final Planning and Construction Documents	260 days	Fri 2/18/22		Thu 2/16/23	
20	Permitting Phase	150 days	Fri 10/28/22		Thu 5/25/23	
25	Easements and Land Acquisition	268 days	Fri 10/28/22		Tue 11/7/23	

Ducing the OOOOA	Baseline Milestone	\diamond	Task		Permitting		Base
Project: 00094 Date: Tue 2/21/23	Baseline Summary		Project Duration	◆	Bidding and Contract		
	Milestone	♦	Planning and Conceptual Design		Easements and Land Acquisitions		
	Critical Task	*	Final Design and Construction Documents	;	Construction		
				Page 1			



eline

BRIDGE STREET STREETSCAPE PROPOSED SCHEDULE

I	ID	Task Name	Duration	Start	Finish	eptember October November December January February March April M
						9/4 9/18 10/2 10/16 10/30 11/13 11/27 12/11 12/25 1/8 1/22 2/5 2/19 3/5 3/19 4/2 4/16 4/2
	1	Bridge Street Streetscape	287 days	Tue 9/20/22	Wed 10/25/23	♦
	2	Construction	287 days	Tue 9/20/22	Wed 10/25/23	
-		1				

Project: 00082 Date: Tue 2/21/23	Milestone Critical Task	◆ ★	Project Duration Planning and Conceptual Design	<u>♦</u>	Permitting Easements and Land Acquisition	С
	Task		Final Design and Construction Documents		Bidding and Contracts	
				Page 1		

May June 4/30 5/14 5/28 6,	July /11 6/25 7/9	August 7/23 8/6 8/2	September 20 9/3 9/17	October 10/1 10/15 1
				•

Construction

BUCK ISLAND ROAD DRAINAGE IMPROVEMENTS PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Ist Quarter 2nd Quarter 3rd Quarter 4th Quarter 1st Quarter Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Ist Quarter
1	00100 Buck Island Rd Drainage Improvements	708 days	Wed 7/1/20	Fri 3/17/23	★
2	Buck Island Rd Design and Construction Documents	218 days	Mon 1/4/21	Wed 11/3/21	
4	Buck Island Bidding and Contracts	273 days	Thu 11/4/21	Mon 11/21/22	
10	Buck Island Construction	84 days	Tue 11/22/22	Fri 3/17/23	

Project: 00100	Milestone	•	Project Duration		Permitting	•	Cons
Date: Tue 2/21/23	Critical Task	*	Planning and Conceptual Design		Bidding and Contract		
	Task		Final Design and Construction Documents	5	Easements and Land Acquisitions		
				Page 1			

	2nd C	Quarter		3rd Q	uarter			uarter		1st Qu		
Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar

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onstru	ction											

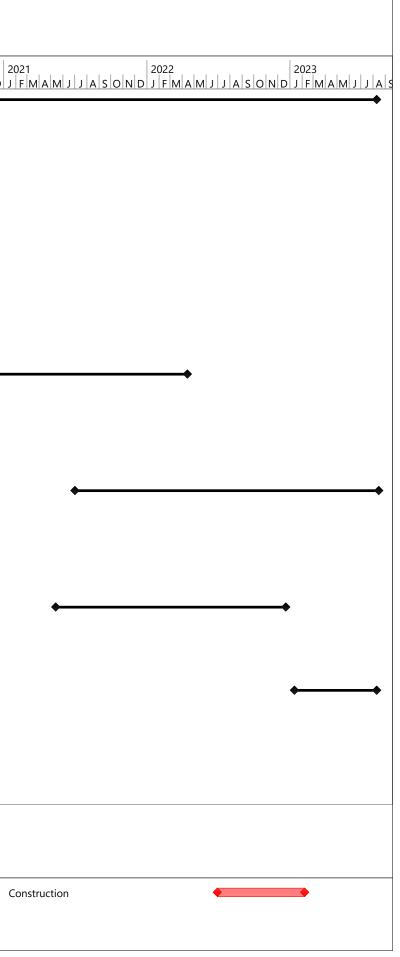
						BUCK ISLAND-SIMMONSVILLE SANITARY SEWER PHASE 5 A-D PROPOSED SCHEDULE
ID	Task Name	Duration	Start	Finish	Predecessors	2016 Qtr 1, 2017 Qtr 2, 2017 Qtr 3, 2017 Qtr 4, 2017 Qtr 4, 2017 Qtr 1, 2018 Qtr 2, 2018 Qtr 3, 2018 Qtr 4, 2018 Qtr 4, 2018 Qtr 4, 2019 Qtr 2, 2019 Qtr 2, 2019 Qtr 4, 2019 Qtr 4, 2019 Qtr 4, 2020 Qtr 4, 2020 Qtr 4, 2020 Qtr 4, 2020 Qtr 4, 2021 Qtr 2, 2021 Qtr 2, 2021 Qtr 2, 2021 Qtr 3, 2019 Qtr 2, 2021 Qtr 3, 2019 Qtr 4, 2018 Qtr 4, 2019 Qtr 4, 2010 Q
1	PHASE 5 A-D	1800 days?	Thu 12/1/16	Wed 10/25/23		
2	Planning and Conceptual Design	6 days	Thu 12/1/16	Thu 12/8/16		
4	Permitting	474 days	Fri 12/9/16	Wed 10/3/18		◆
11	Easements and Land Acquisition	642 days	Mon 4/3/17	Tue 9/17/19		◆
16	Bidding and Contracts	50 days	Wed 1/1/20	Tue 3/10/20		
21	Construction	808 days	Mon 9/21/20	Wed 10/25/23		
45						
46	_					

Project: 00044 Date: Thu 11/3/22	Milestone Critical Task	◆ ★	Task Project Duration	Planning and Conceptual Design Final Design and Construction Documents	◆ <u>· · · · · · · · · · · · · · · · · · ·</u>	5	Easements and Land Acquisitions Construction	 ▲ <u>************************************</u>
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Qtr 3, 2021 Jul Aug Sep	Qtr 4, 2021 Oct Nov Dec	Qtr 1, 2022 Jan Feb Mar	Qtr 2, 2022 Apr May Jun	Qtr 3, 2022 Jul Aug Sep	Qtr 4, 2022 Oct Nov Dec	Qtr 1, 2023 Jan Feb Mar	Qtr 2, 2023 Apr May Jun	Qtr 3, 2023 Jul Aug Sep	Qtr 4, 2023 Oct Nov E
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BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	2018 1 E M A M I I A S	2019 2 0 N D J F M A M J J A S O N D J	
1	SIDEWALKS AND LIGHTING	1440 days	Thu 2/1/18	Wed 8/9/23		•		
2	Sidewalk from Jennifer Ct to Simmonsville Ro	d 405 days	Thu 2/1/18	Wed 8/21/19		•		
26								
27	Sidewalk from Kitty Road to 301 Buck Island Rd	709 days	Thu 2/1/18	Tue 10/20/20		•		•
53								
54	Sidewalk from Grayco to Sugaree (Simmonsville Rd)	923 days	Mon 10/1/18	Wed 4/13/22		•		
80								
81	Sidewalk from Sugaree to Windy Lake (Simmonsville Rd)	553 days	Thu 7/1/21	Mon 8/14/23				
105								
106	Lighting - Kitty Road to 301 Buck Island Rd	419 days?	Thu 5/13/21	Tue 12/20/22				
114								
115	Lighting - Grayco to Windy Lakes	150 days	Thu 1/12/23	Wed 8/9/23				
116								
117								
	1	1		1				
-	ct: 00054 Milestone Thu 1/26/23 Critical Task Task		◆ ★	-	n onceptual Design d Construction Documents	← →	Permitting Bidding and Contract Easements and Land Acquisitions	



184 BLUFFTON ROAD PARKING IMPROVEMENTS PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessors	Finish	July October January 6/27 8/8 9/19 10/31 12/12 1/23 33
0	00098 Buckwalter Place Parking Improvements	363 days	Sun 8/1/21		Wed 12/21/22	•
1	Planning & Conceptual Design	81 days	Sun 8/1/21		Mon 11/22/21	
5	Final Design & Construction Documents	90 days	Tue 10/5/21		Mon 2/7/22	
8	Permitting	120 days	Tue 10/5/21		Mon 3/21/22	
11	Easements & Land Acquisition	21 days	Tue 10/5/21		Tue 11/2/21	
13	Bidding & Contracts	32 days	Mon 8/1/22		Tue 9/13/22	
18	Construction	71 days	Wed 9/14/22		Wed 12/21/22	

Project: 00064	Milestone	•	Project Duration		Permitting	
Date: Thu 7/7/22	Critical Task	*	Planning and Conceptual Design		Easements and Land Acquisition	
	Task		Final Design and Construction Documents	s 🔶	Bidding and Contracts	•

April 3/6 4	/17 5	July 5/29	7/10	8/21	October 10/2	11/13	January 12/25
						•	

Construction

CALHOUN STREET STREETSCAPE PROPOSED SCHEDULE

Task Name	Duration	Chart		
		Start	Finish	July 1 October 1 January 1 April 1 July 1 October 1 January 1 5/29 7/10 8/21 10/2 11/13 12/25 2/5 3/19 4/30 6/11 7/23 9/3 10/15 11/26 1/7 2/18
CALHOUN STREET STREETSCAPE	830 days	Mon 7/11/22	Fri 9/12/25	▲
Final Planning and Construction Documents	275 days	Mon 7/11/22	Fri 7/28/23	
Permitting Phase	115 days	Tue 2/14/23	Mon 7/24/23	
Easements and Land Acquisition	254 days	Wed 7/5/23	Mon 6/24/24	
Bidding - Phase 1	90 days	Mon 5/27/24	Fri 9/27/24	
Construction Phase 1	250 days	Mon 9/30/24	Fri 9/12/25	
	Final Planning and Construction Documents Permitting Phase Easements and Land Acquisition Bidding - Phase 1	Final Planning and Construction Documents275 daysPermitting Phase115 daysEasements and Land Acquisition254 daysBidding - Phase 190 days	Final Planning and Construction Documents275 daysMon 7/11/22Permitting Phase115 daysTue 2/14/23Easements and Land Acquisition254 daysWed 7/5/23Bidding - Phase 190 daysMon 5/27/24	Final Planning and Construction Documents275 daysMon 7/11/22Fri 7/28/23Permitting Phase115 daysTue 2/14/23Mon 7/24/23Easements and Land Acquisition254 daysWed 7/5/23Mon 6/24/24Bidding - Phase 190 daysMon 5/27/24Fri 9/27/24

Project: 00042 Date: Wed 2/15/23	Milestone Critical Task	*	Project Duration Planning and Conceptual Design	←	Permitting Bidding and Contract		Со
	Task		Final Design and Construction Documents	Page 1	Easements and Land Acquisitions	•	

April 1 July 1 October 1 January 1 April 1 July 1 I 8 3/31 5/12 6/23 8/4 9/15 10/27 12/8 1/19 3/2 4/13 5/25 7/6 8/17 9
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COMPREHENSIVE DRAINAGE PLAN IMPROVEMENTS PROPOSED SCHEDULE ID Task Name Duration Start Finish Qtr, 3, 2021 | Qtr, 4, 2021 | Qtr, 1, 2022 | Qtr, 2, 2022 | Qtr, 3, 2022 | Qtr, 4, 2022 | Qtr, 1, 2023 | Qtr, 2, 2023 | Qtr, 3, 2023 | Qtr, 4, 2023 | Qtr, 1, 2024 | Qtr, 2, 2024 | Qtr, 3, 204 | Qtr, 3 Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep 1 Comprehensive Drainage Plan Improvements 1391 days Thu 7/1/21 Thu 10/29/26 • 2 Planning 822 days Mon 8/2/21 Tue 9/24/24 13 566 days Mon 4/15/24 Mon 6/15/26 **Final Design and Construction Documents** 16 **Bidding and Contracts** 608 days Mon 7/1/24 Wed 10/28/26 19 Construction 354 days Mon 6/23/25 Thu 10/29/26

Project: 00099	Milestone	*	Task	Planning and Conceptual Design Permitting Final Design and Construction Documents Bidding and Contract
Date: Tue 2/21/23	Critical Task	*	Project Duration	
				Page 1

4 Qtr 4, 2024 Qtr 1, 2025 Qtr 2, 2025 Qtr 3, 2025 Qtr 4, 2025 Qtr 1, 2026 Qtr 2, 2026 Qtr 3, 2026 Qtr 4, 2025 Qtr 4, 2025 Qtr 1, 2026 Qtr 2, 2026 Qtr 3, 2026 Qtr 4, 2026 Qtr 4, 2026 Qtr 3, 2026 Qtr 4, 2026 Qtr

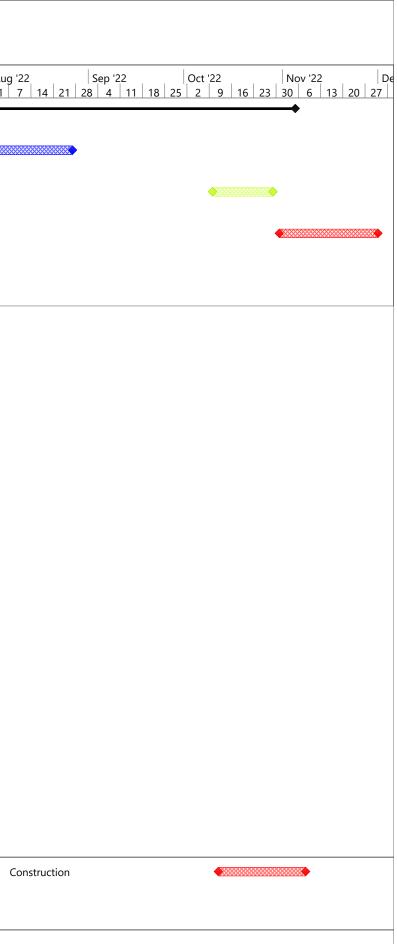


Easements and Land Acquisitions

GARVIN-GARVEY HOUSE INTERPRETIVE SIGNAGE PROPOSED SCHEDULE

D	Task Name	Duration	Start	Finish	Mar '22 Apr '22 May '22 Jun '22 Jul '22 20 27 6 13 20 27 3 10 17 24 1 8 15 22 29 5 12 19 26 3 10 17 24
1	GARVIN-GARVEY HOUSE INTERPRETIVE SIGN	AG 179 days	Tue 3/1/22	Fri 11/4/22	◆
2	Planning and Conceptual Design	125 days	Mon 3/7/22	Fri 8/26/22	
13	Final Design and Construction Documents	50 days	Mon 8/29/22	Fri 11/4/22	
15	Onsite Installation	23 days	Mon 10/31/22	Wed 11/30/22	2
16					

Project: 00081	Milestone	•	Project Duration	♦ ——— ♦	Permitting	Сс
Date: Mon 9/19/22	Critical Task	*	Planning and Conceptual Design		Easements and Land Acquisition	
	Task		Final Design and Construction Documents	•	Bidding and Contracts	
				Page 1		



					GHOST ROADS PROPOSED SCHEDULE
D	Task Name	Duration	Start	Finish	2020 2021
1	GHOST ROADS	765 days	Thu 9/12/19	Wed 8/17/22	Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Ap
2	Planning and Conceptual Design	765 days	Thu 9/12/19	Wed 8/17/22	
3	Preparation of Exhibit	113 days	Thu 9/12/19	Mon 2/17/20	
4	Owner Meetings	453 days	Mon 10/7/19	Wed 6/30/21	
5	Quit Claim Deed Execution	708 days	Mon 10/7/19	Wed 6/22/22	
6	All deeds	40 days	Thu 6/23/22	Wed 8/17/22	

Project: 00093 Date: Wed 11/23/22	Milestone Critical Task ★		Project Duration Planning and Conceptual Design	← →	Permitting Easements and Land Acquisition		
	Task		Final Design and Construction Documents		Bidding and Contracts		
				Page 1			

		2022	
Jul Aug Sep	Oct Nov Dec	Jan Feb Mar Ap	r May Jun Jul Aug S
			
Construction			

		GOETHE-SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2 PROPOSED SCHEDULE								
ID	Task Name	Duration	Start	Finish	1, 2018 Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 202 Mar May Jul Sep Nov Jan Mar May Jul Sep					
1	GOETHE/SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2	970 days	Mon 4/30/18	Fri 1/14/22	★					
2	PLANNING AND CONCEPTUAL DESIGN	326 days	Mon 4/30/18	Mon 7/29/19						
12	FINAL DESIGN AND CONSTRUCTION DOCUMENTS	209 days	Tue 7/30/19	Fri 5/15/20						
21	PERMITTING	128 days	Mon 5/18/20	Wed 11/11/20						
25	EASEMENTS AND LAND ACQUISITION	187 days	Mon 4/6/20	Tue 12/22/20						
32	BIDDING AND CONTRACTS	101 days	Tue 12/1/20	Tue 4/20/21						
37	CONSTRUCTION	468 days	Wed 4/21/21	Fri 2/3/23						

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Project: 00055	Miletstone	•	Project Duration	♦♦	Permitting	•
Date: Mon 9/19/22	Critical Task	*	Planning and Conceptual Design	•	Easements and Land Acquisition	
	Task		Final Design and Construction Documents		Bidding and Contracts	•

f 2, 2020	Half 1, 2021	Half 2	2, 2021	Half 1, 2022	Half 2, 2022	Hal
Sep Nov	Jan Mar I	May Jul	Sep Nov	∣ Jan Mar Mar	/ Jul Sep Nov	Jan
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HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 2 PROPOSED SCHEDULE

D	Task Name	Duration	Start	Finish	Predecessors	Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 2020 J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N
1	PHASE 2	1300 days	Mon 7/2/18	Fri 6/23/23		♦
2	Planning and Conceptual Design	185 days	Mon 7/2/18	Fri 3/15/19		
10	Final Design and Construction Documents	20 days	Mon 3/18/19	Fri 4/12/19		
12	Permitting	55 days	Mon 4/15/19	Fri 6/28/19		
15	Easements and Land Acquisition	550 days	Mon 7/1/19	Fri 8/6/21		
17	Redesign and Construction Documents	185 days	Mon 2/28/22	Fri 11/11/22		
22	Bidding and Contracts	87 days	Mon 11/14/22	Tue 3/14/23		
27	Construction	73 days	Wed 3/15/23	Fri 6/23/23		

Project: 00071 Date: Mon 2/20/23	Milestone Critical Task	◆ ★	Project Duration Planing and Conceptual Design	← → ↓	Permitting Easements and Land Acquisitions	
	Task		Final Design and Construction Documents	s 🔶	Bidding and Contracts	•
				Page 1		

20 Half 1, 2021 Half 2, 2021 Half NDJFMAMJJASONDJF	1, 2022 Half 2, 2022 Half 1, 2023 H MAMJJJASONDJFMAMJJ
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	•
Construction	••••••••••••••••••••••••••••••••••••••

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 3 PROPOSED SCHEDULE

Task Name	Duration	Start	Finish	2021 2022 Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar
PHASE 3	694 days	Mon 11/2/20	Thu 6/29/23	◆
Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21	
Final Design and Construction Documents	260 days	Tue 9/28/21	Mon 9/26/22	
Permitting	30 days	Tue 9/27/22	Mon 11/7/22	
Easements and Land Acquisition	105 days	Tue 9/21/21	Mon 2/14/22	
Bidding and Contracts	91 days	Tue 11/8/22	Tue 3/14/23	
Construction	77 days	Wed 3/15/23	Thu 6/29/23	
	PHASE 3 Planning and Conceptual Design Final Design and Construction Documents Permitting Easements and Land Acquisition Bidding and Contracts	PHASE 3694 daysPlanning and Conceptual Design236 daysFinal Design and Construction Documents260 daysPermitting30 daysEasements and Land Acquisition105 daysBidding and Contracts91 days	PHASE 3694 daysMon 11/2/20Planning and Conceptual Design236 daysMon 11/2/20Final Design and Construction Documents260 daysTue 9/28/21Permitting30 daysTue 9/27/22Easements and Land Acquisition105 daysTue 9/21/21Bidding and Contracts91 daysTue 11/8/22	PHASE 3694 daysMon 11/2/20Thu 6/29/23Planning and Conceptual Design236 daysMon 11/2/20Mon 9/27/21Final Design and Construction Documents260 daysTue 9/28/21Mon 9/26/22Permitting30 daysTue 9/27/22Mon 11/7/22Easements and Land Acquisition105 daysTue 9/21/21Mon 2/14/22Bidding and Contracts91 daysTue 11/8/22Tue 3/14/23

Project: 00072 Date: Mon 2/20/23	Milestone Critical Task	♦ ★	Project Duration Planing and Conceptual Design	★★	Permitting Easements and Land Acquisitions	•
	Task		Final Design and Construction Documents		Bidding and Contracts	
				Page 1		

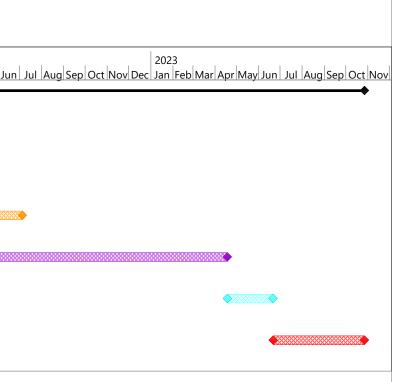


Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021 Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
1	PHASE 4	779 days	Mon 11/2/20	Thu 10/26/23	▲
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21	
9	Final Design and Construction Documents	160 days	Tue 9/28/21	Mon 5/9/22	
11	Permitting	40 days	Tue 5/10/22	Mon 7/4/22	
14	Easements and Land Acquisition	410 days	Tue 9/21/21	Mon 4/17/23	
17	Bidding and Contracts	46 days	Tue 4/18/23	Tue 6/20/23	
22	Construction	92 days	Wed 6/21/23	Thu 10/26/23	

Project: 00073 Date: Tue 2/21/23	Milestone Critical Task	★	Project Duration Planing and Conceptual Design	++ *	Permitting Easements and Land Acquisitions	
	Task		Final Design and Construction Documents	Page 1	Bidding and Contracts	•



Construction

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 5 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish				2021						
					Oct	Nov	Dec	Jan	Feb	<u>⊳</u> ∧	1ar	Apr	May	Jun
1	PHASE 5	779 days	Mon 11/2/20	Thu 10/26/23		♦							-	
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21			*******		******	******				******
9	Final Design and Construction Documents	120 days	Tue 9/28/21	Mon 3/14/22										
11	Permitting	40 days	Tue 3/15/22	Mon 5/9/22										
14	Easements and Land Acquisition	410 days	Tue 9/21/21	Mon 4/17/23										
17	Bidding and Contracts	46 days	Tue 4/18/23	Tue 6/20/23										
22	Construction	92 days	Wed 6/21/23	Thu 10/26/23										

Project: 00074 Date: Tue 2/21/23	Milestone Critical Task	◆ ★	Project Duration Planing and Conceptual Design	←	Permitting Easements and Land Acquisitions	•
	Task		Final Design and Construction Documents		Bidding and Contracts	
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HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 6 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	2021 Oct Nov Dec Jan Feb Mar Apr May
1	PHASE 6	779 days	Mon 11/2/20	Thu 10/26/23		▲
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21		
9	Final Design and Construction Documents	120 days	Tue 9/28/21	Mon 3/14/22		
11	Permitting	40 days	Tue 3/15/22	Mon 5/9/22		
14	Easements and Land Acquisition	410 days	Tue 9/21/21	Mon 4/17/23		
17	Bidding and Contracts	46 days	Tue 4/18/23	Tue 6/20/23		
22	Construction	92 days	Wed 6/21/23	Thu 10/26/23		

Project: 00075 Date: Tue 2/21/23	Milestone Critical Task	◆ ★	Project Duration Planing and Conceptual Design	← →	Permitting Easements and Land Acquisitions	
	Task		Final Design and Construction Documents		Bidding and Contracts	
				Page 1		

2022 Jan Jun Jul Aug Sep Oct Nov Dec Jan Image: Sep Oct Nov Dec Jan Image: Sep Image: Sep													
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LAW ENFORCEMENT CENTER EXPANSION PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	arte 4th Quarte 1st Quarte 2nd Quart 3rd Quarte 4th Quarte 1st Quarte 2nd Quart 3rd Quarte 4th Quarte 1st Qu Sep Nov Jan Mar May Jul Sep Nov Jan Mar May Jul Sep Nov Jan
1	LEC Expansion	1050 days	Wed 11/18/20	Tue 11/26/24	▲
2	Parking and Site Improvements	161 days	Wed 11/18/20	Wed 6/30/21	
17	Reflection Plaza	219 days	Mon 3/14/22	Thu 1/12/23	
26	Challenge Course	98 days	Wed 10/12/22	Fri 2/24/23	
33	Facility Improvements	97 days	Sun 7/14/24	Tue 11/26/24	

Project: 00077 Date: Tue 2/21/23	Milestone Critical Task	◆ ★	Project Duration Planning and Conceptual Design	→	Permitting Easements and Land Acquisition		Cons
	Task		Final Design and Construction Documents	5	Bidding and Contracts	♦	
				Page 1			

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	MAY RIVER ROAD POCKET PARK PROPOSED SCHEDULE													
D	Task Name	Duration	Start	Finish	July August September October November December January February March April May July August September October November 6/27 7/4 17/11 7/25 8/1 8/5 8/15 8/25 5/55 5/51									
1	MAY RIVER ROAD POCKET PARK	354 days	Thu 7/1/21	Tue 11/8/22										
2	Planning and Conceptual Design	46 days	Thu 7/1/21	Thu 9/2/21	\diamond									
6	Final Planning and Construction Documents	140 days	Fri 9/3/21	Thu 3/17/22	\diamond									
13	Permitting	94 days	Mon 11/29/21	1 Thu 4/7/22										
18	Bidding and Contract	48 days	Fri 3/18/22	Tue 5/24/22										
24	Construction	106 days	Tue 6/14/22	Tue 11/8/22										

Project: 00080	Milestone	•	Task		Planning and Conceptual Design	♦ <u>xxxxxxxxxxxxx</u> ♦	Permitting	♦ <u>100000000000</u>	Easements and Land Acquisitions	▲200000000000
Date: Wed 11/23/22	Critical Task	*	Project Duration	••	Final Design and Construction Documents	•	Bidding and Contract	 	Construction	◆222222222222

MAY RIVER WATERSHED ACTION PLAN IMPERVIOUS WATER QUALITY PROJECTS PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	3rd Quarter 4th Quarter 1st Quarter 2nd Quarter Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun
1	MAY RIVER WATERSHED ACTION PLAN IMPERVIOUS RESTORATION WATER QUALITY PROJECTS	456 days	Fri 7/1/22	Fri 3/29/24	•
2	MRWAP CIP Projects Planning and Preliminary Design	456 days	Fri 7/1/22	Fri 3/29/24	

Project: 00105	Milestone	♦	Project Duration	←	Permitting	Con
Date: Tue 2/21/23	Critical Task	*	Planning and Conceptual Design		Bidding and Contract	
	Task		Final Design and Construction Documents		Easements and Land Acquisitions	
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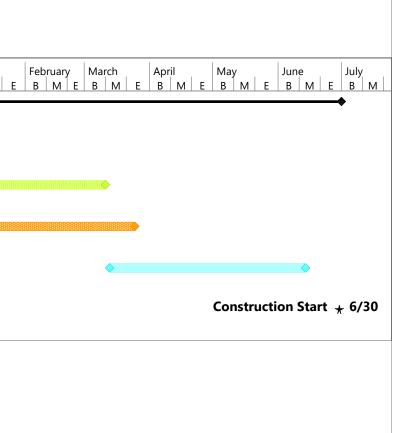
3rd Quarter 4th Quarter 1st Quarter un Jul Aug Sep Oct Nov Dec Jan Feb Mar	2nd Qua Apr ✦
	2nd Qua Apr ◆
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	NEW RIVER LINEAR TRAIL PROPOSED SCHEDULE													
ID	Task Name	Duration	Start	Finish	July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septemb October Novembe Decembe January February March April May June July August Septembe Decembe January February March April May June July August Septembe Decembe January February March April May June July August Septembe Decembe January February March April May June July August Septembe Decembe January February March April May June July August Septembe Decembe January February March April May June July August Septembe Decembe January February March April May June July August Septembe Decembe January February March April May June July August Septembe Decembe January February March April May June July August Septembe Decembe January February March April May June July August Septembe Decembe January February Mar									
1	NEW RIVER LINEAR TRAIL	617 days	Mon 7/5/21	Tue 11/14/23										
2	Planning	121 days	Mon 7/5/21	Mon 12/20/21										
14	Final Planning and Construction Documents	161 days	Fri 7/1/22	Fri 2/10/23										
27	Permitting	121 days	Thu 2/2/23	Thu 7/20/23										
33	Bidding and Contracts	55 days	Fri 7/21/23	Thu 10/5/23										
39	Submit Contract for TC Approval	1 day	Tue 11/14/23	Tue 11/14/23	*									
42														
43														
44														
45														
46														
Projec Tue 2	ct 00092 Project Duration 7/21/23 Task		ritical Task lilestone	*										
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NEW RIVERSIDE PARK - PLAYGROUND AREA PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	July August September October November December January E B M E B
1	NEW RIVERSIDE PARK PLAYGROUND	261 days	Fri 7/1/22	Fri 6/30/23	◆
2	Planning Phase	61 days	Fri 7/1/22	Fri 9/23/22	
11	Design Phase	120 days	Mon 9/26/22	Fri 3/10/23	
25	Permitting Phase	59 days	Tue 1/3/23	Fri 3/24/23	
29	Bidding Phase	67 days	Mon 3/13/23	Tue 6/13/23	
36	Construction Start	1 day	Fri 6/30/23	Fri 6/30/23	

Project: 00085	Milestone	•	Project Duration	**	Permitting	Сс
Date: Tue 2/21/23	Critical Task	*	Planning and Conceptual Design		Easements and Land Acquisition	
	Task		Final Design and Construction Documents		Bidding and Contracts	
				Page 1		



Construction

NEW RIVERSIDE BARN PARK - PHASE 1 PROPOSED SCHEDULE ID Task Name Start Finish y 21 August 11 September September October 11 November November December 1 January 1 January 21 February 1 March 1 March 21 March 21 March 21 F W M S T T S F W M S T S T S F W M S T T S F W M S T T S F W M S T S T S F W M S T T S F W M S T T S F W M S T T S F W M S T T S F W M S T T S F W M S T T S F W M S T T S F W M S T S T S F W M S T T S F W M S T S T S F W M S T Duration 296 days 1 NEW RIVERSIDE BARN PARK - PHASE 1 Mon 8/1/22 Mon 9/18/23 -2 Bidding and Contracts 65 days Mon 8/1/22 Fri 10/28/22 **\$300** 10 Preconstruction Phase 10 days Mon 10/31/22 Fri 11/11/22 2555555 14 Construction Phase 221 days Tue 1/24/23 Tue 11/28/23



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					OSCAR FRAZIER PARK PROPOSED SCHEDULE
ID	Task Name	Duration	Start	Finish	July August September October November December January February March E B M E B
1	FIELD OF DREAMS HARDSCAPE IMPROVEMENTS	315 days	Wed 7/6/22	Tue 9/19/23	•
2	Planning	28 days	Wed 7/6/22	Fri 8/12/22	
6	Design and Construction Documents	80 days	Mon 8/15/22	Fri 12/2/22	
14	Permitting	80 days	Mon 12/5/22	Fri 3/24/23	
19	Bidding	70 days	Mon 1/23/23	Fri 4/28/23	
27	Construction	102 days	Mon 5/1/23	Tue 9/19/23	

Project 00066 Mon 12/5/22	Milestone Critical Task	*	Project Duration Planning and Conceptual Design	★ →	Permitting Easements and Land Acquisition		Con
	Task		Final Design and Construction Documents	Page 1	Bidding and Contracts	<u> </u>	

March Apr B M E B	il May M E B	y June M E B	M E B I	August M E B M	t September E B M E
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					OYSTER FACTORY PARK PROPOSED SCHEDULE
ID	Task Name	Duration	Start	Finish	ust September October November December January 8/7 8/14 8/21 8/28 9/4 9/11 9/18 9/25 10/2 10/910/1610/2310/30 11/6 11/1311/2011/27 12/412/1112/1812/25 1/1 1/8
0	00059 Oyster Factory Parking Improvements	191 days	Mon 8/15/22	Mon 5/8/23	
1	Oyster Factory Park	191 days	Mon 8/15/22	Mon 5/8/23	<u>♦</u> ــــــ
2	Pre Construction	91 days	Mon 8/15/22	Mon 12/19/22	
6	Construction	90 days	Tue 1/3/23	Mon 5/8/23	

Project: 00059	Milestone	•	Project Duration		Permitting	Construction
Date: Wed 11/23/22	Critical Task		Planning and Conceptual Design		Easements and Land Acquisition	
	Task		Final Design and Construction Document	s 🔶	Bidding and Contracts	

1/15 1/22 1/	February 29 2/5 2/12 2	March	3/12 3/19	April 3/26 4/2 4/9	9 4/16 4/23	May 4/30 5/7

PARK IMPROVEMENTS PROPOSED SCHEDULE

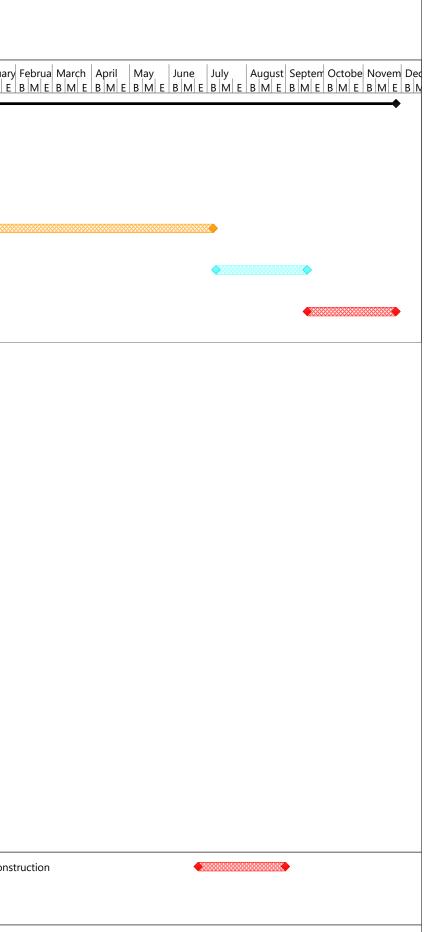
ID	Task Name	Duration	Start	Finish	August 2022 September 202 October 2022 November 2022 December 2022 January 2023 Feb E B M E B M E B M E B
1	PARK IMPROVEMENTS - FY 23	240 days	Mon 8/1/22	Fri 6/30/23	\bullet
2	Final Planning and Construction Documents	122 days	Mon 8/1/22	Tue 1/17/23	
10	Bidding and Contracts	55 days	Mon 1/23/23	Fri 4/7/23	
16	Construction	60 days	Mon 4/10/23	Fri 6/30/23	

Project 00086	Milestone	•	Project Duration	• ——•	Permitting	•	Cons
Tue 2/21/23	Critical Task	*	Planning and Conceptual Design		Easements and Land Acquisition		
	Task		Final Design and Construction Documents	s 🔶	Bidding and Contracts	♦	
				Page 1			

PATHWAY PEDESTRIAN SAFETY IMPROVEMENTS, PHASE 2 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	January Februa March April May June July August Septem Octobe Novem Decemi January B M E B M E B M E B M E B M E B M E B M E B M E B M E B M E B M E B M E B M E B M E B M E B M E
1	Pathway Pedestrian Safety Improvements, Phase 2	487 days	Mon 1/16/23	Tue 11/26/24	•
2	Planning and Conceptual Design	88 days	Mon 1/16/23	Wed 5/17/23	
6	Final Planning and Construction Documents	82 days	Thu 5/18/23	Fri 9/8/23	
11	Permitting	215 days	Mon 9/11/23	Fri 7/5/24	
17	Bidding and Contract	52 days	Mon 7/8/24	Tue 9/17/24	
22	Construction	50 days	Wed 9/18/24	Tue 11/26/24	

Project: 00050 Date: Mon 1/30/23	Milestone Critical Task	♦ ★	Project Duration Planning and Conceptual Design	← →	Permitting Bidding and Contract	•	Cor
	Task		Final Design and Construction Documents	•	Easements and Land Acquisitions		
				Page 1			



PRITCHARD STREET DRAINAGE IMPROVEMENTS PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	3rd Quarter 4th Quarter 1st Quarter 2nd Quarter 3rd Q E B M E
1	PRITCHARD STREET DRAINAGE IMPROVEMENTS	487 days	Fri 7/1/22	Mon 5/13/24	◆
2	Pritchard Street Design and Construction Documents	301 days	Fri 7/1/22	Fri 8/25/23	
4	Pritchard Street Bidding and Contracts	47 days	Mon 8/28/23	Tue 10/31/23	
9	Pritchard Street Construction	139 days	Wed 11/1/23	Mon 5/13/24	

Project: 00106	Milestone	•	Project Duration	← ──◆	Permitting	Cons
Date: Tue 2/21/23	Critical Task	*	Planning and Conceptual Design		Bidding and Contract	
	Task		Final Design and Construction Documents	5	Easements and Land Acquisitions	
				Page 1		

Quarter 4th Quarter 1st Quarter 2nd Quarter 1 E B M
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SARAH RILEY HOOKS MASTER PLANNING FY 23 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	August September October November I 7/24 7/31 8/7 8/14 8/21 8/28 9/4 9/11 9/18 9/25 10/2 10/9 10/16 10/23 10/30 11/6 11/13 11/20 11/2
1	SARAH RILEY HOOKS COTTAGE MASTER PLAN	315 days	Mon 8/1/22	Fri 10/13/23	•
2	Planning	40 days	Mon 8/1/22	Fri 9/23/22	
6	Design (Master Planning)	115 days	Mon 9/26/22	Fri 3/3/23	

Project 00101	Milestone		Project Duration	←◆	Permitting		Cons
Fri 7/15/22	Critical Task	*	Planning and Conceptual Design		Easements and Land Acquisition		
	Task		Final Design and Construction Documents		Bidding and Contracts	♦	
				Page 1			

December 1/27 12/4 12/11 12/18 12/25	January 1/1 1/8 1/15 1/22 1,	February / /29 2/5 2/12 2/19 2/2	March 6 3/5 3
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					E POPE CARRIAGE HOUSE ROPOSED SCHEDULE
ID	Task Name	Duration	Start	Finish	th Quarter 1st Quarter 2nd Quarter 3rd Quarter 4th Quarter M B E M B E M B E M B E M B E M B E M B E M B E M B E
1	SQUIRE POPE CARRIAGE HOUSE	554 days	Tue 11/1/22	Fri 12/13/24	• • • • • • • • • • • • • • • • • • •
2	Permitting Phase	60 days	Tue 11/1/22	Mon 1/23/23	
4	Construction	494 days	Tue 1/24/23	Fri 12/13/24	

Project: 00067 Date: Mon 1/30/23	Milestone Critical Task	◆ ★	Project Duration Planning and Conceptual Design	<u>+</u>	Permitting Bidding and Contract	••••••••••••••••••••••••••••••••••••	Cons
	Task		Final Design and Construction Documents	s 🔶	Easements and Land Acquisitions		
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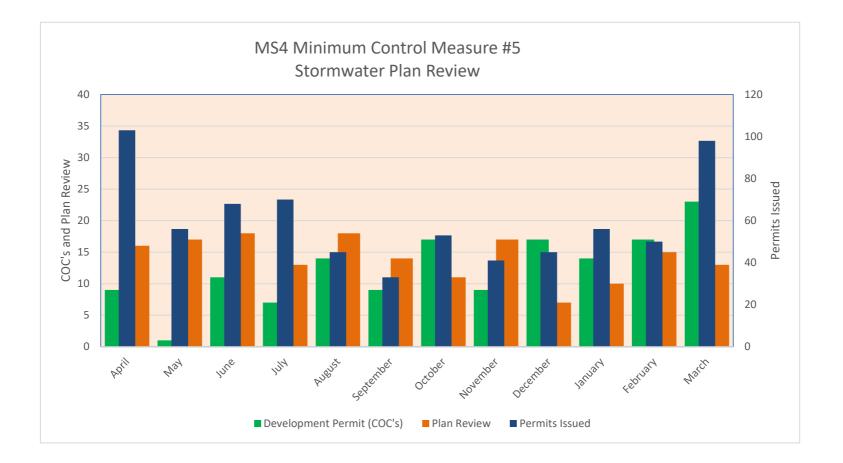
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				RF STREET LIGHTING DPOSED SCHEDULE
Task Name	Duration	Start	Finish	2022 Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug
WHARF STREET LIGHTING	660 days	Mon 7/5/21	Fri 1/12/24	•
Planning and Conceptual Design	352 days	Mon 7/5/21	Tue 11/8/22	
Permitting	90 days	Wed 11/9/22	Tue 3/14/23	
Easements and Land Acquisition	160 days	Wed 11/9/22	Tue 6/20/23	
Construction	135 days	Mon 7/10/23	Fri 1/12/24	
	WHARF STREET LIGHTING Planning and Conceptual Design Permitting Easements and Land Acquisition	WHARF STREET LIGHTING 660 days Planning and Conceptual Design 352 days Permitting 90 days Easements and Land Acquisition 160 days	WHARF STREET LIGHTING660 daysMon 7/5/21Planning and Conceptual Design352 daysMon 7/5/21Permitting90 daysWed 11/9/22Easements and Land Acquisition160 daysWed 11/9/22	Task NameDurationStartFinishWHARF STREET LIGHTING660 daysMon 7/5/21Fri 1/12/24Planning and Conceptual Design352 daysMon 7/5/21Tue 11/8/22Permitting90 daysWed 11/9/22Tue 3/14/23Easements and Land Acquisition160 daysWed 11/9/22Tue 6/20/23

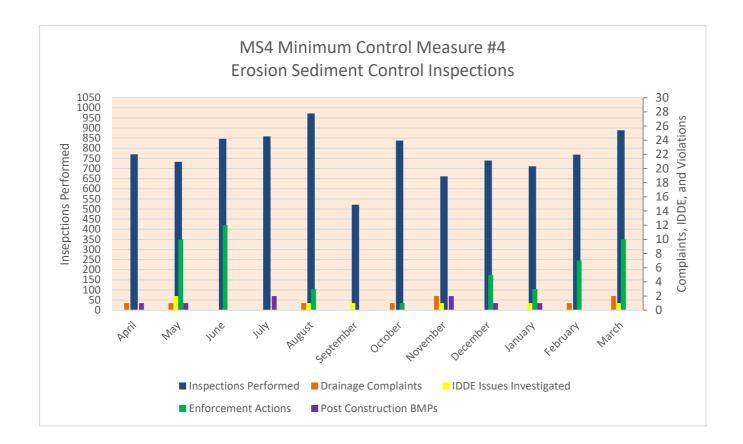
Project: 00068	Milestone	♦	Project Duration	~	Permitting	Со
Date: Tue 2/28/23	Critical Task	*	Planning and Conceptual Design		Easements and Land Acquisition	
	Task		Final Design and Construction Documents		Bidding and Contract	
				Page 1		

2023 g Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep

Construction



ТҮРЕ	April	May	June	July	August	September	October	November	December	January	February	March	Last 12 Months
Development Permit (COC's)	9	1	11	7	14	9	17	9	17	14	17	23	148
Plan Review	16	17	18	13	18	14	11	17	7	10	15	13	169
Permits Issued	103	56	68	70	45	33	53	41	45	56	50	98	718



ТҮРЕ	April	May	June	July	August	September	October	November	December	January	February	March	Last 12 Months
Inspections Performed	770	733	847	859	972	521	838	661	739	711	769	889	9309
Drainage Complaints	1	1	0	0	1	0	1	2	0	0	1	2	9
IDDE Issues Investigated	0	2	0	0	1	1		1	0	1	0	1	7
Enforcement Actions	0	10	12	0	3	0	1	0	5	3	7	10	51
Post Construction BMPs	1	1	0	2	0	0	0	2	1	1	0	0	8