



## Beaufort County Stormwater Utility 120 Shanklin Road Beaufort, South Carolina 29906 Voice (843) 255-2805

March 8, 2023

Stormwater Utility Board Packet

#### **Table of Contents**

- 1. Beaufort County Stormwater Manager Report Attached
- Stormwater Projects Report <u>Attached</u>
   Draft February Minutes <u>Attached</u>
   4.19.2023 Agenda <u>Attached</u>





#### BEAUFORT COUNTY STORMWATER MANAGEMENT UTILITY BOARD AGENDA

Wednesday, April 19th, 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 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. 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, 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

Board	l Members	Ex-Officio Members							
Present	Absent	Present	Absent						
Marc Feinberg		Nate Farrow							
Ron Buchanan		Bill Baugher							
James Clark		Jeff Netzinger							
Dennis Ross		Van Willis							
Ed Warner									
Patrick Mitchell									
Steve Andrews									
Beaufort	County Staff	Visitors							
Present	Absent								
Dave Wilhelm	Matt Rausch	Jacob Terry							
Katie Herrera		Alice Howard							
Julianna Corbin		Mr. William Smith, St. Hel	ena						
Carolyn Wallace									
Stephen Carter									
Jon Spencer									

- 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 30<sup>th</sup>. 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



February 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) Brewer Memorial Park April 2023
- 3. Reminder: Annual Financial report from the Municipalities are due Per the Intergovernmental Agreements for the Utility, each year on September 30<sup>th</sup>, 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. SWIC team met on 2/15 to discuss cost shares and contracts and tax year 2021 revenues.

#### **Regional Coordination**

1. See "Stormwater Related Projects" item #10.

#### **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)

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- i. See attached Report.
- 3. City of Beaufort (From Nate Farrow, Public Works Director)
  - i. No information was available at the time of this report.
- 4. Town of Port Royal (From Van Willis, Town Manager and Tony Maglione, consultant)
  - i. No information was available at the time of this report.

#### **Stormwater Related Projects**

- 1. Easements Staff is working on easement requests and meets monthly to review status of each as well as any new easements. 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 Next Task Force meeting is scheduled for March 14. The intergovernmental agreement with SCDOT was approved and sent for County signature on February 24. Design Scope and Fee was rejected by Beaufort County on February 13. County staff awaits results of environmental survey scope and fee at time of report.
- 3. Factory Creek Watershed Regional Detention Basin "Phase II" –Staff to meet with hired attorneys for litigation.
- 4. Huspah Court North and Bessie's Lane, On Call Stormwater infrastructure services
  - a) Huspah Court N JH Hiers delivered estimate on February 24, staff negotiating. Junction boxes are expected in late spring.
  - b) Bessies Lane –JH Hiers is preparing estimate.
  - c) Church of God JH Hiers is preparing estimate as staff waits on material delivery.
- 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.
- 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 Woolpert continues to QA/QC the model results and produce the report. Allocated funds \$213,650.00

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- 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.

#### Scopes on County and Woolpert Radar:

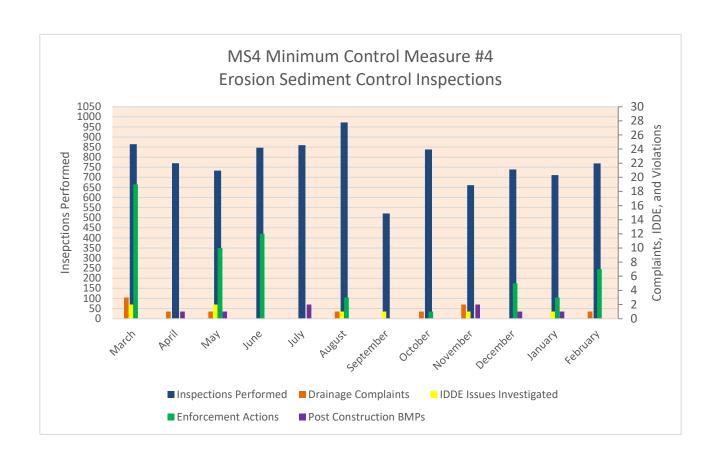
1. Mint Farm Water Quality Retrofits

#### **MS4 Report**

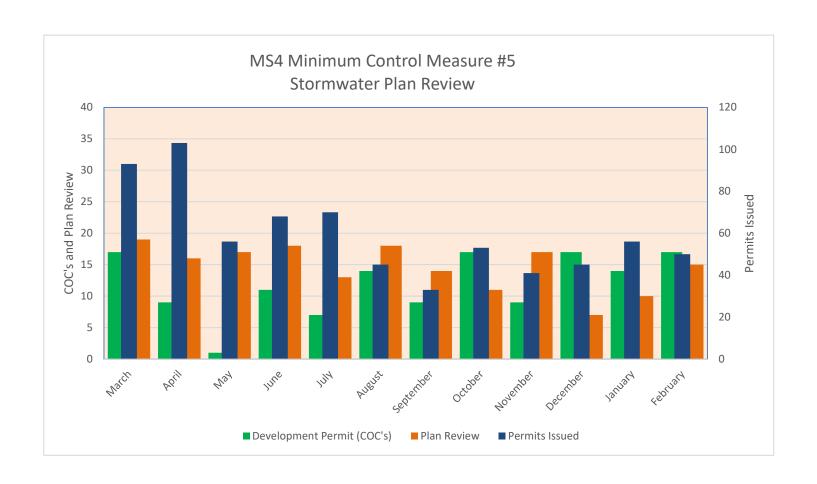
- 1. Plan Review <u>See the attached chart</u> for Beaufort County Stormwater staff plan review workload for the past 12 months.
- 2. Stormwater Permits <u>See the attached chart</u> for Beaufort County Stormwater permits issued for the past 12 months.
- 3. Monthly Inspection summary <u>See the attached chart</u> for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
- 4. Public Education See attached report.
- 5. Energov permitting software No update at this time.
- 6. MS4 Statewide General permit DHEC has completed the draft SCDOT MS4 permit, and is awaiting approval from the EPA before posting. They have also completed the renewal for Greenville. DHEC is waiting on guidance from the EPA about the Remand Ruling, as well as clarification on what is classified as an urbanized area, as that changed during the last census. Once those items have been clarified, they will begin drafting the small SMS4 permit. They are considering two options, dependent on comments regarding the Remand rule.

#### Staff Update

1. Interviewing for all vacancies.



ТҮРЕ	March	April	May	June	July	August	ptemb	October	Novembe	December	January	February	Last 12 Months
Inspections Performed	864	770	733	847	859	972	521	838	661	739	711	769	9284
Drainage Complaints	3	1	1	0	0	1	0	1	2	0	0	1	10
IDDE Issues Investigated	2	0	2	0	0	1	1		1	0	1	0	8
Enforcement Actions	19		10	12	0	3	0	1	0	5	3	7	60
Post Construction BMPs	0	1	1	0	2	0	0	0	2	1	1	0	8



ТҮРЕ	March	April	May	June	July	August	eptembe	Octobe	November	December	January	February	Last 12 Months
Development Permit (COC's)	17	9	1	11	7	14	9	17	9	17	14	17	142
Plan Review	19	16	17	18	13	18	14	11	17	7	10	15	175
Permits Issued	93	103	56	68	70	45	33	53	41	45	56	50	713

#### **TOWN COUNCIL**

#### STAFF REPORT

#### **Projects and Watershed Resilience Department**



MEETING DATE:	March 14, 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.

#### • Next Steps

Complete additional services to clean up ditches and 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.

#### Next Steps

- Prepare and obtain streetlight easements and begin condemnation process for remaining Phase 5 street lighting easements.
- o Begin Phase 6B construction.
- Construction of the remaining Simmonsville Road sidewalks and lighting 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.

#### Next Steps

- Continue engineering design for Phase 1 pathway (New River to Hwy 46).
- Submit plans to Santee Cooper for cursory review and cost share for bridge replacements.
- Easement Donation from New Riverside Community Association, Inc. to be presented 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 must be reposted per Dept. of Commerce due to grant funding.

#### Next Steps

- o Coordinate with Dept. of Commerce to re-bid the project.
- Start construction summer 2023.

#### 2. Historic District Sewer Extension Phase 2 - Bridge Street

- 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.
- Readvertised for bids in conjunction with Historic District Sewer Extension Phase 3 and received one response which was much higher than anticipated.

#### Next Steps

- Negotiate design changes with BJWSA and adjust scope and/or price with lone bidder.
- Contract award with Jordan Construction of Hilton Head, Inc. to be presented at 3/14/23 Town Council.

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

• Received initial design for Phases 4, 5, & 6 and reviewed with the engineer.

#### Next Step

- Review Phases 4, 5, & 6 design changes to drawings.
- 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 Program at this time.
- Policy document for Impervious Restoration Program under formulation.
- Geotechnical investigations at 6 school sites were completed and field results are under analysis. Geotechnical investigations for the 3 remaining sites are being coordinated.
- Geotechnical results for 6 school sites will be utilized to develop the Final Preliminary Designs at each site location and in process.

#### Next Steps

- Proceed with geotechnical evaluations at the 3 remaining site locations. Begin preliminary site design.
- 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 80% complete.
- 10" water main relocation/lowering performed on 2/15/23.

#### Next Steps

- o Completion of road restoration grading and stabilization in process.
- Remaining work will be performed via lane closure and is anticipated to be completed by mid-March.

#### **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.

#### Next Steps

- 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

- Stabilization has been completed.
- Contract with Huss Inc. 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.

#### Next Steps

o Excavation for footers and foundation under raised structure.

Pour footers and start foundation.

#### 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.

#### Next Steps

- Continue construction of Phase I and complete in Summer 2023.
- Drainage 85%, parking 50%, Sidewalks 40%, IT conduit and pull boxes 50%, lighting 5%.
- Obtain easement from Cunningham LLC for sidewalk connections.

#### 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.

#### Next Steps

- o Continue 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.

#### Next Steps

- Continue engineering design into FY 2023.
- o Prepare easement acquisition plats for Phase 1 in May 2023.
- o Begin easement acquisition in FY 2024.
- o 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.

#### Next Steps

- Phase 2 design proposal under review.
- Staff is submitting a US DOT RAISE grant for planning and design of bike and pedestrian safety improvements in the Historic District, Goethe/Shults and Buck Island/Simmonsville neighborhoods for implementation in a phased approach.

#### 7. Historic District Comprehensive Drainage Plan Improvements

- Review of Phase 1 updated asset inventory and condition assessment.
- 2D H/H model development complete and under review.
- Initial Tidal Gauge information gathering at Calhoun St Dock has been completed.

#### Next Steps

 Review 2D H/H model development results and area of inundation/choke points and establish maintenance and project needs 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.
- Barrier Island Engineering completed 3<sup>rd</sup> party evaluation of drainage claims and complaints associated with 40 Pritchard Street. Concept plan of potential on-site drainage improvements that can be performed by the homeowner to reduce the risk of flooding for his property has been delivered.

#### Next Steps

- Coordinate approval for proposed improvements with Beaufort County School District.
- Complete 100% design submission. Final project scope and potential future phase Streetscape elements to be included.

#### **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 parking area to begin in February 2023.
- Design of Phase 3 signage for Garvin/Garvey house completed.

#### Next Steps

- Begin 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.

#### Next Steps

- Complete Rotary Center hardscape plans and bid in the Spring 2023.
- Hardscape construction to begin in April.
- 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

- A \$500,000.00 grant was approved for partial funding of the initial phase of the project.
- Engineering design, permitting and bidding of phase 1 site development is complete.
- Construction documents for the restroom building are complete.
- Executed contract for architectural design services for the Barn additions.

- Executed phase 1 Site Development contract with JS Construction.
- Executed contract with Wood & Partners for playground design services.
- Construction groundbreaking held on 1/26/2023.
- JS Construction started phase 1 site construction on 1/27/2023.

#### Next Steps

- o Continue architectural design of barn addition.
- Continue design of playground area in FY 2023.
- Continue construction of Phase 1 Site Development Infrastructure in January 2023.
- 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.

#### Next Steps

 Continue with the design of FY 2023 playground improvements and present at the April TC Workshop.

#### **TOWN FACILITIES AND MISCELLANEOUS PLANNING**

#### 1. Rotary Community Center Facility Improvements

Completed floor replacement in August 2022.

#### Next Steps

 Request funding for floor/crawl space insulation replacement and interior trim work in FY 2024 as a maintenance operating expense.

#### 2. Town of Bluffton Housing Projects

#### Next Steps

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

#### 3. 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.

#### Next Steps

 Complete construction with The Greenery for the challenge course and expanded area for an impound lot and storage of Public Service maintenance equipment.

#### 4. Sarah Riley Hooks Cottage

- Obtained conceptual master plan concepts from JK Tiller.
- Prepared questionnaire for stakeholder input and distributed at the Art and Seafood Festival. Post questionnaire on the TOB web site to obtain additional stakeholder input.
- Obtained Structural Assessment Report from Meadors Inc. to determine feasibility of the preservation of the cottage.
- Coordinate termite treatment for cottage.

• Prepared RFQu for the preservation or reconstruction of the Sarah Riley Hooks Cottage.

#### Next Steps

- Complete Master Plan and continue obtaining public input for potential uses for the park.
- Execute contract with Historic Preservation consultant for building assessment, preservation or re-construction.
- Present update at the April Town Council Workshop.

#### 5. 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 continues to meet with property owners to raise awareness of the acquisition efforts and communicate next steps and requested Council assistance.
- Easement Acquisition Consultants are under contract and initial meeting held.

#### Next Steps

- Obtain schedule and price proposals from consultants to obtain Quit Claim Deeds in the areas of Maiden and Dubois Lanes.
- Obtain remaining Quit Claim Deeds for Historic District Sewer Phases 4-6 or initiate condemnation proceedings.

#### 6. Document Management

- RFP contract was awarded in March 2022.
- Electronic Document Management system is live.

#### • Next Steps:

 Historical documents began being moved in July, 2022 and continue through FY 2026.

#### 7. 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.

#### Next Steps:

- o Replace phone system to a more modern system.
- Replacing two more VMWare hosts.
- o Implementation of Executime to replace.

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#### **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.
- A draft 3-party Intergovernmental Agreement was drafted by Staff.
- Next Steps
  - o Await notification of grant application. Anticipated in January/February of 2023.
  - Meet with partners to address BJWSA IGA concerns on 3/2/23.
  - o 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 is coordinating installation of the equipment with Xylem.
  - Staff deployed a HOBO-U20 water level logger at the Calhoun Street 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 has 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 May River Watershed Action Plan Advisory Committee (WAPAC) meeting took place on 02/23/23. **Attachment 3**
- 6. MS4 MCM #3 Illicit Discharge Detection and Elimination
  - Stormwater Infrastructure Inventory Map Attachment 4a
  - E. coli Concentrations Trend Map Attachment 4b
  - Monthly, Microbial Source Tracking (MST) Maps Attachments 4c and 4d
    - SC Department of Health and Environmental Control (SCDHEC) collects MST samples for the Town concurrently with their routine shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC conducted sampling 01/24/23 and 02/07/23. The human genetic marker was not detected in any sample collected in January. February results are pending. SCDHEC will be collecting samples again on 03/14/23.
  - 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)
  - No activity.
- 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.
    - o Arrow ditch (2,569 LF)
    - o 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 **bold** and *italic* font.

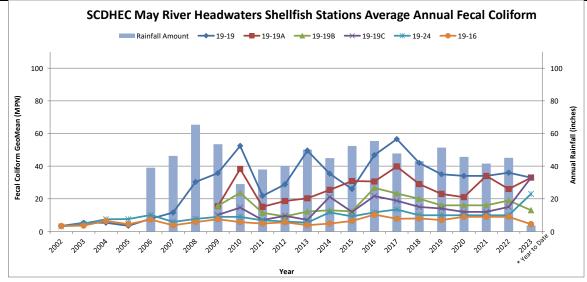
		19	-19			19-	19A			19-	19B			19-	19-19C 19-24			19-16						
	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023	2020	2021	2022	2023
	Fecal Coliform (MPN)																							
December	17.0	79.0	33.0		22.0	49.0	49.0		17.0	4.5	17.0		4.5	17.0	49.0		4.0	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	
May	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		7.8	70.0	31.0		21.0	79.0	17.0		4.5	23.0	22.0		4.5	7.8	2.0		6.8	6.8	11.0	
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	36.0	21.0	26.0	28.0	27.0	16.0	18.0	18.0	15.0	12.0	15.0	14.0	14.0	10.0	10.0	9.0	8.0	9.0	8.0	9.0	7.0
** Truncated 90th Percentile	106.0	139.0	192.0	204.0	59.0	69.0	91.0	97.0	50.0	58.0	72.0	68.0	37.0	39.0	54.0	64.0	31.0	35.0	41.0	40.0	35.0	33.0	32.0	24.0

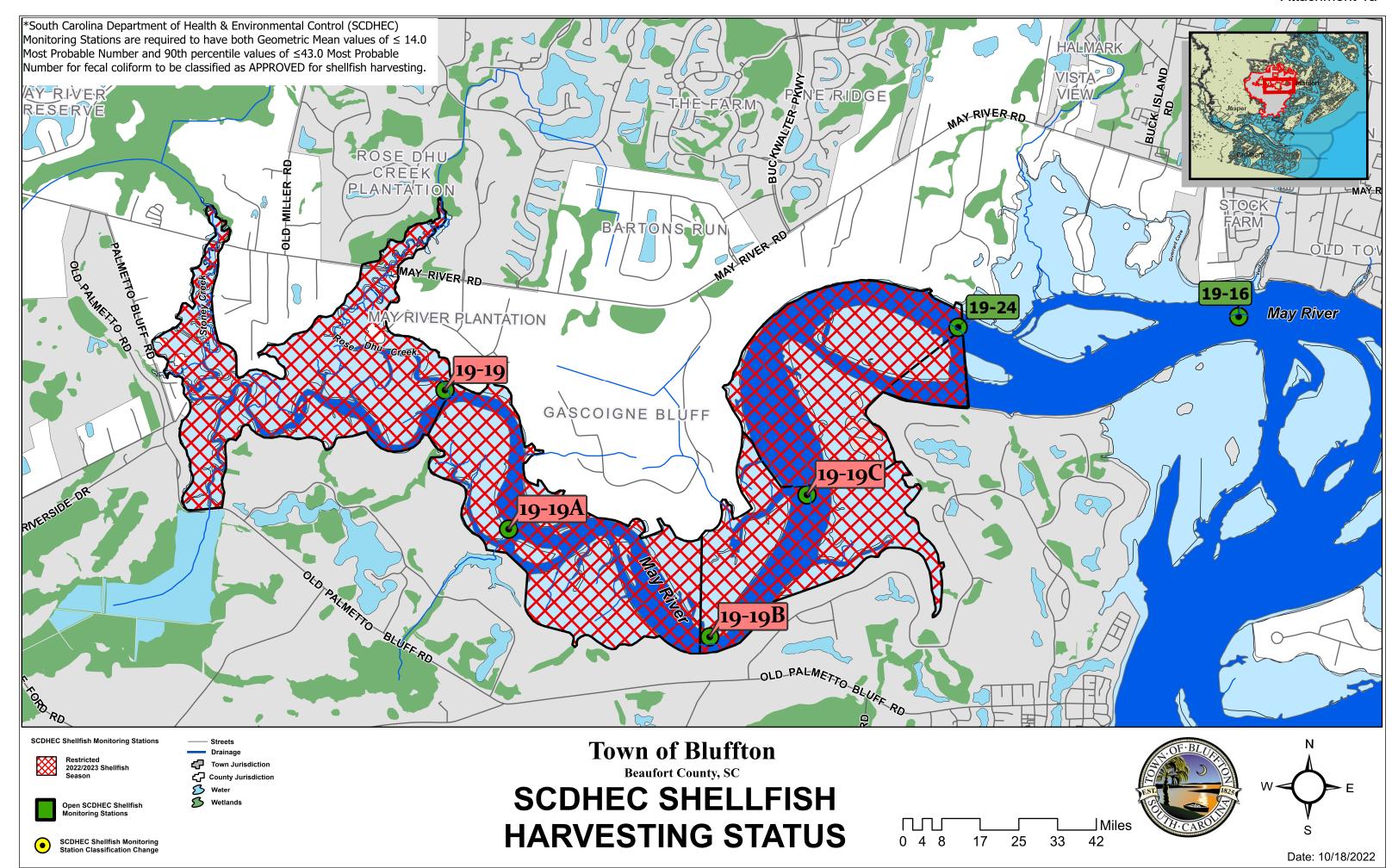
NS = No Sample

SCDHEC Regulatory Requirements:

Geometric Mean ≤ 14 90th Percentile ≤ 43

 $\hbox{$^{**}$ Town staff calculations utilizing SCDHEC statistics}\\$ 





# WAPAC Meeting Presentation 2020 May River Watershed Action Plan Update & Modeling Report Overview and Status

#### Overview

- May River Watershed Action Plan Update (MRWAP) & Modeling Report completed November 2020
- Bluffton Town Council Adoption of May River Watershed Action Plan Update & Modeling Report 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 the 2011 May River Watershed Action Plan (henceforth 2011 Action Plan) Best Management Practices (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 model and the model outputs. This highly technical information is necessary for future Water Quality Model (henceforth WQ Model) calibration and use for consistency.
  - 5.0 Recommendations includes strategies to improve the Town's
    - Water quality monitoring efforts in order to calibrate the WQ Model further (§5.1),
    - Develop strategies and BMPs for fecal coliform bacteria reduction (§5.2),
    - Conduct an evaluation of 2011 Action Plan BMP projects (§5.3),
    - Methodology used to develop 2020 MRWAP 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.
  - o 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.

#### 2020 MRWAP 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 subwatershed and 11 in Rose Dhu Creek subwatershed. Based on WQ Model outputs, these projects alone may potentially reduce the fecal coliform (FC) loading by 3.46x10<sup>13</sup> FC per year.
- The estimated septic to sewer conversion costs of these projects is \$5.5 million.

#### **Work Performed and Current Status**

Discussions with the Town of Bluffton, Beaufort County and Beaufort Jasper Water Sewer Authority (BJWSA) have been held about future Septic to Sewer Program projects identified above. The Stoney Creek subwatershed 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.

# **2020 MRWAP Update Eleven Impervious Restoration (stormwater retrofit) Project Recommendations/Evaluations and Other Work:**

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 95<sup>th</sup> percentile storm retention, to the maximum extent possible, under the proposed
Impervious Area Restoration/Stormwater Retrofit Program.

Eleven (11) proposed project sites were identified in the Rose Dhu Creek (6 projects) and Stoney Creek (5 projects) subwatersheds:

- Bluffton Early Learning Center (BELC)
- Boys and Girls Club of Bluffton (BGC)
- Benton House (BH)
- Bluffton High School (BHS)
- Buckwalter Recreation Center (BRC)
- Lowcountry Community Church (LCC)
- McCracken Middle School/Bluffton Elementary School (MMSBES)
- May River High School
- One Hampton Lake Apartments (OHLA)

- Pritchardville Elementary School (PES)
- Palmetto Pointe Townes (PPT)
- Based on WQ Model outputs, these projects alone may potentially reduce FC loading by
  - 2.99×10<sup>14</sup> FC reduction for the Full Stormwater Retention Volume (SWRv) (entire subbasin drainage area catchment).
  - 2.53×10<sup>14</sup> 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 to be Performed

 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 2020 MRWAP Update recommendations for implementation:

Task 1: 2020 MRWAP Update eleven (11) site locations

- Evaluate eleven (11) sites and proposed BMPs.
- Update concept plans for the eleven (11) sites based on site evaluations, recommendations, and discussions.
- Perform geotechnical evaluations (augers and borings to evaluate existing soil type, infiltration rates and groundwater table elevation) at each site at locations related to BMP locations and develop updated concept plans for each site.
- Refine updated concept plans and use for presentations to Property
   Owner to discuss Impervious Restoration Program goals, objectives and
   gain support for Program and their participation.
  - Develope 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/Water
     Quality (WQ) treatment in cost effective approach.
  - o 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 Impervious Restoration Program details (maintenance responsibilities, easements, incentives, etc.) developed as part of the Impervious Restoration 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 fifteen (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:
  - o 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 South Carolina Department of Transportation (SCDOT) Right of Way (RoW).

#### Town of Bluffton Impervious Restoration/BMP Retrofit Policy Documents.

Task 3: Section 5.4.4. Stormwater BMP Retrofit Projects of the 2020 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 the 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 Completed and Current Status**

- The Expression of Interest was submitted to three (3) consultant firms under existing Master Service Agreements (MSAs) with the Town for review and a request for response.
- All three (3) Firms responded, and their respective responses were evaluated, scored and discussed.
- 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 FY22 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.
- Phase I work completed by Consultant and Town:
  - 1. Review of recommendations of the 2020 MRWAP Update.
  - 2. On-site evaluations at each proposed site.
  - 3. Meetings with Beaufort County School District.
    - Six (6) of the eleven (11) sites are located on Beaufort County School District (henceforth School District) property. The School District is deemed an important project partner and as such several meetings have been held to discuss the Impervious Restoration Program and need for project BMPs to improve water quality. The School District has granted permission for the Town of Bluffton to perform initial site investigations, provided the Town with site specific plans, future

- development plans for each site, and expressed a willingness to participate in the Program.
- Drafted a Letter to Non-School Property Owners describing the Impervious Restoration Program and requesting meetings to discuss and gain support.
- 4. Policy Document Formulation has been initiated and includes research of similar Impervious Restoration Programs Nationwide.

#### Other, Related 2020 MRWAP Update Recommendations

- Adopt proposed regional Southern Lowcountry Post-Construction Stormwater Ordinance and Design Manual completed September 2021.
- The Town should incorporate volume reduction BMPs (those that encourage infiltration) within
  existing and future Capital Improvement Projects (CIP) to the maximum extent practical (MEP),
  especially for project locations with well-drained soils (HSG A or B) in progress, see below.
  - Work Performed and Current Status
    - 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 the South Carolina Department of Health and Environmental Control (SCDHEC) to cost-share on construction of proposed BMPs.
    - 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 and ultimately the May River.
      - Submitted Section 319 Grant proposal to SCDHEC to cost-share cost of construction of proposed BMPs. Pre-proposal was accepted, and Full Proposal was requested by SCDHEC. Under Review.
- In-House Microbial Source Tracking in progress, see below
  - The Town entered a Memorandum of Understanding (MOU) with the University of South Carolina Beaufort (USCB) in July 2021 to establish and fund a regional Microbial Source Tracking (MST) laboratory capable of accepting environmental water quality samples.
  - Analytical services are provided by the USCB-MST laboratory for all environmental samples collected by the Town.
  - Staff is working with the USCB-MST Laboratory to assess the utility of fecal markers in regional watersheds, including the May River watershed as recommended in the 2020 May River Watershed Action Plan Update and Model Report.
- 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 MRWAP Update.
- Staff is collecting intermittent flow data in conjunction with grab samples at monitoring sites in the May River Headwaters as recommended in the 2020 MRWAP Update.
- Staff working with consultant to identify recommended strategies to gain required intermittent flow data.
- Future (new) Water Flow Monitoring Locations.
  - Work Performed and Current Status
    - The 2020 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.
      - The Town of Bluffton established Sontek IQ Plus continuous flow measuring instruments in Stoney Creek, Rose Dhu Creek, and Heyward Cove subwatersheds. In addition, the Town collected intermittent flow data at the time of water quality grab sampling and established a weather station in the May River Watershed. The Town hired a consultant to review all the Town's continuous, intermittent, and precipitation data and to determine:
        - Useful data had been 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 has been completed.
          - Duck Pond was deemed inconsequential, not needed due to drainage area size and proximity/outfall to tidal waters.
        - o If data review resulted in insufficient data, develop a monitoring program that would produce the data needed.
          - Rose Dhu Creek continuous flow data review resulted in data that was insufficient to calibrate Model.
          - Final report identifying recommended strategies to gain required data is in process.
          - In process of purchasing telemetry stations to equip continuous flow monitoring stations with real-time data access for the Rose Dhu and Palmetto Bluff subwatersheds.



## May River Watershed Action Plan Advisory Committee Meeting

Thursday, February 23, 2023 at 3:00 PM

Theodore D. Washington Municipal Building, 20 Bridge Street, Henry "Emmett" McCracken Jr.

Council Chambers

#### **AGENDA**

- I. CALL TO ORDER
- II. ROLL CALL AND CONFIRMATION OF QUORUM
- III. ADOPTION OF THE AGENDA
- **IV. ADOPTION OF MINUTES**
- V. PUBLIC COMMENTS
- **VI. PRESENTATIONS, CELEBRATIONS AND RECOGNITIONS** 
  - Proposed Approach to Updating a Baseline Assessment of Environmental and Biological Conditions in the May River, Beaufort County, South Carolina – Andrew Tweel, Assistant Marine Scientist, SC Department of Natural Resources

#### VII. OLD BUSINESS

1. May River Watershed Action Plan Project Implementation Status Report - Dan Rybak, Project Manager

#### VIII. DISCUSSION

1. WAPAC Strategic Priority Two (2), to Update Assessments of Current Environmental Health Status of the Town's Watersheds Compared to Historical Conditions to Inform Management Opportunities, e.g., the 2004 Report "A Baseline Assessment of Environmental and Biological Conditions in the May River, Beaufort County, South Carolina" Completed by SC Department of Natural Resources, USGS, and NOAA to Compare Current Environmental and Biological Conditions to the Baseline. – Beth Lewis, Water Quality Program Administrator

#### IX. **NEW BUSINESS**

- 1. Introduction of Nicole Wright, Stormwater Technician Bill Baugher, Watershed Division Manager
- Port Royal Sound Foundation State of the Sound Symposium Highlights Al Stokes, WAPAC Committee
- Revised Federal Definition of Urbanized Area (UA) Beth Lewis, Water Quality Program Administrator

- 4. Town Requirements for Meeting Minutes Beth Lewis, Water Quality Program Administrator
- 5. Burnt Church Road Project, Coordination Between Beaufort County and Town of Bluffton Beth Lewis, Water Quality Program Administrator

#### X. ADJOURNMENT

**NEXT MEETING DATE: MARCH 23, 2023 - 3:00 P.M.** 

"FOIA Compliance – Public notification of this meeting has been published and posted in compliance with the Freedom of Information Act and the Town of Bluffton policies."

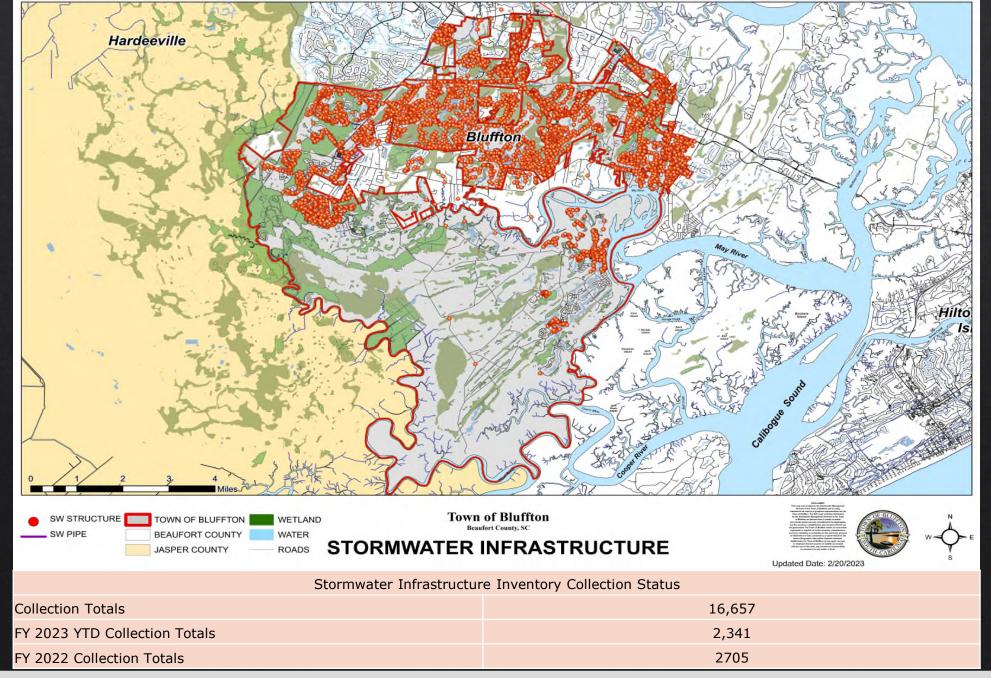
In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers are ADA compatible. Any person requiring further accommodation should contact the Town of Bluffton ADA Coordinator at 843.706.4500 or adacoordinator@townofbluffton.com as soon as possible but no later than 48 hours before the scheduled event.

\*Please note that each member of the public may speak at one public comment session and a form must be filled out and given to the Town Clerk. Public comment must not exceed three (3) minutes.

## Attachment 4a

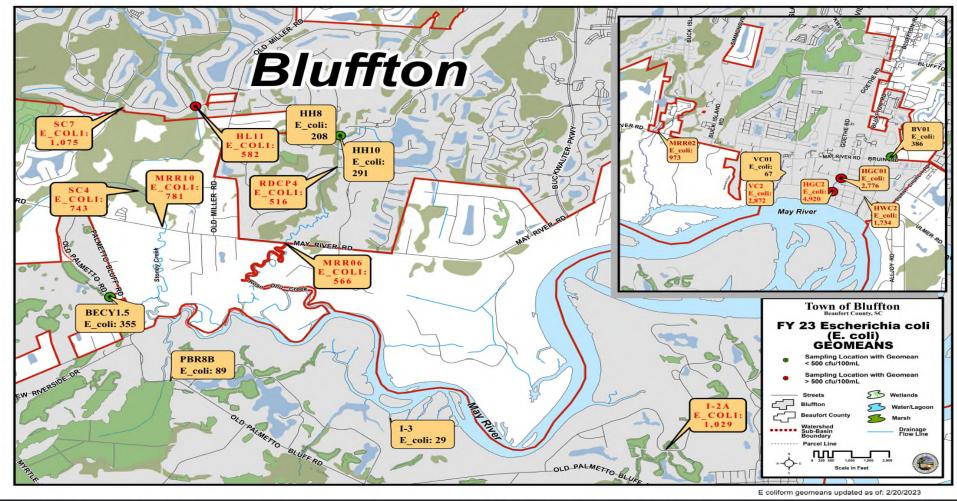
MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge

Detection & Elimination): Stormwater Infrastructure Inventory



## **ATTACHMENT 4b**

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

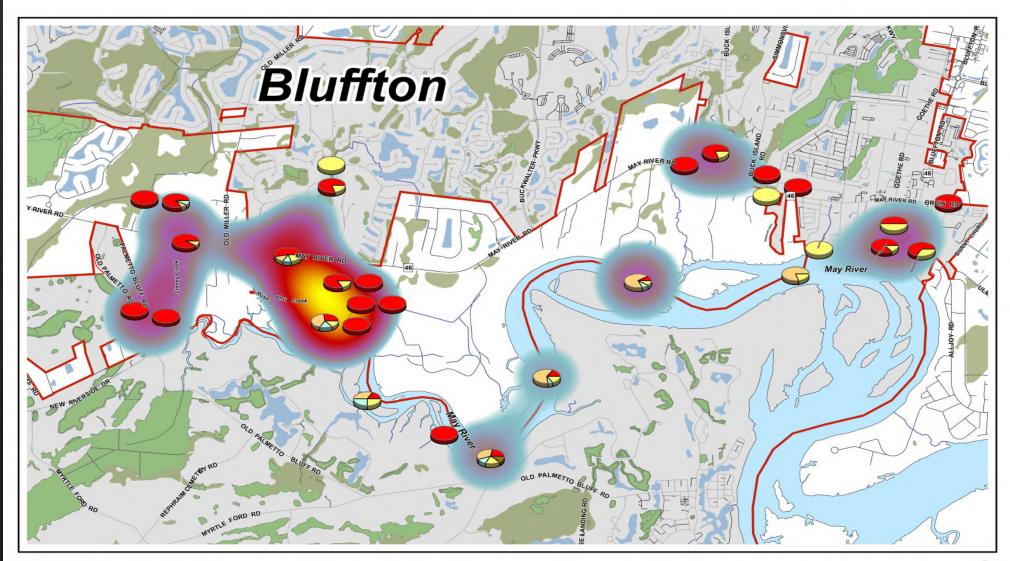


	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2023 YTD Totals	364	68	72
FY 2022 Totals	447	78	119
FY 2021 Totals	380	115	179

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

## **ATTACHMENT 4c**

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



### MSTSamplingResults MST Sampling Sites

Human
Bird
Deer
Dog

Intensity of samples

Representative of Low Sampling Distribution

Representative of High Sampling Distribution

## **MICROBIAL SOURCE TRACKING (MST) LOCATIONS**

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

Town of Bluffton



Beaufort County



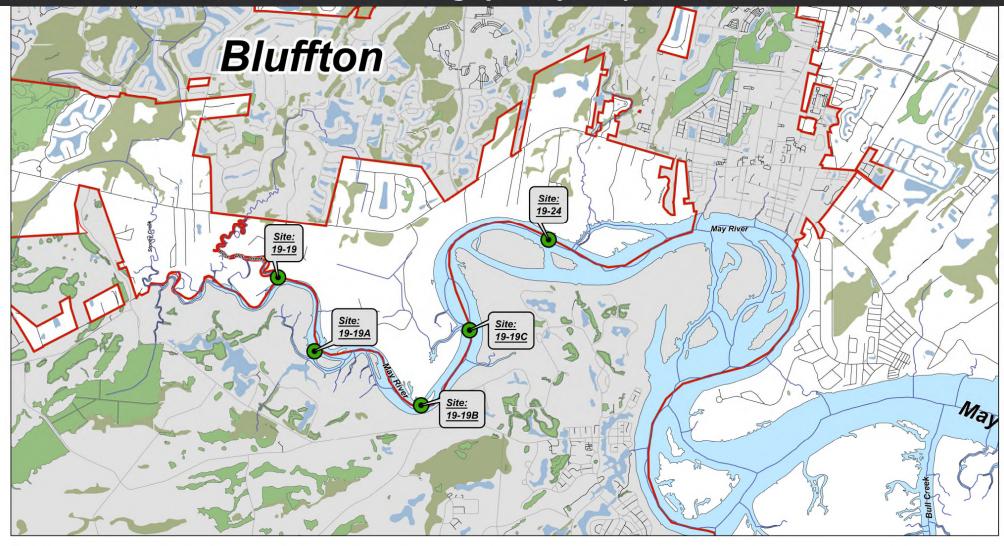
**Drainage Flow Lines** 



Updated Date: 2/20/2023

#### ATTACHMENT 4d

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















#### MICROBIAL SOURCE TRACKING LOCATIONS

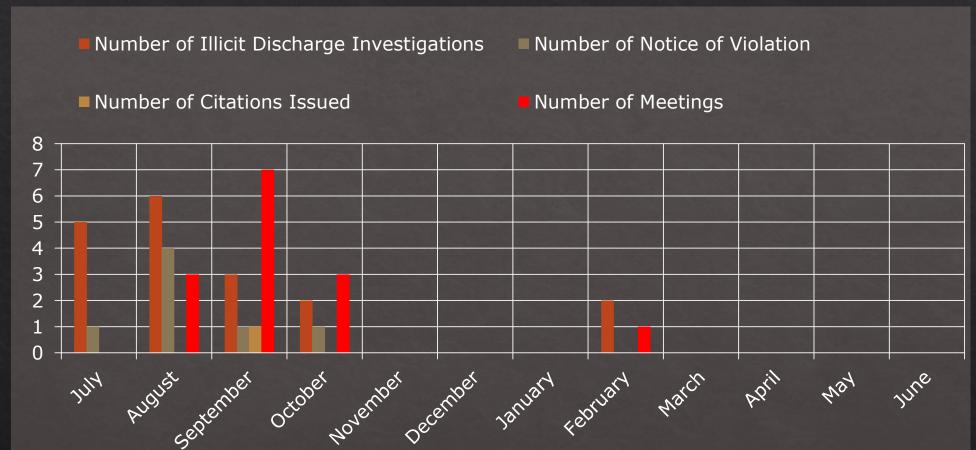
Sampling Results January 2023

Town of Bluffton
Beaufort County, SC





# <u>MS4 Minimum Control Measure #3 – IDDE:</u> <u>Illicit Discharge Investigations</u>

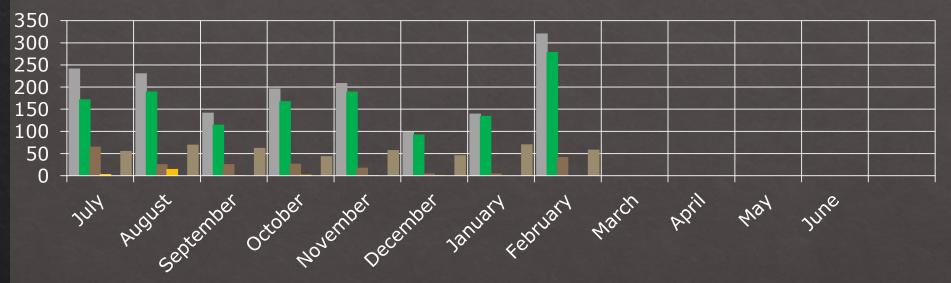


	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of Citations Issued	Number of Meetings
FY 2023 YTD Totals	18	7	1	14
FY 2022 Totals	30	5	3	17
FY 2021 Totals	36	11	1	29

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

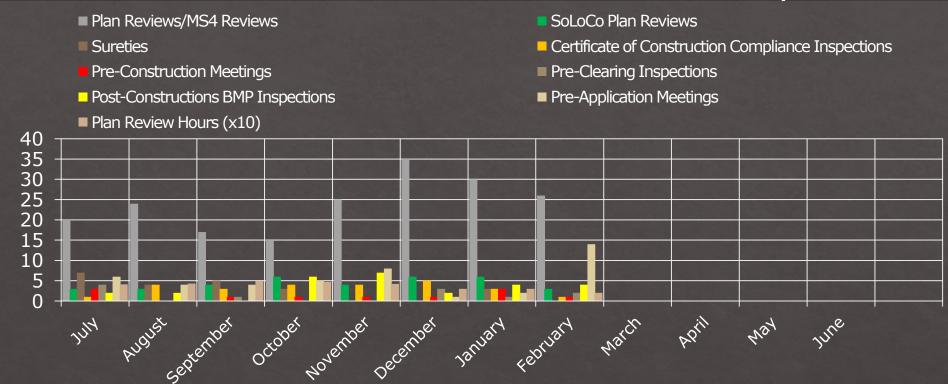
- Erosion & Sediment Control Inspections (E&SC)
- Number of Notice of Violation (NOV)
- Number of Citations Issued

- Number of Inspections Passed
- Number of Stop Work Orders (SWO)
- 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	1581	1342	215	24	0	467
FY 2022 Totals	3127	2701	392	49	0	673
FY 2021 Totals	1,805	1,527	267	32	4	413

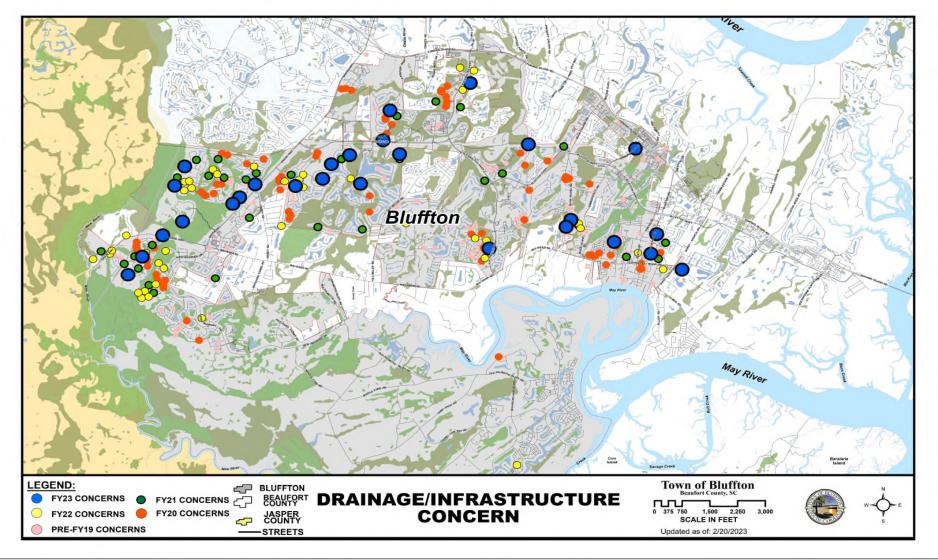
# MS4 Minimum Control Measure #5 Stormwater Plan Review & Related Activity



	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre- Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2023 YTD	192	35	22	25	11	11	27	44	302 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

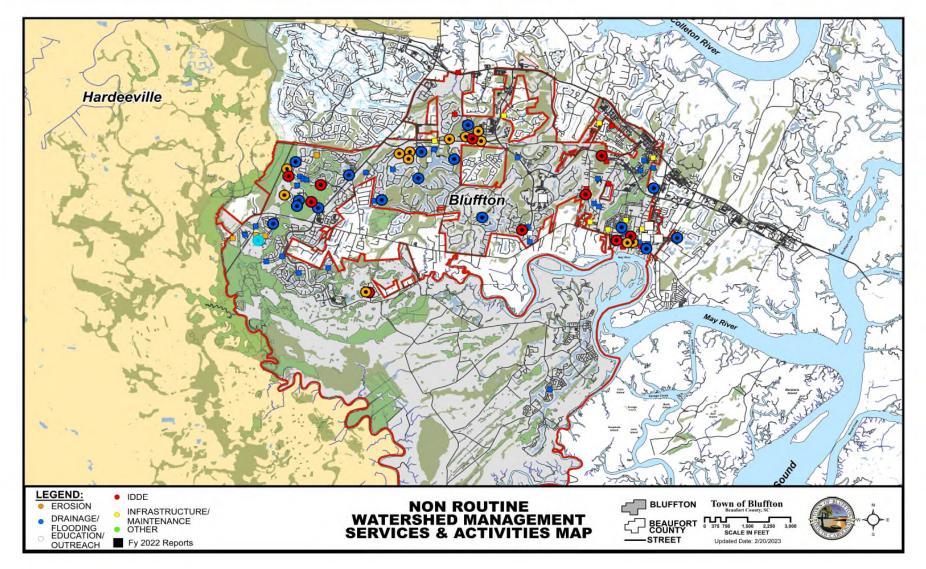
# Citizen Drainage, Maintenance and Inspections Concerns Map



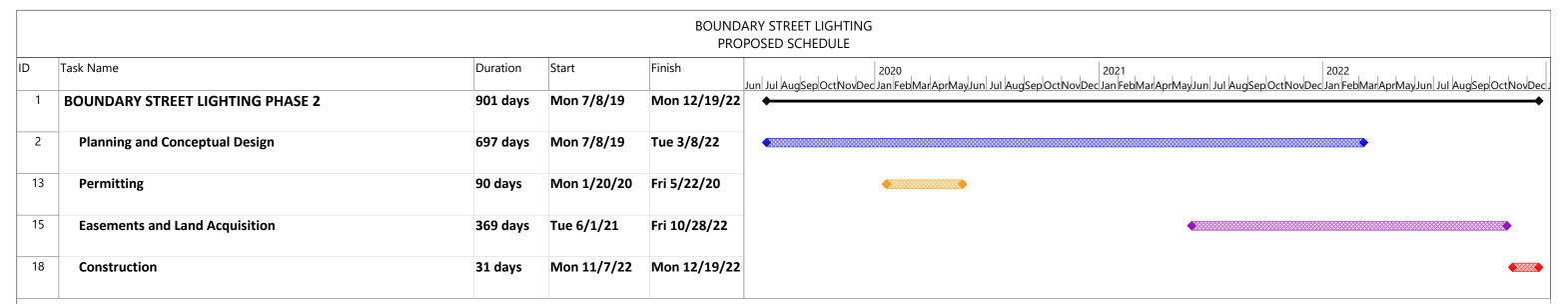
	Number of Drainage Concerns Investigated	Number of Meetings
FY 2023 YTD Totals	50	42
FY 2022 Totals	38	34
FY 2021 Totals	45	39

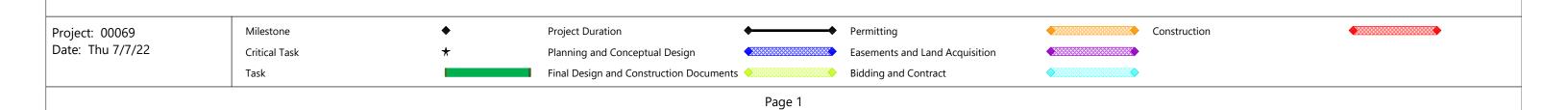
ATTACHMENT 8

<u>Citizen Request for Watershed Mngt. Services & Activities Map</u>



	Number of Citizen Requests Investigated	Number of Meetings
FY 2023 YTD Totals	8	10
FY 2022 Totals	33	21
FY 2021 Totals	46	36





#### BOUNDARY STREET STREETSCAPE PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessors	Finish	Quarte 4th Quarte 1st Quarte 2nd Quarte 3rd Quarte 4th Quarte 1st Quarte 2nd Quarte 3rd Quarte 4th Quarte 1st Quarte 1st Quarte 1st Quarte 2nd Quarte 2nd Quarte 4th Quarte 2nd Quarte 4th Quarte 2nd Quarte 2nd Quarte 3rd Quarte 4th Quarte 2nd Quarte 2nd Quarte 3rd Quarte 4th Quarte 2nd Quarte 2nd Quarte 3rd Quarte 2nd Quarte 2nd Quarte 3rd Quarte 4th Quarte 2nd Quarte 2nd Quarte 3rd Quarte 2nd Quarte 2nd Quarte 3rd Quarte 2nd Quarte 3rd Quarte 3rd Quarte 2nd Quarte 3rd Quarte 2nd Quarte 3rd Quarte 2nd Quarte 3rd
1	BOUNDARY STREET STREETSCAPE	689 days	Mon 9/7/20		Thu 4/27/23	<b>♦</b>
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	

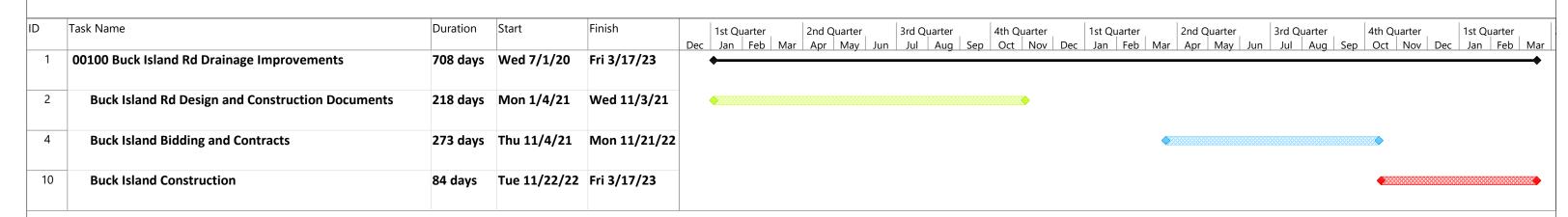
Permitting  $\Diamond$ Task Baseline Baseline Milestone Project: 00094 Project Duration → Bidding and Contract **Baseline Summary** Date: Tue 2/21/23 Planning and Conceptual Design **Easements and Land Acquisitions** Milestone Final Design and Construction Documents Critical Task Construction

#### BRIDGE STREET STREETSCAPE PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	September   October   November   December   January   February   March   April   May   June   July   August   September   October   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   4/30   5/14   5/28   6/11   6/25   7/9   7/23   8/6   8/20   9/3   9/17   10/1   10/15   1
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	

Project: 00082 Milestone **Project Duration** Permitting Construction Date: Tue 2/21/23 Critical Task Planning and Conceptual Design Easements and Land Acquisition Final Design and Construction Documents Bidding and Contracts Task

### BUCK ISLAND ROAD DRAINAGE IMPROVEMENTS PROPOSED SCHEDULE



Project: 00100
Date: Tue 2/21/23

Milestone
Critical Task
Task
Task
Final Design and Construction Documents

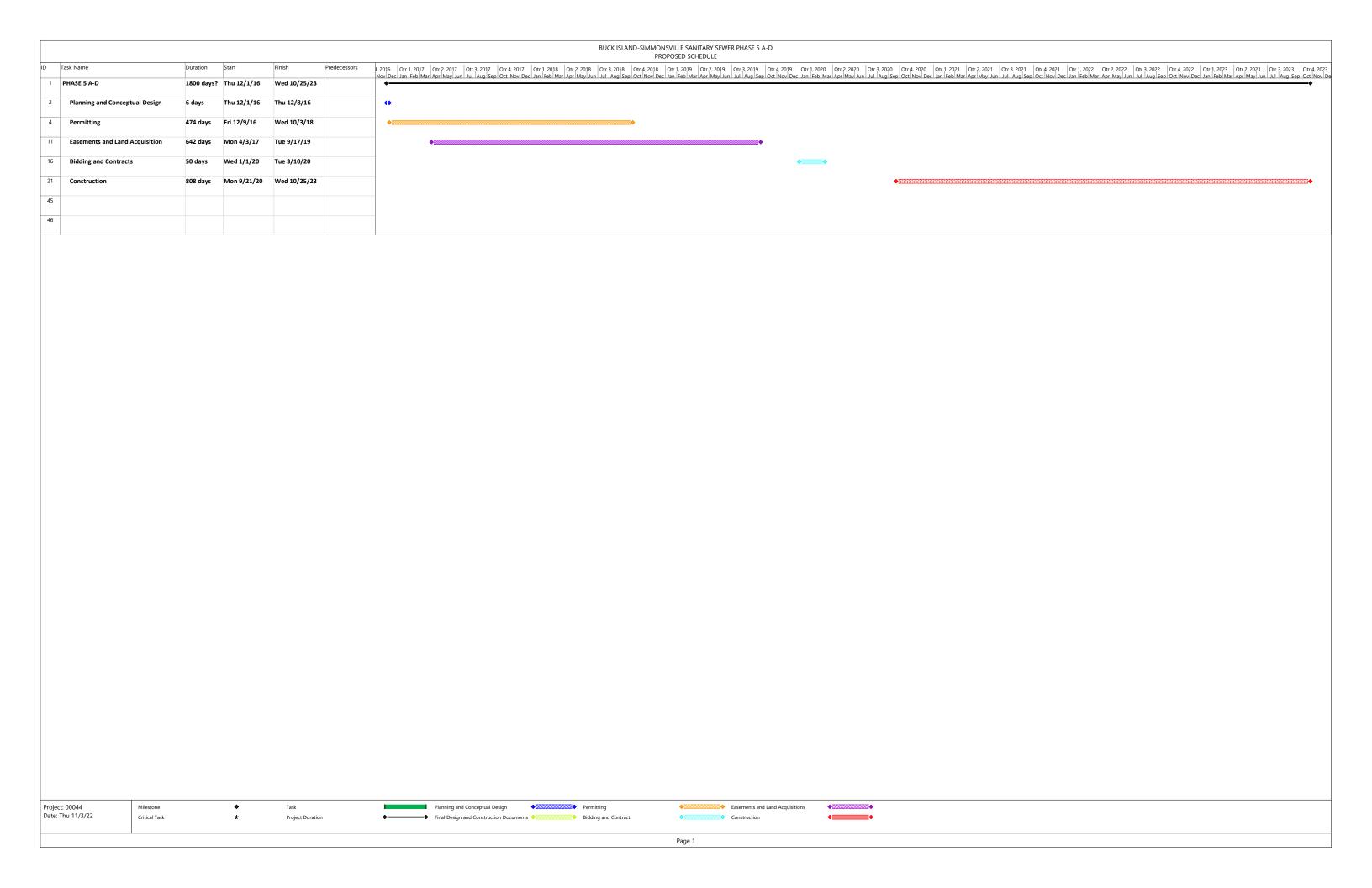
Permitting
Construction

Construction

Construction

Construction

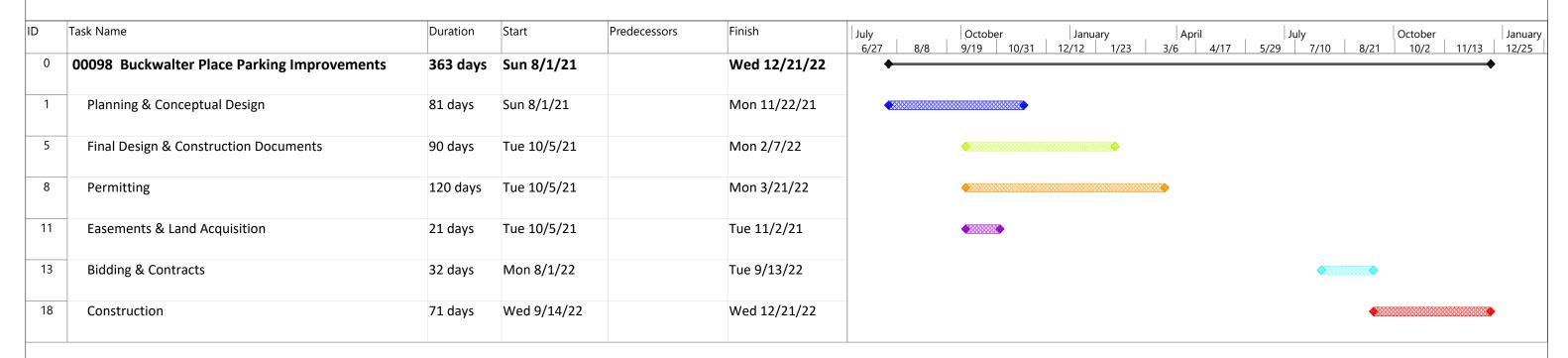
Easements and Land Acquisitions



## BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS PROPOSED SCHEDULE



## 184 BLUFFTON ROAD PARKING IMPROVEMENTS PROPOSED SCHEDULE



Project: 00064
Date: Thu 7/7/22

Milestone

Critical Task

Task

Milestone

Project Duration

Permitting

Construction

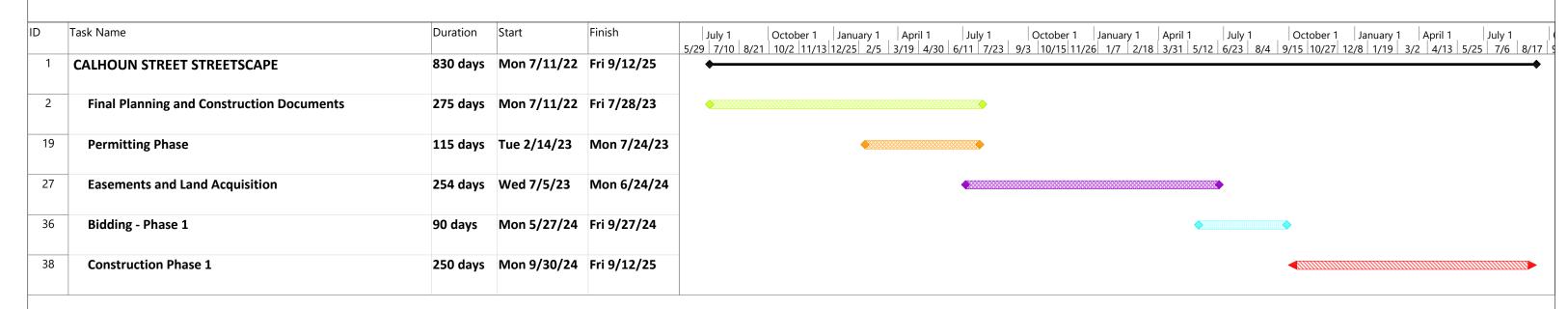
Permitting

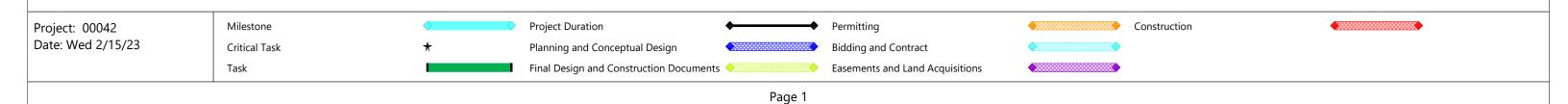
Easements and Land Acquisition

Bidding and Contracts

Bidding and Contracts

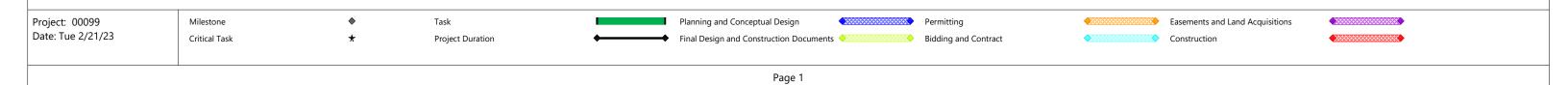
# CALHOUN STREET STREETSCAPE PROPOSED SCHEDULE



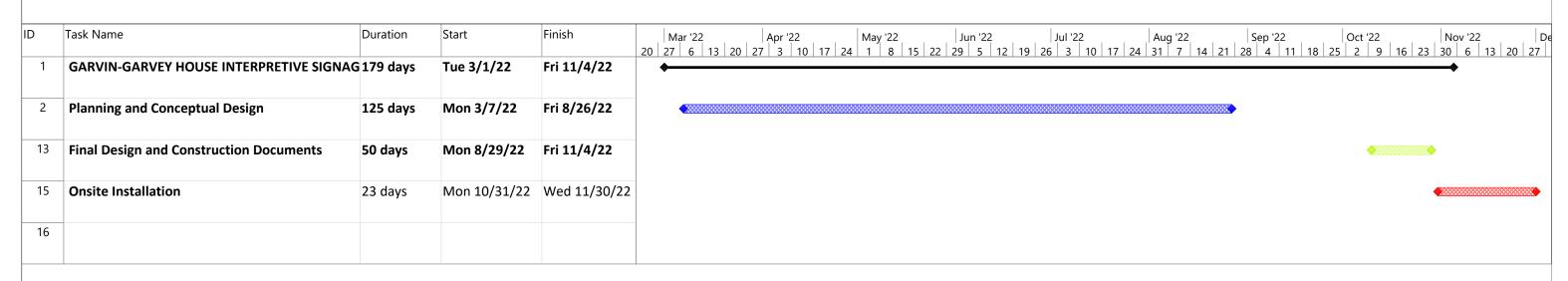


#### COMPREHENSIVE DRAINAGE PLAN IMPROVEMENTS PROPOSED SCHEDULE

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 3, 2022 Qtr 4, 2022 Qtr 1, 2023 Qtr 2, 2023 Qtr 3, 2024 Qtr 3, 2024 Qtr 3, 2024 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 3, 2026 Qtr 4, 2025 Qtr 3, 2026 Qtr 3, 2026 Qtr 4, 2025 Qtr 2, 2025 Qtr 3, 2025 Qtr 3, 2025 Qtr 4, 2025 Qtr 1, 2026 Qtr 3, 2026 Qtr 3, 2026 Qtr 4, 2025 Qtr 3, 2026 Qtr 3, 2026 Qtr 4, 2025 Qtr 3,
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	Final Design and Construction Documents	566 days	Mon 4/15/24	Mon 6/15/26	
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	



## GARVIN-GARVEY HOUSE INTERPRETIVE SIGNAGE PROPOSED SCHEDULE



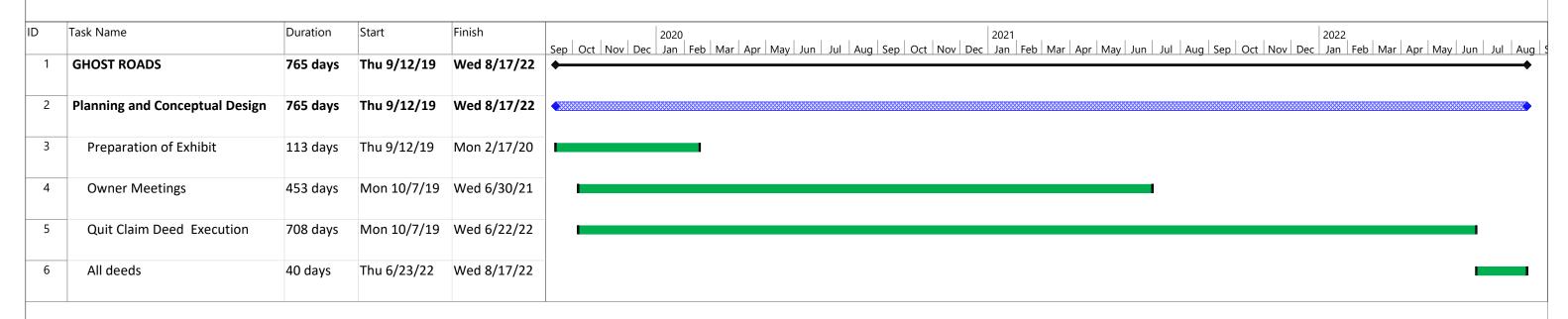
Project: 00081
Date: Mon 9/19/22

Milestone
Critical Task
Task
Planning and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisition
Bidding and Contracts

# GHOST ROADS PROPOSED SCHEDULE



Project: 00093
Date: Wed 11/23/22

Milestone
Critical Task
Task
Task

Project Duration
Permitting
Final Design and Conceptual Design
Planning and Construction Documents
Permitting
Final Design and Construction Documents
Permitting
Final Design and Construction Documents
Page 1

#### GOETHE-SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2 PROPOSED SCHEDULE Start Finish ID Task Name Duration 1, 2018 Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 2, 2021 Half 1, 2022 Half 2, 2022 Mar May Jul Sep Nov Jan GOETHE/SHULTS NEIGHBORHOOD IMPROVEMENTS 970 days Mon 4/30/18 Fri 1/14/22 PHASE 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 21 128 days Mon 5/18/20 Wed 11/11/20 PERMITTING 25 **EASEMENTS AND LAND ACQUISITION** 187 days Mon 4/6/20 Tue 12/22/20 **BIDDING AND CONTRACTS** 101 days Tue 12/1/20 Tue 4/20/21 CONSTRUCTION 468 days Wed 4/21/21 Fri 2/3/23

Project: 00055
Date: Mon 9/19/22

Miletstone
Critical Task
Planning and Conceptual Design
Final Design and Construction Documents
Bidding and Contracts

Construction

Construction

Bidding and Contracts

Construction

Construction

Construction

Construction

Documents

Bidding and Contracts

# HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 2 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Half 2, 2018 Half 1, 2019 Half 2, 2019 Half 1, 2020 Half 2, 2020 Half 1, 2021 Half 2, 2021 Half 1, 2022 Half 2, 2022 Half 1, 2023 Half 2, 2021 Half 2, 2022 Half 1, 2023 Half 2, 2021 Half 2, 2022 Half 2, 2022 Half 3, 2023 Half 2, 2021 Half 2, 2021 Half 3, 2022 Half 3, 2023 Half 3, 2023 Half 2, 2021 Half 3, 2022 Half 3, 2023 Half
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
Task
Planing and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisitions
Bidding and Contracts

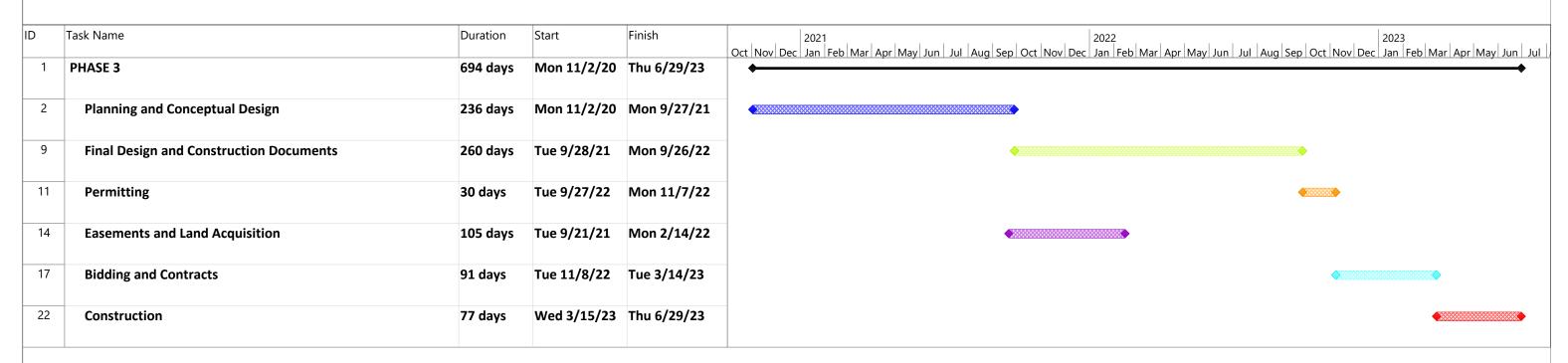
Permitting

Construction

Construction

Construction

## HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 3 PROPOSED SCHEDULE



Project: 00072
Date: Mon 2/20/23

Milestone
Critical Task
Task
Planing and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisitions
Bidding and Contracts

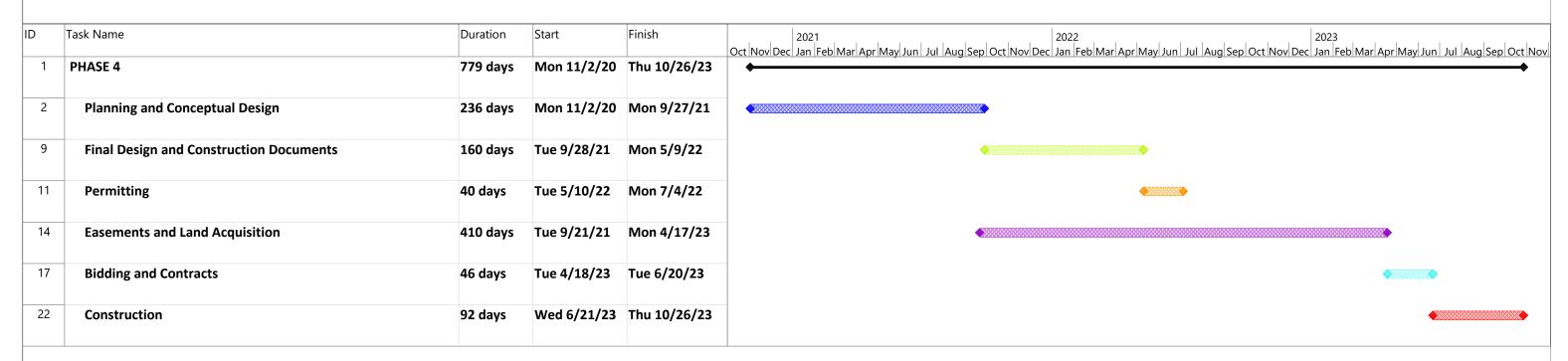
Permitting

Construction

Construction

Construction

## HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4 PROPOSED SCHEDULE



Project: 00073
Date: Tue 2/21/23

Milestone
Critical Task
Task
Planing and Conceptual Design
Final Design and Construction Documents

Permitting
Construction

Easements and Land Acquisitions
Bidding and Contracts

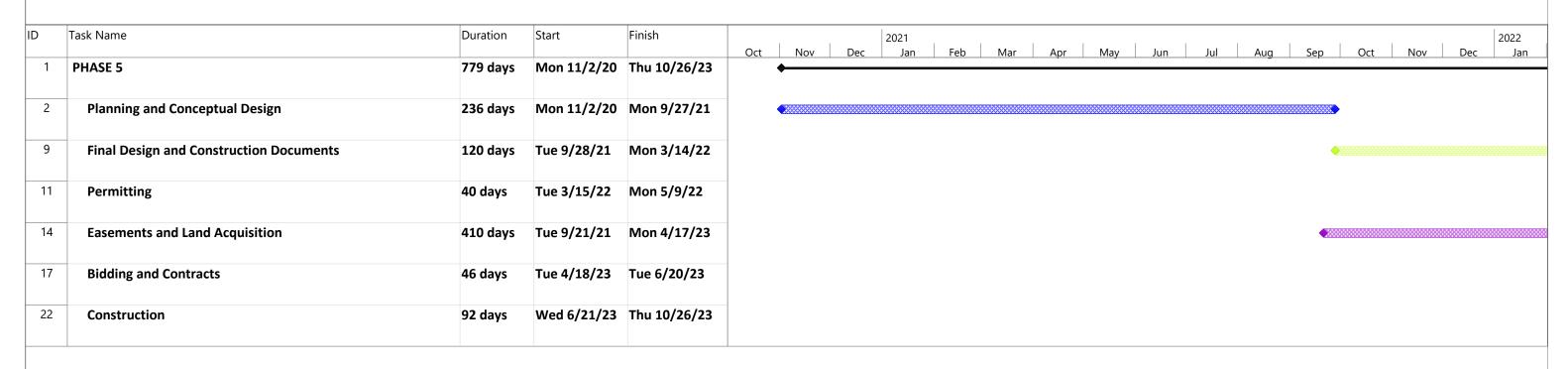
Permitting

Construction

Construction

Construction

### HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 5 PROPOSED SCHEDULE



Project: 00074
Date: Tue 2/21/23

Milestone
Critical Task
Task

Planing and Conceptual Design
Final Design and Construction Documents

Bidding and Contracts

Construction

Description

Permitting

Construction

Construction

Construction

Construction

Construction

Construction

Construction

# HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 6 PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Oct	Nov De	2021 ec Jan	Feb	Mar	Apr	Mav Jur	ı Jul	I Aua	Sep	Oct	Nov D	2022 ec Ja
1	PHASE 6	779 days	Mon 11/2/20	Thu 10/26/23			<b>*</b>											
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21			<b>₹</b>									•		
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
Task
Planing and Conceptual Design
Final Design and Construction Documents
Permitting
Easements and Land Acquisitions
Bidding and Contracts

Page 1

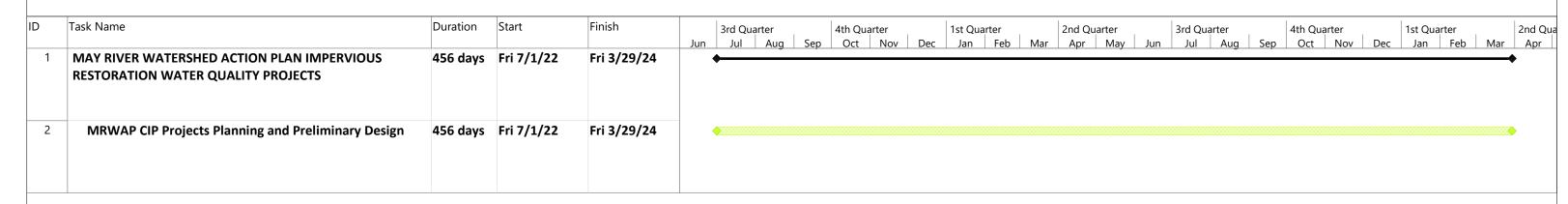
#### LAW ENFORCEMENT CENTER EXPANSION PROPOSED SCHEDULE

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 Quarte 4th Quarte 1st Quarte 4th Quarte 5cp Nov Jan Mar May Jul Sep Nov Jan Mar May Jul Sep Nov Jan Mar May Jul Sep Nov
1	LEC Expansion	1050 days	Wed 11/18/20	Tue 11/26/24	<b>♦</b>
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 Milestone **Project Duration** Permitting Construction Date: Tue 2/21/23 Critical Task Planning and Conceptual Design Easements and Land Acquisition Final Design and Construction Documents Bidding and Contracts Task Page 1

#### MAY RIVER ROAD POCKET PARK PROPOSED SCHEDULE Task Name Duration Start Finish | July | August | September | October | November | December | January | February | March | April | May | June | July | August | September | October | November | October | O Thu 7/1/21 Tue 11/8/22 1 MAY RIVER ROAD POCKET PARK 354 days Planning and Conceptual Design Thu 7/1/21 Thu 9/2/21 46 days **Final Planning and Construction Documents** 140 days Fri 9/3/21 Thu 3/17/22 94 days Mon 11/29/21 Thu 4/7/22 Permitting **Bidding and Contract** 48 days Fri 3/18/22 Tue 5/24/22 Construction 106 days Tue 6/14/22 Tue 11/8/22 Project: 00080 Date: Wed 11/23/22 Planning and Conceptual Design ◆ Easements and Land Acquisitions → Final Design and Construction Documents ◆ Bidding and Contract ◆ Construction Critical Task Project Duration Page 1

### MAY RIVER WATERSHED ACTION PLAN IMPERVIOUS WATER QUALITY PROJECTS PROPOSED SCHEDULE



Project: 00105
Date: Tue 2/21/23

Milestone

Critical Task

Task

Milestone

Project Duration

Permitting

Construction

Permitting

Bidding and Contract

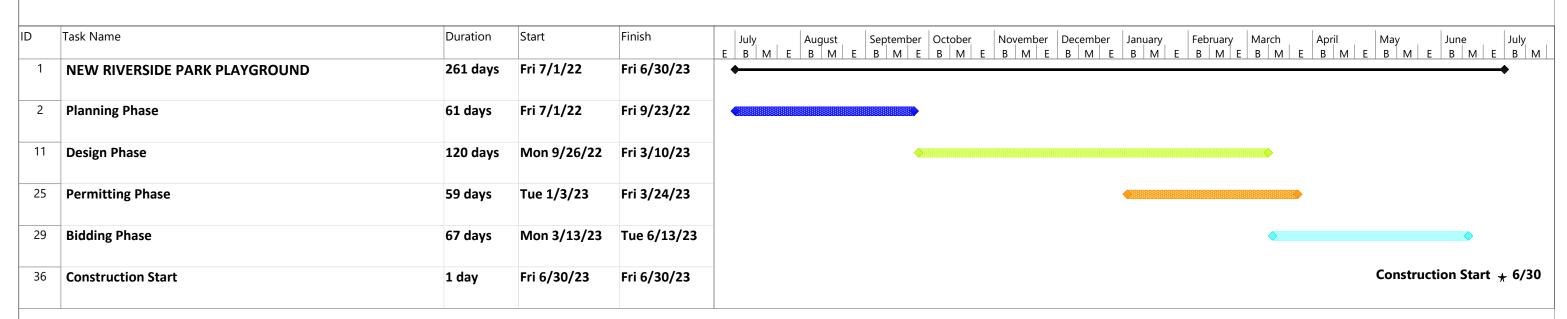
Easements and Land Acquisitions

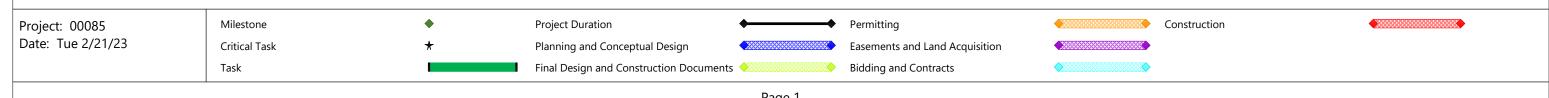
Easements and Land Acquisitions

			NEW RIVER LINEAR TRAIL
			PROPOSED SCHEDULE
Task Name  NEW RIVER LINEAR TRAIL  Planning	Mon 7/5/21	Finish  Tue 11/14/23  Mon 12/20/21	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 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 J
4 Final Planning and Construction Documents	Fri 7/1/22	Fri 2/10/23	
7 Permitting	Thu 2/2/23	Thu 7/20/23	
Bidding and Contracts		Thu 10/5/23	
9 Submit Contract for TC Approval		Tue 11/14/23	
2			
3			
4			
5			
6			
oject 00092 Project Duration e 2/21/23 Task	Critical Task Milestone		★       Planning and Conceptual Design       ★       Permitting       Bidding and Contracts         ♦       Final Design and Construction Documents       Easements and Land Acquisition       Construction

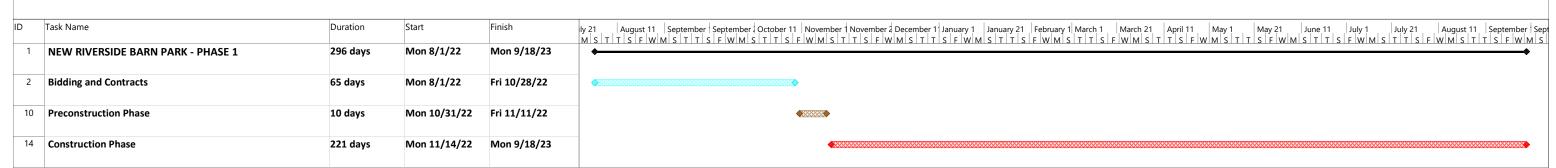
Page 1

# NEW RIVERSIDE PARK - PLAYGROUND AREA PROPOSED SCHEDULE



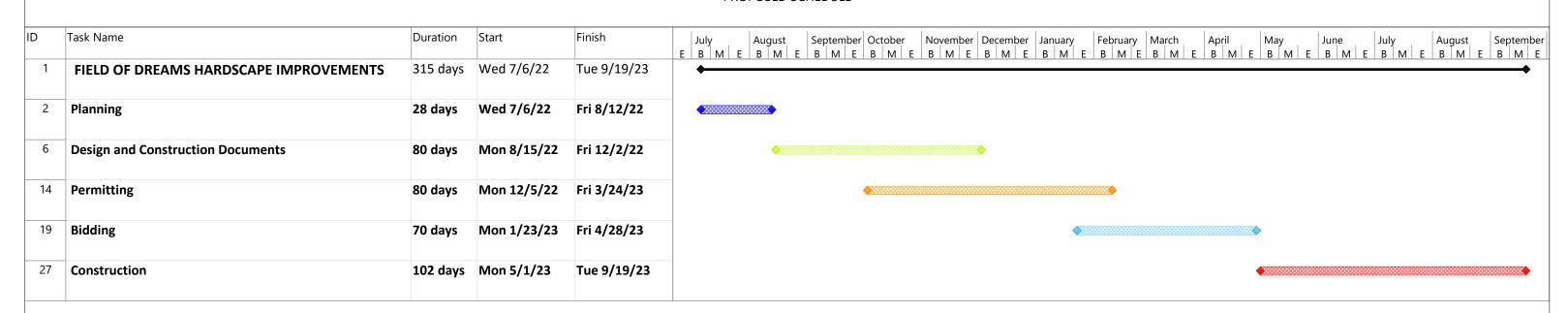


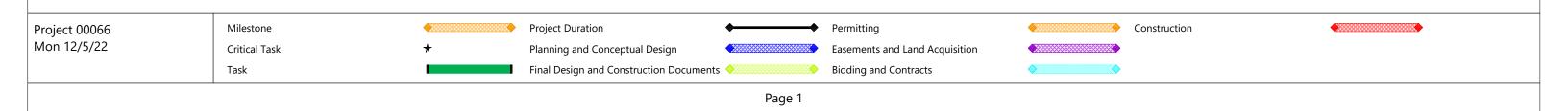
#### NEW RIVERSIDE BARN PARK - PHASE 1 PROPOSED SCHEDULE





# OSCAR FRAZIER PARK PROPOSED SCHEDULE

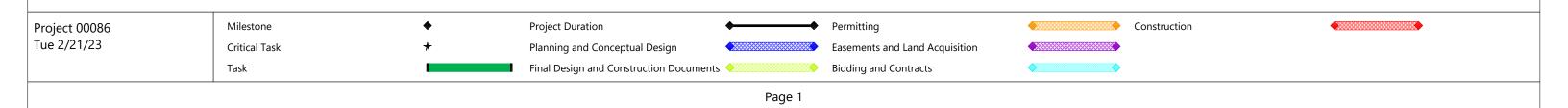




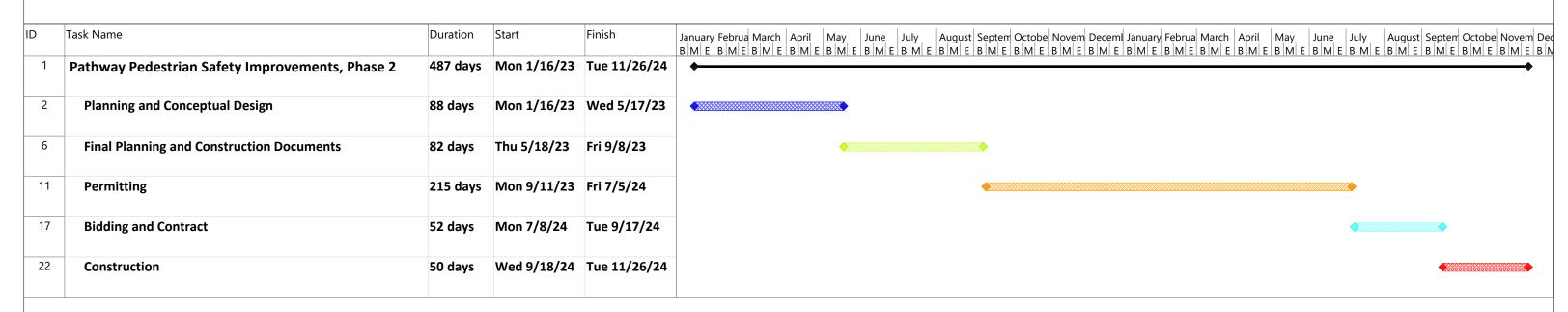
0 000	Name O059 Oyster Factory Parking Improvements		Start Mon 8/15/22	Finish  Mon 5/8/23	ust   September   October   November   December   January   February   March   April   May 8/7   8/14   8/21   8/28   9/4   9/11   9/18   9/25   10/2   10/9   10/16   10/2   10/3   11/6   11/13   1/2   1/27   12/4   12/11   1/28   1/25   1/1   1/8   1/15   1/22   1/29   2/5   2/12   2/19   2/26   3/5   3/12   3/19   3/26   4/2   4/9   4/16   4/23   4/30
		191 days	Mon 8/15/22	Mon 5/8/23	
1 0					
	Oyster Factory Park	191 days	Mon 8/15/22	Mon 5/8/23	+
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	

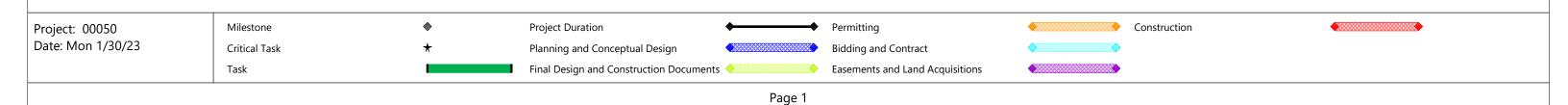
Project: 00059
Date: Wed 11/23/22
Critical Task
Planning and Conceptual Design
Final Design and Construction Documents
Bidding and Contracts
Construction

#### PARK IMPROVEMENTS PROPOSED SCHEDULE Task Name Start Finish August 2022 September 202 October 2022 November 202 December 2022 January 2023 February 2023 March 2023 April 2023 May 2023 June 2023 E B M E B Duration July 2 **PARK IMPROVEMENTS - FY 23** 240 days Mon 8/1/22 Fri 6/30/23 **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

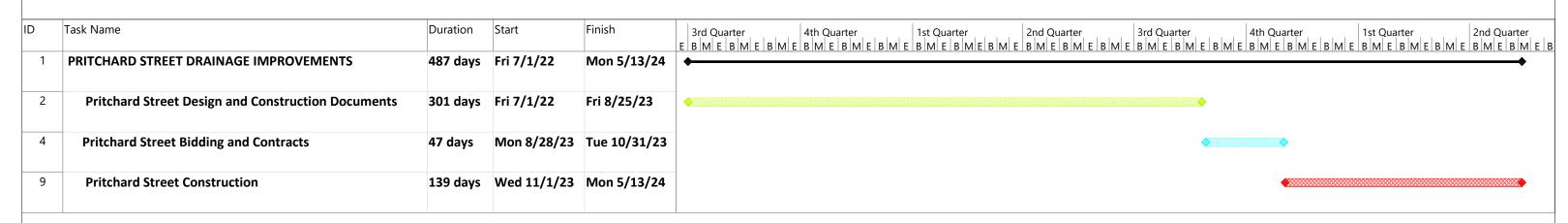


## PATHWAY PEDESTRIAN SAFETY IMPROVEMENTS, PHASE 2 PROPOSED SCHEDULE





# PRITCHARD STREET DRAINAGE IMPROVEMENTS PROPOSED SCHEDULE



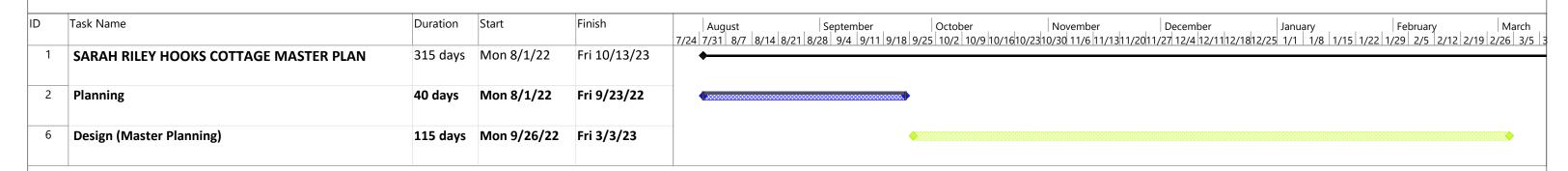
Project: 00106
Date: Tue 2/21/23

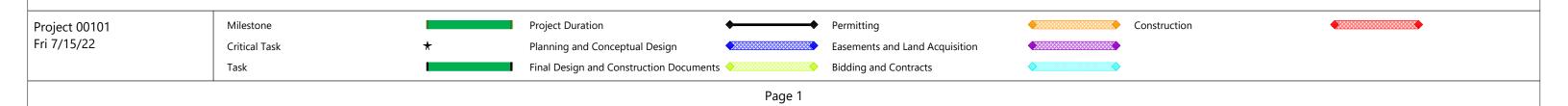
Milestone
Critical Task
Task
Planning and Conceptual Design
Final Design and Construction Documents
Permitting
Construction

Bidding and Contract
Easements and Land Acquisitions

Page 1

#### SARAH RILEY HOOKS MASTER PLANNING FY 23 PROPOSED SCHEDULE





#### SQUIRE POPE CARRIAGE HOUSE PROPOSED SCHEDULE Task Name Duration Finish 3rd Quarter 4th Quarter 1st Quarter 3rd Quarter 4th Quarter th Quarter 1st Quarter 2nd Quarter 2nd 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 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 M **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 4 494 days Tue 1/24/23 Fri 12/13/24 Construction

Project: 00067
Date: Mon 1/30/23

Milestone
Critical Task
Task

Milestone
Critical Task
Final Design and Construction Documents
Final Design and Final Design and Construction Documents
Final Design and F

#### WHARF STREET LIGHTING PROPOSED SCHEDULE ID Finish Task Name Duration 2023 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 WHARF STREET LIGHTING Mon 7/5/21 Fri 1/12/24 660 days **Planning and Conceptual Design** 2 352 days Mon 7/5/21 Tue 11/8/22 Wed 11/9/22 Tue 3/14/23 12 Permitting 90 days 14 **Easements and Land Acquisition 160 days** Wed 11/9/22 Tue 6/20/23 17 Construction 135 days Mon 7/10/23 Fri 1/12/24

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



Date: March 1, 2023

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

#### Re: Maintenance Project Report

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

#### **Major Projects:**

- Community Center Road Sheldon (5): This project improved 4,312 linear feet of drainage system. The scope of work included cleaning out 4,312 linear feet of roadside ditch and jetting (32) driveway pipes and (2) crossline pipes. The total cost was \$16,570.68.
- Fish Haul Road Hilton Head Island (3): This project improved 3,332 linear feet of drainage system. The scope of work included cleaning out 3,332 linear feet of roadside ditch and hydroseeded for erosion control. The total cost was \$31,682.22.

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

- Flamingo Cove Lady's Island (7): This project improved 248 linear feet of drainage system. The scope of work included cleaning out 248 linear feet of roadside ditch and jetting (2) driveway pipes. The total cost was \$2,405.02
- Old Shell Road Port Royal Island (9): The scope of work included installing a French drain. The total cost was \$4,835.69.
- Pinewood Circle Port Royal Island (6): The scope of work included removing debris from flowline. The total cost was \$1,715.17.
- Quail Ridge Loop Port Royal Island (6) This project improved 40 linear feet of drainage system. The scope of work included cleaning out 40 linear feet of roadside ditch. The total cost was \$1,324.72.
- Cherokee Farms Road Channel and Canavan Place Port Royal Island (6): This project improved 3,054 linear feet of drainage system. The scope of work included cleaning out 1,185 linear feet of roadside ditch and 1,869 linear feet of channel ditch. The total cost was \$11,428.17.

- Brickyard Hills Drive Lady's Island (7): This project improved 137 linear feet of drainage system. The scope of work included cleaning out 137 linear feet of roadside ditch. The total cost was \$1,535.97.
- Sugaree Drive Blufton (4): This project improved 1,289 linear feet of drainage system. The scope of work included cleaning out 1,069 linear feet of roadside ditch and jetting (16) driveway pipes, (2) crossline pipes and 220 linear feet of roadside pipe. The total cost was \$11,102.14.
- Kato Lane Channel Port Royal Island (6): This project improved 2,827 linear feet of drainage system. The scope of work included cleaning out 2,127 linear feet of channel ditch and reconstructed 700 linear feet of channel. The total cost was \$11,984.41.
- Quarter Horse Road Port Royal Island (6): This project improved 118 linear feet of drainage system. The scope of work included cleaning out 118 linear feet of roadside ditch and replacing (1) driveway pipe and installing rip rap for erosion control. The total cost was \$6,473.30.



Project Summary: Community Center Road

Activity: Routine/Preventive Maintenance

**Duration:** 09/14/2022 - 12/15/2022

#### **Narrative Description of Project:**

Project improved 4,312 L.F. of drainage system. Cleaned out 4,312 L.F. of roadside ditch and jetted (32) driveway pipes and (2) crossline pipes.

2023-528 / Community Center Road	Labor	Labor	Equipment	Material	Contractor	Indirect	Total
	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	2.00	\$65.48	\$0.00	\$0.00	\$0.00	\$40.42	\$105.90
DPJT / Driveway Pipe - Jetted	24.00	\$755.05	\$512.04	\$184.68	\$0.00	\$466.08	\$1,917.85
HAUL / Hauling	52.00	\$1,558.44	\$991.12	\$694.96	\$0.00	\$0.00	\$3,244.52
ONJV / Onsite Job Visit	25.00	\$1,043.00	\$108.75	\$37.70	\$0.00	\$0.00	\$1,189.45
PRRECON / Project Reconnaissance	32.00	\$804.75	\$187.28	\$39.34	\$0.00	\$389.52	\$1,420.89
RSDCL / Roadside Ditch - Cleanout	172.00	\$4,394.09	\$1,287.24	\$454.43	\$0.00	\$2,337.12	\$8,472.88
UTLOC / Utility locates	4.50	\$187.74	\$17.40	\$14.05	\$0.00	\$0.00	\$219.19
Grand Total	311.50	\$8,808.55	\$3,103.83	\$1,425.16	\$0.00	\$3,233.14	\$16,570.68

#### **Before**

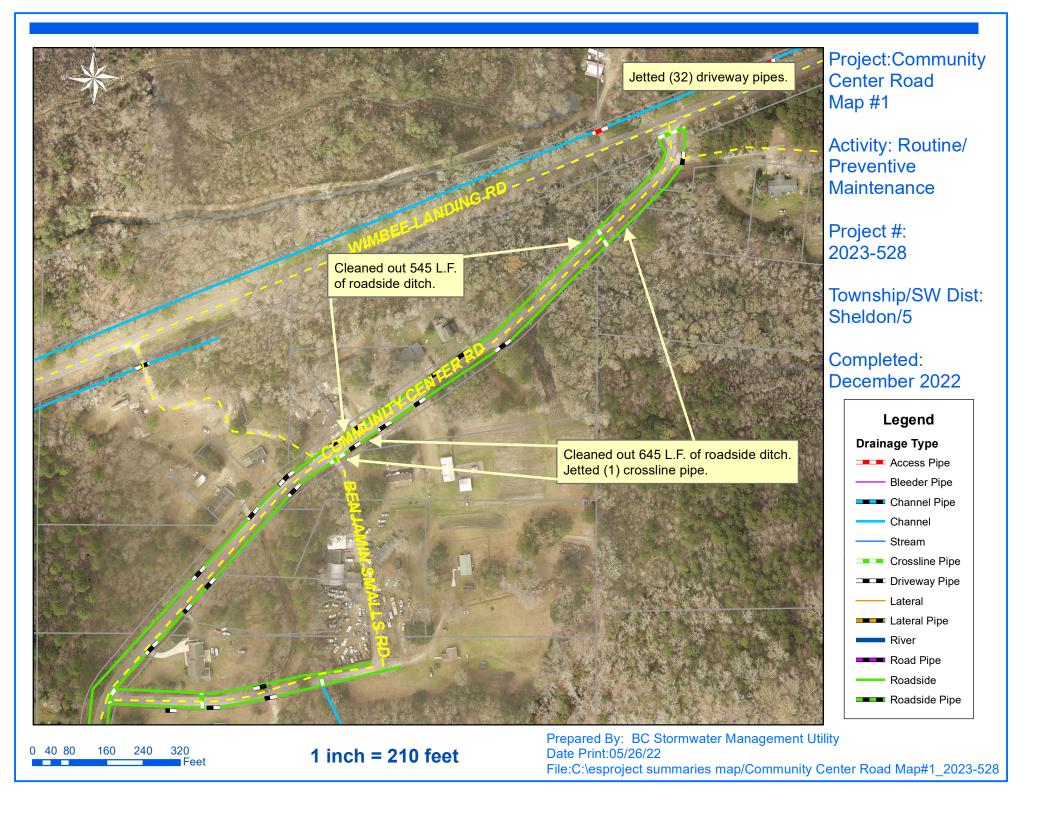


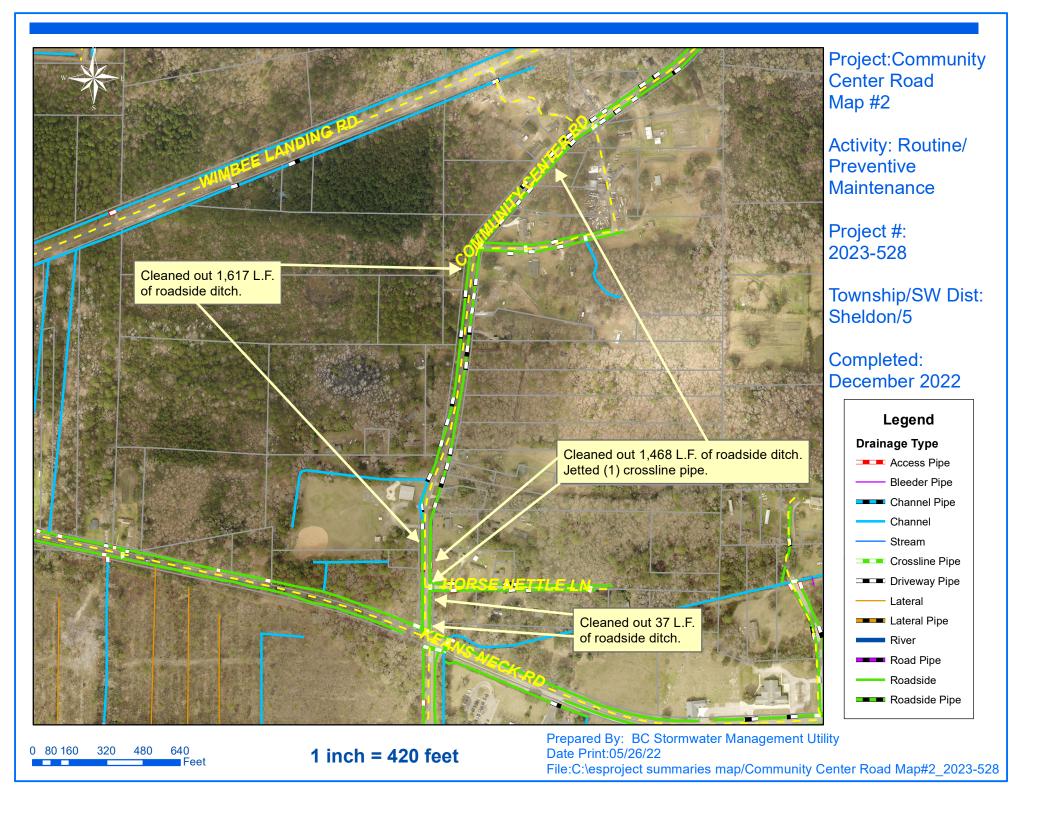
### **During**

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#### **After**









Project Summary: Fish Haul Road Activity: Routine/Preventive Maintenance

**Duration:** 06/28/2022 - 10/13/2022

#### **Narrative Description of Project:**

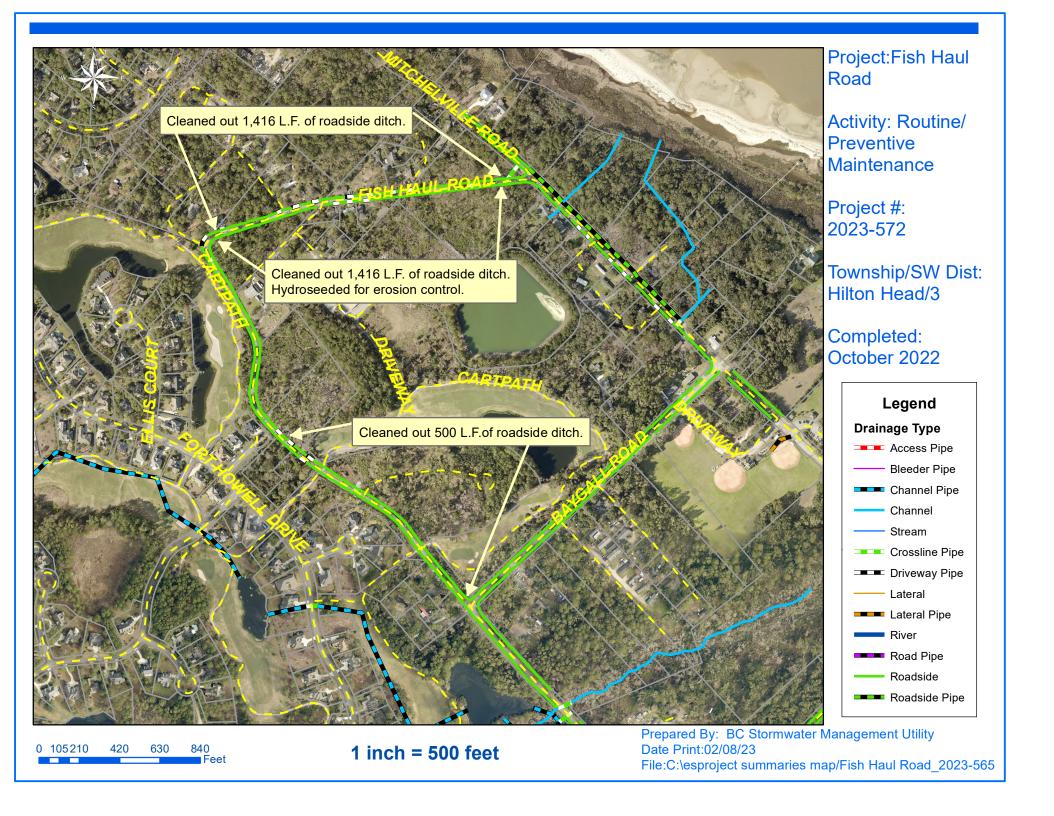
Project improved 3,332 L.F. of drainage system. Cleaned out 3,332 L.F. of roadside ditch and hydroseeded for erosion control.

2023-572 / Fish Haul Road	Labor	Labor	<b>Equipment</b>	Material	Contractor	Indirect	Total
	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	2.00	\$65.48	\$0.00	\$0.00	\$0.00	\$40.42	\$105.90
HAUL / Hauling	124.00	\$3,895.09	\$4,059.12	\$1,322.41	\$0.00	\$2,404.32	\$11,680.94
HEQ / Haul equipment	4.00	\$132.60	\$76.24	\$78.60	\$0.00	\$81.84	\$369.28
HYDR / Hydroseeding	40.00	\$1,105.55	\$151.24	\$653.25	\$0.00	\$467.92	\$2,377.96
ONJV / Onsite Job Visit	17.00	\$709.24	\$73.95	\$72.70	\$0.00	\$106.60	\$962.49
RSDCL / Roadside Ditch - Cleanout	344.00	\$9,657.63	\$1,121.95	\$937.25	\$0.00	\$4,406.24	\$16,123.07
UTLOC / Utility locates	1.50	\$62.58	\$0.00	\$0.00	\$0.00	\$0.00	\$62.58
Grand Total	532.50	\$15,628.17	\$5,482.50	\$3,064.21	\$0.00	\$7,507.34	\$31,682.22











**Project Summary:** Flamingo Cove Activity: Routine/Preventive Maintenance

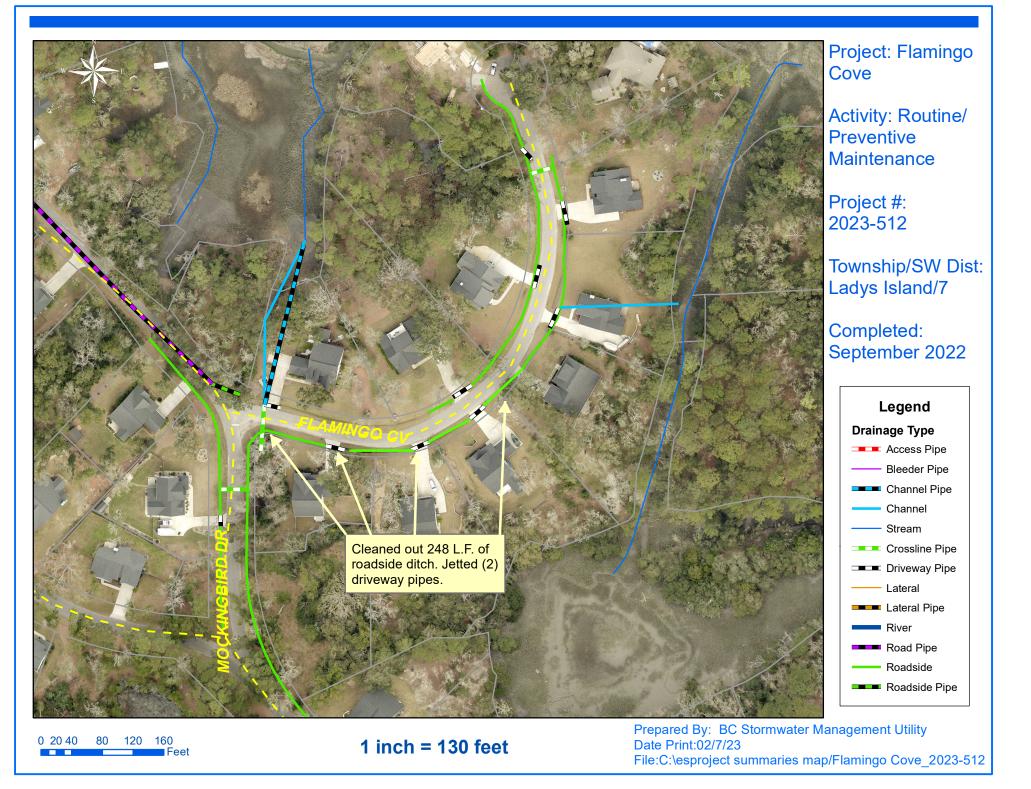
**Duration:** 08/24/2022 - 09/13/2022

#### **Narrative Description of Project:**

Project improved 248 L.F. of drainage system. Cleaned out 248 L.F. of roadside ditch and jetted (2) driveway pipes.

2023-512 / Flamingo Cove	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
DPJT / Driveway Pipe - Jetted	12.00	\$338.56	\$153.28	\$46.20	\$0.00	\$155.36	\$693.40
HAUL / Hauling	8.00	\$217.73	\$152.48	\$43.23	\$0.00	\$134.40	\$547.84
ONJV / Onsite Job Visit	5.00	\$208.60	\$21.75	\$14.95	\$0.00	\$0.00	\$245.30
RSDCL / Roadside Ditch - Cleanout	15.00	\$417.78	\$122.07	\$46.92	\$0.00	\$257.90	\$844.67
UTLOC / Utility locates	0.50	\$20.86	\$0.00	\$0.00	\$0.00	\$0.00	\$20.86
Grand Total	41.50	\$1,236.27	\$449.58	\$151.30	\$0.00	\$567.87	\$2,405.02

# (No Pictures Available)





Project Summary: Old Shell Road Activity: Routine/Preventive Maintenance

**Duration:** 09/06/2022 - 12/07/2022

#### **Narrative Description of Project:**

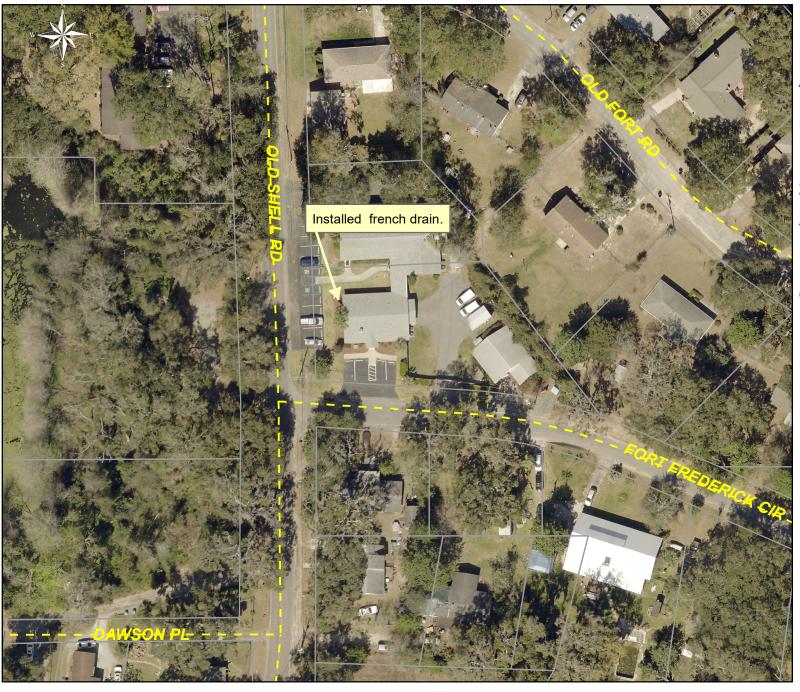
Installed a french drain.

2023-516 / Old Shell Road	Labor	Labor	<b>Equipment</b>	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
FDINST / French Drain - Installed	16.00	\$376.16	\$34.80	\$927.96	\$0.00	\$124.96	\$1,463.88
HAUL / Hauling	4.00	\$119.88	\$76.24	\$791.34	\$0.00	\$0.00	\$987.46
ONJV / Onsite Job Visit	8.00	\$333.76	\$34.80	\$12.71	\$0.00	\$0.00	\$381.27
PA / Project Assit	24.00	\$630.99	\$185.28	\$84.60	\$0.00	\$389.52	\$1,290.39
STAGING / Staging Materials/Equipment	18.00	\$459.60	\$43.50	\$31.68	\$0.00	\$124.96	\$659.74
Grand Total	71.00	\$1,953.13	\$374.62	\$1,848.29	\$0.00	\$659.65	\$4,835.69









Project: Old Shell Road

Activity: Routine/ Preventive Maintenance

Project #: 2023-516

Township/SW Dist: Port Royal Island/9

Completed: December 2022

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

Prepared By: BC Stormwater Management Utility Date Print:02/7/23

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**Project Summary:** Pinewood Circle

Activity: Routine/Preventive Maintenance

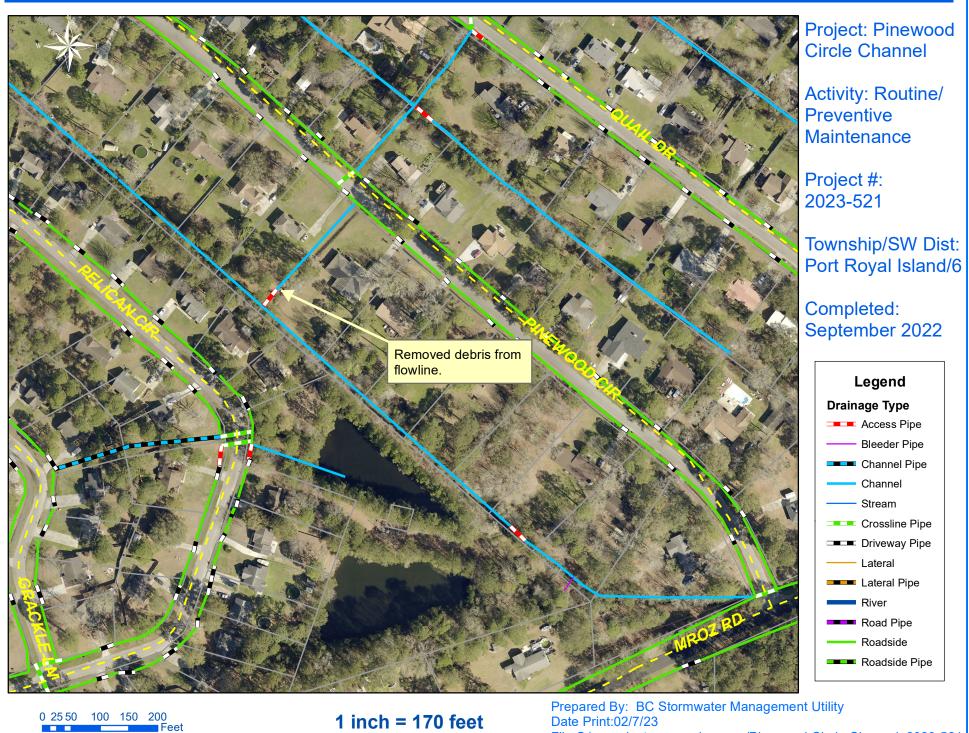
**Duration:** 09/06/2022 - 09/15/2022

#### **Narrative Description of Project:**

Removed debris from channel to improve flow.

2023-521 / Pinewood Circle	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
DEBRIS / Debris Removal	32.00	\$804.75	\$34.80	\$0.00	\$0.00	\$389.52	\$1,229.07
HAUL / Hauling	4.00	\$119.88	\$76.24	\$26.13	\$0.00	\$0.00	\$222.25
ONJV / Onsite Job Visit	4.00	\$166.88	\$17.40	\$5.76	\$0.00	\$0.00	\$190.04
UTLOC / Utility locates	0.50	\$20.86	\$0.00	\$0.00	\$0.00	\$0.00	\$20.86
Grand Total	41.50	\$1,145.11	\$128.44	\$31.89	\$0.00	\$409.73	\$1,715.17

## (No Pictures Available)



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**Project Summary:** Quail Ridge Loop

Activity: Routine/Preventive Maintenance

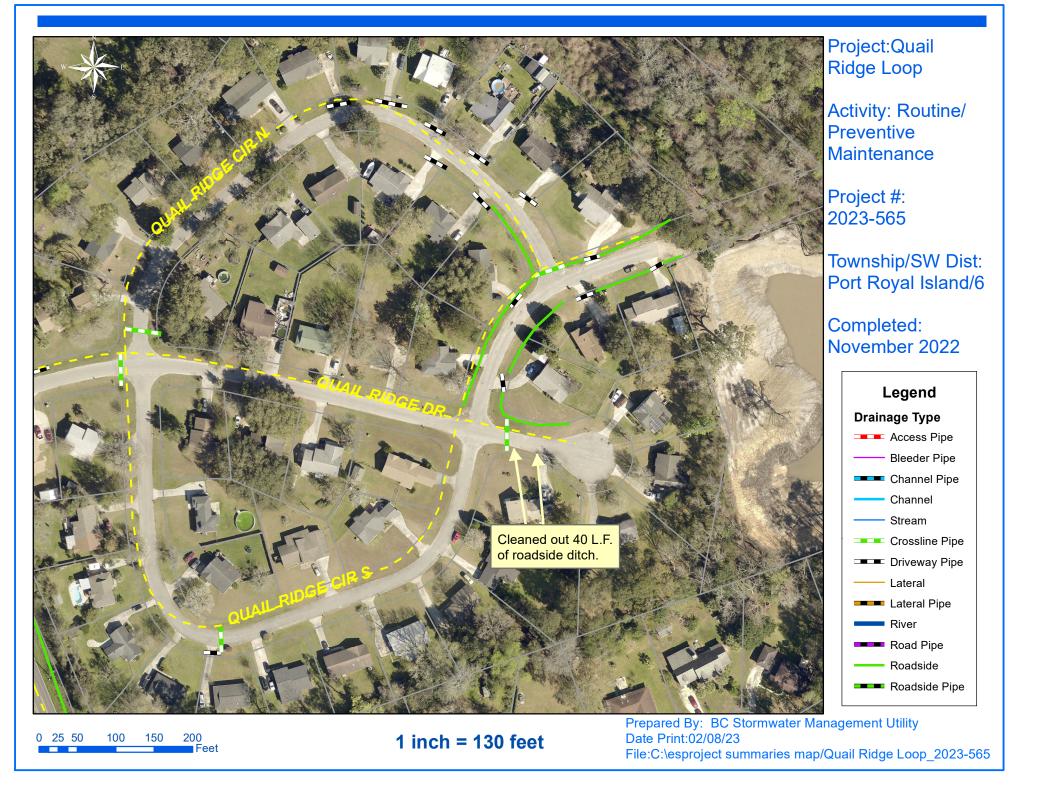
**Duration:** 06/06/2022 - 07/01/2022

#### **Narrative Description of Project:**

Project improved 40 L.F. of drainage system. Cleaned out 40 L.F. of roadside ditch.

2023-565 / Quail Ridge Farm	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
HAUL / Hauling	4.00	\$138.16	\$76.24	\$26.28	\$0.00	\$85.28	\$325.96
INSPRD / Inspection - Road	8.00	\$333.76	\$34.80	\$58.50	\$0.00	\$0.00	\$427.06
RSDCL / Roadside Ditch - Cleanout	8.00	\$273.40	\$38.87	\$37.72	\$0.00	\$168.76	\$518.75
UTLOC / Utility locates	0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
Grand Total	21.00	\$778.06	\$149.91	\$122.50	\$0.00	\$274.25	\$1,324.72

# (No Pictures Available)





Project Summary: Cherokee Farms Road Channel and

Canavan Place

**Activity:** Routine/Preventive Maintenance

**Duration:** 08/15/2022 - 11/14/2022

#### **Narrative Description of Project:**

Project improved 3,054 L.F. of drainage system. Cleaned out 1,185 L.F. of roadside ditch and 1,869 L.F. of channel.

2023-506 / Cherokee Farms Road	Labor	Labor	<b>Equipment</b>	Material	Contractor	Indirect	Total
	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	3.00	\$98.22	\$0.00	\$0.00	\$0.00	\$60.63	\$158.85
CCO / Channel - cleaned out	80.00	\$2,547.49	\$235.34	\$435.35	\$0.00	\$1,572.52	\$4,790.70
DITCHI / Ditch - Inspection	24.00	\$630.99	\$34.80	\$40.56	\$0.00	\$389.52	\$1,095.87
HAUL / Hauling	40.00	\$1,264.47	\$762.40	\$475.95	\$0.00	\$780.48	\$3,283.30
IUL / Infrastructure Utility Locating	2.00	\$86.76	\$0.00	\$0.00	\$0.00	\$53.56	\$140.32
RSDCL / Roadside Ditch - Cleanout	36.00	\$1,010.00	\$263.31	\$169.62	\$0.00	\$516.20	\$1,959.13
Grand Total	185.00	\$5,637.93	\$1,295.85	\$1,121.48	\$0.00	\$3,372.91	\$11,428.17

**Before** 

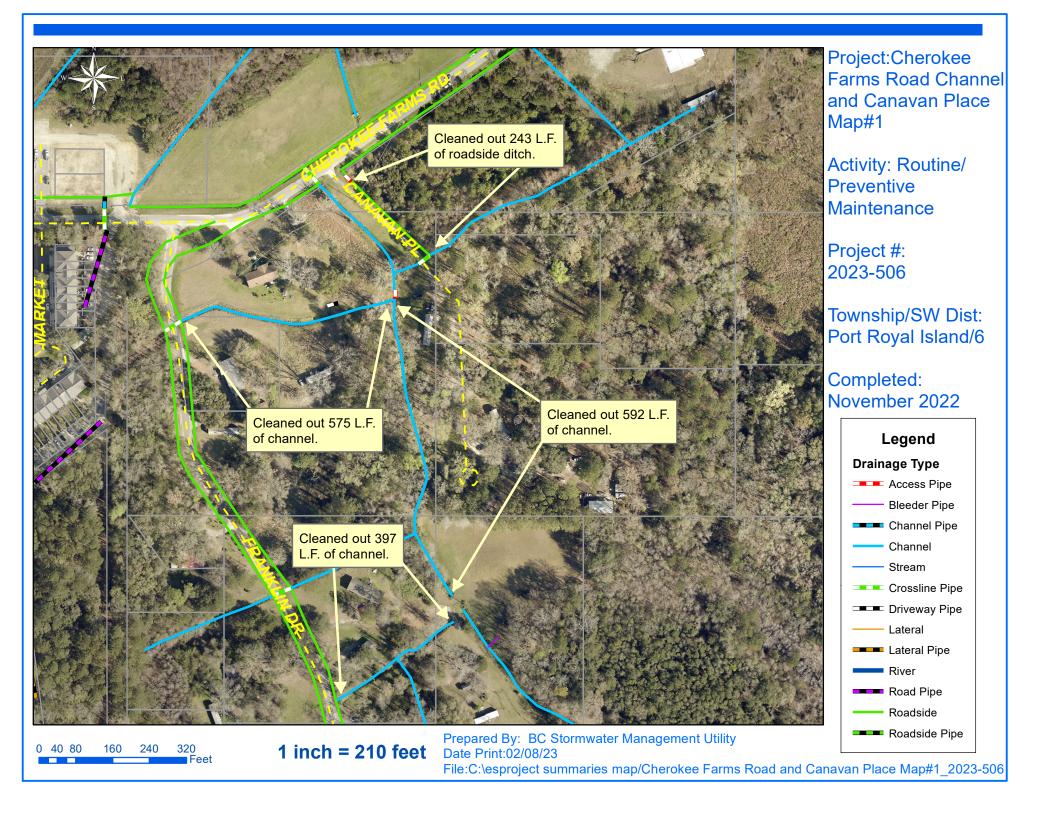


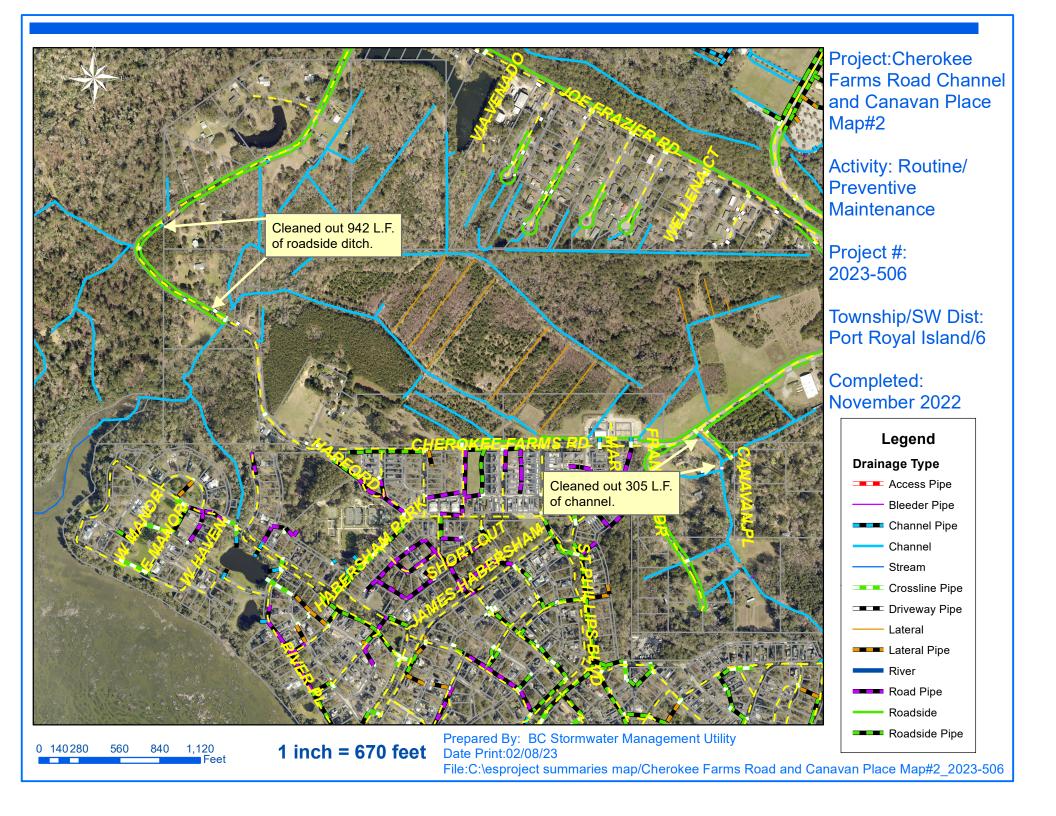














**Project Summary:** Brickyard Hills Drive **Activity:** Routine/Preventive Maintenance

**Duration:** 10/17/2022 - 11/18/2022

#### **Narrative Description of Project:**

Project improved 137 L.F. of drainage system. Cleaned out 137 L.F. of roadside ditch.

2023-542 / Brickyard Hills Drive	Labor	Labor	Equipment	Material	Contractor	Indirect	Total
	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	0.50	\$16.37	\$0.00	\$0.00	\$0.00	\$10.11	\$26.48
HAUL / Hauling	8.00	\$244.72	\$152.48	\$61.88	\$0.00	\$151.04	\$610.12
ONJV / Onsite Job Visit	4.00	\$166.88	\$17.40	\$8.70	\$0.00	\$0.00	\$192.98
RSDCL / Roadside Ditch - Cleanout	12.00	\$315.49	\$117.72	\$57.56	\$0.00	\$194.76	\$685.53
UTLOC / Utility locates	0.50	\$20.86	\$0.00	\$0.00	\$0.00	\$0.00	\$20.86
Grand Total	25.00	\$764.32	\$287.60	\$128.14	\$0.00	\$355.91	\$1,535.97









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**Project Summary:** Sugaree Drive Activity: Routine/Preventive Maintenance

**Duration:** 09/22/2022 - 12/09/2022

#### **Narrative Description of Project:**

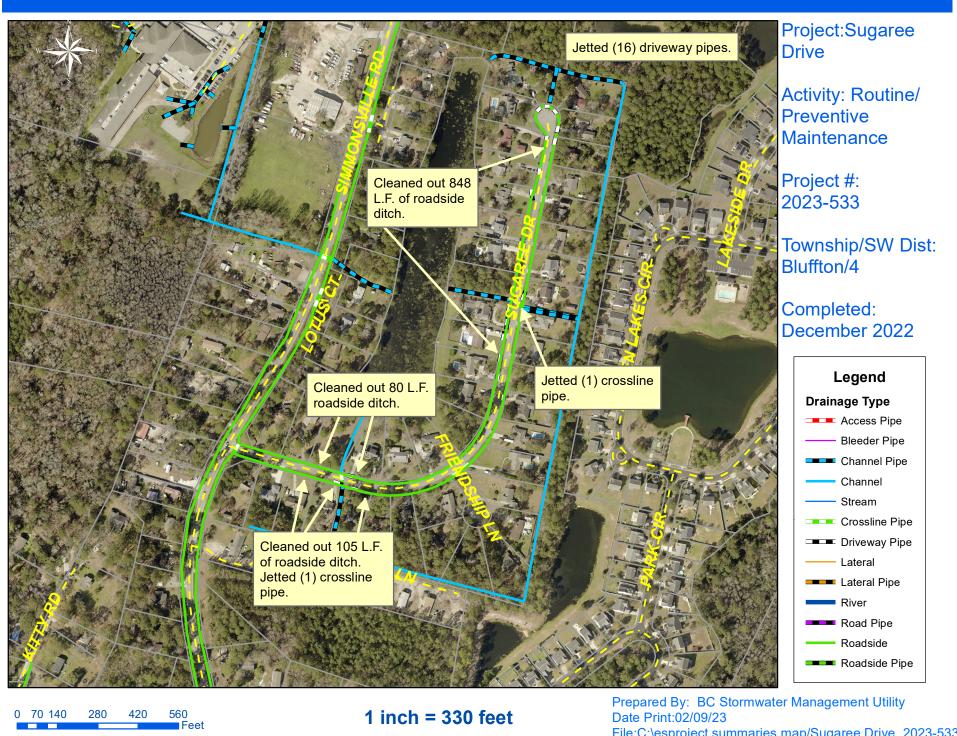
Project improved 1,289 L.F. of drainage system. Cleaned out 1,069 L.F. of roadside ditch and jetted (16) driveway pipes, (2) crossline pipes and 220 L.F. of roadside pipe.

2023-533 / Sugaree Drive	Labor	Labor	Equipment	Material	Contractor	Indirect	Total
	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	1.50	\$49.11	\$0.00	\$0.00	\$0.00	\$30.32	\$79.43
DPJT / Driveway Pipe - Jetted	32.00	\$1,006.73	\$682.72	\$280.05	\$0.00	\$621.44	\$2,590.94
DRP / Driveway - Repair	40.00	\$978.51	\$34.80	\$399.66	\$0.00	\$389.52	\$1,802.49
HAUL / Hauling	24.00	\$719.28	\$457.44	\$317.03	\$0.00	\$0.00	\$1,493.75
ONJV / Onsite Job Visit	26.00	\$1,084.72	\$113.10	\$44.24	\$0.00	\$0.00	\$1,242.06
RSDCL / Roadside Ditch - Cleanout	80.00	\$2,066.73	\$555.84	\$167.91	\$0.00	\$1,061.28	\$3,851.76
UTLOC / Utility locates	1.00	\$41.72	\$0.00	\$0.00	\$0.00	\$0.00	\$41.72
Grand Total	204.50	\$5,946.80	\$1,843.90	\$1,208.89	\$0.00	\$2,102.56	\$11,102.14









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Project Summary: Kato Lane Channel Activity: Routine/Preventive Maintenance

**Duration:** 11/21/2022 -12/05/2022

#### **Narrative Description of Project:**

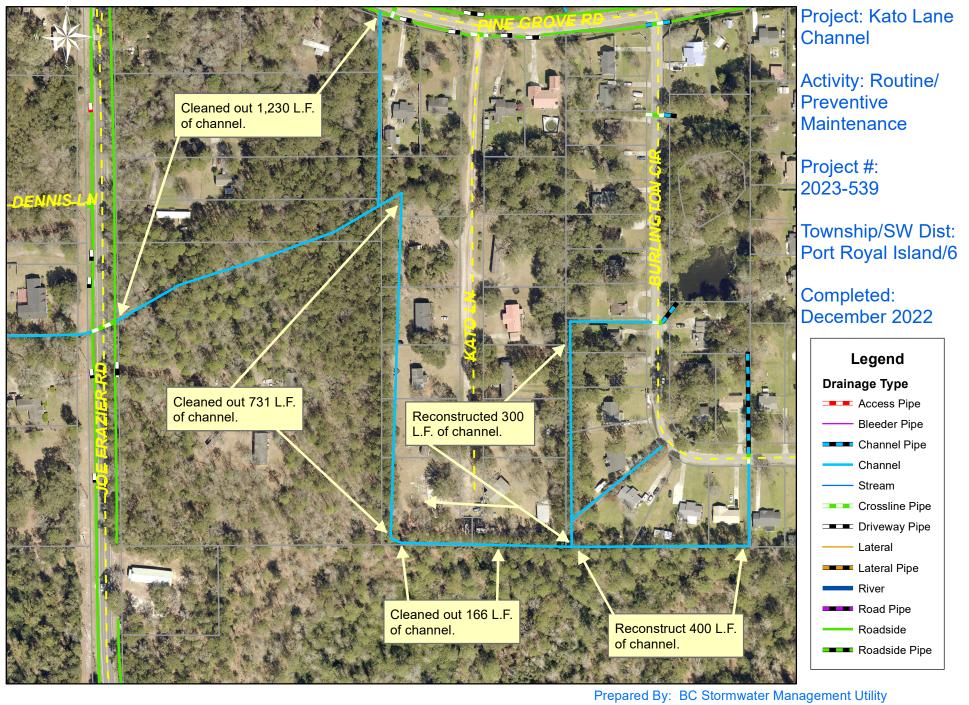
Project improved 2,827 L.F. of drainage system. Cleaned out 2,127 L.F. of channel ditch and reconstructed 700 L.F. of channel.

2023-539 / Kato Lane Channel	Labor	Labor	Equipment	Material	Contractor	Indirect	Total
	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	1.50	\$49.11	\$0.00	\$0.00	\$0.00	\$30.32	\$79.43
CCO / Channel - cleaned out	72.00	\$2,274.09	\$499.73	\$534.66	\$0.00	\$1,403.76	\$4,712.24
CREC / Channel - reconstructed	72.00	\$2,274.09	\$561.66	\$342.27	\$0.00	\$1,403.76	\$4,581.78
HAUL / Hauling	32.00	\$1,073.64	\$609.92	\$264.68	\$0.00	\$662.72	\$2,610.96
Grand Total	177.50	\$5,670.94	\$1,671.31	\$1,141.61	\$0.00	\$3,500.56	\$11,984.41









0 35 70 140 210 280

1 inch = 210 feet

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**Project Summary:** Quarter Horse Road **Activity:** Routine/Preventive Maintenance

**Duration:** 11/16/2022 - 12/19/2022

#### **Narrative Description of Project:**

Project improved 118 L.F. of drainage system. Cleaned out 118 L.F. of roadside ditch. Replaced (1) driveway pipe and driveway and installed rip rap for erosion control.

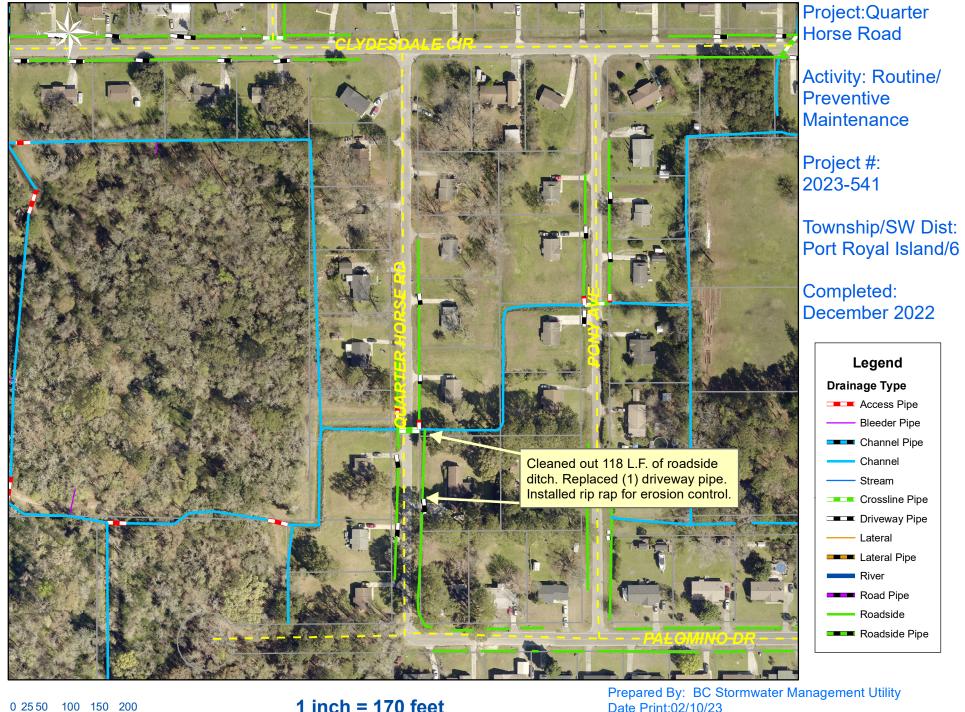
2023-541 / Quarter Horse Road	Labor	Labor	<b>Equipment</b>	Material	Contractor	Indirect	Total
	Hours	Cost	Cost	Cost	Cost	Cost	Cost
AUDIT / Audit Project	1.50	\$49.11	\$0.00	\$0.00	\$0.00	\$30.32	\$79.43
DPREIN / Driveway Pipe - Reinstalled	32.00	\$931.77	\$186.85	\$479.52	\$0.00	\$467.92	\$2,066.06
HAND / HANDSEEDED	16.00	\$465.89	\$17.40	\$128.75	\$0.00	\$233.96	\$846.00
HAUL / Hauling	8.00	\$276.32	\$152.48	\$669.75	\$0.00	\$170.56	\$1,269.11
NONPRO / Non-Professional Services	0.00	\$0.00	\$0.00	\$0.00	\$1,040.82	\$0.00	\$1,040.82
ONJV / Onsite Job Visit	2.00	\$83.44	\$8.70	\$97.91	\$0.00	\$0.00	\$190.05
PA / Project Assit	16.00	\$585.40	\$0.00	\$0.00	\$0.00	\$361.36	\$946.76
UTLOC / Utility locates	0.50	\$21.69	\$0.00	\$0.00	\$0.00	\$13.39	\$35.08
Grand Total	76.00	\$2,413.62	\$365.43	\$1,375.92	\$1,040.82	\$1,277.51	\$6,473.30











1 inch = 170 feet

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# Lowcountry Stormwater Partners Report for the Beaufort County Stormwater Utility Board February 2023

Project (Year 2022)	Project Type	POC	Direct/Indirect	Jan	Feb	Mar	Apr	May	Jun	Jul Aug	Sep	Oc	t N	ov De	c	KEY
Small Grants Program	Programs	Bacteria, Freshwater	Direct		Drafting											Not Started
Pet Waste Station Map	Programs	Bacteria	Indirect													In Progress
Pet Waste Displays at Local Orgs	Other	Bacteria	Indirect													Completed
Septic Workshop	Programs	Bacteria	Direct													
Bilingual Septic Rack Cards	Publication	Bacteria	Indirect		Drafting											
Septic "Welcome to the Neighborhood" Packets	Publication	Bacteria	Indirect													
Boater Informational Packet	Publication	Bacteria	Indirect													
Boater online resources	Publication	Bacteria	Indirect													
Boater Waste Signage	Media	Bacteria	Indirect													
Boater Waste Buckets/Bags	Purchases	Bacteria	Indirect													
Adopt-A-Landing/Clean Marina Program	Programs	Bacteria	Direct													
2023 Beaufort Stormwater Pond Conference	Programs	Nutrients	Direct													
Healthy Pond Series: North	Programs	Nutrients	Direct													
Healthy Pond Series: South	Programs	Nutrients	Direct													
Healthy Pond Series: Central	Programs	Nutrients	Direct													
Soil sample placards at retailers	Media	Nutrients	Indirect													
Native Plant Signage	Media	Nutrients	Indirect													
Native Seed Promo Packet	Purchases	Nutrients	Indirect													
Soil Sample Bags at Local Retailers	Other	Nutrients	Indirect													
Buffer Workshop	Programs	Nutrients	Direct		13											
LID Lunch-and-Learn	Programs	Freshwater	Direct													
BMP Park Field Day	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct													
LID Map/Website Updates	Programs	Freshwater	Indirect													
BMP info packet	Publication	Freshwater	Indirect													
BMP Social Media Campaign	Publication	Freshwater	Indirect													
2024 Strategic Plan Update	Publication	Consortium Management	Indirect													
Being a Neighbor for Clean Water (Fall)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct													
Rain Barrel Sale	Programs	Freshwater	Direct										$\perp$			
Flooding 411 (June)	Programs	Freshwater	Direct													
Adopt-A-Stream (Spring)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct													
Adopt-A-Stream (Fall)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct													

# Lowcountry Stormwater Partners Report for the Beaufort County Stormwater Utility Board February 2023

							_	 		_		
4-H2O (July)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct									
Kids in Kayaks	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct									
LSP consortium meeting (March)	Programs	Consortium Management	Direct									
LSP consortium meeting (June)	Programs	Consortium Management	Direct									
LSP consortium meeting (Sept)	Programs	Consortium Management	Direct									
LSP consortium meeting (Dec)	Programs	Consortium Management	Direct									
MS4 meetings (April)	Programs	Consortium Management	Direct									
MS4 meetings (July)	Programs	Consortium Management	Direct									
MS4 meetings (Nov)	Programs	Consortium Management	Direct									
Water Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
May River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
Keep Broad Creek Clean Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
Beach/River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
Soft Shell Crab Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
Shrimp Fest	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
Changing Tides (monthly)	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
News Article 1	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect		1.8.23							
News Article 2	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect		2.5.23							
News Article 3	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
FB posts (one a week)	Media	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
SWUB Report (monthly)	Reporting	Consortium Management	Indirect									
LSP Annual Report	Reporting	Consortium Management	Indirect									
Rack Cards	Purchases	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect									
Mailers	Purchases	Bacteria, Nutrients	Indirect									
LSP Promo Materials	Purchases	Consortium Management	Indirect									
Direct Contacts	Other	General Stormwater, Bacteria, Nutrients, Freshwater	Direct	3.00	5.00							
Rain Garden Workshop	Programs	Freshwater	Direct		11.00							

#### **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 began and dry weather samples have been collected.

#### 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 began.

#### **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.

**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**: PTs for parameters have been ordered. Study for Heterotrophic Plate Count has closed and we received a passing score.

**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.

#### **Beaufort County Stormwater Utility** FY2022 Actuals

Reve	enue/Reserve	Utilization		•	
	FY 2021	FY2022	FY2022		
		Revised			\$281K - Cost-share from
		Proposed	Unaudited		Municipalities
	Actuals	Budget	Actuals	Variance	\$715,702 - CWI Fees
Revenue					\$1,198 - SW Assistance to CoB for
Admin SWU Fees	1,469,067	1,401,337	1,404,684	(3,347)	The Point
Unincorp/CWI SWU Fees	5,103,880	5,486,208	5,306,771	179,437	\$5,609 - Hydroseeding for ToB  Interest on County investments
Revenue from SWU Fees	6,572,947	6,887,545	6,711,455	176,090	allocated to SW
Reimbursable Projects		-	6,871	(6,871)	\$19,995 - sale of 2004 vacuum
Interest	50,160	101,250	42,293	58,957	truck
Gain on Sale of Capital Assets		-	21,111	(21,111)	\$1,119 - sale of 2002 Ford F150
Grant Funds	_	_	142,937	<b>▼</b> (= :, : : : /	Evergreen Project
Other	20,395	20,975	20,667	308	SW Permits
Reserve Utilization					
Capital Improvement Fund		3,004,202		3,004,202	Professional Services
Projected Revenue Total	6,643,502	10,013,972	6,945,334	3,068,638	\$2,731 - Legal service for Bessie
- Tojoula Neveriae Total	0,010,002	10,010,072	0,010,001	0,000,000	Ln and Heyward Hiers \$7,070 - Young Cr and Huspah
					Court survey
					Construction
					\$147,530 - Bluffton Flyover \$33,900 - Whitfield Ln
•	*Efforts (Exp			. /	\$49,200 - Whitheid Ln
	FY2021	FY2022	FY2022	/	\$29,850 - D/W repairs
Administration	227,554	391,724	262,757	/ 128,967	\$2,322 - Fence repairs
Utility Activities					Bluffton Fyover/Hwy 278
UA/Annual Maintenance	2,669,974	4,503,389	3,417,549	1,085,840	engineering services
UA/Drainage Enhancement		20,000	-	20,000	\$7,763 - Wash pad
UA/Additional Studies	3,571	20,000	5,149	14,851	\$10,800 - Academy Park Title worl and Mystic Dr Survey
Utility Activities Subtotal	2,673,545	4,543,389	3,422,699	1,120,690	\$257,245 - Stormwater consultant
Regulation					Lady's Is watershed study, St.
UA/Control Reg	465,521	1,161,916	833,088	328,828	Helena Is watershed study, Program Audit, NPDES Permit
UA/WQ Monitoring	120,000	170,000	170,000	-	Compliance, Arthur Horne, and
UA/Public Information/Outreach	90,000	90,000	90,000	-	Battery Creek
Regulation Subtotal	675,521	1,421,916	1,093,088	328,828	\$170K - USCB Lab
Reserve Utilization					\$90K - Carolina Clear
Brewer Memorial Demo Pond	6,336	13,000	308,668	(295,668)	\$5,262 - Engineering service
Factory Creek Phase I	2,750	-	555,555		\$303,405 - Construction
Salt Creek South	33,977	1,099,639	1,500	1,098,139	\$1,500 - Property appraisal
Shanklin Road	11,252	1,604,995	10,388	1,594,607	(Project removed from CIP)
Mossy Oaks	205,000	-	. 0,000	-	\$6,138 - Engineering service \$4,250 - Appraisal service
Evergreen	105,088	1,650	617,678	(616,028)	(Project removed from CIP)
Graves/Pepper Hall	375,731	750,000	339,845	410,156	\$26,784 - Engineering service
Shell Point	54,750	, 55,555	6,500	(6,500)	\$590,894 - Construction
Lucy Creek (Tuxedo Park)	0-1,700	87,659	0,000	87,659	County share for design &
CIPFund Subtotal	794,885	3,556,943	1,284,577	2,272,366	constructuion per the JDA
Capital Improvement Fund	7 5 7,000	<u> </u>	1,204,017	2,212,000	Cost evaluation of proposed alternatives
	1 026 620		812.006	(912 00e)	Expenses, CIP projects & purchase of
Surplus (Deficit)	1,936,638	-	812,096	(012,090)	capital assets totaled \$6.133M,
Utility Operating Fund	225 250	100.000	70 110		eaving \$812K in surplus
Capital Assets	335,358	100,000	70,118	29,882	\$6,509 - Bobcat attachment
Efforts Total	6,643,502	10,013,972	6,945,334	3,068,638	\$25,408 - (2) 10-ton trailers
*Does not include audit adjustments					\$38,201 - 6" mudhog pump

<sup>\*</sup>Does not include audit adjustments





#### 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



