



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

January 2022

Stormwater Utility Board Packet – December 2021

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December 2021

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Utility Update

1. Southern Lowcountry Regional Board (SoLoCo)
 - a) The current schedule for completion and finalization on the document and activities of Center for Watershed Protection (CWP) is as follows:

All project milestones have been completed.

2. Regionalization
 - a) Implementation of new standards began on February 1st, 2021. At this time Staff have been working with several contractors on new requirements. Staff continues to coordinate implementation efforts internally.
 - b) Staff continues to support other municipalities in their efforts to move forward with adoption.
 - c) Amendments to manual and ordinance will have its third and final reading at County Council on January 10th, 2022.
3. Special presentation suggestions –
 - Suggestions for Future Meetings
 - Research performed by Dr. Montie – Spring 2022
 - Cypress Wetlands Project – Spring 2022
 - Woolpert – Feb 9 2022
 - Beaufort County Legal – Feb 9 2022
4. Military installation and other State and Federal properties SWU fees – See “Delinquent Accounts” below. – Legal update at next meeting.
5. Delinquent accounts – Phase I Investigations with Gentry Locke Attorneys (looking at data, laws, ordinances, synopsis of case law) to provide recommendations and likely outcomes of either negotiations or litigation.
 - No update at this time.

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6. Reminder: Annual Financial report from the Municipalities are due – Per the Intergovernmental Agreements for the Utility, each year on September 30th, the City and Towns are required to submit a summary of revenue and expenditures for the previous fiscal year.
 - a) Beaufort County – 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.

Monitoring Update

1. Lab Update (From Dr. Alan Warren and Lab Manager Danielle Mickel)
 - i. [See attached report.](#)

Stormwater Implementation Committee (SWIC) Report

1. SWIC committee will meet with Carolina Clear staff on January 14th, 2022 to discuss future of contract.

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 coming in. 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) Flyover bridge preventative maintenance and deferred maintenance repairs – construction complete and pending close out. Close out inspection to be held on January 13th.
 - a) Shell Point Community – Staff actively pursuing funding for the design and construction of this project. Benefit Cost Analysis necessary for grants is still outstanding. HMGP application to follow completion of the BRIC application.
3. Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park Subdivision (Design Cost \$49,873, Tree Mitigation Cost \$18,200 & \$18,200,

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Construction Cost by the Developer) – Public hearing for property acquisition to be held on January 10th during County Council. Upon approval, all necessary signatures will be obtained.

4. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Beaufort County Legal handling obtaining easement from property owner.
5. Graves Property / Pepper Hall Public / private partnership – Roads and Infrastructure plan amendment was approved in SRT in early November. Conceptual Plans for the single family home complex on site are being reviewed in Staff Review Team this month.
6. Whitehall property purchase – Construction continues on City property.
7. Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – No update at this time.
8. Tuxedo Park Pond Dredging- Engineering firm on the county vendor registry are preparing quotes for the completion of the construction drawings necessary for this project at present time. Following that, the job will go out to bid.
9. Huspah Court North- Design work to align the drainage conveyance with the property line is in progress.

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) Salt Creek – Project has been removed from CIP plan.
 - b) Shanklin – both property owners presented with offers and have tentatively accepted. Staff continuing to work with property owners.
 - a) Brewer Memorial – Construction on site continues. Old bait pond has been cleaned out, bioswale has been constructed, and contractor is shaping the pond at present.
2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – Utility conflict at the catch basin has paused progress. Contractor’s contract has been extended to account for this. Plans for moving the sewer line are being reviewed by BJWSA.
3. Stormwater engineering consulting services – Woolpert
 - a) Scope #1 – General Services – Anything relating to Stormwater as a catch all

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- scope. Allocated Funds – \$15,000.00.
- b) Scope #2 – Southern Lowcountry Design Manual Training – This was completed prior to June of this year. Training set up for in house staff as well as developers in the County. Allocated funds - \$30,000.00.
 - c) Scope #3 – Comprehensive program audit. Reviewing all components of the MS4 program, CIP list, Utility, asset management, etc. Allocated funds - \$105,000.00. Audit has been completed. Staff working through comments. Staff to schedule a follow up meeting with Woolpert.
 - d) Scope #4 – Tax Run and Utility assistance. In the event the County needed 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.
 - e) Scope #5 – Battery Creek 319 Pond -
 - f) Scope #6 – Turtle lane drainage study. Continuously flooded property, Stormwater staff wanted to determine if it would be useful to purchase and put BMP in place. Determination was no BMP yet, but could fit into larger study of Northern Ladys Island. Allocated funds - \$10,000.00. Project Completed.
 - g) Scope #7 – Northern Lady’s Island Drainage Study – final proposal review. Woolpert estimated \$374,381 for this study. Staff provided feedback on cost, Woolpert is re-evaluating to focus on County owned infrastructure and ROW.
 - h) Scope #8 – Arthur Horne Park – 319 Grant moving forward.

Scopes on County Radar:

- a) St. Helena Drainage Study
- b) Annual Report to DHEC

Regional Coordination

- 2. Mossy Oaks Task Force – County working with USCB on water quality monitoring efforts.

Municipal Reports

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

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

MS4 Report

1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months.
2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.
3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
4. Weather Station Data – Report unavailable.
5. Public Education – [See attached report](#).
6. Energov permitting software – Implementation of Energov software went live on October 25th. Stormwater staff still ironing out minor issues with IT as they arise.
7. MS4 Statewide General permit – No further update at this time.

Staff Update

1. Staff Members Julianna Corbin and Judah Wood successfully achieved their Certified Stormwater Plan Review (CSPR) Certifications. For the first time in department history, all Stormwater Inspectors have this certification.
2. Katie Herrera received her Post-Construction BMP Re-certification.
3. The Department continues to conduct interviews for all vacant positions. In addition to the 16 vacant positions ((1) Foreman, (1) Equipment Operator II, (4) Equipment Operator I, and (10) Maintenance Workers) within the Infrastructure Department, the Management department continues to interview for the Senior Administrative Assistant, and Infrastructure Technician positions.

USCB Water Quality Lab Update
ACTIVE PROJECTS
Beaufort County

BC Monitoring Plan 2021:

- **Description:** Monitoring plan for 2021 continue from last year to include sampling sites covering all 5 categorical types:
Category 1: TMDL monitoring
Category 2: IDDE screening and monitoring
Category 3: Water quality monitoring (baseline, based upon 303d list)
Category 4: MOA points
Category 5: Special project monitoring
- **Status:** Fourth quarter is finished with all results reported. First quarter of new year has begun with no known changes to monitoring plan.

Memorandum of Understanding:

- Instead of a MOU, a sole source contract agreement has been approved and fully executed.

Mossy Oaks Drainage Study:

- **Description:** 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.

Pepper Hall Drainage Study:

- **Description:** 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. Sample collection has ceased due to lack of access to site locations.
- **Status:** Bi-monthly sampling has begun in January 2021.

Port Royal Redevelopment:

- **Description:** 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:** Fourth quarter collection is complete for 2021. First quarter of new year has begun.

Town of Bluffton

- **Description:** Monitoring for 2021 continues and includes monitoring for the categories; water quality, 319, MS4, MST, TMDL, and shared locations. A request from Town of Bluffton was made for data analysis of sampling sites dating from 2009 to present.
- **Status:** Monitoring for 2021 is complete with all results reported. Monitoring for 2022 will begin with additional sampling sites and increased frequency.
- **Memorandum of Understanding:** An amendment to the current MOU is generated for the purposes of additional sampling efforts by the Town of Bluffton and has been fully executed.

USCB Laboratory

Additional Projects:

- Palmetto Bluff: Continued sampling efforts of 12x/year for 6 wet/6 dry events. Sampling sites have been revised to include additional sites to monitor the New River. 2021 collection is complete and the sampling efforts with same frequency and sites, including the additional parameters requested by Town of Bluffton, will begin for 2022.

Lab Projects:

Port Royal Cypress Wetland

- **Description:** The Town of Port Royal wanted to continue with WQ monitoring at the Cypress as the Town is working on a plan to renovate the wetlands to eliminate invasive as much as possible, re-dredge the open water areas and eliminate as many Tallow trees as possible. Having a current base line of WQ information before any work is performed is critical to assessing the "before and after" conditions in Cypress.
- **Status:** Re-dredging is complete. Cypress wetland project sampling effort was on September 16, 2021 for a wet event and September 29, 2021 for a dry event.
- 2022 Proficiency testing for the Water Pollution and Water Supply study needs to be started and completed. This consisted 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.
- On February 21, 2020, an investigation of an oyster aquaculture operation on St. Helena Island was performed at the request of the owner. The aquaculture pond's water is largely supplied by Wallace Creek, which is frequently closed to shellfish harvesting.
- Dr. Warren supplied USCB's mathematicians/computational science faculty with SCDHEC water quality data at every shellfish station in Areas 14-20. This is similar to what Dr. Warren did a few years ago, and what Dr. Montie did more recently with examining long-term trends and exceedances of fecal coliform based on harvesting standards.

- New equipment arrived to include Rhodamine sensor for various studies, including pond retention times. Has been deployed in the field and will be picked up and data downloaded.

COMPLETED PROJECTS

Beaufort County

Crystal Lake:

- **Description:** Crystal Lake bi-monthly sampling and analysis began in August at three locations; boardwalk, nature trail and drainage into lake.
- **Status:** Project ended at the end of September 2020.

Okatie West Pond:

- **Description:** The University of South Carolina Beaufort's Water Quality Lab collected data on a variety of water quality parameters, including fecal coliform and *E. coli* bacteria, prior to and after detention pond construction. Sampling points allowed for the determination of the pond's bacterial removal efficiency, as well as the extent to which pond effluent was reloaded with bacteria as it was conveyed by ditch to the Okatie River's headwaters. Sampling took place in February 2018, prior to pond construction, and again in February 2019 when pond construction was complete.
- **Status:** Project was completed in February 2019.

Okatie West Pond: Bold and Gold

- **Description:** Environmental Conservation Solutions, LLC, in conjunction with Beaufort County, installed an innovative bacteria and nutrient removing side-bank filter to a section of a newly constructed wet detention pond for the Okatie West Regional Stormwater Project. The purpose of the joint effort is to evaluate the efficiency of the Bold & Gold Side-Bank filter for the possible application in the county to achieve target stormwater treatment in existing and new stormwater BMPs. The pilot project is a 60-foot side bank filter with a 2-foot layer of Bold & Gold® CTS Filtration media as the treatment mechanism, overlaid by a 6-inch well-draining soil that is connected to an underdrain pipe. The filter is located on the south side of the wet detention pond.
- **Status:** Last efforts were completed in March 2020.

USCB Laboratory

- **USCB'S** Water Quality Laboratory will be vacating the North campus Marine Science Building location and will solely be located on South campus at the request of the University for additional space for Natural Sciences. Move shall be completed January 21st, 2022.
- **Hilton Head:** GEL Engineering: Discontinued receiving samples for Hilton Head collected by GEL Engineering 4x/ quarter due to using another laboratory.

TOWN COUNCIL



STAFF REPORT

Engineering Department

MEETING DATE:	January 11, 2022
SUBJECT:	Engineering Department Monthly Report
PROJECT MANAGER:	Kim Jones, Interim Director of Engineering

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

1. Goethe-Shults Sidewalks Phase 2

- Notice to Proceed with construction was issued 7/1/2021.
- Materials have been delivered and construction is underway.
- Stormwater pipe and sidewalks are scheduled to be removed from the project scope due to utility conflicts.
- **Next Steps**
 - Complete construction in February 2022.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Phase 5 street lighting easement acquisition process is underway. Awaiting easement documents from legal.
- Phase 6A along Simmons ville Road from Grayco northward to Sugaree Drive: construction began in September and is substantially complete.
- Phase 6B along Simmons ville Road from Sugaree Drive northward to the existing New Mustang Road: Engineering design for this final sidewalk phase is underway.
- **Next Steps**
 - Prepare and obtain streetlight easements and install lighting for Phase 5.
 - Complete construction of Phase 6A sidewalks and obtain SCDOT Permit Closeout.
 - Complete Phase 6B design and permitting.
 - Construction of the remaining Simmons ville Road sidewalks to be completed in FY 2023.

3. Bridge Street Streetscape

- Phase 1 construction documents are 95% complete and under permitting review.
- SCDHEC 319 grant application was awarded for \$179,700 for drainage and water quality improvements.
- Easement exhibits, appraisals and just compensation are complete. Easement acquisition is underway.

- **Next Steps**
 - Complete engineering design and permitting in December 2021.
 - Issue Invitation for Bid in January 2022.
 - Construction is anticipated to start in the last quarter of FY 2022.

- 4. **Boundary Street Streetscape**
 - Surveying is complete and engineering design is underway.
 - **Next Steps**
 - Complete draft preliminary engineering design in December 2021.

- 5. **New River Linear Trail**
 - Surveying is complete.
 - Master Planning Services Agreement has been executed.
 - **Next Steps**
 - Begin Master Plan.
 - Obtain quote for Phase 1 engineering design for Phase 1 Site Development.
 - Research grant opportunities to fund planning and construction of future trail improvements.

SEWER & WATER

1. **Buck Island-Simmons ville Sewer (Phases 5A-5D)**
 - Construction has been halted on Phases 5A-D by BJWSA due to the contractor under-performing their job duties. Engineer has started closeout phase for what has been installed to date.
 - Working with the Engineer on new construction documentation to complete the project.
 - **Next Steps**
 - Readvertise for bids to complete construction on Phase 5A-D.
 - Start house connections after the main line is approved by DHEC.

2. **Historic District Sewer Extension Phase 1 - Pritchard Street**
 - Main line construction, gravity connections, and paving are complete.
 - **Next Steps**
 - Received DHEC Permit to Operate and finalize grinder pump house connections.

3. **Historic District Sewer Extension Phase 2 - Bridge Street**
 - Received SCDHEC permit to construct for original scope. Researching redesign options to avoid extremely long bore.
 - Received Quit Claim Deeds from all the property owners along the ghost road.
 - **Next Steps**
 - Obtain road ownership from SCDOT.

- Readvertise for bid due to prior bid not receiving submissions.

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

- Received initial design and reviewed with the engineer.
- **Next Steps**
 - Review design changes to drawings.
 - Obtain Quit Claim Deeds from all the property owners along the ghost roads.

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 ROW. Easements must now be obtained to install Phase 2 lighting.
- **Next Steps**
 - Coordinate light installation in conjunction with streetscape design.
 - Obtain easements as needed for Phase 2 street lighting.
 - Begin installation of street lighting in January 2022.

2. Historic District Streetscape and Drainage Improvements

- Engineering design, landscape design, permitting and bidding have been completed for the drainage improvements at the AME Church. No contractors bid the project. Must be re-packaged and re-bid.
- Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
- Completed Traffic Calming Study and obtained approval for a Traffic Calming Policy from Town Council.
- Obtained proposal for engineering design services for the first phase of intersection/crosswalk improvements.
- **Next Steps**
 - AME Church rain garden will be re-advertised.
 - Prepare new solicitation and execute contracts for rain garden construction at the AME Church.
 - Complete designs and construction documents for first phase of intersection/crosswalk improvements.

3. Calhoun Street Streetscape

- Surveying is complete and engineering design underway.
- **Next Steps**
 - Continue with engineering design. Obtain preliminary plan in December and continue planning into 2022.
 - Easement acquisition is planned to begin in FY 2023.

- Phased construction is planned to begin in late FY 2023 pending budget approval.

4. **Squire Pope Carriage House Preservation**

- Construction documents are complete and submitted to SHPO for a courtesy review.
- Stabilization documents are complete.
- **Next Steps**
 - Prepare stabilization bid solicitation package in December 2021.
 - Begin stabilization construction in February 2022.

PARK DEVELOPMENT

1. **Oyster Factory Park**

- Witmer, Jones and Keefer completed design development drawings in May 2021.
- Engineering Design of eastern parking area is underway.
- Obtained dock permit from USACOE and SCDHEC/OCRM.
- **Next Steps**
 - Complete engineering design for the next phase of master planned improvements in FY 2022.
 - Begin construction of parking area in March 2022.

2. **Wright Family Park**

- Completed HVAC installation for restrooms in September 2021.
- **Next Steps**
 - Develop palmetto tree reuse design and signage.
 - Installation in Spring of 2022.

3. **Oscar Frazier Park**

- Installed additional synthetic turf and power pedestals.
- Prepared concept designs and estimating for Splash Pad.
- **Next Step**
 - Complete plans to regrade and resod the Field of Dreams. Bid in December 2022.
 - Continue planning of future improvements in FY 2023 and beyond.

4. **New Riverside Barn/Park**

- Obtained notification that \$500,000.00 grant was approved for partial funding of the initial phase of the project.
- Engineering design of Phase 1 site development is underway.
- Hart Howerton completed schematic design of the restroom and barn additions.
- Construction documents for the restroom building are underway.
- Executed contract with Wood and Partners for preliminary design of playground area and landscape design of Phase 1 development.
- **Next Steps**
 - Complete final architectural plans for Phase 1 restroom building.

- Complete construction drawings, cost estimating and permitting of Phase 1 site development in the third quarter of FY 2022.
- Bidding and construction of Phase 1 site development is anticipated to begin in the fourth quarter of FY 2022.

5. **May River Road Pocket Park**

- Presented conceptual plans at 7/20/21 Town Council Workshop.
- Coordinated with Mayberry Holdings for final design plan.
- Obtained bids to raise stormceptor.
- Requested updated boundary, tree, topo and as-builts.
- Submitted Public Project application.
- **Next Steps**
 - Obtain new survey in January 2022.
 - Finalize plan and coordinate with Mayberry Holdings.
 - Prepare construction documents.
 - Bid construction landscape improvements in May 2022.

TOWN FACILITIES AND MISCELLANEOUS PLANNING

1. **Buckwalter Place Park Restroom**

- Design for the Buckwalter Park restroom is complete. Awaiting permits from agencies.
- **Next Steps**
 - Obtain permits for the utility extensions for the proposed Buckwalter Park Restroom.
 - Restroom building is planned to be constructed in FY 2023 pending budget approval.

2. **Town of Bluffton Housing Projects**

- **Next Steps**
 - Planning and design to begin upon completion of Joint Venture Agreement.
 - Assist with the preparation of comprehensive cost estimates for planning, design and construction for the various housing projects.

3. **Law Enforcement Center Facility Improvements**

- Site work substantially complete.
- Additional Services for covered parking and reflection plaza is underway.
- **Next Steps**
 - Punch list and closeout documents nearing completion.
 - Solicit RFP for covered parking to project per police department request.
 - Information Technology department coordinating upgrades to building security systems.
 - Complete plans for Reflection Plaza and obtain a change order for the Greenery to construct in March 2022.

4. **Ghost Roads**

- Surveying and easement exhibits are complete.
 - Bridge Quit Claim Deeds are complete. Pritchard and Colcock Street Quit Claim Deeds are 95% complete.
 - Staff is meeting with property owners to raise awareness of the acquisition efforts and communicate next steps.
 - **Next Steps**
 - Continue meeting with property owners and obtaining Quit Claim Deeds.
- 5. Community Safety Cameras**
- Fourteen older cameras in the network have been replaced.
 - **Next Steps**
 - Continue with camera replacements and upgrades as necessary.
 - Install cameras to new LEC service yard area.
- 6. Public Works Facility Improvements**
- Prepare site plans for expanding of Public Works yard.
 - Install new plumbing and electric for the washer and dryer.
 - **Next Steps**
 - Begin design and permitting for the expansion of the yard.
 - Obtain quotes for the installation of the plumbing and electric.
- 7. Rotary Community Center Facility Improvements**
- Replace the hardwood floor in the main area.
 - **Next Steps**
 - Request quotes for the replacement of the new floor.
- 8. Watershed Management Facility Improvements**
- Add flooring in additional offices.
 - **Next Steps**
 - Request quotes on completing the new flooring in remaining offices.

DIVISION/STAFF UPDATES

Project Management

Thirty-eight (38) CIP projects were approved with the FY 2022 budget. Don Ryan Center, Veteran Memorial, Buckwalter Park, BIS Phase 5 sidewalks, BIS Sewer Phase 5E, Wright Family Park, Calhoun Street Dock, Oscar Frazier Sidewalks and numerous building facility improvements were completed in FY 2021. CIP projects including HD Sewer Phase 1 (Pritchard Street), Phase 6A Sidewalks, Goethe Shults Phase 2 Sidewalks and the LEC Expansion area are currently under construction and scheduled to be complete by December 2021. Boundary Street Lighting, and HD Sewer Phase 2, Bridge Street Streetscape, New Riverside Barn Park, May River Pocket Park and Oyster Factory Parking lot are expected to start construction this

summer. The remaining CIP projects are still in the design phase and are planned to start construction in FY 2023.

Watershed Management

1. Sea Level Rise Task Force

- Following Beaufort County's presentation and request for regional participation at the 10/22/19 SoLoCo meeting, staff attended the Sea Level Rise Task Force meetings to discuss a possible No Fill Ordinance, a Coastal Resilience Overlay District, and county-wide sea level rise adaptation strategies.
- Task Force met 12/15/20 and 12/18/20 to prioritize recommendations for final document with strategies for local governments to implement policies, ordinances and projects to mitigate the potential impacts of sea level rise.
- Task Force met on 6/23/21 to review current versions of both the No Fill Ordinance and the Coastal Resilience Overlay District. Town planning staff provided feedback on the proposed Overlay District.
- Information provided to Town Comprehensive Plan Update consultant team for resiliency component requirement.
- **Next Steps**
 - Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.

2. Joint Councils Meeting for Watershed Management Initiatives

- BJWSA developed their CIP list for FY 2020 sewer projects which does not include any projects in the County's jurisdiction in the May River Headwaters without cost-sharing.
- Following the Joint Councils Meeting with BJWSA, held on 2/25/20, staff from Beaufort County and Town of Bluffton met to discuss sewer extension scope and strategy on 2/27/20.
- Staff from the Town, County, and BJWSA met via Zoom 3/27/20 to confirm project scope, cost, and potential project manager. The last project cost estimate to extend, connect, and abandon septic in the Stoney Creek project area is \$4.7 million (B. Chemsak email 7/22/19) but they anticipate those numbers increasing to \$5.5 million. The proposal is 1/3 cost-share, so the Town's portion would be approximately \$1.83 million. Beaufort County has not formally agreed or committed any funding.
- Neither BJWSA nor Beaufort County have committed funds in FY 2021 to begin sewer extension.
- Town Manager, Director of Engineering and staff met with BJWSA General Manager, Engineer and staff on 6/5/20 to discuss how to move the project forward.
- The Town submitted a response on 12/18/21 to BJWSA's "call for projects" request that prioritizes May River Watershed sewer projects.

- Staff drafted a letter for the Town Manager’s review requesting Beaufort County commitment to cost-share Stoney Creek/Palmetto Bluff Rd. sewer project in the May River watershed.
 - Staff presented an update on current status at 4/20/21 Town Council Workshop.
 - Town Council sent a letter on 4/26/21 requesting Beaufort County Council consider funding in FY 2022 for sewer extension projects in the May River watershed in the County’s jurisdiction.
 - **Next Steps**
 - Town Council and BJWSA sent a letter requesting Beaufort County Council partnership in sewer extension projects within the County’s jurisdiction of the May River Watershed.
- 3. 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**
- 4. May River Watershed Action Plan Implementation Summary - Attachment 2**
- 5. Municipal Separate Storm Sewer System (MS4) Program Update**
- Staff is currently updating the Town’s MS4 Stormwater Management Plan and supporting documentation. SCDHEC is currently in the process of developing a revised National Pollutant Discharge and Elimination (NPDES) Permit for Small MS4s and will re-issue to permittees, including the Town, in the future.
 - Staff has requested, along with Beaufort County Government and the Town of Hilton Head, that SCDHEC adjust the MS4 annual report timeline to align with the calendar year. Staff is updating the Town’s MS4 Annual Report for submission to SCDHEC 04/01/22.
- 6. 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 is scheduled for 01/27/22. **Attachment 3**
 - Staff developed an MS4 direct mail postcard and is working to obtain cost estimates to print and mail. This effort assists the Town with meeting MS4 permit requirements.
 - Staff continues to work with the Town Digital Communication Manager to promote a series of MS4 stormwater educational tips and reminders for the Bluffton community via the Town’s Facebook page.
- 7. 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**
 - Town staff coordinates with the SC Department of Health and Environmental Control (SCDHEC) to pull MST samples concurrently with the state’s routine

shellfish harvesting water quality sampling at stations 19-19, 19-19A, 19-19B, 19-19C, and 19-24. SCDHEC will conduct sampling on 12/20/21 and any pertinent results from this sampling event will be communicated with Council, WAPAC, and Senior Staff via email.

- Town staff collected three (3) MST samples during an illicit discharge detection and elimination (IDDE) investigation on 12/17/21. MST results are pending and pertinent results from this sampling event will be communicated with Council, WAPAC, and Senior Staff via email.
- Town staff collected four (4) horse fecal samples from the Spring Island Equestrian Facility. These samples will assist the Town with meeting 2020 May River Watershed Action Plan Model Report recommendations and ensure representative regional marker specificity and sensitivity.
- Illicit Discharge Investigations – **Attachment 4e**

8. MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5

9. MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6

10. MS4 MCM – #6 Good Housekeeping (Staff Training/Education)

- Staff attended the webinar Showcasing Leading Practices in Climate Adaptation - Session 1: Leading Practices in Climate Adaptation on 11/4/21.

MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)

- Performed weekly street sweeping on Calhoun Street, Highway 46, Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simmonsville and Buck Island Roads.
- Performed ditch inspections
 - Arrow ditch (2,569 LF)
 - Red Cedar ditch (966 LF)
 - Buck Island roadside ditch (15,926 LF)
 - Simmonsville roadside ditch (13,792 LF)
- Ongoing roadside mowing, litter clean-up and maintenance of Masters' Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road and Eagles Field.

11. Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7

12. Citizen Request for Watershed Management Services & Activities – Attachment 8

Attachments

1. SCDHEC Shellfish Harvesting Monitoring Data Year-to-Date
 - a. SCDHEC May River Shellfish Harvesting Status Exhibit
2. May River Watershed Action Plan Implementation Summary*
3. MS4 Minimum Control Measures #1 and #2 – May River Watershed Action Plan Advisory

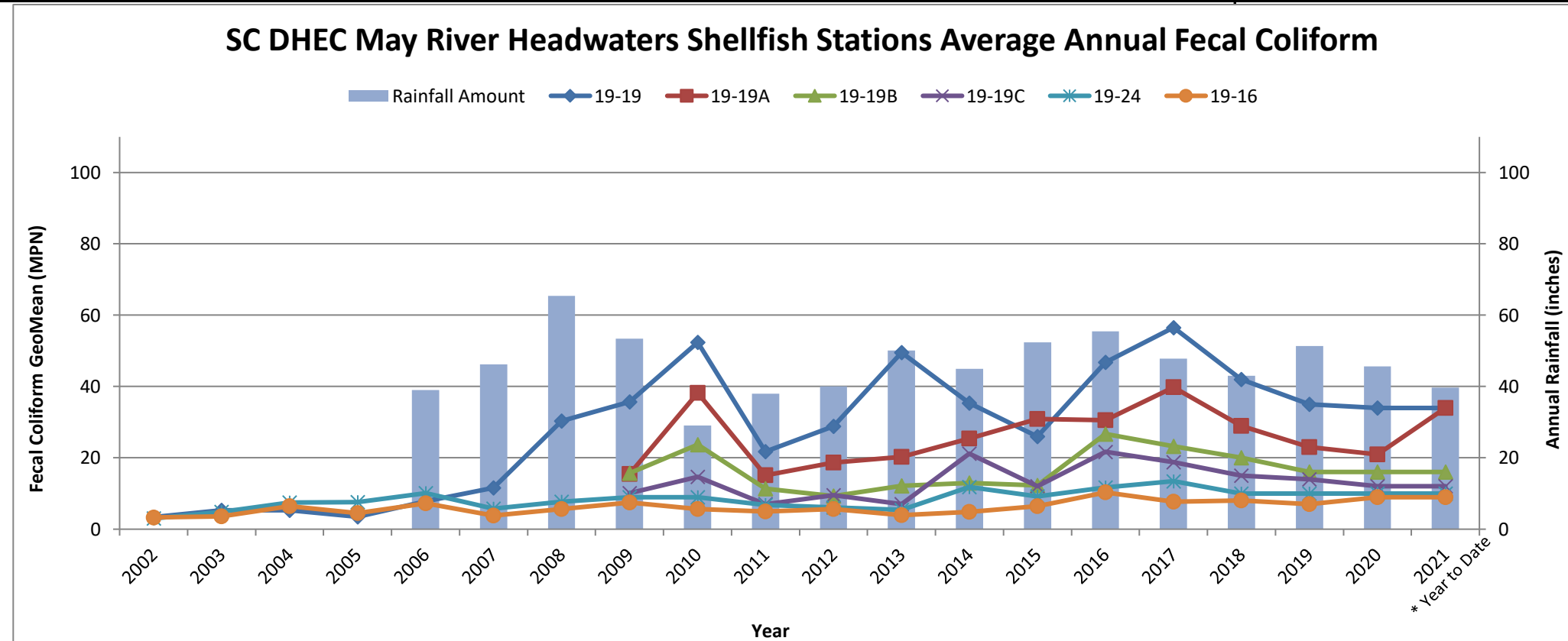
Committee Cancellation Notice

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

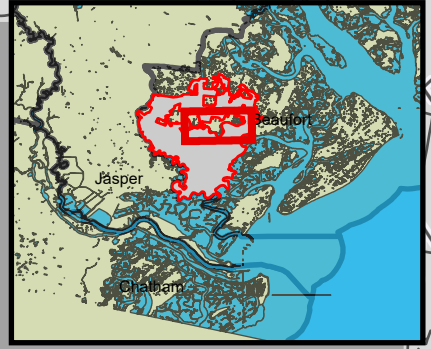
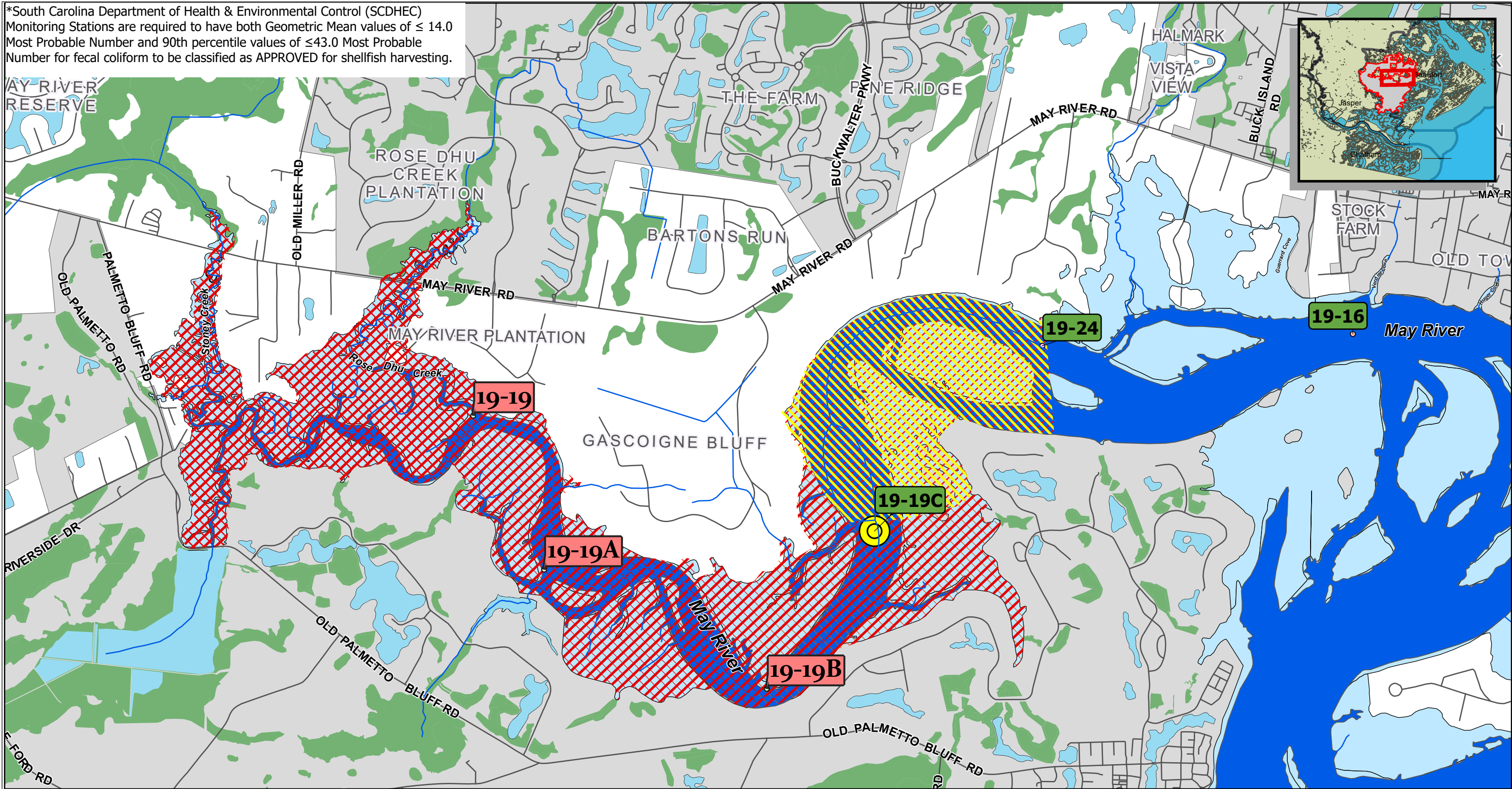
* Attachment noted above includes the latest updates in **bold** and *italic* font.

	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)
December	79.0	170.0	17.0		49.0	33.0	22.0		33.0	140.0	17.0		46.0	33.0	4.5		23.0	13.0	4.0		21.0	110.0	11.0	
November	49.0	17.0	70.0	33.0	13.0	6.8	31.0	33.0	23.0	7.8	17.0	7.8	17.0	11.0	13.0	4.0	17.0	4.5	13.0	4.5	7.8	2.0	4.5	2.0
October	79.0	7.8	49.0	49.0	23.0	4.5	79.0	26.0	7.8	2.0	31.0	13.0	7.8	4.5	21.0	23.0	7.8	1.8	33.0	23.0	2.0	2.0	79.0	17.0
September	49.0	79.0	110.0	33.0	23.0	33.0	49.0	11.0	13.0	6.8	49.0	17.0	17.0	17.0	33.0	13.0	17.0	4.5	33.0	2.0	17.0	1.8	33.0	11.0
August	70.0	70.0	49.0	49.0	23.0	49.0	49.0	49.0	13.0	33.0	23.0	23.0	4.5	22.0	23.0	49.0	7.8	7.8	17.0	14.0	17.0	17.0	22.0	14.0
July	23.0	4.5	33.0	350.0	33.0	13.0	13.0	64.0	11.0	7.8	23.0	79.0	7.8	17.0	7.8	33.0	13.0	22.0	7.8	33.0	4.5	13.0	17.0	13.0
June	11.0	33.0	NS	49.0	23.0	49.0	NS	79.0	23.0	49.0	NS	13.0	7.8	46.0	NS	17.0	4.5	13.0	NS	22.0	1.8	4.5	NS	2.0
May	17.0	7.8	70.0	2.0	33.0	9.2	49.0	49.0	17.0	7.8	23.0	23.0	13.0	2.0	22.0	23.0	23.0	6.8	6.8	23.0	13.0	4.5	4.5	7.8
April	33.0	23.0	33.0	33.0	13.0	13.0	33.0	23.0	17.0	7.8	13.0	22.0	17.0	6.8	6.8	17.0	49.0	23.0	13.0	7.8	17.0	6.8	13.0	2.0
March	22.0	23.0	170.0	33.0	21.0	23.0	49.0	11.0	4.5	6.8	130.0	17.0	11.0	13.0	49.0	13.0	7.8	7.8	70.0	2.0	9.3	4.5	33.0	2.0
February	17.0	64.0	17.0	79.0	7.8	33.0	7.8	70.0	17.0	23.0	21.0	79.0	17.0	31.0	4.5	23.0	2.0	6.8	4.5	7.8	7.8	13.0	6.8	6.8
January	13.0	23.0	95.0	17.0	2.0	23.0	33.0	17.0	4.5	13.0	33.0	13.0	2.0	33.0	17.0	23.0	1.8	7.8	17.0	17.0	4.5	23.0	17.0	13.0
Additional Samples																								
Average Annual GeoMean	30.8	26.4	51.4	36.0	17.5	19.0	31.9	31.9	13.1	13.0	27.3	21.1	10.7	14.5	14.0	18.5	9.8	8.0	13.8	10.0	7.9	7.5	15.3	6.0
** Truncated GeoMetric Mean	42.0	35.0	34.0	36.0	29.0	23.0	21.0	26.0	20.0	16.0	16.0	19.0	15.0	14.0	12.0	15.0	10.0	10.0	10.0	10.0	8.0	7.0	9.0	8.0
** Truncated 90th Percentile	176.0	168.0	106.0	137.0	115.0	89.0	59.0	68.0	71.0	63.0	50.0	59.0	56.0	52.0	37.0	40.0	44.0	38.0	31.0	36.0	30.0	32.0	35.0	34.0

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



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



- | | |
|---|---------------------|
| SCDHEC Shellfish Monitoring Stations | Streets |
| Closed SCDHEC Shellfish Monitoring Stations | Drainage |
| Open SCDHEC Shellfish Monitoring Stations | Town Jurisdiction |
| SCDHEC Shellfish Monitoring Station Classification Change | County Jurisdiction |
| Restricted 2021/2022 Shellfish Season | Water |
| Re-Opened 2021/2022 Shellfish Season | Wetlands |

Town of Bluffton
Beaufort County, SC

SCDHEC SHELLFISH HARVESTING STATUS

0 4 8 17 25 33 42 Miles

Date: 9/17/2021

ACTIVITY - FINANCIAL	STATUS
Funding Opportunities	Council unanimously adopted \$115 SWU Fee and NPDES-related Fees on 6/9/20.
ACTIVITY - POLICIES	STATUS
Sewer Connection & Extension Policy	<i>Completed 2017.</i>
Septic to Sewer Conversion Program	<i>Completed 2018.</i>
Sewer Connection Ordinance and Ordinance Amendment	<i>Completed 2015 and 2018, respectively.</i>
Southern Lowcountry Regional Stormwater Ordinance and Design Manual	<i>Current project updates are included in Engineering Consent Agenda under "Southern Lowcountry Regional Board (SoLoCo)."</i>
ACTIVITY - PROJECTS	STATUS
Sanitary Sewer Extension	Completed Buck Island/Simmonsville Road (BIS) Phases I, II, III, IV; Toy Fields; Jason/Able; and Poseys Court. Six project phases of Historic District sewer extension are proposed in the 5-year Capital Improvement Program. <i>Current project updates are included in Engineering Consent Agenda under "Sewer & Water."</i>
May River 319 Grant Phase 1 - New Riverside Pond (Grant award of \$483,500 in 2009)	<i>Completed 2013.</i>
May River 319 Grant Phase 2 - Pine Ridge (Grant award of \$290,000 in 2011)	<i>Completed 2016.</i>
May River 319 Grant Phase 3 - Town Hall Parking Retrofit (Grant award of \$231,350 in 2016)	<i>Completed 2019.</i>
May River 319 Grant Phase 4 - Sanitary Sewer Connections (Grant award of \$365,558.36 in 2019)	Grant to construct 49 sewer lateral connections in Poseys Court, Little Aaron and Historic District Phases 1 and 2. <i>Current project updates are included in Engineering Consent Agenda under "Sewer & Water."</i>
May River 319 Grant Phase 5 - Bridge Street Streetscape (Grant award of \$179,900 in 2020)	Supports enhanced drainage and water quality improvements as part of the Bridge Street Streetscape project. <i>Current project updates are included in Engineering Consent Agenda under "Pathways."</i>
Stoney Creek Wetlands Restoration: Preliminary Design Phase	Project on hold following Council direction on 5/31/17.
May River Watershed Action Plan Update & Modeling Report	<i>Completed 2021. Town Council adopted the document as a supporting document to the Comprehensive Plan on 2/9/21.</i>
ACTIVITY - PROGRAMS	STATUS
Public Outreach/Participation/Involvement (MS4 Minimum Control Measures #1 & 2)	Outreach and involvement efforts continue through county-wide partnership with Carolina Clear as Lowcountry Stormwater Partners - Neighbors for Clean Water, through local cleanups, civic group presentations, and the May River Watershed Action Plan Advisory Committee. <i>Current updates are included in Engineering Consent Agenda and Attachment 3.</i>
Infrastructure Mapping/GIS (MS4 Minimum Control Measure #3)	Data points continue to be collected with new development to meet MS4 requirements & populate water quality model. <i>Current updates are included in Engineering Consent Agenda Attachment 4a.</i>

ACTIVITY - PROGRAMS continued	STATUS continued
Water Quality Monitoring Program (MS4 Minimum Control Measure #3)	1. SCDHEC Shellfish monitoring results and map 2. <i>E. coli</i> bacteria "hot spot" concentrations 3. Microbial Source Tracking of bacteria 4. Illicit Discharge investigation and monitoring 5. BMP efficacy monitoring 6. MS4 monitoring <i>Current updates are included in Engineering Consent Agenda Attachments 1, 1a, 4b - 4d.</i>
Illicit Discharge Detection & Elimination (IDDE) Program (MS4 Minimum Control Measure #3)	Response to reported and observed non-stormwater discharges to the stormwater drainage system. <i>Current updates are included in Engineering Consent Agenda Attachment 4e.</i>
Construction Site Stormwater Runoff Control Program (MS4 Minimum Control Measure #4)	Sediment and erosion control inspections with escalating enforcement response. <i>Current updates are included in Engineering Consent Agenda Attachment 5.</i>
Stormwater Plan Review & Related Activity Program (MS4 Minimum Control Measure #5)	SCDHEC delegated plan review-related activities. <i>Current updates are included in Engineering Consent Agenda Attachment 6.</i>
Ditch Inspection/Maintenance Program (MS4 Minimum Control Measure #6)	Continued coordination with SCDOT, Beaufort County and Town Public Works to inspect and maintain ditches within the Town's jurisdiction. <i>Current updates are included in Engineering Consent Agenda Attachment 7.</i>
Neighborhood Assistance Program - Septic System Maintenance Program	On-going assistance offered to Town residents regardless of financial status through Neighborhood Assistance Program (NAP). <i>Current updates are provided in Growth Management Consent Agenda.</i>



May River Watershed Action Plan Advisory Committee Meeting

Monday, January 24, 2022 at 9:00 AM

Council Chambers

AGENDA

- I. **CALL TO ORDER**
 - II. **ROLL CALL AND CONFIRMATION OF QUORUM**
 - III. **ADOPTION OF THE AGENDA**
 - IV. **ADOPTION OF MINUTES**
 1. Adoption of December 2, 2021 Minutes
 - V. **PUBLIC COMMENTS**
 - VI. **OLD BUSINESS**
 1. Water Quality Monitoring Program (Standing Item) - Beth Lewis, Water Quality Program Administrator
 - a. Monthly Sampling Update
 - b. Microbial Source Tracking (MST) Update
 - c. SCDHEC Shellfish Data Update
 - VII. **NEW BUSINESS**
 1. Adoption of WAPAC Strategic Planning Priorities for FY23-24 - Kim Jones, Interim Director of Engineering
 - VIII. **DISCUSSION**
 - IX. **ADJOURNMENT**
- NEXT MEETING DATE: Proposed 9:00 AM, Thursday, February 24, 2022**

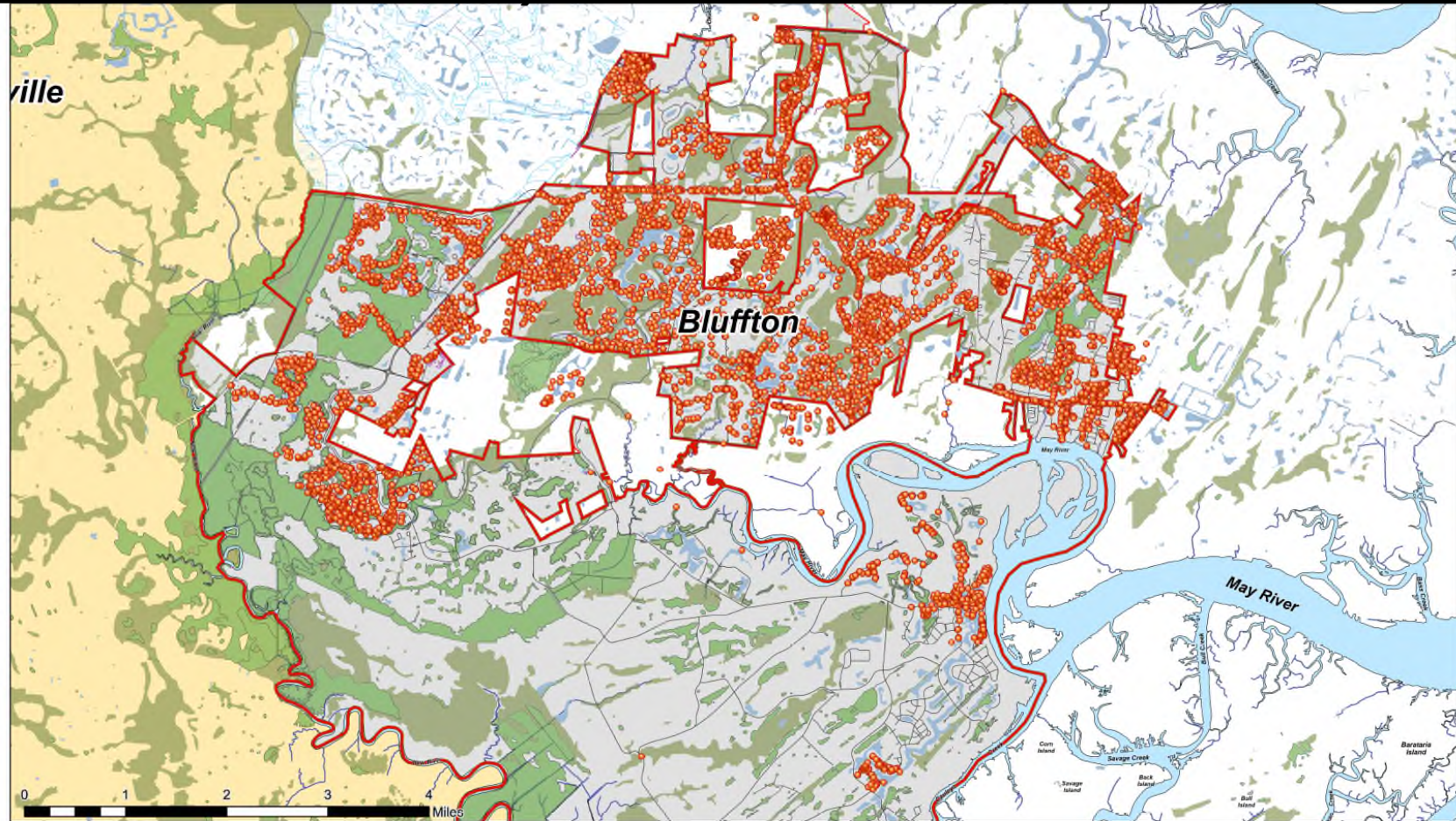
“FOIA Compliance – Public notification of this meeting has been published and posted in compliance with the Freedom of Information Act and the Town of Bluffton policies.”

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.*

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



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

Town of Bluffton
Beaufort County, SC

STORMWATER INFRASTRUCTURE

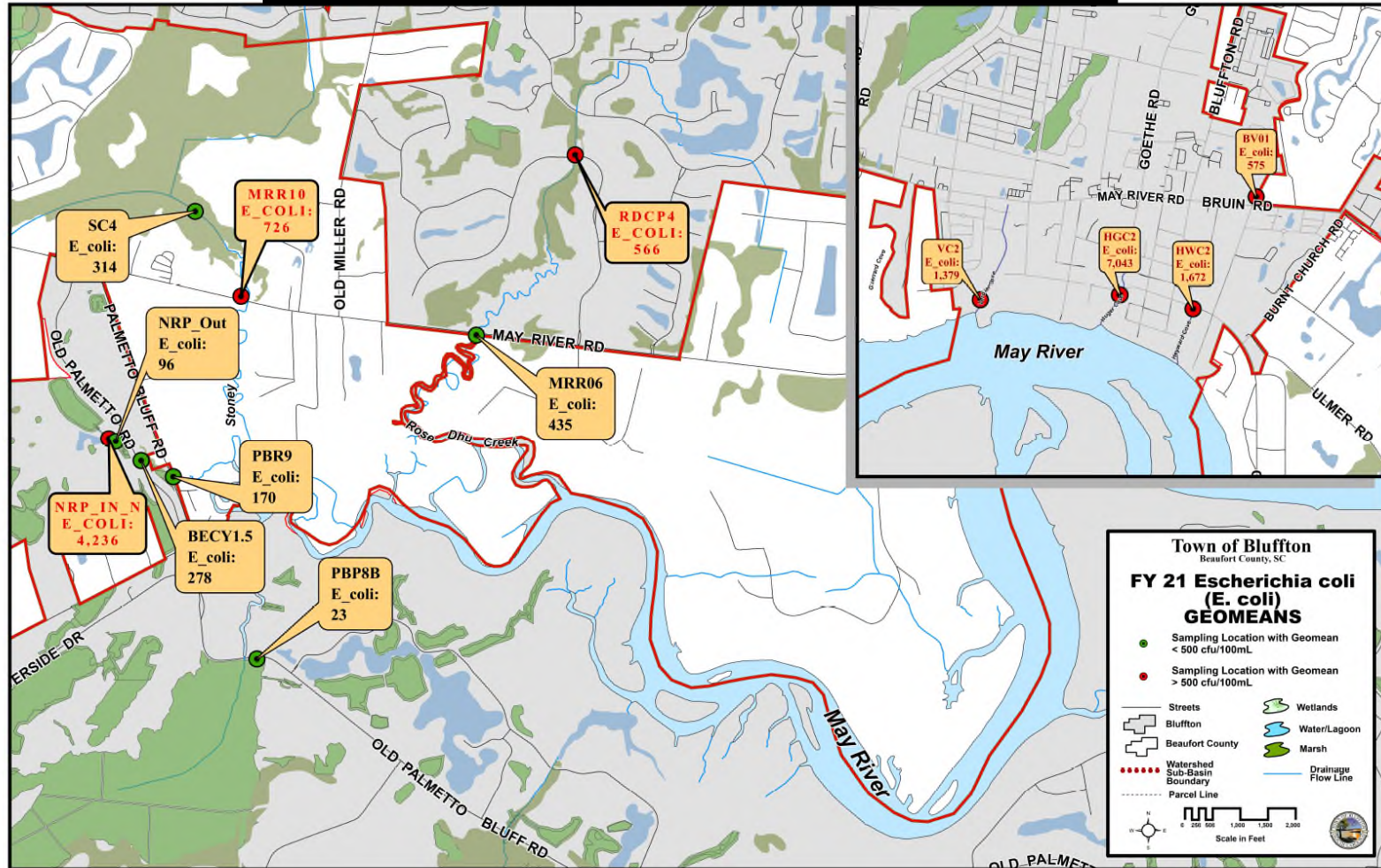
DISCLAIMER: This map was prepared using data provided by the Town of Bluffton and other sources. The Town of Bluffton is not responsible for any errors or omissions in this map. The map is for informational purposes only and should not be used for legal or financial purposes. For more information, please contact the Town of Bluffton at (843) 785-1234.




Updated Date: 12/20/2021

Stormwater Infrastructure Inventory Collection Status	
FY 2022 YTD Collection Totals	1,201
FY 2021 Collection Totals	2,222
FY 2020 Collection Totals	4,878
FY 2019 Collection Totals	2,925

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

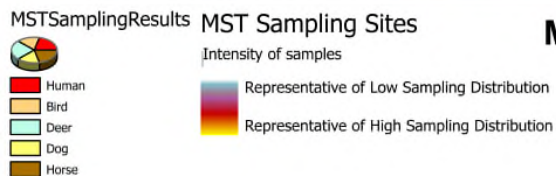
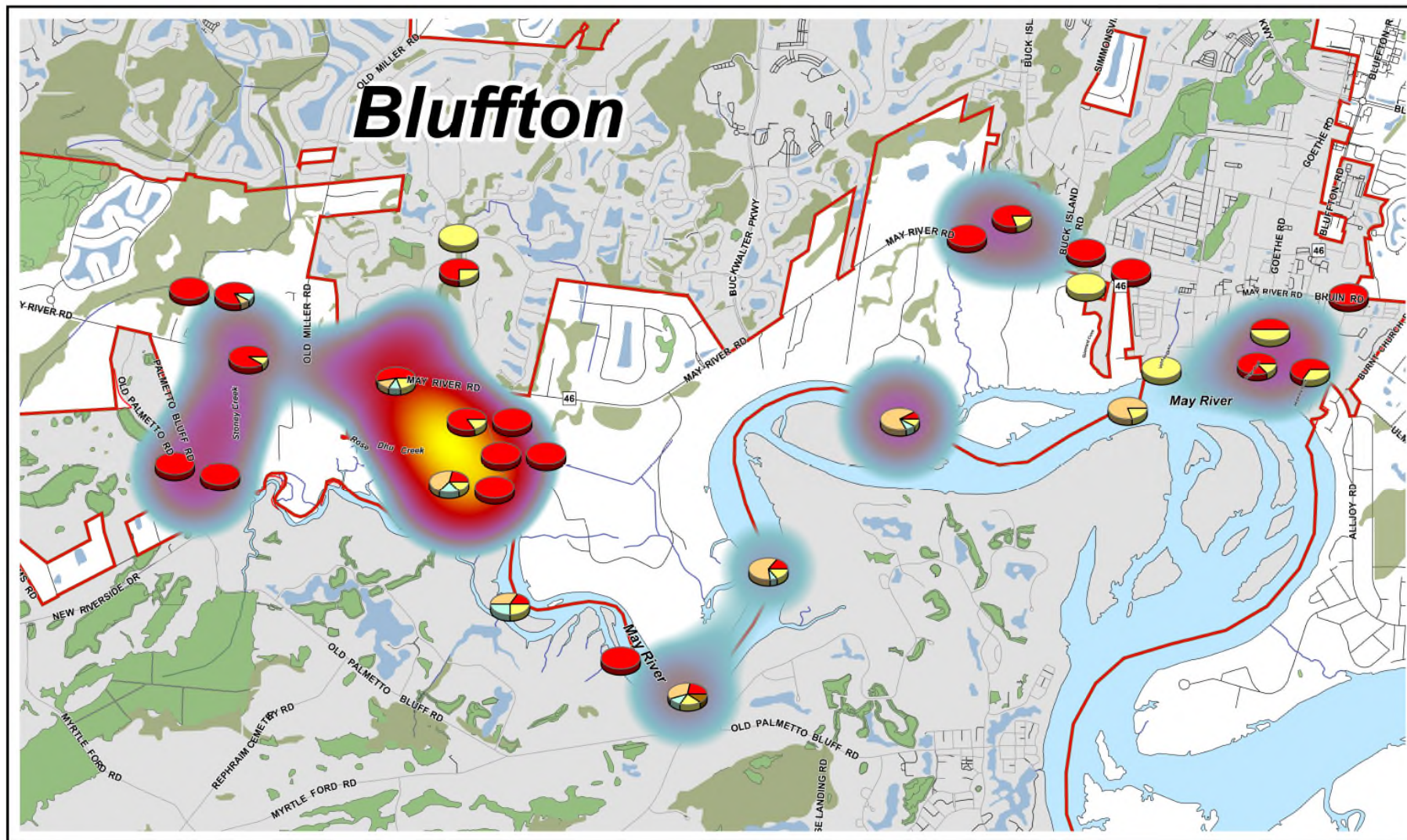


	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2022 YTD Totals	152	32	74
FY 2021 Totals	380	115	179
FY 2020 Totals	223	115	123
FY 2019 Totals	280	193	264

12/27/2021

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

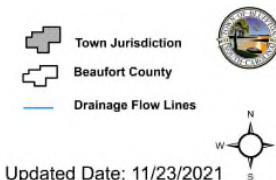
MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Trend Map



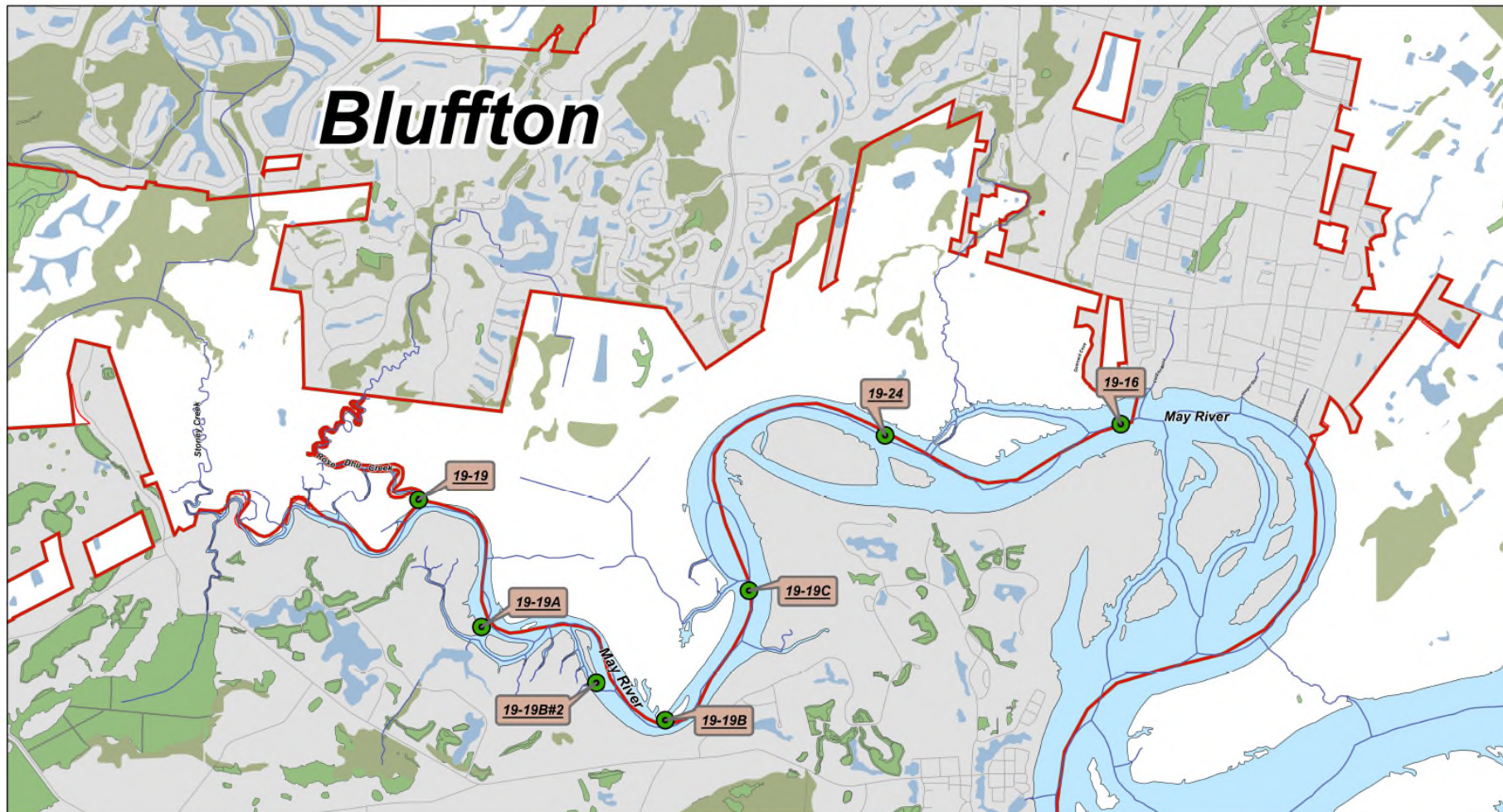
MICROBIAL SOURCE TRACKING (MST) LOCATIONS

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

Town of Bluffton
Beaufort County, SC



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



- MST Sampling Location Without Detection
- MST Sampling Location With Detection
- Flowline
- Street
- + Town Jurisdiction
- + County Jurisdiction

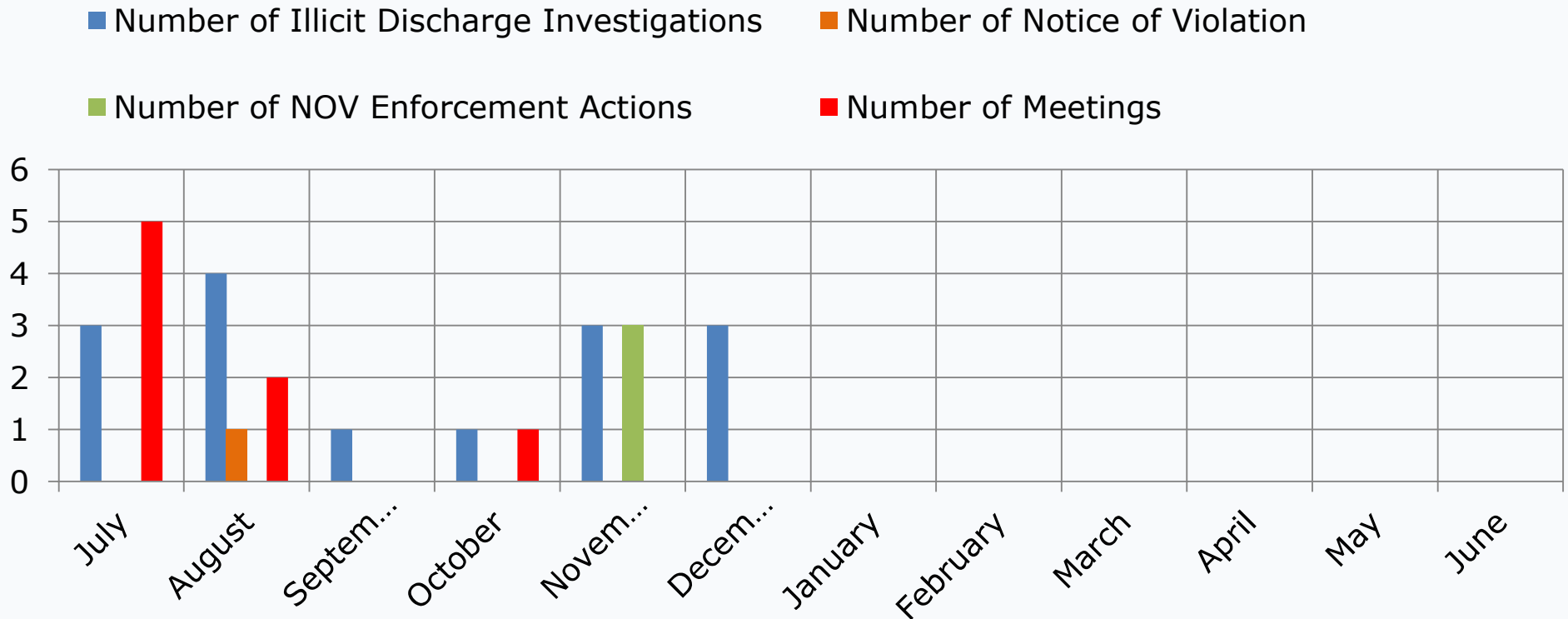
MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results November 2021

Town of Bluffton
Beaufort County, SC

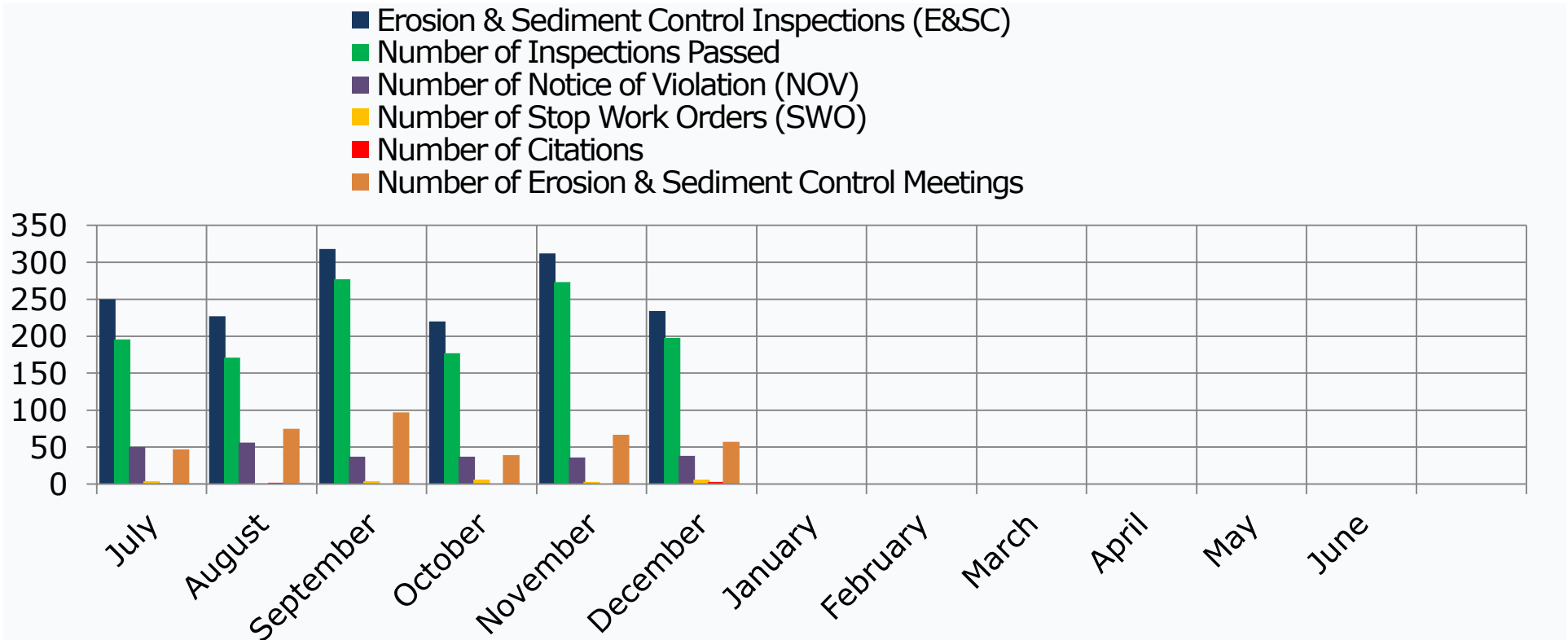


MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



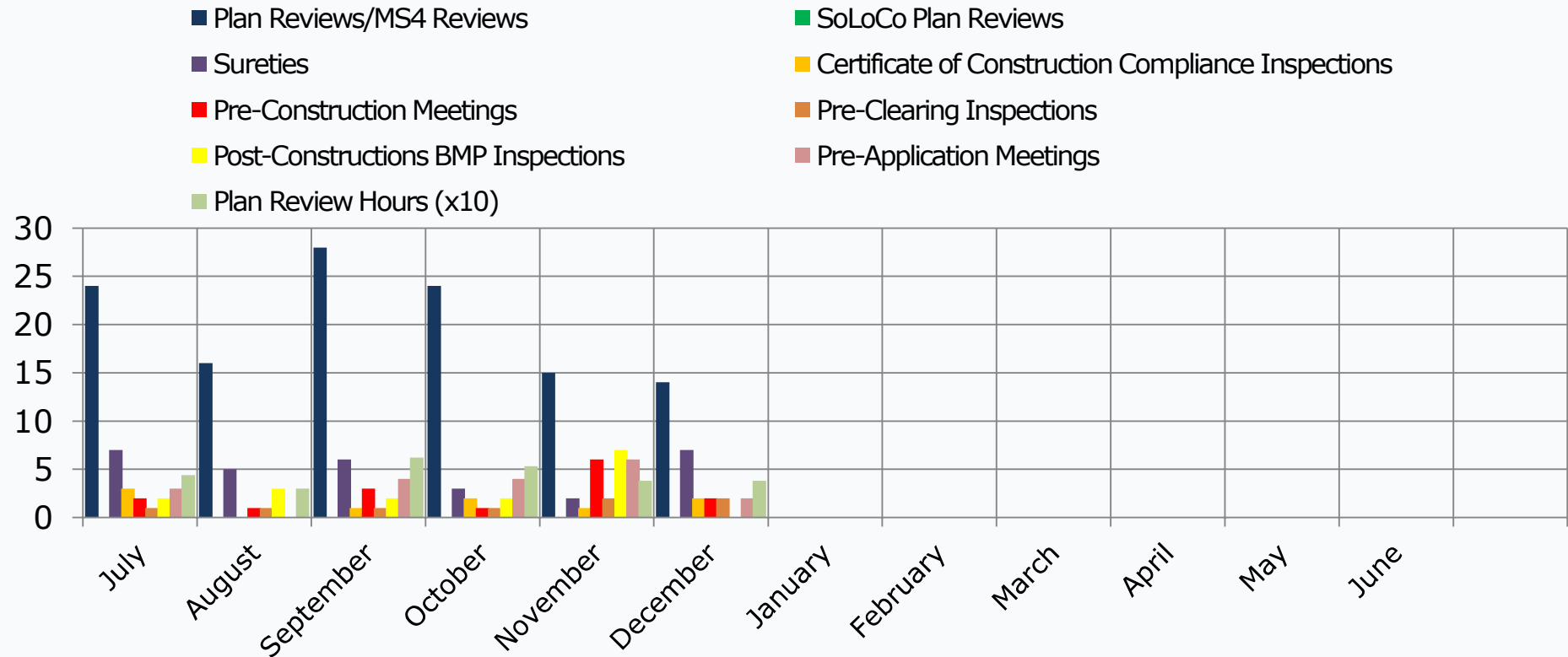
	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2022 YTD Totals	12	1	3	8
FY 2021 Totals	36	11	1	29
FY 2020 Totals	45	8	6	49
FY 2019 Totals	38	3	1	61

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



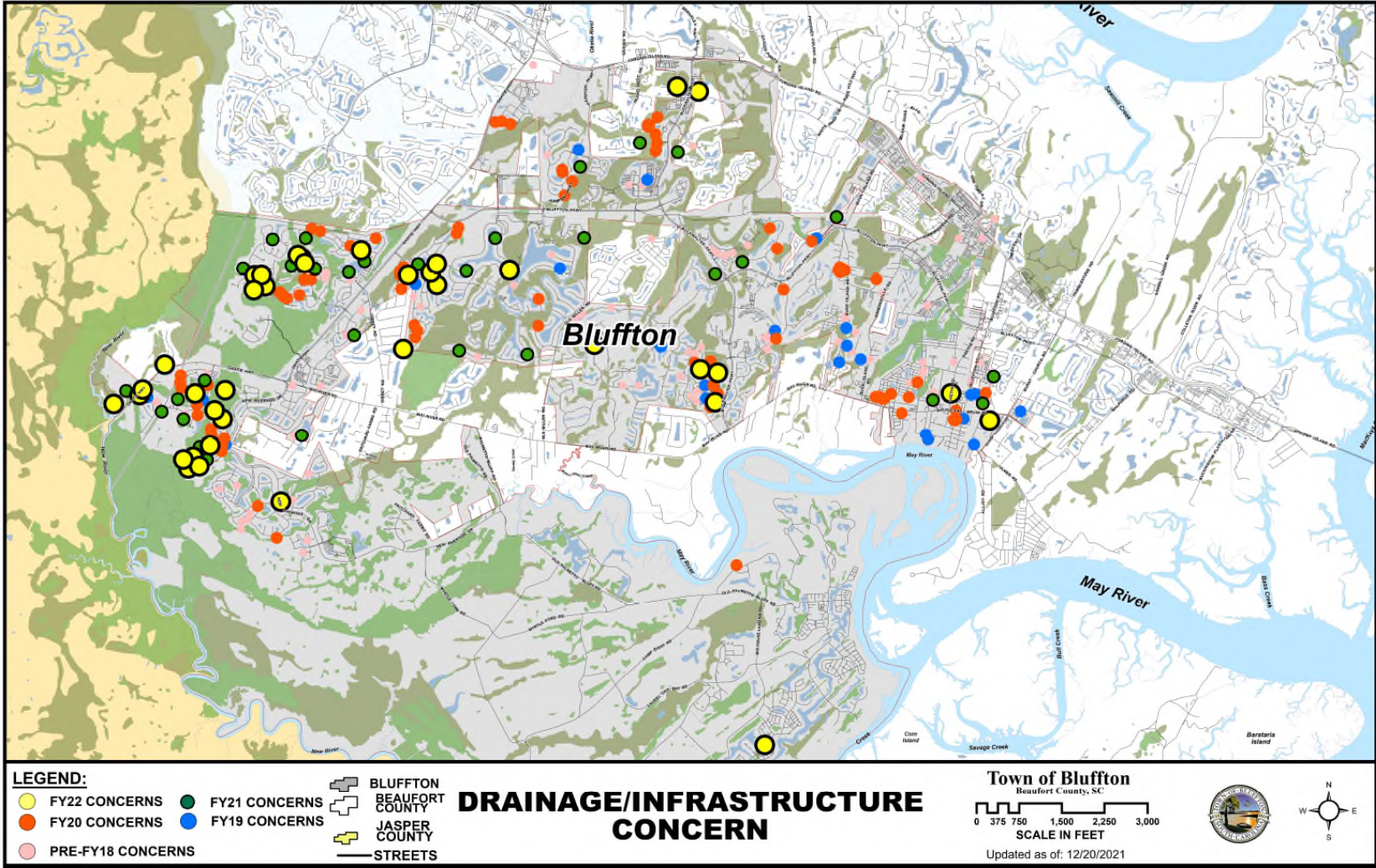
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOV's Issued	Number of SWO Issued	Number of Citations	Number of E&SC Meetings
FY 2022 YTD Totals	1,561	1,292	254	30	6	382
FY 2021 Totals	1,805	1,527	267	32	4	413
FY 2020 Totals	1,517	1,187	185	16	9	496

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



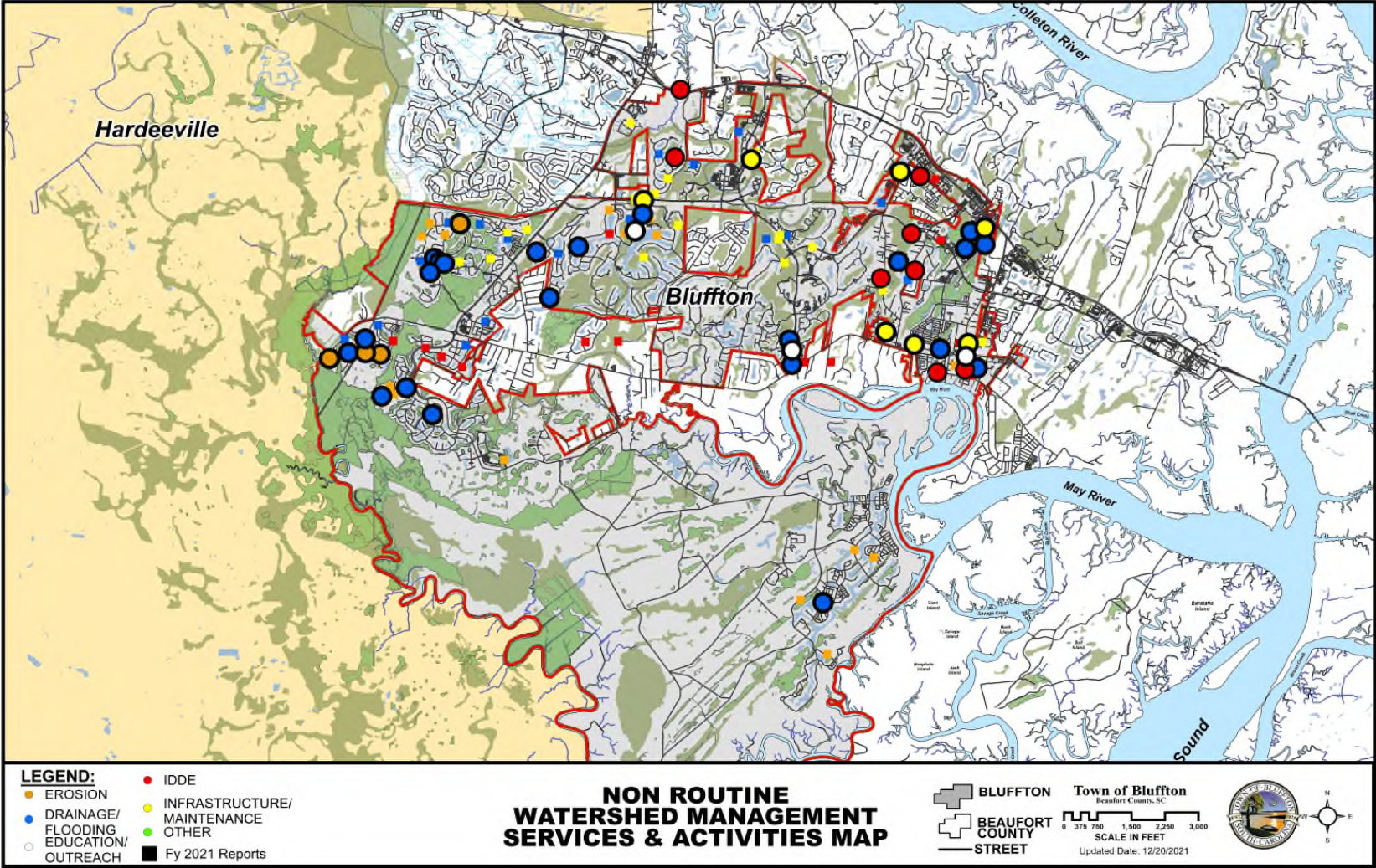
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2022 YTD Totals	121	0	30	9	15	8	16	19	265 Hrs.
FY 2021 Totals	186	0	61	55	24	24	22	41	789 Hrs.
FY 2020 Totals	176	0	53	46	36	17	8	36	1,040 Hrs.

Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2022 YTD Totals	22	22
FY 2021 Totals	45	39
FY 2020 Totals	68	76

Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2022 YTD Totals	19	19
FY 2021 Totals	46	36
FY 2020 Totals	99	102

BOUNDARY STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Septem B M E	October B M E	Novem B M E	Decemt B M E	January B M E	Februa B M E	March B M E	April B M E	May B M E	June B M E	July B M E	August B M E	Septem B M E	October B M E	Novem B M E	Decemt B M E	January B M E	Februa B M E	March B M E	April B M E	May B M E	June B M E	July B M E	August B M E	Septem B M E	October B M E						
1	BOUNDARY STREET STREETScape	536 days	Mon 9/7/20	Mon 9/26/22	◆																															
2	Planning and Conceptual Design	178 days	Mon 9/7/20	Wed 5/12/21	◆																															
13	Final Planning and Construction Documents	188 days	Wed 2/17/21	Fri 11/5/21	◆																															
27	Permitting Phase	55 days	Mon 8/9/21	Fri 10/22/21	◆																															
32	Easements and Land Acquisition	296 days	Mon 8/9/21	Mon 9/26/22	◆																															
41	Construction				◆																															

Project: 00094
Date: Wed 1/27/21

Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
Critical Task	★	Planning and Conceptual Design	◆	Bidding and Contract	◆		
Task	■	Final Design and Construction Documents	◆	Easements and Land Acquisitions	◆		

HISTORIC DISTRICT STREETScape AND DRAINAGE IMPROVEMENTS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	July	August	September	October	November	December	January	February	March	April	May	June	July
1	ADA Compliance Improvements	261 days	Thu 7/1/21	Thu 6/30/22	◆												
2	Planning and Conceptual Design	88 days	Thu 7/1/21	Mon 11/1/21	◆												
6	Final Planning and Construction Documents	76 days	Fri 11/5/21	Fri 2/18/22	◆												
11	Permitting	50 days	Mon 2/21/22	Fri 4/29/22	◆												
16	Bidding and Contract	29 days	Wed 4/6/22	Mon 5/16/22	◆												
20	Construction	32 days	Wed 5/18/22	Thu 6/30/22	◆												

Project: 00050
Date: Fri 12/17/21

Milestone	◆	Task	█	Planning and Conceptual Design	◆	Permitting	◆	Easements and Land Acquisitions	◆	Final Design and Construction Documents	◆	Bidding and Contract	◆	Construction	◆
Critical Task	★	Project Duration	◀▶												

BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2018												2019												2020												2021												2022											
					J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
1	SIDEWALKS AND LIGHTING	1247 days	Thu 2/1/18	Fri 11/11/22	◆																																																											
2	Sidewalk from Jennifer Ct to Simmonsville Rd	405 days	Thu 2/1/18	Wed 8/21/19	◆																																																											
3	Final Design and Construction Documents	120 days	Thu 2/1/18	Wed 7/18/18	◆																																																											
7	Permitting	63 days	Thu 6/21/18	Mon 9/17/18	◆																																																											
9	Easements	220 days	Wed 7/18/18	Tue 5/21/19	◆																																																											
15	Bidding/Contract	106 days	Tue 9/18/18	Tue 2/12/19	◆																																																											
20	Construction	61 days	Wed 5/29/19	Wed 8/21/19	◆																																																											
26																																																																
27	Sidewalk from Kitty Road to 301 Buck Island R	709 days	Thu 2/1/18	Tue 10/20/20	◆																																																											
28	Final Design and Construction Documents	392 days	Thu 2/1/18	Fri 8/2/19	◆																																																											
34	Permitting	40 days	Mon 8/5/19	Fri 9/27/19	◆																																																											
36	Easements	87 days	Mon 9/30/19	Tue 1/28/20	◆																																																											
42	Bidding/Contract	97 days	Mon 9/30/19	Tue 2/11/20	◆																																																											
47	Construction	136 days	Tue 4/14/20	Tue 10/20/20	◆																																																											
53																																																																
54	Sidewalk from Grayco to Sugaree (Simmonsville Rd)	923 days	Mon 10/1/18	Wed 4/13/22	◆																																																											
55	Final Design and Construction Documents	520 days	Mon 10/1/18	Fri 9/25/20	◆																																																											
61	Permitting	180 days	Mon 9/28/20	Fri 6/4/21	◆																																																											
63	Easements	86 days	Mon 6/7/21	Mon 10/4/21	◆																																																											
68	Bidding/Contract	47 days	Mon 6/7/21	Tue 8/10/21	◆																																																											
73	Construction	176 days	Wed 8/11/21	Wed 4/13/22	◆																																																											
80																																																																
81	Sidewalk from Sugaree to Windy Lake (Simmonsville Rd)	1075 days	Mon 10/1/18	Fri 11/11/22	◆																																																											
82	Final Design and Construction Documents	851 days	Mon 10/1/18	Mon 1/3/22	◆																																																											
88	Permitting	60 days	Tue 1/4/22	Mon 3/28/22	◆																																																											
90	Easements	86 days	Tue 3/29/22	Tue 7/26/22	◆																																																											
95	Bidding/Contract	61 days	Tue 3/29/22	Tue 6/21/22	◆																																																											
100	Construction	103 days	Wed 6/22/22	Fri 11/11/22	◆																																																											
107																																																																
108	Lighting from Kitty Road to 301 Buck Island Rd	157 days	Thu 5/13/21	Fri 12/17/21	◆																																																											

Project: 00054 Date: Thu 12/16/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction
	Critical Task	★	Planning and Conceptual Design	◆	Bidding and Contract	◆	
	Task	■	Final Design and Construction Documents	◆	Easements and Land Acquisitions	◆	

MAY RIVER ROAD POCKET PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	MAY RIVER ROAD POCKET PARK	278 days	Thu 7/1/21	Mon 7/25/22	
2	Planning and Conceptual Design	46 days	Thu 7/1/21	Thu 9/2/21	
6	Final Planning and Construction Documents	140 days	Fri 9/3/21	Thu 3/17/22	
13	Permitting	94 days	Mon 11/29/21	Thu 4/7/22	
18	Bidding and Contract	48 days	Fri 3/18/22	Tue 5/24/22	
25	Construction	44 days	Wed 5/25/22	Mon 7/25/22	
28					
29					

Project: 00080
Date: Fri 12/3/21

Milestone	◆	Task		Planning and Conceptual Design		Permitting		Easements and Land Acquisitions		
Critical Task	★	Project Duration		Final Design and Construction Documents		Bidding and Contract		Construction		

GHOST ROADS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020 2021 2022																																			
					Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
1	GHOST ROADS	765 days	Thu 9/12/19	Wed 8/17/22																																				
2	Planning and Conceptual Design	765 days	Thu 9/12/19	Wed 8/17/22																																				

Project: 00093 Date: Wed 11/24/21	Milestone	◆	Project Duration	◆————◆	Permitting	◆————◆	Construction	◆————◆
	Critical Task	★	Planning and Conceptual Design	◆————◆	Easements and Land Acquisition	◆————◆		
	Task	■	Final Design and Construction Documents	◆————◆	Bidding and Contracts	◆————◆		

PARK IMPROVEMENTS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	7/18	7/25	8/1	8/8	8/15	8/22	8/29	9/5	9/12	9/19	9/26	10/3	10/10	10/17	10/24	10/31	11/7	11/14	11/21	11/28	12/5	12/12	12/19	12/26	1/2	1/9	1/16	1/23	1/30	2/6	2/13	2/20	2/27	3/6	3/13	3/20	3/27	4		
1	PARK IMPROVEMENTS FY 22	165 days	Mon 7/26/21	Fri 3/11/22	◆																																							
2	Final Planning and Construction Documents	55 days	Mon 7/26/21	Fri 10/8/21	◆																																							
8	Bidding and Contracts	55 days	Mon 10/11/21	Fri 12/24/21	◆																																							
16	Construction	35 days	Mon 1/24/22	Fri 3/11/22	◆																																							

Project 00086 Wed 11/24/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 6
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022															
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
1	PHASE 6	534 days	Mon 11/2/20	Thu 11/17/22	◆																											
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21	◆																											
9	Final Design and Construction Documents	120 days	Tue 9/28/21	Mon 3/14/22	◆																											
11	Permitting	40 days	Tue 3/15/22	Mon 5/9/22	◆																											
14	Easements and Land Acquisition	150 days	Tue 9/21/21	Mon 4/18/22	◆																											
17	Bidding and Contracts	46 days	Tue 5/10/22	Tue 7/12/22	◆																											
22	Construction	92 days	Wed 7/13/22	Thu 11/17/22	◆																											

Project: 00075 Date: Wed 11/24/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 5
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022															
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
1	PHASE 5	534 days	Mon 11/2/20	Thu 11/17/22	◆																											
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21	◆																											
9	Final Design and Construction Documents	120 days	Tue 9/28/21	Mon 3/14/22	◆																											
11	Permitting	40 days	Tue 3/15/22	Mon 5/9/22	◆																											
14	Easements and Land Acquisition	150 days	Tue 9/21/21	Mon 4/18/22	◆																											
17	Bidding and Contracts	46 days	Tue 5/10/22	Tue 7/12/22	◆																											
22	Construction	92 days	Wed 7/13/22	Thu 11/17/22	◆																											

Project: 00074 Date: Wed 11/24/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	2021												2022											
						Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	PHASE 4	534 days	Mon 11/2/20	Thu 11/17/22		◆																							
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21		◆																							
9	Final Design and Construction Documents	120 days	Tue 9/28/21	Mon 3/14/22		◆																							
11	Permitting	40 days	Tue 3/15/22	Mon 5/9/22		◆																							
14	Easements and Land Acquisition	105 days	Tue 9/21/21	Mon 2/14/22		◆																							
17	Bidding and Contracts	46 days	Tue 5/10/22	Tue 7/12/22		◆																							
22	Construction	92 days	Wed 7/13/22	Thu 11/17/22		◆																							

Project: 00073	Milestone ◆	Project Duration ◆	Permitting ◆	Construction ◆
Date: Wed 11/24/21	Critical Task ★	Planing and Conceptual Design ◆	Easements and Land Acquisitions ◆	
	Task ■	Final Design and Construction Documents ◆	Bidding and Contracts ◆	

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 3
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021												2022																	
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1	PHASE 3	534 days	Mon 11/2/20	Thu 11/17/22	◆																													
2	Planning and Conceptual Design	236 days	Mon 11/2/20	Mon 9/27/21	◆																													
9	Final Design and Construction Documents	120 days	Tue 9/28/21	Mon 3/14/22	◆																													
11	Permitting	40 days	Tue 3/15/22	Mon 5/9/22	◆																													
14	Easements and Land Acquisition	105 days	Tue 9/21/21	Mon 2/14/22	◆																													
17	Bidding and Contracts	46 days	Tue 5/10/22	Tue 7/12/22	◆																													
22	Construction	92 days	Wed 7/13/22	Thu 11/17/22	◆																													

Project: 00072
Date: Wed 11/24/21

Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 2
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Timeline											
						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			
1	PHASE 2	1024 days	Mon 7/2/18	Thu 6/2/22		◆											
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	Bidding and Contracts	137 days	Mon 8/9/21	Tue 2/15/22		◆											
22	Construction	77 days	Wed 2/16/22	Thu 6/2/22		◆											

Project: 00071 Date: Wed 11/24/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

OYSTER FACTORY PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020 2021 2022																																			
					O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S
1	Oyster Factory Park	830 days	Mon 10/14/19	Fri 12/16/22																																				
2	Planning and Conceptual Design	625 days	Mon 10/14/19	Fri 3/4/22																																				
9	Easement and Land Acquisition	210 days	Tue 5/11/21	Mon 2/28/22																																				
11	Construction	205 days	Mon 3/7/22	Fri 12/16/22																																				

Project: 00059
Date: Wed 11/24/21

Milestone
Critical Task
Task



Project Duration
Planning and Conceptual Design
Final Design and Construction Documents



Permitting
Easements and Land Acquisition
Bidding and Contracts



Construction



BUCK ISLAND-SIMMONSVILLE SANITARY SEWER PHASE 5 A-D
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Timeline																							
						4, 2016 Nov Dec	Qtr 1, 2017 Jan Feb Mar	Qtr 2, 2017 Apr May Jun	Qtr 3, 2017 Jul Aug Sep	Qtr 4, 2017 Oct Nov Dec	Qtr 1, 2018 Jan Feb Mar	Qtr 2, 2018 Apr May Jun	Qtr 3, 2018 Jul Aug Sep	Qtr 4, 2018 Oct Nov Dec	Qtr 1, 2019 Jan Feb Mar	Qtr 2, 2019 Apr May Jun	Qtr 3, 2019 Jul Aug Sep	Qtr 4, 2019 Oct Nov Dec	Qtr 1, 2020 Jan Feb Mar	Qtr 2, 2020 Apr May Jun	Qtr 3, 2020 Jul Aug Sep	Qtr 4, 2020 Oct Nov Dec	Qtr 1, 2021 Jan Feb Mar	Qtr 2, 2021 Apr May Jun	Qtr 3, 2021 Jul Aug Sep	Qtr 4, 2021 Oct Nov Dec	Qtr 1, 2022 Jan Feb Mar	Qtr 2, 2022 Apr May Jun	Qtr 3, 2022 Jul Aug Sep
1	PHASE 5 A-D	1560 days?	Thu 12/1/16	Wed 11/23/22		◆																							
2	Planning and Conceptual Design	6 days	Thu 12/1/16	Thu 12/8/16		◆																							
4	Permitting	474 days	Fri 12/9/16	Wed 10/3/18		◆																							
11	Easements and Land Acquisition	642 days	Mon 4/3/17	Tue 9/17/19		◆																							
16	Bidding and Contracts	50 days	Wed 1/1/20	Tue 3/10/20		◆																							
21	Construction	568 days	Mon 9/21/20	Wed 11/23/22		◆																							
41																													
42																													

Project: 00044 Date: Wed 11/24/21	Milestone Critical Task	◆ ★	Task Project Duration	█ ◆	Planning and Conceptual Design Final Design and Construction Documents	◆ ◆	Permitting Bidding and Contract	◆ ◆	Easements and Land Acquisitions Construction	◆ ◆
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CALHOUN STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	May	June	July	August	Septem	October	Novemb	Decemb	January	Februar	March	April	May	June	July	August	Septem	October	Novemb	Decemb	January	Februar	March	April	May	June	July	August	Septem	October	Novemb	Decemb	January	Februar	March	April	May	June	July
1	CALHOUN STREET STREETScape	796 days	Mon 5/18/20	Mon 6/5/23	◆																																						
2	Planning and Conceptual Design	80 days	Mon 5/18/20	Fri 9/4/20	◆																																						
7	Final Planning and Construction Documents	535 days	Mon 9/7/20	Fri 9/23/22	◆																																						
28	Permitting Phase (Phase 1)	75 days	Mon 6/13/22	Fri 9/23/22	◆																																						
33	Easements and Land Acquisition (Phase 1)	261 days	Mon 6/6/22	Mon 6/5/23	◆																																						

Project: 00042
Date: Wed 11/24/21

Milestone	◆	Task	█	Planning and Conceptual Design	◆	Permitting	◆	Easements and Land Acquisitions	◆	Construction
Critical Task	★	Project Duration	◆	Final Design and Construction Documents	◆	Bidding and Contract	◆		◆	

BOUNDARY STREET LIGHTING
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020												2021												2022								
					Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar											
1	BOUNDARY STREET LIGHTING PHASE 2	683 days	Mon 7/8/19	Wed 2/16/22	◆																																
2	Planning and Conceptual Design	661 days	Mon 7/8/19	Mon 1/17/22	◆																																
13	Permitting	90 days	Mon 1/20/20	Fri 5/22/20	◆																																
15	Easements and Land Acquisition	164 days	Tue 6/1/21	Fri 1/14/22	◆																																
18	Construction	118 days	Mon 9/6/21	Wed 2/16/22	◆																																

Project: 00069 Date: Wed 11/24/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contract	◆		

BUCK ISLAND-SIMMONSVILLE SANITARY SEWER PHASE 5 A-D
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	21	Qtr 3, 2021	Qtr 4, 2021	Qtr 1, 2022	Qtr 2, 2022	Qtr 3, 2022	Qtr 4, 2022	Qtr 1, 2023	Qtr 2, 2023	Qtr 3, 2023	Qtr 4, 2023	Qtr 1, 2024	Qtr 2, 2024	Qtr 3, 2024	Qtr 4, 2024	Qtr 1, 2025	Qtr 2, 2025	Qtr 3, 2025	Qtr 4, 2025	Qtr 1, 2026	Qtr 2, 2026	Qtr 3,			
					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
1	Comprehensive Drainage Plan Improvements	1304 days	Thu 7/1/21	Tue 6/30/26																									
2	Asset Inventory and H/H Model	731 days	Mon 8/2/21	Mon 5/20/24																									
3	Final Design Drainage Projects	566 days	Mon 5/1/23	Mon 6/30/25																									
4	Comprehensive Drainage Projects Bid and Award	350 days	Mon 7/1/24	Fri 10/31/25																									
5	Comprehensive Drainage Construction	483 days	Fri 8/23/24	Tue 6/30/26																									

Project: 00044
Date: Fri 10/29/21

Milestone	◆	Task		Planning and Conceptual Design		Permitting		Easements and Land Acquisitions	
Critical Task	★	Project Duration		Final Design and Construction Documents		Bidding and Contract		Construction	

SQUIRE POPE CARRIAGE HOSUE
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Jun	Jul	Aug	Sep	Oct	Nov	Dec	2022 Jan	Feb	Mar					
1	Stabilization Phase	175 days	Thu 7/8/21	Wed 3/9/22															
2	Planning and Conceptual Design	15 days	Thu 7/8/21	Wed 7/28/21															
5	Final Design and Construction Documents	80 days	Thu 7/29/21	Wed 11/17/21															
10	Permitting	30 days	Thu 11/18/21	Wed 12/29/21															
12	Bidding and Contracts	50 days	Thu 12/30/21	Wed 3/9/22															

Project: 00067 Date: Fri 10/29/21	Milestone	◆	Project Duration	◆————◆	Permitting		Construction	
	Critical Task	★	Planing and Conceptual Design		Easements and Land Acquisitions			
	Task		Final Design and Construction Documents		Bidding and Contracts			

**GOETHE-SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2
PROPOSED SCHEDULE**

ID	Task Name	Duration	Start	Finish	2018		Half 2, 2018			Half 1, 2019			Half 2, 2019			Half 1, 2020			Half 2, 2020			Half 1, 2021			Half 2, 2021			Half 1,				
					Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan				
1	GOETHE/SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2	970 days	Mon 4/30/18	Fri 1/14/22																												
2	PLANNING AND CONCEPTUAL DESIGN	326 days	Mon 4/30/18	Mon 7/29/19																												
12	FINAL DESIGN AND CONSTRUCTION DOCUMENTS	209 days	Tue 7/30/19	Fri 5/15/20																												
21	PERMITTING	128 days	Mon 5/18/20	Wed 11/11/20																												
25	EASEMENTS AND LAND ACQUISITION	187 days	Mon 4/6/20	Tue 12/22/20																												
32	BIDDING AND CONTRACTS	101 days	Tue 12/1/20	Tue 4/20/21																												
37	CONSTRUCTION	193 days	Wed 4/21/21	Fri 1/14/22																												

Project: 00055
Date: Fri 10/22/21

Milestone	◆	Project Duration	◆————◆	Permitting		Construction	
Critical Task	★	Planning and Conceptual Design		Easements and Land Acquisition			
Task		Final Design and Construction Documents		Bidding and Contracts			

BRIDGE STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	BRIDGE STREET STREETScape	681 days	Mon 9/2/19	Mon 4/11/22	
2	Planning and Conceptual Design	233 days	Mon 9/2/19	Wed 7/22/20	
17	Final Design	338 days	Wed 7/22/20	Fri 11/5/21	
23	Permitting	155 days	Mon 5/3/21	Fri 12/3/21	
28	Easements and Land Acquisition	200 days	Mon 4/19/21	Fri 1/21/22	
35	Bidding	71 days	Mon 1/3/22	Mon 4/11/22	

Project: 00082
Date: Fri 10/22/21

Milestone	◆	Project Duration	◆————◆	Permitting		Construction	
Critical Task	★	Planning and Conceptual Design		Easements and Land Acquisition			
Task		Final Design and Construction Documents		Bidding and Contracts			

NEW RIVERSIDE PARK/BARN SITE
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020												2021												2022											
					J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	
1	NEW RIVERSIDE PARK/BARN SITE	732 days	Mon 7/1/19	Tue 4/19/22	◆																																			
2	Planning and Conceptual Master Plan	377 days	Mon 7/1/19	Tue 12/8/20	◆																																			
27	Final Design (Phase 1)	240 days	Mon 12/14/20	Fri 11/12/21	◆																																			
37	Permitting (Phase 1)	70 days	Mon 8/23/21	Fri 11/26/21	◆																																			
41	Bidding (Phase 1)	92 days	Mon 11/29/21	Tue 4/5/22	◆																																			
47	Construction Start	1 day	Tue 4/19/22	Tue 4/19/22	★																																			

Project: 00085 Date: Fri 10/22/21	Milestone ◆	Project Duration ◆	Permitting ◆	Construction ◆
	Critical Task ★	Planning and Conceptual Design ◆	Easements and Land Acquisition ◆	
	Task ■	Final Design and Construction Documents ◆	Bidding and Contracts ◆	

**BUCKWALTER PLACE PARKING IMPROVEMENTS
PROPOSED SCHEDULE**

ID	Task Name	Duration	Start	Finish	July 6/27	8/8	October 9/19	10/31	January 12/12	1/23	3/6	April 4/17	5/29	July
0	00098 Buckwalter Place Parking Improvements	224 days	Sun 8/1/21	Thu 6/9/22										
1	Planning & Conceptual Design	81 days	Sun 8/1/21	Mon 11/22/21										
5	Final Design & Construction Documents	45 days	Tue 10/5/21	Mon 12/6/21										
8	Permitting	75 days	Tue 10/5/21	Mon 1/17/22										
11	Easements & Land Acquisition	21 days	Tue 10/5/21	Tue 11/2/21										
13	Bidding & Contracts	32 days	Tue 1/18/22	Wed 3/2/22										
18	Construction	71 days	Thu 3/3/22	Thu 6/9/22										

Project: 00098
Date: Thu 10/21/21

Milestone
Critical Task
Task



Project Duration
Planning and Conceptual Design
Final Design and Construction Documents



Permitting
Easements and Land Acquisition
Bidding and Contracts



Construction



Historic District Streetscape and Drainage
Proposed Schedule

ID	Task Name	Duration	Start	Finish	June 1	July 1	August 1	September 1	October 1	November 1	December 1	January 1	February 1	March 1	April 1	May 1	June 1	July 1	August 1	September 1	October 1	November 1	December 1	January 1	February 1	March 1	April 1					
1	Traffic Calming Study and AME Church Rain Garden	443 days	Wed 7/1/20	Fri 3/11/22	[Timeline bar from June 1, 2020 to March 11, 2022]																											
2	Traffic Calming Planning and Conceptual Design	163 days	Mon 11/16/20	Wed 6/30/21	[Timeline bar from November 16, 2020 to June 30, 2021]																											
7	AME Final Design and Construction Documents	209 days	Wed 10/28/20	Mon 8/16/21	[Timeline bar from October 28, 2020 to August 16, 2021]																											
10	AME Bidding and Contracts	90 days	Mon 8/16/21	Fri 12/17/21	[Timeline bar from August 16, 2021 to December 17, 2021]																											
16	AME Construction	60 days	Mon 12/20/21	Fri 3/11/22	[Timeline bar from December 20, 2021 to March 11, 2022]																											

Project: 00050 HD Streetscape
Date: Wed 10/20/21

Task		Project Summary		Manual Task		Start-only		Deadline	
Split		Inactive Task		Duration-only		Finish-only		Progress	
Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress	
Summary		Inactive Summary		Manual Summary		External Milestone			

OSCAR FRAZIER PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Timeline																											
					August	September	October	November	December	January	February	March																				
1	PARK IMPROVEMENTS FY 22	165 days	Mon 7/26/21	Fri 3/11/22	◆																											
2	Final Planning and Construction Documents	55 days	Mon 7/26/21	Fri 10/8/21	◆																											
8	Bidding and Contracts	55 days	Mon 10/11/21	Fri 12/24/21	◆																											
16	Construction	35 days	Mon 1/24/22	Fri 3/11/22	◆																											

Project 00066 Tue 10/5/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

NEW RIVER TRAIL
PROPOSED SCHEDULE

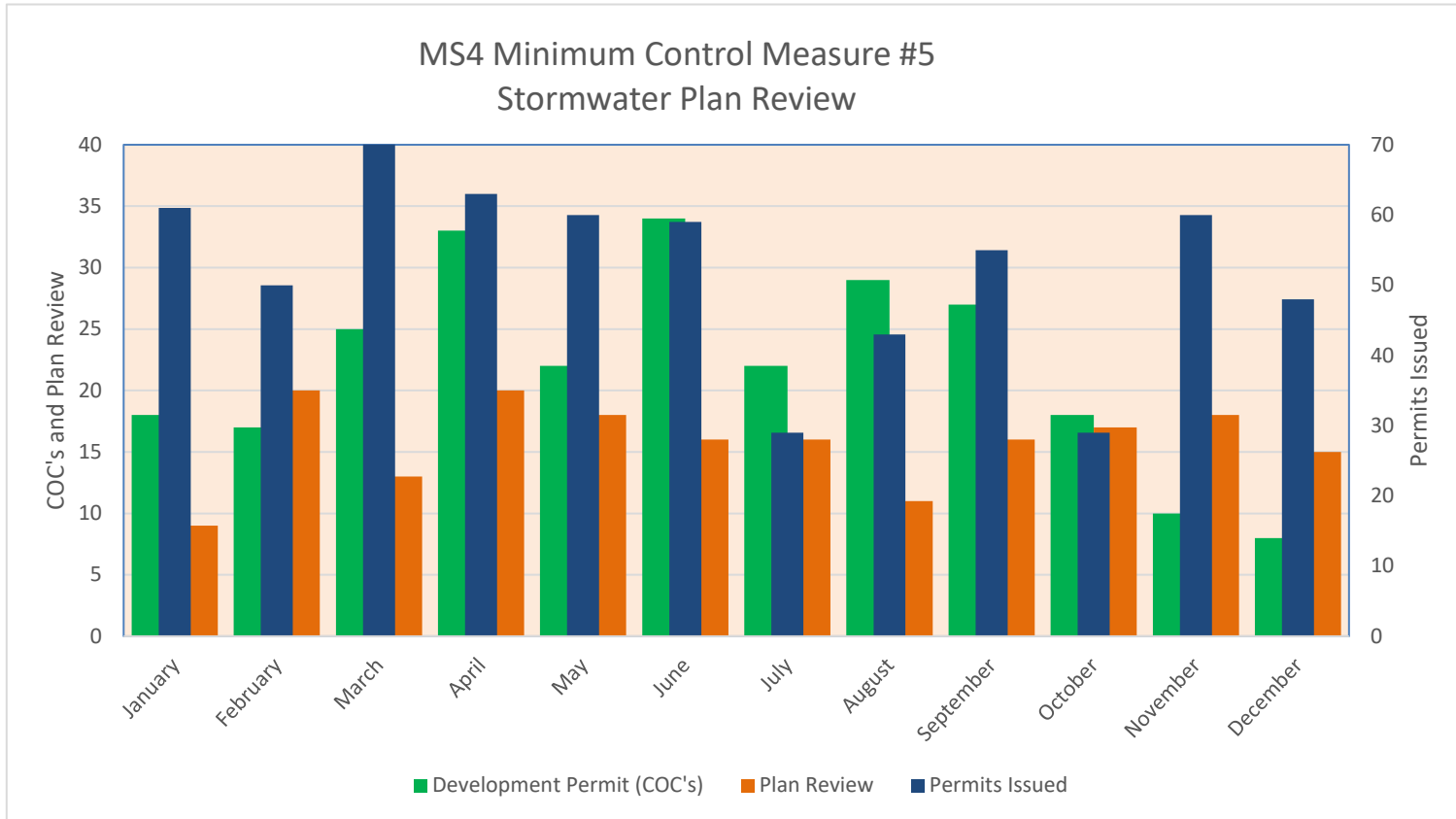
ID	Task Name	Duration	Start	Finish	Timeline																																																		
					July	B	M	E	August	B	M	E	September	B	M	E	October	B	M	E	November	B	M	E	December	B	M	E	January	B	M	E	February	B	M	E	March	B	M	E	April	B	M	E	May	B	M	E	June	B	M	E	July	B	M
1	NEW RIVER TRAIL	287 days	Mon 7/5/21	Tue 8/9/22																																																			
2	Planning	121 days	Mon 7/5/21	Mon 12/20/21																																																			
14	Final Planning and Construction Documents	80 days	Mon 1/3/22	Fri 4/22/22																																																			
24	Permitting	40 days	Mon 3/14/22	Fri 5/6/22																																																			
29	Bidding and Contracts	72 days	Mon 5/2/22	Tue 8/9/22																																																			

Project 00092 Tue 10/5/21	Milestone ◆	Project Duration	Permitting	Construction
	Critical Task ★	Planning and Conceptual Design	Easements and Land Acquisition	
	Task	Final Design and Construction Documents	Bidding and Contracts	

WHARF STREET LIGHTING
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Predecessor	2022												2023											
					Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	
1	WARF STREET LIGHTING	453 days	Mon 7/5/21		◆																							
2	Planning and Conceptual Design	360 days	Mon 7/5/21		◆																							
12	Permitting	90 days	Mon 11/22/21		◆																							
14	Easements and Land Acquisition	160 days	Fri 7/1/22		◆																							
17	Construction	192 days	Tue 7/5/22		◆																							

Project: 00068	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
Date: Mon 9/27/21	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contract	◆		



TYPE	January	February	March	April	May	June	July	August	September	October	November	December	Last 12 Months
Development Permit (COC's)	18	17	25	33	22	34	22	29	27	18	10	8	263
Plan Review	9	20	13	20	18	16	16	11	16	17	18	15	189
Permits Issued	61	50	75	63	60	59	29	43	55	29	60	48	524

MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	January	February	March	April	May	June	July	August	September	October	November	December	Last 12 Months
Inspections Performed	632	724	794	603	476	743	662	654	530	323*	611	538	5818
Drainage Complaints	0	0	0	0	0	0	0	0	0	0	0	0	0
IDDE Issues Investigated	1	0	1	1	0	0	0	1	0	1	0	0	5
Enforcement Actions	21	19	4	16	10	22	13	12	22	17	21	14	191
Post Construction BMP'S	1	2	0	1	0	0	0	0	0	0	1	0	9

Lowcountry Stormwater Partners (LSP) Monthly Report
12/01/21 – 1/05/22

Completed Stormwater Outreach/Involvement Activities:

- Gullah Co-Op Pond Consult
 - 12/7/21, in person, 1
- Protecting Tidal Creeks with Planted Buffers Webinar
 - 12/9/21, virtual, 57
- Direct Client Contacts
 - Phone calls, 2
- LSP Changing Tides Newsletter
 - The Changing Tides is an informative publication for the general public. It includes a small article on a stormwater-related topic and information on past, current, and future events.
 - 12/13/21, online, 145

Ongoing Stormwater Outreach/Involvement Activities:

- LSP Rain Barrel Sale
 - We are now offering the 100% Recycled Ivy Rain Barrel at \$70.00 each! Order your rain barrel today and schedule a pick-up time that works with your schedule. All pick-ups occur at the Clemson Extension Office (18 John Galt Rd. Beaufort, SC 29906)
 - Ongoing, 17 already sold, 16 left, [website](#)
- Septic System Resources
 - The four factsheets are undergoing the final peer-review process.
- LSP Facebook Page
 - The LSP Facebook serves to engage and involve citizens in water quantity and water quality information. The page also announces events.
 - 388 Likes, 412 Followers, 1101 reach, 34 posts

Planned Stormwater Outreach/Involvement Activities:

- Construction Site Social Media Campaign
 - January 23-29, 2022
- LSP Changing Tides Newsletter
 - The Changing Tides is an informative publication for the general public. It includes a small article on a stormwater-related topic and information on past, current, and future events.
 - 1/13/22, online
- LSP Consortium Meeting
 - 2/22/22, in person
- Healthy Pond Series (Wildlife)
 - Healthy Pond Series is an opportunity for HOA/POA representatives, pond owners, and pond managers to increase their knowledge of pond management best practices. This community-based discussion series will provide a way for pond owners to learn, connect, and share.
 - 2/24/22, virtual
- LSP Annual Report Draft
 - 3/1/22
- Flooding 411: Ask an Expert (Insurance)
 - These one hour, lunch-and-learn sessions focus on timely and specific, flooding-related topics. Experts present and then are available for questions from attendees.
 - 3/2/22, virtual

Planned Stormwater Outreach/Involvement Activities (cont.):

- LSP Annual Report Final
 - 3/15/22
- Healthy Pond Series (Cultivating a Carolina Yard: Landscaping for Healthy Ponds)
 - Healthy Pond Series is an opportunity for HOA/POA representatives, pond owners, and pond managers to increase their knowledge of pond management best practices. This community-based discussion series will provide a way for pond owners to learn, connect, and share.
 - 5/12/22, in person
- LSP Consortium Meeting
 - 5/17/22, TBD
- Flooding 411:
 - This series helps residents better understand the different causes of flooding, the roles different agencies play in flood response and recovery, ways to protect both personal and community property, as well as examples of successful flood management in the state. Various expert present during four, 90-minute webinars held over the course of a month.
 - 6/8-27/22, virtual
- Healthy Pond Series (Planting Vegetated Shorelines)
 - Healthy Pond Series is an opportunity for HOA/POA representatives, pond owners, and pond managers to increase their knowledge of pond management best practices. This community-based discussion series will provide a way for pond owners to learn, connect, and share.
 - 9/8/22, in person
- Flooding 411: Ask an Expert (Meet Your Floodplain Manager)
 - These one hour, lunch-and-learn sessions focus on timely and specific, flooding-related topics. Experts present and then are available for questions from attendees.
 - 9/14/22, virtual
- LSP Consortium Meeting
 - 9/20/22, TBD
- Flooding 411: Ask an Expert (Dams)
 - These one hour, lunch-and-learn sessions focus on timely and specific, flooding-related topics. Experts present and then are available for questions from attendees.
 - 12/7/22, virtual
- Healthy Pond Series (Aeration)
 - Healthy Pond Series is an opportunity for HOA/POA representatives, pond owners, and pond managers to increase their knowledge of pond management best practices. This community-based discussion series will provide a way for pond owners to learn, connect, and share.
 - 12/8/22, virtual
- LSP Consortium Meeting
 - 12/13/22, TBD

Other Activities for Strategic Plan Compliance:

- Pet Waste Station Map
- Small grants program
- Soil sample post cards and placards for retailers
- Soil sample bag distribution
- Promotional seed packet
- Native plant distributor list
- Native plant signage
- LID Lunch-and-Learns
- BMP workshop for homeowners
- BMP survey

Completed Strategic Plan Items:

- Pond Workshop
- Pond training listserv and direct mailer list
- Pet waste mass media campaign
- 2019 Beaufort Area Stormwater Pond Conference
- Master Pond Manager
- Pond mass media campaign
- Pond management website
- Soil sample trainings (satisfied by Cultivating a Carolina Yards workshops)
- Soil sample bags at festivals, nurseries, farmer's markets, and Master Gardener events
- Construction site trainings for contractors (satisfied by CEPSCI courses)
- LID factsheets
- LID training for design professionals (will be satisfied when DNR's Coastal Training Program reschedules to LID Manual Training)
- LID signs
- BMP workshops for homeowners (satisfied by Cultivating a Carolina Yards workshops, rain garden presentations, and Being a Neighbor for Clean Water Webinar Series)
- Master Rain Gardener
- Step-stake sign for rain gardens
- Rain Garden Rack Card
- Pond Rack Card
- Buffer Packets
- Contractor trainings



MEMORANDUM

Date: January 3, 2022

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

This report will cover nine minor projects. The Project Summary Reports are attached.

Minor or Routine Projects:

- **Sonya Faye Lane – Port Royal Island (SWUD 6):** This project improved 573 linear feet of drainage system. The scope of work included cleaning out 573 linear feet of roadside ditch, replacing (1) driveway pipe, installing rip rap and hydroseeding for erosion control. The total cost was **\$5,945.30**.
- **Lady's Island Tree Removal – Lady's Island (SWUD 7):** The scope of work included removing a falling tree from a roadside ditch. The total cost was **\$1,090.67**.
- **Bluffton Sinkhole Repair – Bluffton (SWUD 4):** The scope of work included repairing a sinkhole. The total cost was **\$3,348.72**
- **Port Royal Island Tree Removal – Port Royal Island (SWUD 6):** The scope of work included removing a falling tree from roadside ditches and a workshelf. The total cost was **\$2,301.34**.
- **Sheldon Washout Repair – Sheldon (SWUD 5):** The scope of work included repairing washouts and installing rip rap for erosion control. The total cost was **\$6,418.37**.
- **Sheldon Vacuum Truck – Sheldon (SWUD 5):** The scope of work included cleaning out (6) catch basins, jetting (4) crossline pipes and (6) driveway pipes. The total cost was **\$908.73**.
- **Lady's Island Washout Repair – Lady's Island (SWUD 7):** The scope of work included repairing washouts.. The total cost was **\$1,590.47**.
- **Jack Johnson Drive Channel – St. Helena Island (SWUD 8):** This project improved 480 linear feet of drainage system. The scope of work included cleaning out 480 linear feet of channel. The total cost was **\$2,576.14**.
- **Cubby Lane – Port Royal Island (SWUD 6):** This project improved 24 linear feet of drainage system. The scope of work included upsizing (1) crossline pipe and installing rip rap for erosion control. The total cost was **\$2,939.28**.



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sonya Faye

Activity: Routine/Preventive Maintenance

Duration: 06/08/2021 - 06/21/2021

Narrative Description of Project:

Project improved 573 L.F. of drainage system. Cleaned out 573 L.F. of roadside ditch. Replace (1) driveway pipe. Installed rip rap and hydroseeded for erosion control.

2021-550/Sonya Faye Lane

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.00	\$48.01	\$0.00	\$0.00	\$0.00	\$32.47	\$80.48
DPRPL / Driveway Pipe - Replaced	48.00	\$1,030.48	\$166.04	\$784.66	\$0.00	\$352.48	\$2,333.66
HAUL / Hauling	27.00	\$730.56	\$476.50	\$356.49	\$0.00	\$0.00	\$1,563.55
HYDR / Hydroseeding	12.00	\$289.12	\$47.24	\$342.94	\$0.00	\$83.28	\$762.58
RSDCL / Roadside Ditch - Cleanout	40.00	\$884.24	\$195.00	\$87.85	\$0.00	\$0.00	\$1,167.09
UTLOC / Utility locates	1.00	\$24.70	\$0.00	\$0.00	\$0.00	\$13.23	\$37.93
Project Sub Totals	130.00	\$3,007.11	\$884.78	\$1,571.95	\$0.00	\$481.46	\$5,945.30

Before



During



After





Project: Sonya Faye Lane

Activity: Routine/ Preventive Maintenance














Project #: 2021-550

Township/SW Dist: Port Royal Island/6

Completed: June 2021

Legend

Drainage Type

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

0 12.525 50 75 100 Feet

1 inch = 67 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/24/21

File: C:\project summaries map\Sonya Faye Lane_2021-550



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Lady's Island Tree Removal - Jasper Lane

Activity: Routine/Preventive Maintenance

Duration: 06/24/2021

Narrative Description of Project:

Removed fallen tree from roadside ditch.

2021-413 / Lady's Island Tree Removal

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$27.94	\$0.00	\$0.00	\$0.00	\$16.24	\$44.17
HAUL / Hauling	4.00	\$99.52	\$76.24	\$37.55	\$0.00	\$0.00	\$213.31
RMTRD / Remove trees - Ditch	24.00	\$531.76	\$63.81	\$29.62	\$0.00	\$208.00	\$833.19
Grand Total	29.00	\$659.22	\$140.05	\$67.17	\$0.00	\$224.24	\$1,090.67

(No Pictures Available)



Project: Lady's Island Tree Removal- Jasper Lane

Activity: Routine/ Preventive Maintenance














Project #: 2021-413

Township/SW Dist: Lady's Island/7

Completed: June 2021

Legend

Drainage Type

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

0 25 50 100 150 200 Feet

1 inch = 140 feet

Prepared By: BC Stormwater Management Utility

Date Print: 09/30/21

File: C:\project summaries map\Lady's Island Tree- Jasper Lane_2021-413



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Bluffton Sinkhole/Washout Repair - Old Sawmill Drive

Activity: Routine/Preventive Maintenance

Duration: 07/28/2020 - 06/28/2021

Narrative Description of Project:

Repaired sinkhole.

2021-424/Bluffton Sinkhole/Washout Repair	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$27.94	\$0.00	\$0.00	\$0.00	\$16.24	\$44.17
HAUL / Hauling	17.50	\$401.97	\$279.65	\$461.79	\$0.00	\$343.92	\$1,487.32
SR / Sinkhole repair	28.00	\$626.58	\$387.86	\$425.69	\$0.00	\$377.10	\$1,817.23
Grand Total	46.50	\$1,056.48	\$667.51	\$887.48	\$0.00	\$737.26	\$3,348.72

(No Pictures Available)



Project: Bluffton Sinkhole/ Washout Repair- Old Sawmill Drive

Activity: Routine Preventive/ Maintenance

Project #: 2021-424

Township/SW Dist: Bluffton/4

Completed: June 2021

Legend

Drainage Type

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



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print:07/13/21

File:C:\project summaries map\Bluffton Sinkhole/Washout Repair- Old Sawmill Drive_2021-424



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Port Royal Island Tree Removal -
Shein Loop, Taylor Street and Joe Allen Drive

Activity: Routine/Preventive Maintenance
Duration: 09/01-20 - 10/07/20

Narrative Description of Project:

Removed fallen trees from roadside ditches and workshelf.

2021-414/Port Royal Island Tree Removal

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.00	\$48.19	\$0.00	\$0.00	\$0.00	\$26.46	\$74.65
HAUL / Hauling	10.00	\$220.74	\$84.96	\$57.00	\$0.00	\$190.76	\$553.46
RMTR / Remove trees-roads	21.00	\$574.94	\$135.78	\$13.04	\$0.00	\$304.44	\$1,028.19
RMTRW / Remove trees - Workshelf	24.00	\$511.98	\$47.21	\$6.46	\$0.00	\$79.38	\$645.03
Grand Total	57.00	\$1,355.85	\$267.95	\$76.50	\$0.00	\$601.04	\$2,301.34

(No Pictures Available)



Project: Port Royal Island Tree Removal- Joe Allen Drive Map #3

Activity: Routine/ Preventive Maintenance

Project #: 2021-414

Township/SW Dist: Port Royal Island/6

Completed: October 2020

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



1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print:09/21/21

File:C:\project summaries map\Port Royal Island Tree Removal- Joe Allen Drive Map #3_2021-414



Project: Port Royal
Island Tree Removal-
Schein Loop
Map#1

Activity: Routine/
Preventive
Maintenance














Project #:
2021-414

Township/SW Dist:
Port Royal Island/6

Completed:
October 2020

Legend

Drainage Type

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

0 45 90 180 270 360
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/21/20

File: C:\project summaries map\Port Royal Island Tree Removal-Schein Loop Map #1_2021-414



Project: Port Royal
Island Tree Removal-
Taylor Street
Map #2

Activity: Routine/
Preventive
Maintenance














Project #:
2021-414

Township/SW Dist:
Port Royal Island/6

Completed:
October 2020

Legend

Drainage Type

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

0 15 30 60 90 120
Feet **1 inch = 65 feet**

Prepared By: BC Stormwater Management Utility

Date Print: 10/21/20

File: C:\project summaries map\Port Royal Island Tree Removal- Taylor Street Map #2_2021-414



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Washout and Sinkhole Repairs
Half Moon Island Road, Old Dawson Acres and George Williams Lane

Activity: Routine/Preventive Maintenance
Duration: 02/11/21 - 06/09/21

Narrative Description of Project:

Repaired washouts. Installed rip rap for erosion control.

2021-422/Sheldon Washout/Sinkhole Repairs

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.00	\$48.19	\$0.00	\$0.00	\$0.00	\$26.46	\$74.65
HAUL / Hauling	53.00	\$1,334.83	\$933.94	\$1,292.63	\$0.00	\$437.52	\$3,998.92
RPWO / Repaired Washout	63.00	\$1,384.12	\$347.98	\$130.55	\$0.00	\$482.15	\$2,344.80
Grand Total	118.00	\$2,767.14	\$1,281.92	\$1,423.18	\$0.00	\$946.13	\$6,418.37

No Pictures Available



Project: Sheldon Washout Repair-George Williams Lane Map #3

Activity: Routine/ Preventive Maintenance





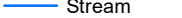



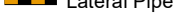
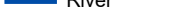
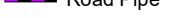
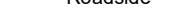

Project #: 2021-422

Township/SW Dist: Sheldon/5

Completed: June 2021

Legend

Drainage Type

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

0 45 90 180 270 360
 Feet **1 inch = 250 feet**

Prepared By: BC Stormwater Management Utility

Date Print:07/12/21

File:C:\project summaries map\Port Royal Island Washout Repair- George Williams Lane Map #3_2021-422



Project: Sheldon Washout Repair- Half Moon Island Road Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2021-422

Township/SW Dist: Sheldon/5

Completed: June 2021

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

0 70 140 280 420 560 Feet

1 inch = 500 feet

Prepared By: BC Stormwater Management Utility

Date Print: 07/12/21

File: C:\project summaries map\Port Royal Island Washout Repair- Half Moon Island Road Map#1_2021-422



Project: Sheldon Washout Repair- Old Dawson Acres Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2021-422

Township/SW Dist: Sheldon/5

Completed: June 2021

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

037.575 150 225 300 Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print:07/12/21

File:C:\project summaries map/Port Royal Island Washout Repair- Old Dawson Acres Map #2_2021-422



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Vacuum Truck
Huspah Creek, Prescott Road, River Oaks Road

Activity: Routine/Preventive Maintenance
Duration: 07/08/2020 - 07/15/2020

Narrative Description of Project:

Cleaned out (6) catch basins. Jetted (4) crossline pipes and (6) driveway pipes.

2021-308 / Sheldon Vacuum Truck

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.50	\$40.29	\$0.00	\$0.00	\$0.00	\$22.85	\$63.14
CBCO / Catch basin - clean out	12.00	\$262.44	\$50.28	\$30.65	\$0.00	\$67.16	\$410.53
DPJT / Driveway Pipe - Jetted	12.00	\$277.14	\$52.08	\$38.69	\$0.00	\$67.16	\$435.07
Grand Total	25.50	\$579.87	\$102.36	\$69.34	\$0.00	\$157.17	\$908.73

(No Picture Available)



Project: Sheldon Vacuum Truck- Huspah Creek Drive Map #1

Activity: Routine/ Preventive Maintenance










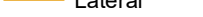

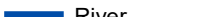

Project #: 2021-308

Township/SW Dist: Sheldon/5

Completed: July 2020

Legend

Drainage Type

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

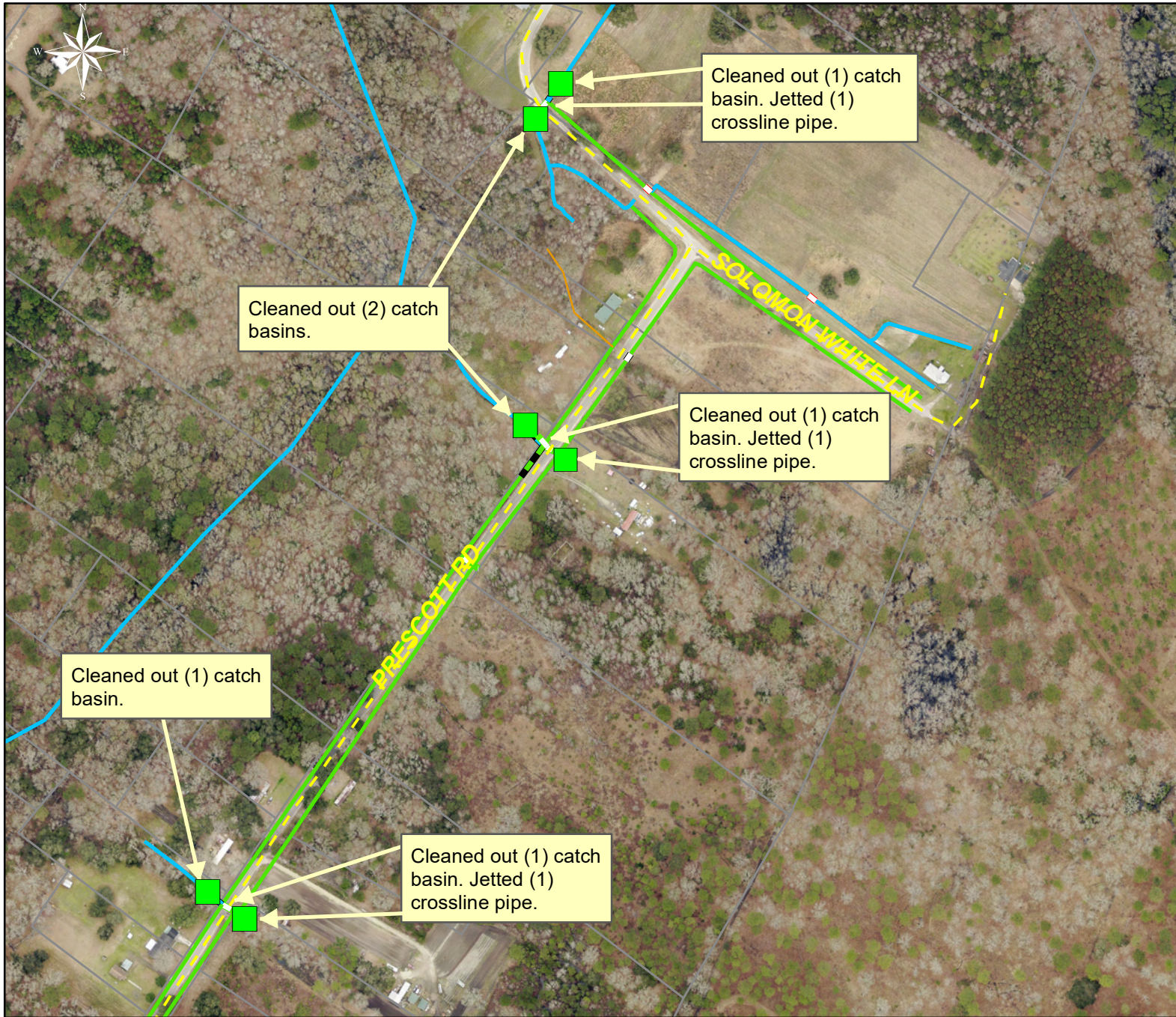
0 4590 180 270 360
 Feet

1 inch = 270 feet

Prepared By: BC Stormwater Management Utility

Date Print:08/12/21

File:C:\project summaries map/Sheldon Vacuum Truck- Huspah Creek Drive Map #1_2021-308



Project: Sheldon Vacuum Truck- Prescott Road Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2021-308

Township/SW Dist: Sheldon/5

Completed: July 2020

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

0 60 120 240 360 480 Feet

1 inch = 330 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/12/21

File: C:\project summaries map\Sheldon Vacuum Truck- Prescott Road Map #2_2021-308



Project: Sheldon Vacuum Truck-River Oaks Road Map #3

Activity: Routine/Preventive Maintenance














Project #: 2021-308

Township/SW Dist: Sheldon/5

Completed: July 2020

Legend

Drainage Type

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

0 45 90 180 270 360 Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 08/12/21

File: C:\project summaries map\Sheldon Vacuum Truck- River Oaks Road Map #3_2021-308



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Jack Johnson Drive Channel

Activity: Routine/Preventive Maintenance

Duration: 05/26/21 - 05/27/21

Narrative Description of Project:

Project improved 480 L.F. of drainage system. Cleaned out 480 L.F. of channel.

2021-422/Sheldon Washout/Sinkhole Repairs

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$23.49	\$0.00	\$0.00	\$0.00	\$13.23	\$36.72
CCO / Channel - cleaned out	36.00	\$812.76	\$226.26	\$83.32	\$0.00	\$216.72	\$1,339.06
HAUL / Hauling	16.00	\$437.28	\$304.96	\$125.00	\$0.00	\$333.12	\$1,200.36
Grand Total	53.00	\$1,273.53	\$531.22	\$208.32	\$0.00	\$563.07	\$2,576.14

(No Pictures Available)



Project: Jack Johnson Drive Channel

Activity: Routine/ Preventive Maintenance














Project #: 2021-523

Township/SW Dist: St. Helena Island/8

Completed: May 2021

Legend

Drainage Type

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

0 45 90 180 270 360 Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 10/25/21

File: C:\project summaries map\Jack Johnson Drive Channel_2021-523



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Cubby Lane

Activity: Routine/Preventive Maintenance

Duration: 09/02/20 - 09/03/20

Narrative Description of Project:

Project improved 24 L.F. of drainage system. Upsized (1) crossline pipe. Installed rip rap for erosion control.

2021-555/Cubby Lane

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.50	\$35.84	\$0.00	\$0.00	\$0.00	\$6.62	\$42.46
CPUP / Crossline Pipe - Upsized	24.00	\$495.84	\$77.26	\$182.73	\$0.00	\$408.80	\$1,164.63
HAUL / Hauling	11.00	\$250.73	\$155.76	\$454.72	\$0.00	\$216.74	\$1,077.95
RRI / Rip Rap - Installed	15.00	\$320.28	\$60.08	\$69.42	\$0.00	\$202.05	\$651.83
Grand Total	51.50	\$1,102.69	\$293.10	\$709.28	\$0.00	\$834.21	\$2,939.28

(No Pictures Available)



Project: Cubby Lane

Activity: Routine/ Preventive Maintenance

Project #: 2021-555

Township/SW Dist: Port Royal Island/9

Completed: September 2020

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



1 inch = 170 feet



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

December 15th, 2021 at 2:00 p.m.

Beaufort County Council Chambers, Administration Building, Beaufort County Government
Robert Smalls Complex, 100 Ribaut Road, Beaufort, South Carolina and via Webex

Board Members

Present

James Clark
Marc Feinberg
Allyn Schneider
Steven Andrews
Brian Watkins

Absent

Patrick Mitchell

Ex-Officio Members

Present

Jeff Netzinger
Nate Farrow
Van Willis

Absent

Kim Jones

Beaufort County Staff

Katie Herrera
Johanna Zoran
Neil Desai

Visitors

Alice Howard, County Council
Allen Warren, UCSB
Ellen Sturup-Comeau, Clemson

1. **Meeting called to order** – Marc Feinberg at 2:00 pm
 - A. Agenda – No agenda to approve. Moving forward with the proposed agenda.
 - B. Approval of Minutes – Only three board members present currently, no quorum. Approval of minutes cannot take place.
2. **Introductions** – Completed.
3. **Public Comment(s)** – None.
4. **Reports**
Reports attached in agenda

Highlights:

A. **Utility Update** – Katie Herrera

- ✓ Southern Lowcountry Regional Board (SoLoCo)
 - o All project milestones have been completed. Implementation of new minor amendments will take place after the third reading has been adopted by County Council on January 10, 2022.

- ✓ Special Presentation
 - Once 2022 meeting scheduled approved Katie will reach out to Dr. Montie to attend the April 2022 meeting.
 - Woolpert – The results of the audit will be presented at the February 9, 2022 meeting by their representatives.
 - Cypress Wetlands – Presentation potentially for April 2022.
- ✓ The county continues to work on delinquent accounts for the military installations. Will be keeping the PO for Gentry Locke Attorneys open and legal will present to the Utility Board at a future date.

B. Monitoring Update – Katie Herrera

Highlights:

- ✓ Lab update – Completed all this year’s efforts in water quality sampling.

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

Highlights:

- ✓ Carolina Clear contract has come to an end and is now up for renewal. SWIC committee, municipalities and Carolina Clear staff met to discuss updates to be implemented in new contract. No increase in the cost of the contract is anticipated.

D. Stormwater Related Projects – Julianna Corbin

Highlights:

- ✓ County staff continues to work on getting easements and meets monthly to review. Pending Council guidance for the edits made to the Extent of Service and Level of Service documents.
- ✓ Construction has been completed for the flyover bridge repair project. Close out of this project expected at the end of this month.
- ✓ Shell Point Community –Katie and Julianna are pursuing funding from the BRIC and HMGP grants. Efforts are being made to obtain photos of houses older than 50 years. Funds have been earmarked for this project in case the grant application is not successful.
- ✓ Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park Subdivision – Beaufort County legal is still handling obtaining easement.
- ✓ Factory Creek Watershed Regional Detention Basin “Phase II – Beaufort County legal is still handling obtaining easement to the pond that was built.

- ✓ Graves Property / Pepper Hall – Roads and Infrastructure plan amendment has been approved since the last meeting. Conceptual Plans for the single-family home were reviewed a week prior by the Staff Review Team. Construction continues.
- ✓ Staff continue to work with engineers and legal to have comprehensive construction plans. Roads and Infrastructure have been approved as well as the town homes. Property owners continue construction on the pond located on the northwestern corner of property. Outfall structures are being retrofitted to function properly.
- ✓ Whitehall property – Construction continues on City Property.
- ✓ Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – No update at this time
- ✓ Tuxedo Park Pond Dredging – Several engineering firms on the county vendor list are taking a look at the scope that has been prepared in order to obtain quotes for the completion of the construction drawings and following that, the job will go out for bids as well.
- ✓ Huspah Court North – We received survey data. Neil Desai and Juliana Corbin have met to begin the design work. Job will be done in house.

E. Professional Contracts Report – Julianna Corbin

Highlights:

- ✓ Salt Creek and Shanklin Road - Appraisal is complete. Waiting on the go ahead from County leadership to proceed.
- ✓ Brewer Memorial – Notice to Proceed was issued on November 22nd and construction has begun.
- ✓ Evergreen Regional Pond 319 – The pond has been completed. Contract will be extended due to a utility conflict. The only remaining task is connecting the pipe from the catch basin along Hwy 170 to the pond.
- ✓ Stormwater engineering consulting services – Woolpert
 - Scope #1 – General Services. \$15,000 was allocated.
 - Scope #2 – Southern Lowcountry Design Manual training has been completed.
 - Scope #3 – Woolpert conducted an audit, and a draft is anticipated very soon. \$105,000 allocated.
 - Scope #4 - \$29,900.00 allocated for the Tax Run and Utility assistance. Still ongoing.
 - Scope #5 – Drainage study for Buckwalter and Bluffton parkways. After conversing with Town of Bluffton and internal staff, this scope was abandoned.
 - Scope #6 – Turtle lane drainage study. Some of the results have been received and it is now wrapping up.
 - Scope #7 – Northern Lady’s Island Drainage Study – final proposal in review before being submitted for approval.
 - Other scopes on County radar.
 - Arthur Horne Park – Looking into engaging new scopes and the 319 Grant.

- Scope being written for Battery Creek Pond.
- St Helena Drainage study
- Annual report to DHEC.
- Gray Pond – Battery Creek Burton Hill M2 Retrofit. Katie stated that we are engaging Woolpert with doing a more extensive review regarding the retrofits. They have received data from the original design and the model so that they can provide a final design and contract services for this project.

F. Regional Coordination – Katie Herrera

Highlights:

- ✓ Mossy Oaks monitoring efforts continue for recent projects for drainage retrofits.

G. Municipal Reports – Katie Herrera

Reports attached in agenda

Highlights:

Reports information.

- ✓ Town of Bluffton (From Kim Jones, Watershed Management Division Director)
 - Reports Received – attached to the minutes
- ✓ Town of Hilton Head Island (From Jeff Netzing, Stormwater Manager)
 - Will be making an offer to fill NPDES Administrator position within the next week
- ✓ City of Beaufort (From Nate Farrow, Public Works Director)
 - Completed some work on the flap gates along the Spanish Moss Trail.
 - Ditch clean out on the Spanish Moss Trail
 - Ditch clean out at Southside Park to help with the drainage into Arthur Horne.
- ✓ Town of Port Royal (From Van Willis, Town Manager)
 - Trying to lower the water level of the Cypress Wetlands to install a concrete structure to replace the earthen dam.
 - Received a T-Mobile grant to address amenity parts of the Cypress Wetlands, upgrading walkways, gazebos, etc.

H. MS4 Update – Katie Herrera

Highlights:

- ✓ Energov permitting software – Mid-October, we implemented Energov software and is moving along great for our inspection staff.
- ✓ Plan Review – See the attached chart for Beaufort County Stormwater staff plan review workload for the past 12 months.
- ✓ Stormwater Permits – See the attached chart for Beaufort County Stormwater permits issued for the past 12 months.
- ✓ Monthly Inspection summary – We are doing over 600 inspections per month. Also

continuing to work on our post construction Post Construction BMP program.

- ✓ Weather Station Data – Report unavailable
- ✓ Education Report – Ellen Sturup-Comeau, Clemson Extension
 - A 252 ft² rain garden was installed at Mossy Oaks Elementary School as part of their outdoor classroom.
 - Be Septic Safe Social Media Campaign – Very successful in providing septic maintenance tips through several social media resources the week of Thanksgiving.
 - LSP Consortium meeting was held at the end of November. Hands-on workshops planned for 2022.
- ✓ MS4 Statewide General permit – No further update at this time.
- ✓ Staff Update
 - An offer was extended for the Sr Administrative Specialist position for Stormwater Management and anticipate her starting early January.
 - Two staff members took the Certified Stormwater Plan Reviewer Course through Clemson. Still waiting for final results.
- ✓ Katie addressed Shell Point Community Task Force. It has proven to be a very active group made up of Stormwater staff, 2 Utility Board members, Mr. Van Willis and Mr. James Clark, and Ms. Alice Howard, our Councilwoman. Ms. Howard has been actively trying to get grant application requirements met. There are 256 properties that need images of front, back and sides. Task force will continue to meet until completion of grant application process.

I. Maintenance Projects Report – Matt Rausch

Highlights:

- ✓ Major projects:
 - None
- ✓ Six minor or routine projects:
 - Kitty Landing – Bluffton (SWUD 4) Cost \$4800.58
 - Polite Drive – Port Royal Island (SWUD 6) Cost \$2728.43
 - Pritchard Street – Town of Bluffton (SWUD 4) Cost \$1397.76
 - Camp St. Mary’s Road – Bluffton (SWUD 4) Cost \$7829.56
 - St Helena Tree Removal – St Helena Island (SWUD 8) Cost \$762.62
 - Sheldon Tree Removal – Sheldon (SWUD 5) Cost \$1887.35
- ✓ Matt stated we currently have 61 scheduled projects. Our staff met with local contractors to help with backlog due to equipment and staffing issues.

J. Liaison Report – Beaufort County Council - Alice Howard

Highlights:

- ✓ Shell Point Task Force – They have been successful in obtaining the photos they need even when homeowners are out because of the ability to communicate with them through their doorbell cameras.
- ✓ Budget Retreat took place and Ms. Howard stated that they are ahead of schedule on the budget cycle compared to other years.

5. Unfinished Business –

- ✓ Mr. Feinberg proposed that the Utility Board go out to major projects next year to see where the budget money is being spent and the progress of those projects. He asked for feedback on how these meetings are to take place. Allyn Schneider suggested that the months in between Utility Board meetings be used for site visits. James Clark concurred. Katie stated that with the completion of the Evergreen Pond, a field day education event is being hosted and suggested that the Utility Board come to this event. Mr. Feinberg stated that those types of events, in the past, have not been held at the project site and are usually held at night and he would rather do a visit to the actual site as the project is ongoing to see the scope of work being done. Katie stated that it can be voted into the schedule at a future Board meeting.
- ✓ Mr. Feinberg elected Brian Watkins to coordinate with Katie and staff to do site visits with no objections. Brian anticipates having a list of sites and dates by February Board meeting.

Two more Utility Board members came in shortly after the meeting was called to order therefore Mr. Feinberg wanted to go back and approve the Minutes and Agenda.

- ✓ Approval of Minutes – Approved
- ✓ Agenda – Motion to approve Agenda was made by Allyn Schneider. Marc Feinberg called to have the motion amended because a correction to the Agenda needs to be addressed regarding the date of the next meeting. Allyn Schneider revised the motion to correct the date of the next meeting to February 9, 2022 and to approve the agenda with this revised date. Motion seconded by Brian Watkins and it was unanimously approved.

6. New Business – Katie Herrera

- ✓ Draft 2022 Stormwater Utility Board Schedule presented. February meeting was moved up to meet deadlines for budgetary purposes and also for the Board to see the Management Memo before being sent to the municipalities. December's meeting was also moved up due to the holiday.
- ✓ Utility board meetings will be moved back to the Executive Conference Room.
- ✓ A motion to approve the 2022 Stormwater Utility Board calendar was made by Allyn Schneider. James Clark seconded the motion, and it was unanimously adopted.

7. No Public Comment.

8. Mr. Feinberg recognized Katie Herrera, Stormwater Manager and her staff for doing an outstanding job in maintaining Stormwater Regulations in Beaufort County. He thanked Ms. Alice Howard for her support to the Utility Board. Additionally he wanted to thank the Es-Officio members from the different municipalities for their continued support. Finally he wanted to thank Stormwater Management Utility Board members, James Clark, Patrick Mitchell, Brian Watkins, Allyn Schneider and Steven Andrews.

9. Public Comment – Ms. Alice Howard asked Mr. Feinberg if he would be willing to attend a Natural Resource Committee meeting in January or February to discuss to give a summary of this past calendar year. Mr. Feinberg agreed to attend.

10. **Meeting Adjourned**

DRAFT



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, February 9th, 2022 2:00 p.m.
Executive Conference Room, Administration Building
Beaufort County Government Robert Smalls Complex
100 Ribaut Road, Beaufort, South Carolina
843.255.2805

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

1. CALL TO ORDER – 2:00p.m.
 - A. Approval of Agenda
 - B. Approval of Minutes – December 15th, 2021 ([backup](#))
2. INTRODUCTIONS
3. PUBLIC COMMENT
4. SPECIAL PRESENTATIONS
 - A. Beaufort County Legal Update – Brittany Ward
 - B. Stormwater Department Audit Report – Woolpert, Inc
5. 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
6. UNFINISHED BUSINESS
7. NEW BUSINESS
 - A. TY2022 Management Memo – Katie Herrera
 - B. FY23 Budget – Carolyn Wallace
8. PUBLIC COMMENT
9. NEXT MEETING AGENDA
 - A. Wednesday, April 20th ([backup](#))
10. ADJOURNMENT

