



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, April 20th, 2022 2:00 p.m.
Cypress Wetlands Amphitheater
1700 Paris Ave, Beaufort, South Carolina
843.255.2805

1. CALL TO ORDER – 2:00p.m.

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

- A. Approval of Agenda
- B. Approval of Minutes – February 9th, 2022 ([backup](#))

2. INTRODUCTIONS

3. PUBLIC COMMENT

4. SPECIAL PRESENTATION - Cypress Wetlands

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. Budget Updates – Carolyn Wallace([backup](#))

8. PUBLIC COMMENT

9. NEXT MEETING AGENDA

- A. Wednesday, June 15th, 2022 ([backup](#))

10. ADJOURNMENT





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

February 9th, 2022 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
Allyn Schneider
Steven Andrews
Patrick Mitchell

Absent

Marc Feinberg
Brian Watkins

Ex-Officio Members

Present

Bill Baugher

Absent

Nate Farrow
Van Willis
Jeff Netzinger

Beaufort County Staff

Katie Herrera
Johanna Zoran
Neil Desai
Carolyn Wallace

Julianna Corbin
Brittany Ward

Visitors

Alice Howard, County Council
Allen Warren, USCB
Ellen Sturup-Comeau, Clemson
Jacob Terry, HHI
Molly Davis, Woolpert
J.P. Johns, Woolpert

1. Meeting called to order – Allyn Schneider at 2:00 pm

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

2. Introductions – Completed.

3. Public Comment(s) – None.

4. Special Presentations

A. Beaufort County Legal Update – Brittany Ward and Neil Desai

- Neil Desai presented the legal status on the IGA's with the City of Beaufort and the Town of Port Royal. In 2013, Stormwater Utility pursued delinquent fees in these two municipalities for military installations. As of two years ago, the municipalities issued a written request to stop the pursuit of delinquent fees. Brittany Ward stated that the Beaufort County Administrator has decided to disassociate with Gentry Locke law firm for pursuing these fees in order for us to be able to have conversations about negotiations directly with the Military Installations. Ms. Ward is seeking to have the IGA's amended so that we would not be obligated to pursue Stormwater fees at this time. Neil stated that a Natural Resource Committee will be created in order to start

the amendment process and then to go through Beaufort County Council to adopt those changes.

DRAFT

B. Stormwater Department Audit Report – Woolpert, Inc

- Woolpert Inc performed a mock audit for the Stormwater department to prepare the department for an actual audit from the SCDHEC or EPA and to provide recommendations. Molly Davis presented what procedures they took to perform the audit. The overall audit findings for Beaufort County Stormwater fell between sufficient and benchmark status. JP presented the six minimum measures and how Beaufort County Stormwater fell within these measures. It has been evident through the audit that Beaufort County is working towards reaching benchmark status and continues to push ahead to meet the end of the compliance spectrum. Beaufort County Stormwater needs improvement in documentation. Patrick Mitchell asked if more staffing is needed to make the improvements necessary and Jake from Woolpert said it was not. Allyn Schneider asked if there was any push-back from Katie and her team in reference to the changes that need to be made or if they were willing to comply. JP stated that Katie and Julianna were completely compliant and willing to provide any information requested. So, a full report of recommendations has been provided to Katie and she has created a workplan to meet sufficient and benchmark statuses for all measures and to pass future audits with minimal findings.

5. Reports

Highlights:

A. Utility Update – Katie Herrera

Highlights:

- ✓ Southern Lowcountry Regional Board (SoLoCo)
 - Amendments to manual and ordinance were approved and implementation of new standards were effective as of February 1st, 2022.
- ✓ Special Presentation
 - Research performed by Dr. Montie is still to be anticipated to be presented in the spring 2022.
 - Cypress Wetlands – Katie stated that the hopes are that the meeting can be done on site if weather permits.
- ✓ A reminder that the different municipalities need to have the financial reports provided to us by a certain timeframe. This is important to consistency across all of the IGA's especially with the amendments that Neil and Brittany spoke about earlier.

B. Monitoring Update – Katie Herrera

Highlights:

- ✓ Lab update – Lab operations have been moved to South of the Broad Campus but despite the move coordinating efforts with them have remained easy. Monitoring continues at Pepper Hall site and Mossy Oaks. Some locations are not accessible due to construction but as soon as that is completed those will be picked up again.

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

Highlights:

- ✓ IGA's were presented for the Town of Port Royal and the City of Beaufort to update the language regarding the military delinquent fees. Minor edits were also made at the same time to keep the IGA documents consistent across the board.
- ✓ SWIC Committee met on January 14th, 2022 to discuss Clemson Extension contract which expires at the end of the fiscal year and to ensure that the terms worked for all municipalities that participate in the cost sharing and Clemson team as well. Contract is going for legal review.

D. Stormwater Related Projects – Julianna Corbin

Highlights:

- ✓ Flyover bridge repairs have been closed out and pictures of completed work were presented.
- ✓ Shell Point Community – It was determined that the BRIC application was not competitive at the Federal level. Materials gathered for it are still eligible to be submitted at a later time and Julianna stated that it is the intent for Stormwater to do so. The Hazard Mitigation Grant Program application was submitted on February 3rd. We are budgeting to begin the design and permitting of that project in the next fiscal year.
- ✓ 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.
- ✓ Tuxedo Park Pond Dredging – We are continuing to look for bids for the engineering drawings necessary to send out for construction bids. Katie provided an update to the HOA president on January 31st.
- ✓ Huspah Court North – Julianna is working on the design.

E. Professional Contracts Report – Julianna Corbin

Highlights:

- ✓ Mossy Road – It was determined to move this project off the CIP list.
- ✓ Brewer Memorial – Construction continues.
- ✓ Evergreen Regional Pond 319 – The utility conflict is still pausing progress but at the same time progress has been made. Project expected to close out mid to late spring.
- ✓ Stormwater engineering consulting services – Woolpert
 - Scope #5 – 319 Grant still moving forward
 - Scope #7 – Northern Lady's Island Drainage Study – We are in the final stages of getting the proposal reviewed.
 - Scope # 8 – St. Helena Drainage Study – We are looking to get that started very soon.
 - Other scopes on County radar:
 - Woolpert looked at the performance of the Battery Creek Pond and found that the trash rack was inhibiting the flow from the pond due to the possibility of it not being installed where it was specified on the plans. We are looking at replacing the trash rack with a traditional grate rack at a higher elevation to see if it improves flow.

F. Regional Coordination – Katie Herrera

Highlights:

- ✓ Mossy Oaks – Continue working with USCB to monitor the effects of construction has had on the water quality.
- ✓ Katie has met with City Officials and their consultant to partner on a drainage study of the downtown Beaufort area.

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
 - Bill Bower introduced himself as the new Watershed Management Division Manager replacing Kim in the near future once Town Council has approved it.
- ✓ Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager)
 - Katie introduced Jacob Terry as the new NPDES Administrator.
- ✓ City of Beaufort (From Nate Farrow, Public Works Director)
 - No information available at this time
- ✓ Town of Port Royal (From Van Willis, Town Manager)
 - No information available at this time.

H. MS4 Update – Katie Herrera

Highlights:

- ✓ 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
 - In January Ellen stated that they had Sediment and Erosion Control Social Media Campaign on the local Stormwater Partners Facebook page which reached over 600 people informing them on how to report things like broken silt fences and unmaintained construction site entrances, etc.
 - Consortium meeting is being held on February 22nd.
 - Healthy Pond Series Wildlife Management Webinar will be held on February 24th.
 - First Adopt-A-Stream Program of the year will be on February 28th.
- ✓ Katie was recently featured on WTOC regarding the project on Evergreen.
- ✓ Recently Shell and Circle K gas stations are featuring a 30 second Stormwater commercial at the pumps describing six things you can do to improve your watershed.

- ✓ Energov software – This would meet one of the recommendations JP from Woolpert mentioned earlier under the minimum control requirement. Once we are utilizing all parts of this software then can check this recommendation as being met.
- ✓ MS4 Statewide General permit – DHEC will be presenting at the next South Carolina Association of Stormwater Managers meeting on March 3rd. Katie hopes to get updates from the State regarding the progress of MS4 permits, Phase 1 permits and what some of the audits from the State may look like in our area.
- ✓ Staff Update
 - Julianna Corbin and Judah Wood obtained their Certified Stormwater Plan Reviewer certifications in December. This is the first time in Beaufort County Stormwater history that all Stormwater inspectors have been certified.
 - Katie is still interviewing for a Stormwater Administrative Assistant.
 - There are quite a few vacancies in the Infrastructure department and are continuing to advertise these openings.
 - Katie recognized our Utility Operations Coordinator, Evelyn Sutton. She is a reservist in the United States Navy and has been called to active duty and sent on deployment.

I. Maintenance Projects Report- Katie Herrera

Highlights:

- ✓ Major projects:
 - None
- ✓ Eight minor or routine projects:
Reports attached.

J. Liaison Report – Beaufort County Council – Alice Howard

Highlights

- ✓ Infrastructure Maintenance timeline – Katie stated that internal staff are looking at prioritizing projects so that we can be more proactive rather than reactive to problems that occur. Woolpert is helping with the prioritization so that we can be most effective with the staff we have available. Discussions about possibly trying to contract out the more emergent situations rather than handle routine, preventative, and emergency maintenance all in house. Working on funding for FY23 to implement it and improve our turnaround for routine maintenance.

6. Unfinished Business – None

7. New Business – Katie Herrera

- ✓ TY2022 Management Memo – Katie Herrera
 - Per the IGA, management fees for the management portion of the program are required to be presented to the municipalities. Katie showed a breakdown of what was billed for all municipalities in TY2020 and how much was collected. Cost sharing information was shared also.

- ✓ FY23 Budget – Carolyn Wallace
 - The budget is project focused. It had to be trimmed to be able to support the projects. We have approximately \$1M worth of maintenance projects under non-professional services and funding would come from the revenue that is anticipated to be collected in the next fiscal year along with \$195K out of the reserve. There is one request for a new FTE for a Lead Inspector for the Regulatory Department. Kate and Neil are finalizing that request. Due to the budget having to be trimmed down, we are only requesting the replacing the replacement of two pieces of equipment, the bush hog and a bobcat. Another request being made is to use our reserve to continue our CIP projects. Some of those projects have been removed from the budget as Julianna mentioned, Shanklin Road and Salt Creek in order to trim some more from the budget. Our projected total for CIP projects is \$1.25M.
 - Mr. Schneider asked Katie if the number of vacancies we currently have is having an impact on the performance of Stormwater Utility. Katie responded that if we were fully staffed we would definitely be able to complete work in a more timely fashion and to be able to work on more projects. With a limited crew we are mainly focused on more emergent situations and we are having to prioritize differently. Stormwater is advertising heavily to fill these vacancies.
 - Allyn Schneider requested a motion to approve the budget for FY23. A motion to approve was made by Steven Andrews. Patrick Mitchell seconded the motion, and it was unanimously adopted.

8. No Public Comment

9. Meeting Adjourned



**BEAUFORT COUNTY
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March 2022

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) Staff continues to support coordination on permitting standards. Scheduling a meeting with the technical subcommittee should be early May.
 - b) Staff continues to support other municipalities in their efforts to move forward with adoption.
 - c) Amendments to manual and ordinance were approved and are effective as of February 1st, 2022.
3. Special presentation suggestions –
 - Suggestions for Future Meetings
 - Research performed by Dr. Montie – Spring 2022
 - Cypress Wetlands Project – Spring 2022
4. Military installation and other State and Federal properties SWU fees – See “Delinquent Accounts” below.
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.
 - IGA amendments for the City of Beaufort and Town of Port Royal were approved at County Council. Documents have been sent to the municipalities for signature.

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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 – Not received.
 - c) Town of Bluffton – Received.
 - d) Town of Port Royal – Not received.
 - e) City of Beaufort – 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. Staff still waiting for concurrence letters from some municipal partners. MOA's for education are on County Council agenda for April 11th.

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) Shell Point Community – All requests for information from the State have been addressed by staff. Awaiting further decision or information requests regarding the application for grant funding. The RFP for a contractor to design and permit the work proposed closed on April 8th. Staff will be reviewing proposals to bring recommendation forth to the SWUB.
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) – All closing documents have been prepared, waiting for property owner to pay property taxes.

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. Owner has proposed changes to previously agreed upon easement document.
5. Graves Property / Pepper Hall Public / private partnership – Construction on going.
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- Staff reviewing bids from contractors.
9. Huspah Court North- Design work to align the drainage conveyance with the property line

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 – Project has been removed from CIP plan.
 - a) Brewer Memorial – Construction on site continues. Main connection from the street to the park has been established and contractor is working on laying out and stabilizing the parking lot.
2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – Utility conflict at the catch basin continues to pause progress. SCDOT has approved amended plan set. Pre-construction meeting held 4/8 on site with all utility contractors, engineer, contractor, and staff.
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 wrapping up project 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 Pond - Woolpert analyzed the Battery Creek Burton Hill M2 pond for potential deficiencies that are causing excess trash to end up in the overflow ditch that leads to the marshes of Battery Creek, bypassing the trash rack. The trash rack will be replaced with a standard grate rack installed to the elevations originally specified on the plans for the pond. Major upgrades will be considered if this does not help the issue.
 - 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 – NPDES SMS4 general permit assistant
 - a) Scope #8 – St. Helena Drainage Study. Staff have seen initial modeling information. Request for more information needed to model future conditions.
 - b) Scope #9 – Arthur Horne Park 319 Grant Funding – Grant applied for. Staff met on site with NRCS staff on April 5th to discuss project.
 - c) Scope #10 – Ladys Island Drainage Study Phase I – Woolpert staff in field collecting all necessary information. Work is on schedule.

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 – Staff continues to work with IT and Energov staff on any issues that arise.
7. MS4 Statewide General permit – No update.
8. Army Corps/OCRM General Permits – Staff participated in meeting on April 1st for general permit updates for both entities. New permit requirements in place to streamline approval process.

Staff Update

1. The Department continues to conduct interviews for all vacant positions in Stormwater Infrastructure - ((1) Foreman, (2) Equipment Operator II, (3) Equipment Operator I, and (9) Maintenance Workers).
2. Staff would like to welcome Jonathan Spencer, Retired USMC to the team. He is the Senior Administrative Specialist for Stormwater Management and Regulatory.

USCB Water Quality Lab Update

Beaufort County

Monitoring for 2022 includes monitoring for the following categories:

Category 1: TMDL monitoring

Category 2: IDDE screening and monitoring

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

Category 4: MOA points

Category 5: Special project monitoring

Status: First quarter of 2022 is finished with all sites scheduled collected. Second quarter has begun.

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

Mossy Oaks Drainage Study: Mossy Oaks drainage area plan consists of a bi-monthly collection of four sampling sites; two outfall basins and two upstream basins.

Status: Bi-monthly sampling has begun in June 2021. A full year's worth of data will be complete at the end of May 2022.

Pepper Hall Drainage Study: Pepper Hall property monitoring plan consists of a bi-monthly collection of six sampling sites; 3 inlets and 3 outlets to determine baseline data prior to construction. Sampling will continue during and after construction to measure the effectiveness of BMP's required on-site.

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

Port Royal Redevelopment: The Town of Port Royal continues with WQ monitoring for the four sites in the proposed redevelopment area. The sampling schedule is quarterly wet events and is included in Beaufort County's Monitoring Plan.

Status: First quarter of 2022 is finished with all sites scheduled collected. Second quarter has begun.

Town of Bluffton

Monitoring for 2022 includes monitoring for the following categories: MS4, TMDL, Monthly, MST, CIP, MRWAP and shared locations. Also, sample collection began for Bridge Street sites for wet weather.

Status: Monitoring for 2022 will begin with additional sampling sites and increased frequency of 2X a month including help of WQL staff collecting samples.

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 Water Quality Laboratory

Palmetto Bluff: FY 2022 sampling efforts are 12x/year for 6 wet/6 dry events including the additional parameters requested by Town of Bluffton.

Status: One wet and one dry event along with additional parameters requested have been collected.

2022 Proficiency testing for the Water Pollution and Water Supply study: Annual PT testing required for all certified laboratory parameters to uphold certification. This study consists of 10 different analyses requiring the analysis of an unknown sample, which is then reported to the PT provider and the State. The passing of all analyses in the study is a requirement to keep laboratory state certification.

Status: PT testing is complete for all parameters. PT study passing for all participated studies that have closed.

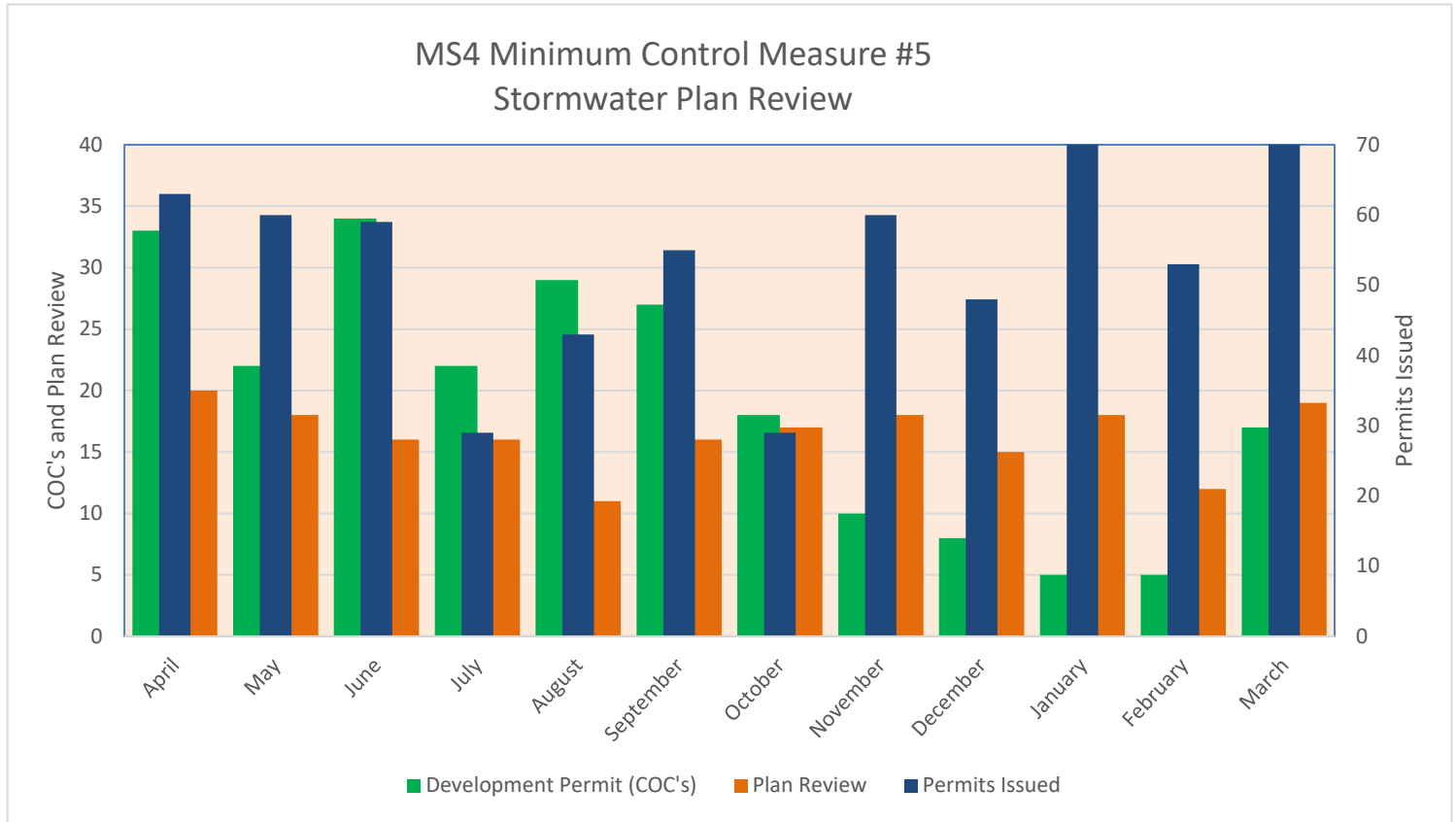
Standard Operating Procedures and Quality Assurance Manual: Annual update of these documents in its entirety are required to uphold State laboratory certification.

Status: In process of updating documents

SC State Method Update Rules: SC State pushed laboratory method updates requirements for laboratory methods. These updates must be implemented and abided by in the laboratory for those affected methods. This includes standard operating procedures and associated analytical records.

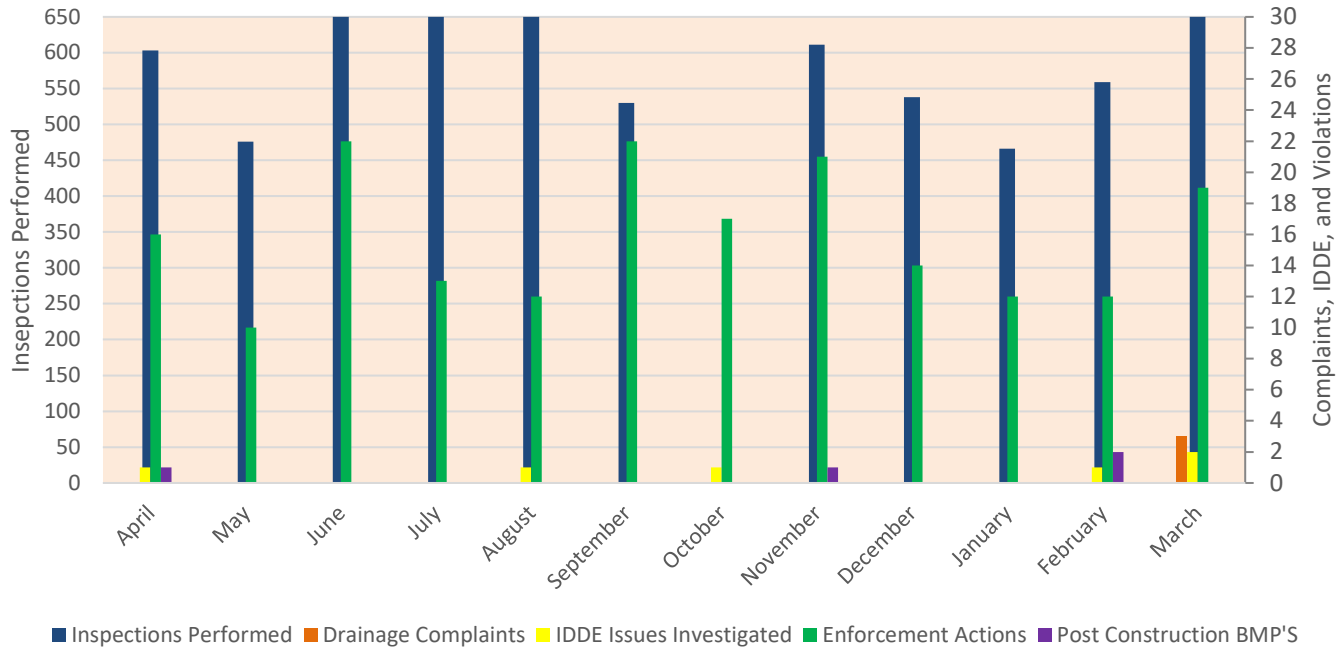
Status: Partial standard operating procedure updates and analytical logbooks and forms updated.

Purchases: New in-situ instrumentation purchased due to old instrumentation being obsolete and repair costs outweigh worth.



TYPE	April	May	June	July	August	September	October	November	December	January	February	March	Last 12 Months
Development Permit (COC's)	33	22	34	22	29	27	18	10	8	5	5	17	230
Plan Review	20	18	16	16	11	16	17	18	15	18	12	19	196
Permits Issued	63	60	59	29	43	55	29	60	48	75	53	93	338

MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	April	May	June	July	August	September	October	November	December	January	February	March	Last 12 Months
Inspections Performed	603	476	743	662	654	530	323*	611	538	466	559	864	3668
Drainage Complaints	0	0	0	0	0	0	0	0	0	0	0	3	3
IDDE Issues Investigated	1	0	0	0	1	0	1	0	0	0	1	2	6
Enforcement Actions	16	10	22	13	12	22	17	21	14	12	12	19	190
Post Construction BMP'S	1	0	0	0	0	0	0	1	0	0	2	0	9

Project (Year 2022)	Project Type	POC	Direct/Indirect	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Nov	Dec
Small Grants Program	Programs	Bacteria, Freshwater	Direct			Researching previous efforts								
Pet Waste Station Map	Programs	Bacteria	Indirect											
Septic Workshop	Programs	Bacteria	Direct			Planning meeting set								
Healthy Pond Series: Wildlife (Feb)	Programs	Nutrients	Direct											
Healthy Pond Series: CCY (May)	Programs	Nutrients	Direct					May-22						
Healthy Pond Series: Shorelines (Sept)	Programs	Nutrients	Direct			Planning meetings set								
Healthy Pond Series: Aeration (Dec)	Programs	Nutrients	Direct			Planning meetings set								
Being a Neighbor for Clean Water (April)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct			Planning meetings set								
Soil Sample Drive	Programs	Nutrients	Direct											
Buffer Workshop	Programs	Nutrients	Direct			Working with other agent to set date								
LID Lunch-and-Learn	Programs	Freshwater	Direct											
Flooding 411 Ask and Expert: Insurance (March)	Programs	Freshwater	Direct											
Flooding 411 Ask and Expert: Meet your Floodplain Manager (Sept)	Programs	Freshwater	Direct											
Flooding 411 Ask and Expert: Dams (Dec)	Programs	Freshwater	Direct											
Flooding 411 (June)	Programs	Freshwater	Direct			Planning meetings set								
Adopt-A-Stream (Spring)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct											
Adopt-A-Stream (Fall)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct											
4-H2O (July)	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct			7/12/22, 7/13/22, 7/14/22								
Kids in Kayaks	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct			5/2/22, 5/4/22, 5/9/22								
BMP Park Field Day	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Direct											
LSP consortium meeting (Feb)	Programs	Consortium Management	Direct											
LSP consortium meeting (May)	Programs	Consortium Management	Direct											
LSP consortium meeting (Sept)	Programs	Consortium Management	Direct											
LSP consortium meeting (Dec)	Programs	Consortium Management	Direct											
MS4 meetings (Jan)	Programs	Consortium Management	Direct											
MS4 meetings (June)	Programs	Consortium Management	Direct			Date set for 6/9/22								
MS4 meetings (Nov)	Programs	Consortium Management	Direct			Date set for 11/10/22								
Water Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect			Application submitted								
May River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect			4/30/2022								
Keep Broad Creek Clean Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
Beach/River Sweep	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
Soft Shell Crab Festival	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect			4/16/2022								
Shrimp Fest	Programs	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
LID Map Updates	Programs	Freshwater	Indirect											
Construction Site Social Media Campaign	Programs	Freshwater	Indirect											
Septic Factsheet	Publication	Bacteria	Indirect			Submitted to HGIC								
Bilingual Septic Rack Cards	Publication	Bacteria	Indirect			Drafting								
Septic "Welcome to the Neighborhood" Packets	Publication	Bacteria	Indirect			Drafting								
Boater Informational Packet	Publication	Bacteria	Indirect											
Boater online resources	Publication	Bacteria	Indirect											
Construction Site Rack card/Door Hanger	Publication	Freshwater	Indirect			Draft going to peer review								
BMP info packet	Publication	Freshwater	Indirect											
Changing Tides (monthly)	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect			4/15/2022								
News Article 1	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
News Article 2	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
News Article 3	Publication	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
Septic Step-Stake sign	Media	Bacteria	Indirect											
Boater Waste Signage	Media	Bacteria	Indirect											
Soil sample placards at retailers	Media	Nutrients	Indirect											
Native Plant Signage	Media	Nutrients	Indirect											
Buffer Mailers	Media	Nutrients	Indirect											
Septic Mass Media Campaign	Media	Bacteria	Indirect											
FB posts (one a week)	Media	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect											
SWUB Report (monthly)	Reporting	Consortium Management	Indirect			Completed 4/11/22								
LSP Annual Report	Reporting	Consortium Management	Indirect											
Boater Waste Buckets/Bags	Purchases	Bacteria	Indirect											
Native Seed Promo Packet	Purchases	Nutrients	Indirect			Getting Quote								
LSP Tent	Purchases	Consortium Management	Indirect			Searching for Vendor								
LSP Tablecloth	Purchases	Consortium Management	Indirect			Getting Quote								
LSP Stand-up Sign	Purchases	Consortium Management	Indirect			Getting Quote								
Boater signs	Purchases	Bacteria	Indirect											
Rack Cards	Purchases	General Stormwater, Bacteria, Nutrients, Freshwater	Indirect			Getting Quote								
Soil Sample Displays (signs and holders)	Purchases	Nutrients	Indirect											
Pet waste signs	Purchases	Bacteria	Indirect											
Mailers	Purchases	Bacteria, Nutrients	Indirect											
Pet Waste Display materials	Purchases	Bacteria	Indirect			Getting Quote								
Septic Magnets	Purchases	Bacteria	Indirect			Getting Quote								
LSP Promo Materials	Purchases	Consortium Management	Indirect			4 posts, 747 reach								
Pet Waste Displays at Local Orgs	Other	Bacteria	Indirect			Getting Quote, Making contacts								
Install Pet Waste Pledge Signage	Other	Bacteria	Indirect											
Soil Sample Bags at Local Retailers	Other	Nutrients	Indirect											
Direct Contacts	Other	General Stormwater, Bacteria, Nutrients, Freshwater	Direct			5, pond-related inquiries								

KEY
Not Started
In Progress
Completed

TOWN COUNCIL



STAFF REPORT

Engineering Department

MEETING DATE:	April 12, 2022
SUBJECT:	Engineering Department Monthly Report
PROJECT MANAGER:	Kim Jones, Director of Projects & Watershed Resilience

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.
- Construction is 95% complete.
- Stormwater pipe and sidewalks have been removed from the Shults Rd. portion of the project scope due to conflicts between SCDOT pipe and BJWSA sewer lateral line standards.
- **Next Steps**
 - Complete construction in April 2022.
 - Complete as-built drawings and request SCDOT inspection.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Phase 5 street lighting easement acquisition process is underway. One light in Palmetto Electric's service area can be mounted on an existing pole.
- Phase 6A along Simmons ville Road from Grayco northward to Sugaree Drive waiting on final as-builts for DOT inspection.
- 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**
 - Execute Yard Light Service Agreement with Palmetto Electric. Included in Consent Agenda.
 - 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 bid documents are complete and bid received 3/24/22.

- OCRM/DHEC permits are approved. SCDOT comments have been addressed and under 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 90% complete. Awaiting resolution of Cunningham LLC easement conditions.
- Street lighting plans are under review with SCDOT.
- **Next Steps**
 - Completed engineering design and permitting in March 2022.
 - Construction is anticipated to start in late April 2022 pending Town Council Approval on 4/12/22.

4. Boundary Street Streetscape

- Surveying is complete and engineering design is underway.
- Conceptual Drainage Plan was provided to Town Staff for review and comment.
- **Next Steps**
 - Complete draft preliminary engineering design in March 2022.

5. New River Linear Trail

- Surveying is complete.
- Conceptual Master Plan is 90% complete.
- Met with Santee Cooper to determine design parameters for Phase 1 engineering design.
- **Next Steps**
 - Obtain proposal for Phase 1 Pathway Engineering Design (New River to Hwy 46).
 - Research grant opportunities to fund planning and construction of future trail improvements.
 - Determine availability for sewer, water and power to trail head/parking area.
 - Submit plans to Santee Cooper for cursory review.
 - Begin discussions with Heritage at New Riverside for easement near Hwy 46 overpass.

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.
- The engineer is preparing new construction documentation to complete the project.
- **Next Steps**

- Readvertise for bids to complete construction on Phase 5A-D anticipated by end of May 2022.
 - Start house connections after the main line is approved by DHEC.
- 2. Historic District Sewer Extension Phase 1 - Pritchard Street**
- Main line construction and connections are complete.
- 3. Historic District Sewer Extension Phase 2 - Bridge Street**
- Received SCDHEC permit to construct for original scope.
 - No contractors responded to the first construction solicitation. Researching redesign options to avoid extremely long bore.
 - Received Quit Claim Deeds from all the property owners along the ghost road.
 - Obtained road ownership from SCDOT.
 - **Next Steps**
 - Readvertise project for bid in conjunction with HD Sewer Phase 3.
- 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**
 - Submit Phase 3 for permitting to be bid with Phase 2.
 - 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 on the west side of the street in April 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. Project was re-packaged and re-bid.
 - Completed Historic District crosswalk study identifying and prioritizing future intersection/crosswalk improvements to meet ADA compliance.
 - Executed contract for engineering design services for the first phase of intersection/crosswalk ADA improvements. Design is underway.

- **Next Steps**
 - AME Church rain garden bids received on 2/7/22 and JS Construction selected.
 - Complete designs and construction documents for first phase of intersection/crosswalk ADA improvements.
- 3. Calhoun Street Streetscape**
- Surveying is complete and engineering design underway.
 - **Next Steps**
 - Continue with engineering design. Obtain preliminary plan in March and continue planning into 2022.
 - Easement acquisition is planned to begin in FY 2023.
 - Phased construction is planned to begin in FY 2024 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.
 - ATAX funding was approved in March.
 - Midwest Maintenance Inc. and Town have executed contract.
 - **Next Steps**
 - Midwest Maintenance Inc. to apply for building permit.
 - Midwest Maintenance Inc. to provide construction schedule and begin scope of work.

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.
 - Received Undiscovered Grant in March for phase III signage at Garvin/Garvey.
 - **Next Steps**
 - Begin construction of parking area in March 2022.
 - Procure HW Exhibits for phase III signage.
 - HW Exhibits to provide schedule for scope of work.
- 2. Wright Family Park**
- Completed initial installation of the initial Palmetto Logs and obtained approval to proceed with two more installations.
 - Order materials for additional installations and sign fabrication.
 - **Next Steps**
 - Complete additional installations of the palmetto logs by the end of April.

3. Oscar Frazier Park

- Installed additional synthetic turf and power pedestals.
- Prepared concept designs and estimating for Splash Pad.
- Began construction of the Field of Dreams sod replacement.
- **Next Steps**
 - Complete sod replacement by 5/6/22.
 - Continue planning and design 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 plans are currently under review and moving forward with approvals and permitting.
- Construction documents for the restroom building are 98% complete.
- Posted RFQU 2/16/2022. Architectural Services for barn renovation/addition.
- **Next Steps**
 - Finalize 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.
 - Procure Architectural team for future barn design.

5. May River Road Pocket Park

- Received 90% Construction Documents on 3/22/22.
- Obtained bids to raise stormceptor.
- Submitted Public Project application..
- **Next Steps**
 - Review construction documents and provide comments to JK Tiller to complete bid documents.
 - Bid construction landscape improvements in May 2022.

6. Miscellaneous Park Improvements

- Completed DuBois Park synthetic turf replacement.
- Complete concept design for Pritchard Pocket Park hardscape improvements.
- **Next Steps**
 - Obtain quotes for hardscape improvements at Pritchard Street Park.

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.

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

- Initial Scope of Work of the parking and services yard is substantially complete.
- Additional Design Services for Challenge Course and Reflection Plaza are underway.
- No bid responses were received for the Covered Shed building.
- **Next Steps**
 - Punch list and closeout documents nearing completion.
 - Obtain quotes from specialty contractors for covered parking shed.
 - 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 St. Quit Claim Deeds are complete. Pritchard and Colcock Streets 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 Services Facility Improvements

- Prepare site plans for expanding of Public Services 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.
 - Fencing, flooring, canopies, and HVAC replacement to be completed in June

7. Rotary Community Center Facility Improvements

- Obtain specifications and quotes to replace the hardwood floor in the main area.
- **Next Steps**
 - Complete floor replacement in June 2022.

8. Watershed Management Facility Improvements

- Obtain quotes to add flooring in additional offices.
- **Next Steps**
 - Complete floor replacement in June 2022.

DIVISION/STAFF UPDATES**Project Management**

Thirty-eight (38) CIP projects were approved with the FY 2022 budget. HD Sewer Phase 1 (Pritchard Street), BIS Phase 6A Sidewalks, LEC Parking and Service Yard Expansion, DuBois Park Synthetic Turf Replacement, Wright Park Restroom HVAC, Oscar Frazier Park Playground Turf and Power Pedestals, Safety Camera Replacements/Additions, and IT Server Upgrades have been completed so far in FY 2022. Goethe Shult Phase 2, and BIS Phase 5 Sewer are currently under construction and planned to be complete in the Summer of 2022. Boundary Street Lighting, and HD Sewer Phase 2 and 3, 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.
- Information provided to Town Comprehensive Plan Update consultant team for inclusion in the state-required resiliency component.
- **Next Steps**
 - Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.
 - Town Comprehensive Plan public workshop scheduled 4/5/22.

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 and again on 1/25/22 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**
- Staff increased sampling frequency and implemented additional monitoring sites and parameters in the May River headwaters based upon recommendations out of the 2020 May River Watershed Action Plan Update and Model Report.
 - Staff is collecting intermittent flow data in conjunction with grab samples at monitoring sites in the May River Headwaters as recommended in the 2020 May River Watershed Action Plan Update and Model Report. Staff is determining what monitoring sites are most critical due the length of time flow data collection requires.
 - Staff has implemented continuous flow monitoring instruments in the Stoney Creek and Rose Dhu Creek subwatersheds. Staff is working with a consultant to assess the first six (6) months of data collected at these flow monitoring stations.

- Staff is working with the USCB-MST Laboratory to assess the utility of fecal markers in regional watersheds, including the May River watershed as recommended in the 2020 May River Watershed Action Plan Update and Model Report.

5. **Municipal Separate Storm Sewer System (MS4) Program Update**

- Staff has updated 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 met 3/24/22.
Attachment 3
- Staff developed an MS4 direct mail postcard and has obtained cost estimates to print and mail. Staff is working to refine addresses in the appropriate format needed for mailings. This effort assists the Town with meeting MS4 permit requirements.
- Staff participated in Bluffton Middle School's Career Fair on 3/17/22.
- Appointment of Bill Baugher as the Town's ex officio representative to the Beaufort County Stormwater Utility Board. The Beaufort County Stormwater Utility Board is responsible for advising municipal councils on matters related to the Stormwater Utility. Specifically, board responsibilities and duties include. **Attachment 4**

7. **MS4 MCM – #3 Illicit Discharge Detection and Elimination**

- Stormwater Infrastructure Inventory Map - **Attachment 5a**
- *E. coli* Concentrations Trend Map - **Attachment 5b**
- Monthly, Microbial Source Tracking (MST) Maps - **Attachments 5c and 5d**
 - Town staff collected eighteen (18) samples throughout the May River Watershed on 02/28/22 following 0.00 inches of rainfall. Dry weather sampling assists with determining if the human signal is stormwater dependent and helps staff identify illicit discharges reaching the MS4 system. No detections of the human genetic marker were identified.
 - 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 conducted sampling 03/14/22. The human genetic marker was identified at SCDHEC Shellfish Station 19-19. Staff will be communicating with Council, WAPAC, and Senior Staff regarding follow-up actions.
 - Town staff continues to work with Dr. Tye Pettay to acquire septic, sewage, horse, and dog fecal samples to implement 2020 May River Watershed Action Plan Model

Report recommendations and to ensure representative regional marker specificity and sensitivity.

- Illicit Discharge Investigations – **Attachment 5e**
8. **MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 6**
 9. **MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 7**
 10. **MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
 - Jones participated in Accelerating Solutions for a Resilient Coast Conference.**MS4 MCM – #6 Good Housekeeping (Ditch, Drainage and Roadside Maintenance)**
 - Public Services performed weekly street sweeping on Calhoun Street, Highway 46, Bruin Road, May River Road, Pin Oak Street, and curbs and medians on Simmonsville and Buck Island Roads.
 - Performed ditch inspections
 - Arrow ditch (2,569 LF)
 - Red Cedar ditch (966 LF)
 - Buck Island roadside ditch (15,926 LF)
 - Simmonsville roadside ditch (13,792 LF)
 - Ongoing roadside mowing, litter clean-up and maintenance of Masters' Way, McCracken Circle, Hampton Parkway, Buck Island and Simmonsville Roads, Goethe Road, Shults Road, Jason and Able Streets, Whispering Pine Road, May River Road and Eagles Field.
 11. **Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 8**
 12. **Citizen Request for Watershed Management Services & Activities – Attachment 9**

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
4. Consideration of Appointment of Bill Baugher as Town of Bluffton Ex Officio Representative to the Beaufort County Stormwater Utility Board
5. 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
6. MS4 Minimum Control Measure #4 – Construction Site Stormwater Runoff Control
7. MS4 Minimum Control Measure #5 – Stormwater Plan Review and Related Activity
8. Citizen Drainage, Maintenance and Inspections Concerns Map
9. Citizen Request for Watershed Management Services and Activities Map

10. 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			
	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022	2019	2020	2021	2022
	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	170.0	17.0	79.0		33.0	22.0	49.0		140.0	17.0	4.5		33.0	4.5	17.0		13.0	4.0	6.8		110.0	11.0	7.8	
November	17.0	70.0	33.0		6.8	31.0	33.0		7.8	17.0	7.8		11.0	13.0	4.0		4.5	13.0	4.5		2.0	4.5	2.0	
October	7.8	49.0	49.0		4.5	79.0	26.0		2.0	31.0	13.0		4.5	21.0	23.0		1.8	33.0	23.0		2.0	79.0	17.0	
September	79.0	110.0	33.0		33.0	49.0	11.0		6.8	49.0	17.0		17.0	33.0	13.0		4.5	33.0	2.0		1.8	33.0	11.0	
August	70.0	49.0	49.0		49.0	49.0	49.0		33.0	23.0	23.0		22.0	23.0	49.0		7.8	17.0	14.0		17.0	22.0	14.0	
July	4.5	33.0	350.0		13.0	13.0	64.0		7.8	23.0	79.0		17.0	7.8	33.0		22.0	7.8	33.0		13.0	17.0	13.0	
June	33.0	NS	49.0		49.0	NS	79.0		49.0	NS	13.0		46.0	NS	17.0		13.0	NS	22.0		4.5	NS	2.0	
May	7.8	70.0	2.0		9.2	49.0	49.0		7.8	23.0	23.0		2.0	22.0	23.0		6.8	6.8	23.0		4.5	4.5	7.8	
April	23.0	33.0	33.0		13.0	33.0	23.0		7.8	13.0	22.0		6.8	6.8	17.0		23.0	13.0	7.8		6.8	13.0	2.0	
March	23.0	170.0	33.0	33.0	23.0	49.0	11.0	23.0	6.8	130.0	17.0	2.0	13.0	49.0	13.0	4.5	7.8	70.0	2.0	2.0	4.5	33.0	2.0	2.0
February	64.0	17.0	79.0	23.0	33.0	7.8	70.0	31.0	23.0	21.0	79.0	17.0	31.0	4.5	23.0	22.0	6.8	4.5	7.8	2.0	13.0	6.8	6.8	11.0
January	23.0	95.0	17.0	49.0	23.0	33.0	17.0	22.0	13.0	33.0	13.0	33.0	33.0	17.0	23.0	7.8	7.8	17.0	17.0	7.8	23.0	17.0	7.8	7.8
** Truncated GeoMetric Mean	35.0	34.0	36.0	42.0	23.0	21.0	26.0	31.0	16.0	16.0	18.0	20.0	14.0	12.0	15.0	14.0	10.0	10.0	10.0	10.0	7.0	9.0	8.0	8.0
** Truncated 90th Percentile	168.0	106.0	139.0	142.0	89.0	59.0	69.0	70.0	63.0	50.0	58.0	58.0	52.0	37.0	39.0	35.0	38.0	31.0	35.0	42.0	32.0	35.0	33.0	30.0

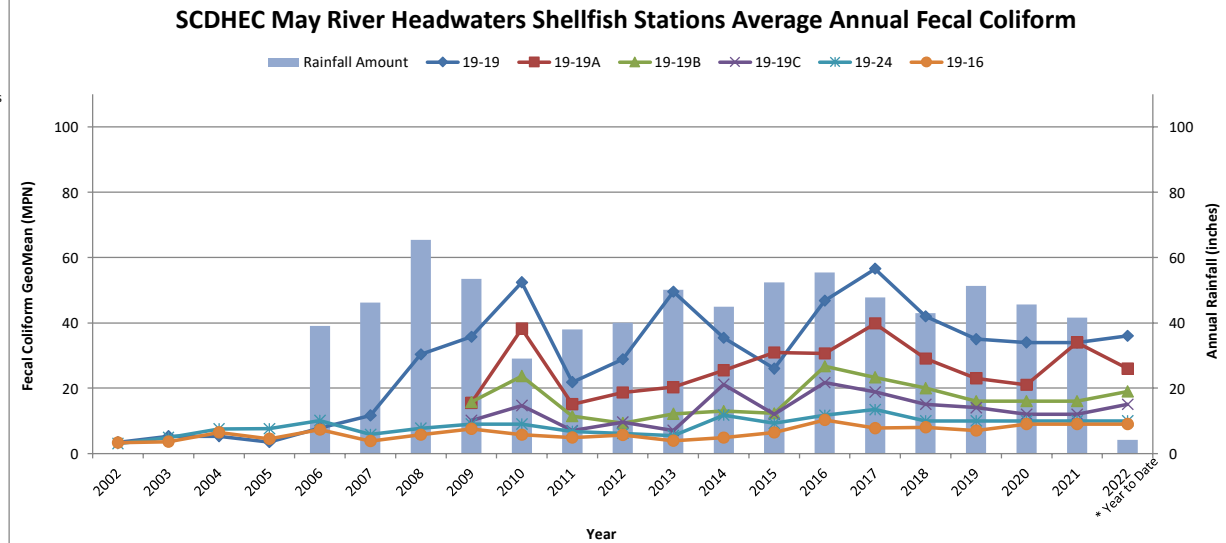
NS = No Sample

SCDHEC Regulatory Requirements:

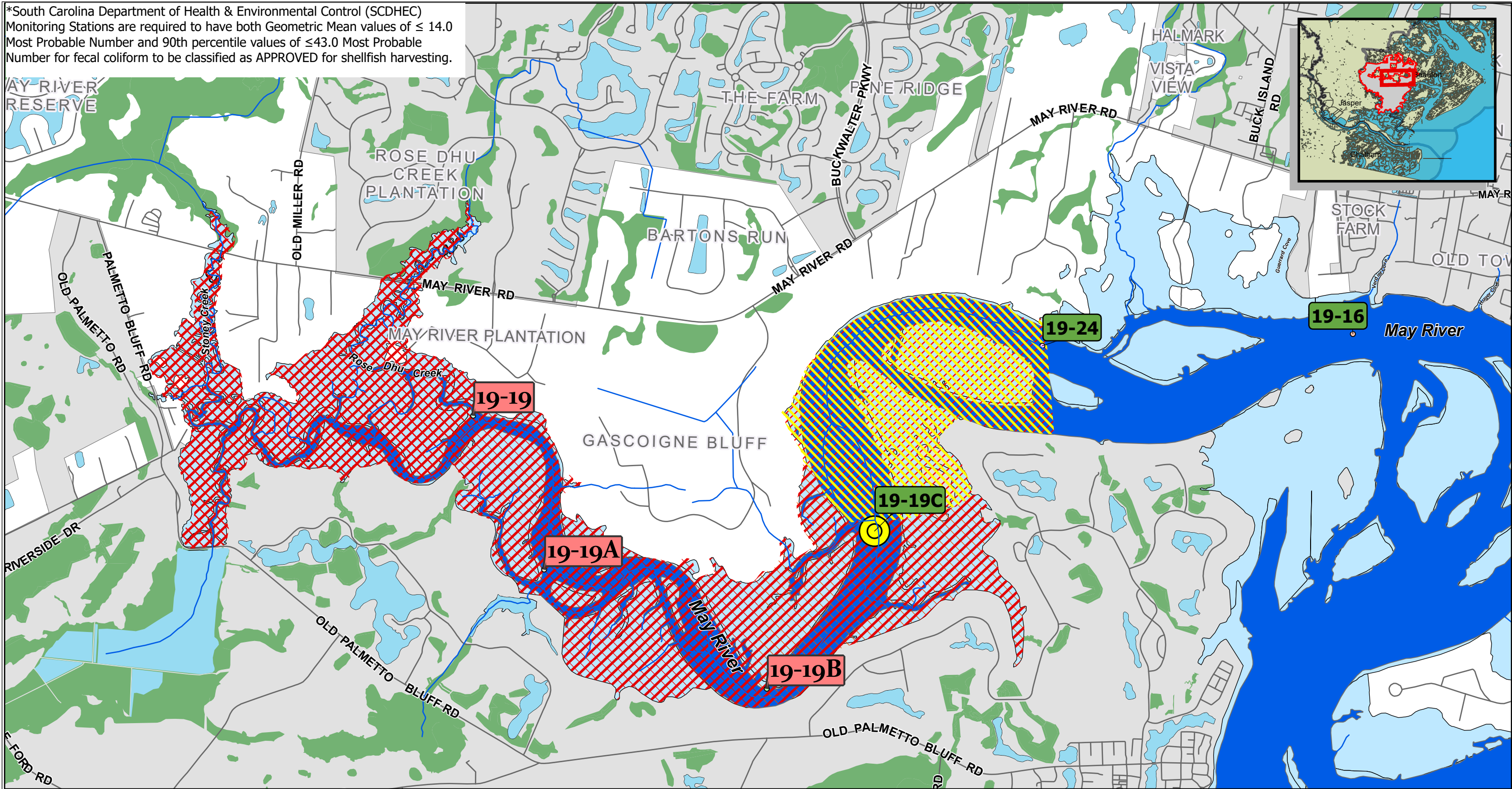
Geometric Mean ≤ 14

90th Percentile ≤ 43

** Town staff calculations utilizing SCDHEC statistics



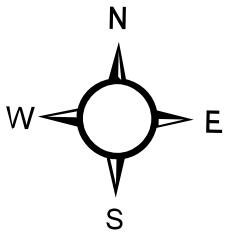
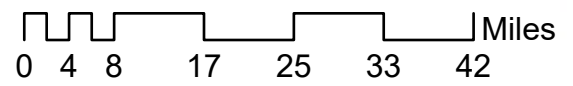
*South Carolina Department of Health & Environmental Control (SCDHEC) Monitoring Stations are required to have both Geometric Mean values of ≤ 14.0 Most Probable Number and 90th percentile values of ≤ 43.0 Most Probable Number for fecal coliform to be classified as APPROVED for shellfish harvesting.



- | | |
|---|---------------------|
| SCDHEC Shellfish Monitoring Stations | 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



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

Thursday, March 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 February 10, 2022 Minutes
 - V. **PUBLIC COMMENTS**
 - VI. **Presentations, Celebrations and Recognitions**
 1. Town of Bluffton Annexation History and Development Overview - Kevin Icard, Director of Growth Management
 - VII. **OLD BUSINESS**
 1. Prioritization of Strategic Plan Recommendations - Kim Jones, Director of Projects & Watershed Resilience
 2. 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
 - VIII. **NEW BUSINESS**
 - IX. **DISCUSSION**
 - X. **ADJOURNMENT**
- NEXT MEETING DATE: 9:00AM, Thursday, April 28, 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.*

TOWN COUNCIL**STAFF REPORT**
Engineering Department

MEETING DATE:	April 12, 2022
PROJECT:	Consideration of Appointment of Bill Baugher as Town of Bluffton Ex Officio Representative to the Beaufort County Stormwater Utility Board
PROJECT MANAGER:	Kim Jones, Director of Projects & Watershed Resilience

RECOMMENDATION:

Town Council appoints Bill Baugher, Watershed Management Division Manager, as the ex officio representative for the Town of Bluffton to the Beaufort County Stormwater Management Utility Board.

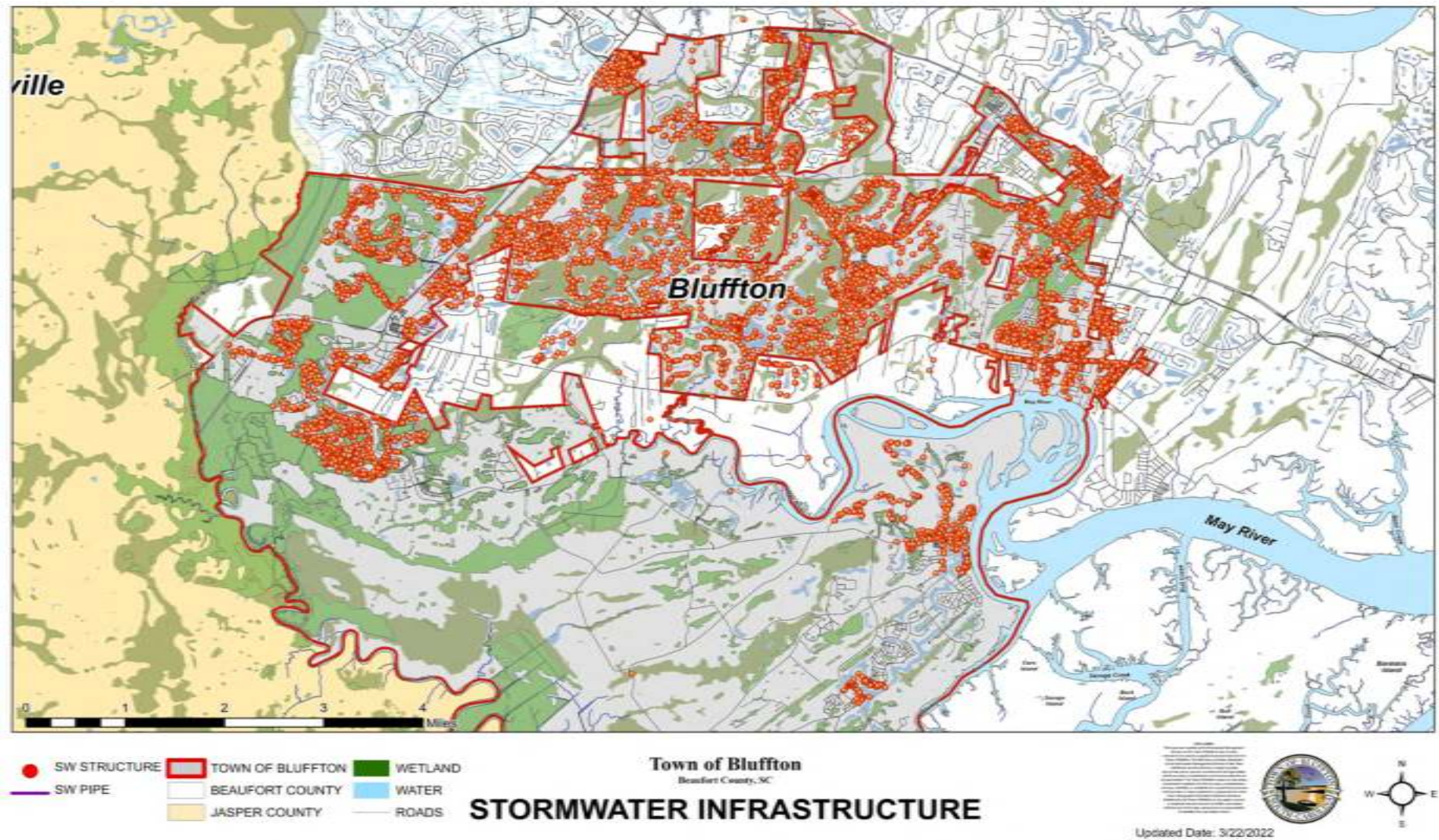
BACKGROUND/DISCUSSION:

The Beaufort County Stormwater Utility Board is responsible for advising municipal councils on matters related to the Stormwater Utility. Specifically, board responsibilities and duties include:

1. Review and comment to the county administrator on the annual stormwater management utility enterprise fund budget.
2. Cooperate with the South Carolina Department of Health and Environmental Control (DHEC), Office of Coastal Resource Management (OCRM), the Beaufort County Sea Rise Task Force as well as other public and private agencies having programs directed toward stormwater management programs.
3. Review and make recommendations concerning development of a multiyear stormwater management capital improvement project (CIP) plan.
4. Review and advise on proposed stormwater management plans and procurement procedures.
5. Provide review and recommendations on studies conducted and/or funded by the utility.
6. Review and advise on actions and programs to comply with regulatory requirements, including permits issued under the State of South Carolina National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges from Regulated Small Municipal Separate Storm Sewer Systems (MS4).

All ex officio members are staff members appointed by their respective municipal councils. The vacancy has been created by the Town's current representative Kim Jones's promotion to Director of Projects & Watershed Resilience.

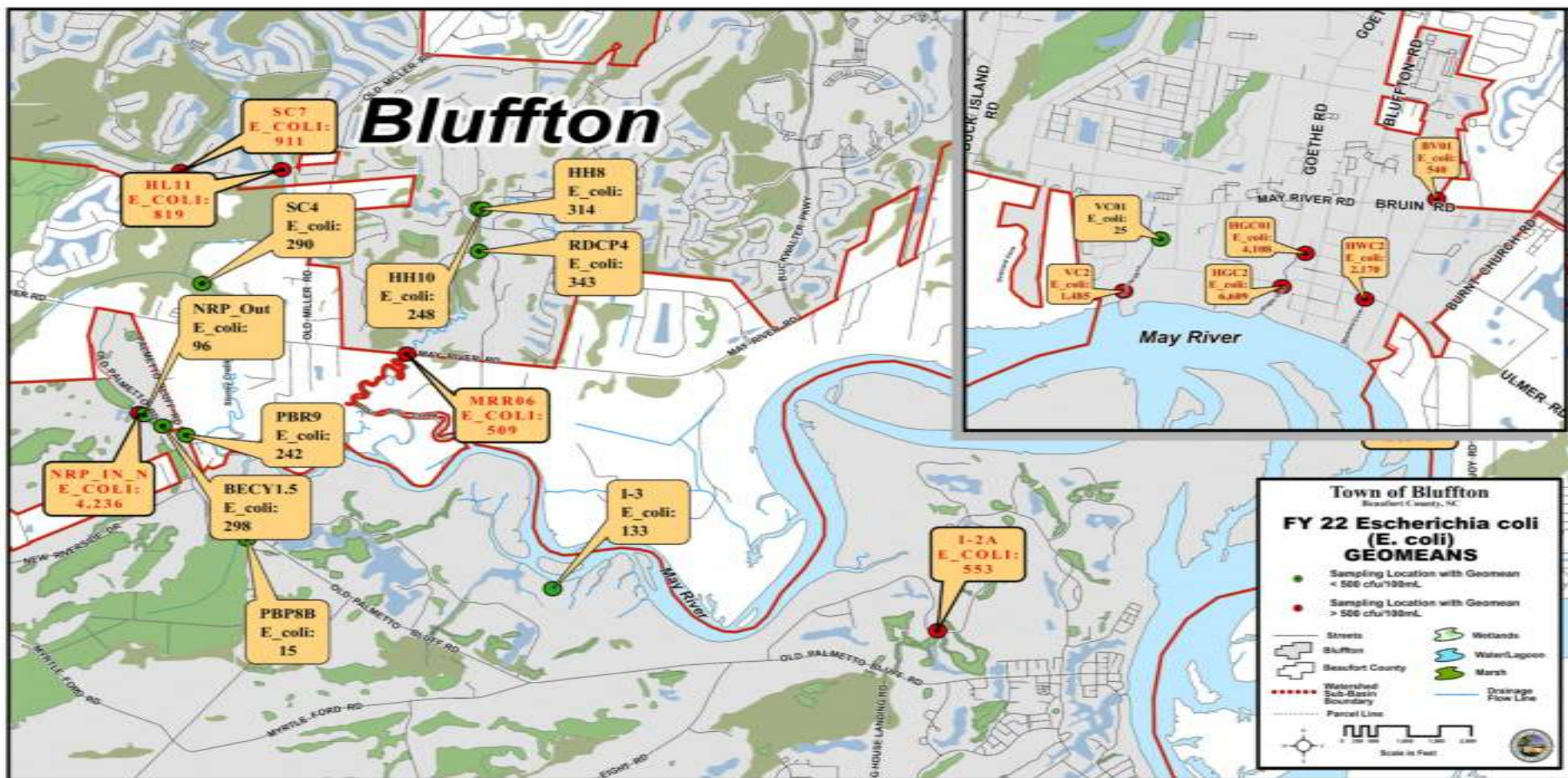
MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination): Stormwater Infrastructure Inventory



Stormwater Infrastructure Inventory Collection Status

FY 2022 YTD Collection Totals	1702
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

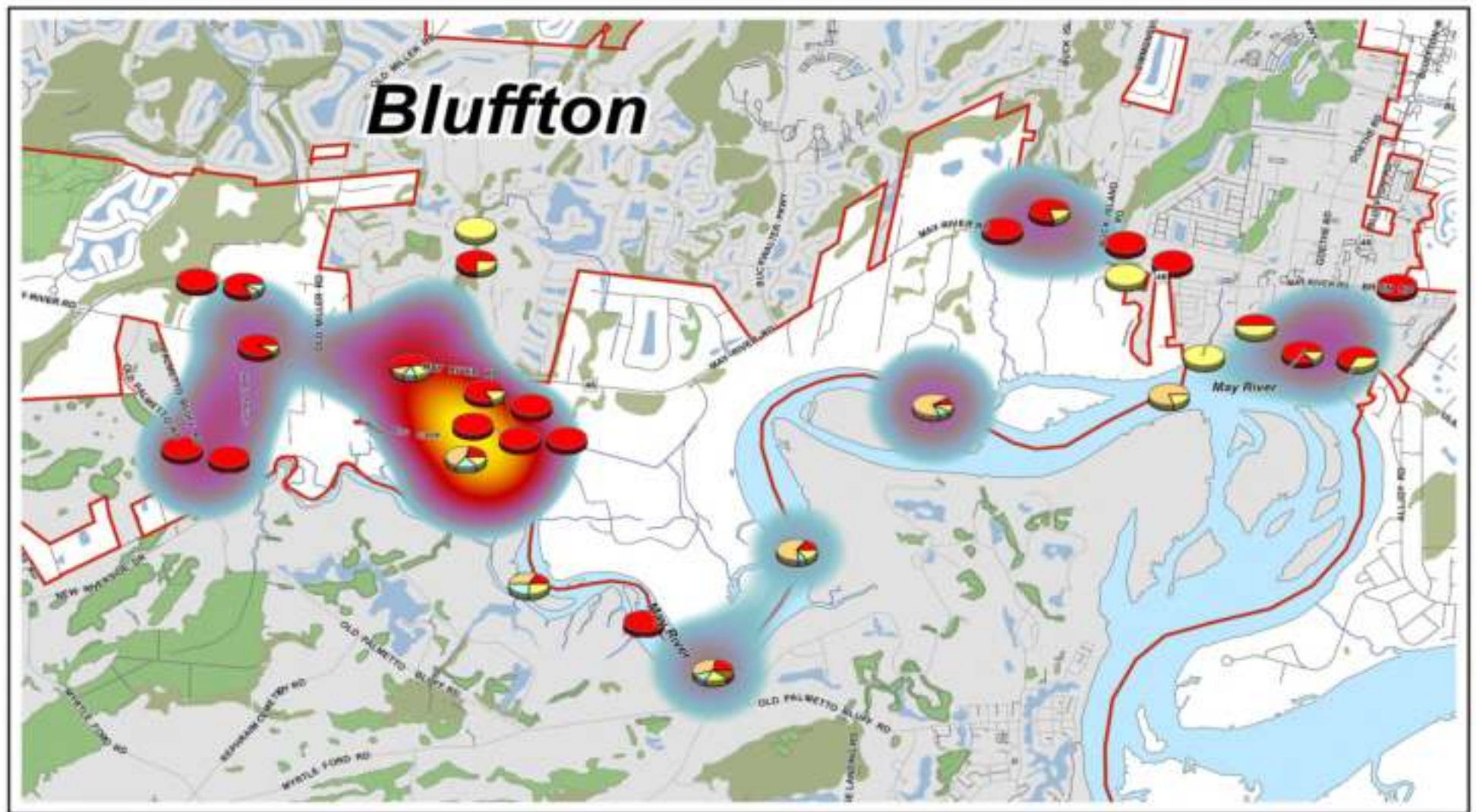


E. coli form geomeans updated as of: 3/22/2022

	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2022 YTD Totals	258	69	119
FY 2021 Totals	380	115	179
FY 2020 Totals	223	115	123
FY 2019 Totals	280	193	264

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

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



MST Sampling Results

- Human
- Rod
- Deer
- Dog
- Horse

MST Sampling Sites

Intensity of samples

- Representative of Low Sampling Distribution
- Representative of High Sampling Distribution

MICROBIAL SOURCE TRACKING (MST) LOCATIONS

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

Town of Bluffton
Beaufort County, NC

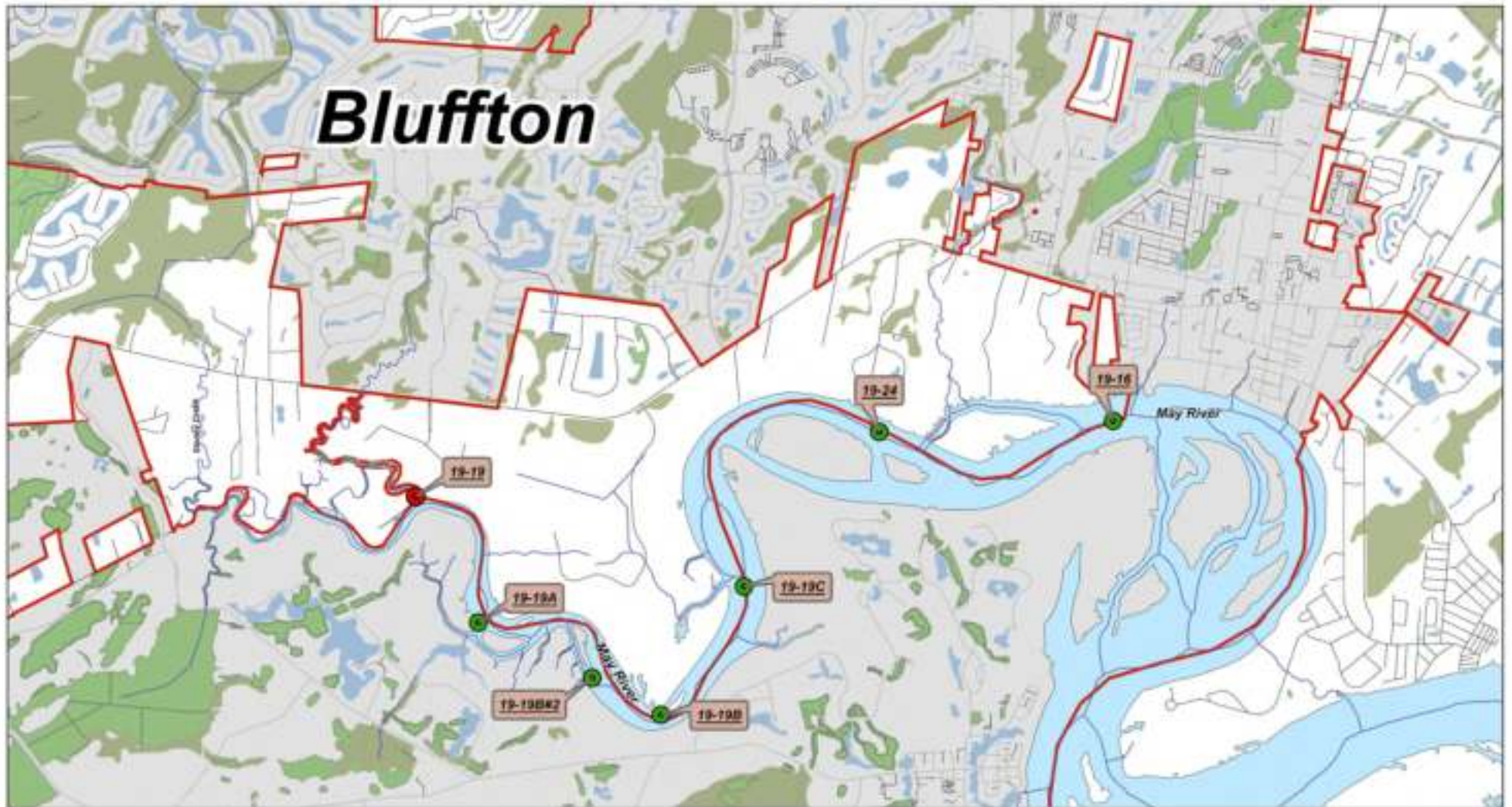
Town Jurisdiction

Beaufort County

Drainage Flow Lines

Updated Date: 3/22/2022

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

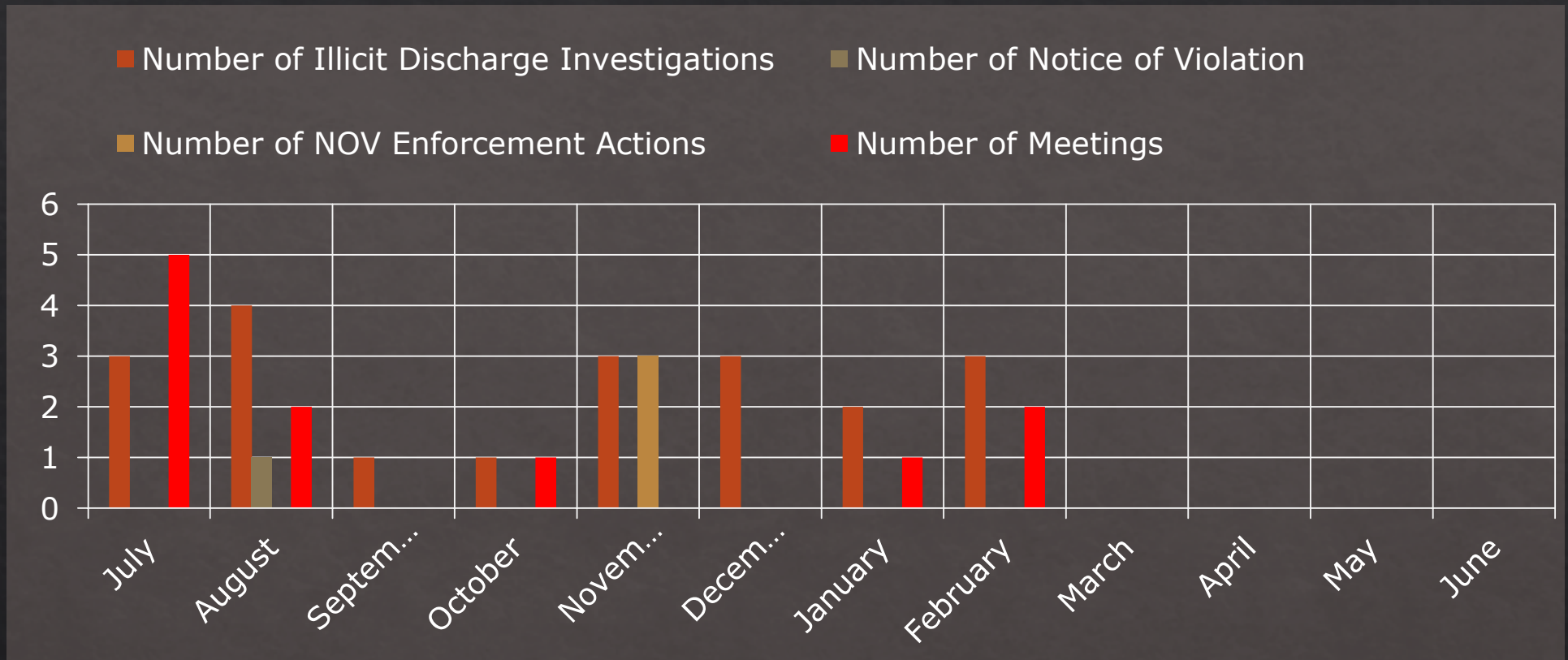
MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results November 2021

Town of Bluffton
Beaufort County, NC

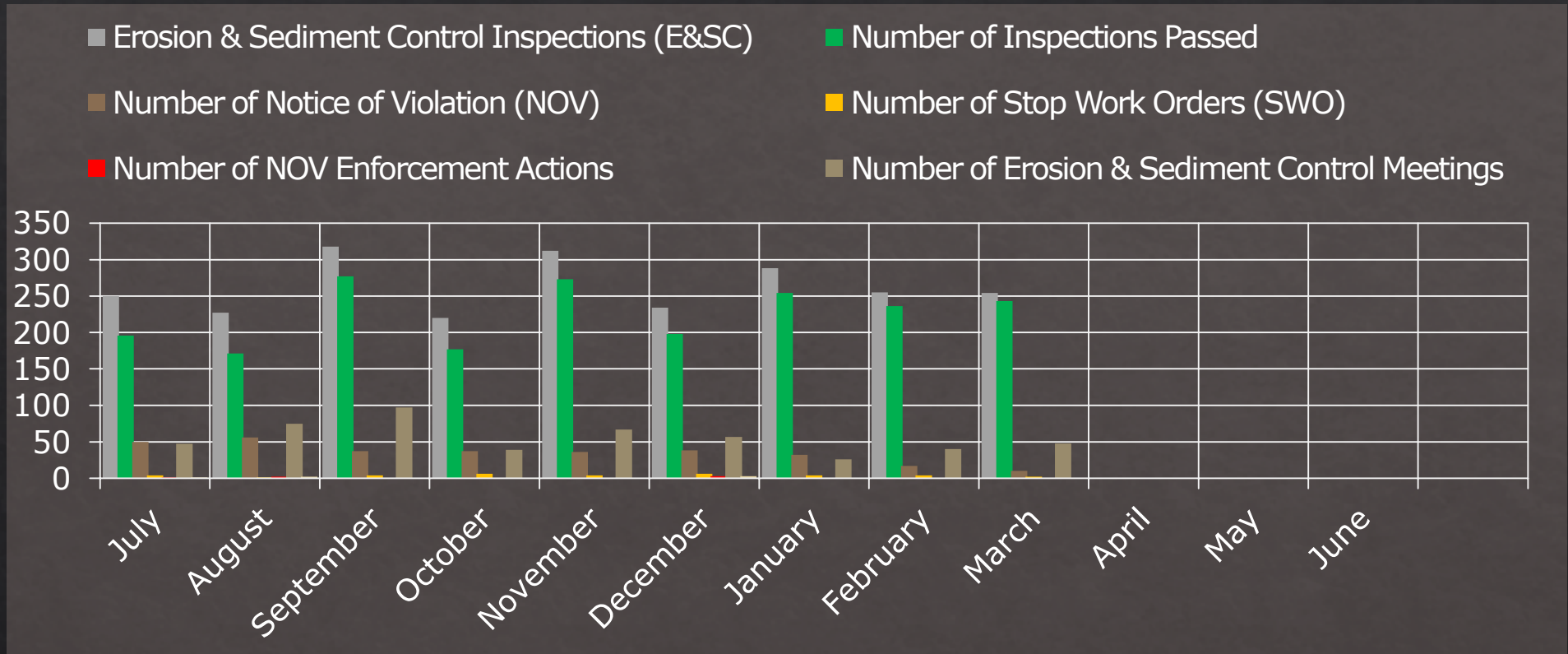


MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



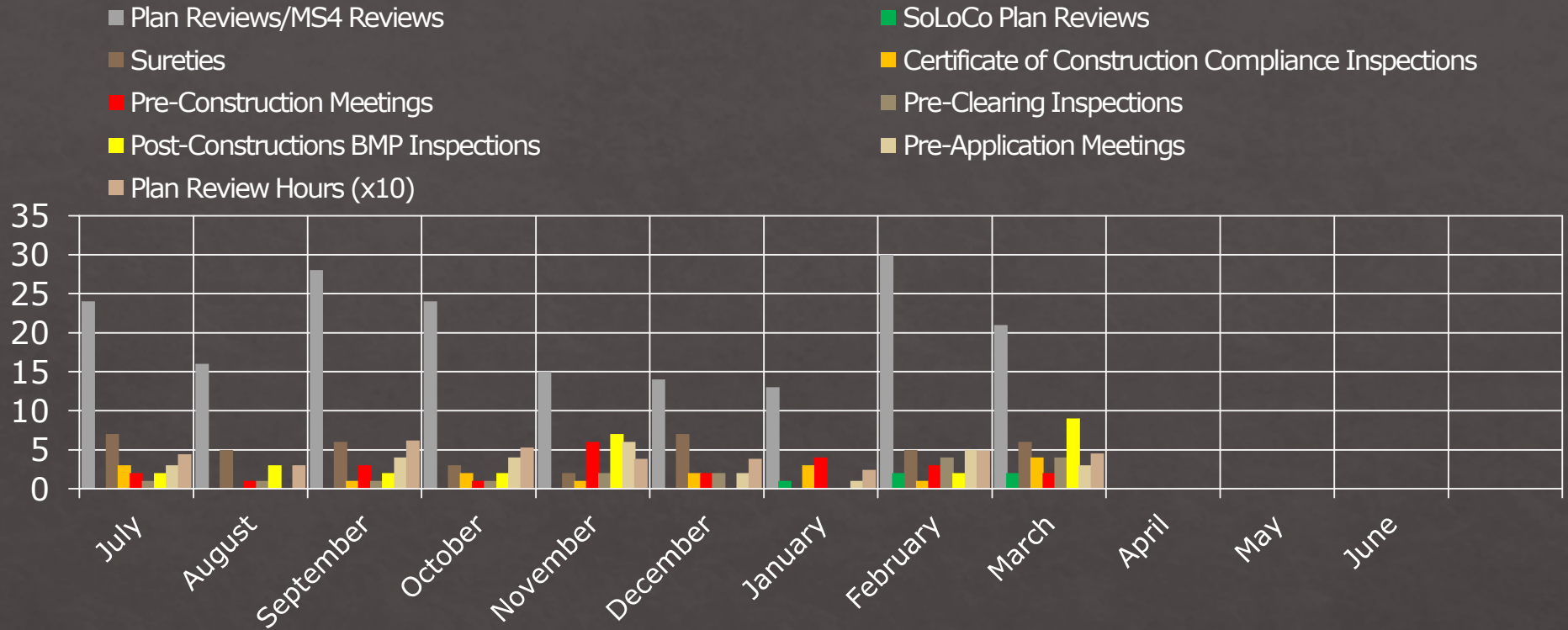
	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2022 YTD Totals	17	1	3	9
FY 2021 Totals	36	11	1	29
FY 2020 Totals	45	8	6	49
FY 2019 Totals	38	3	1	61

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



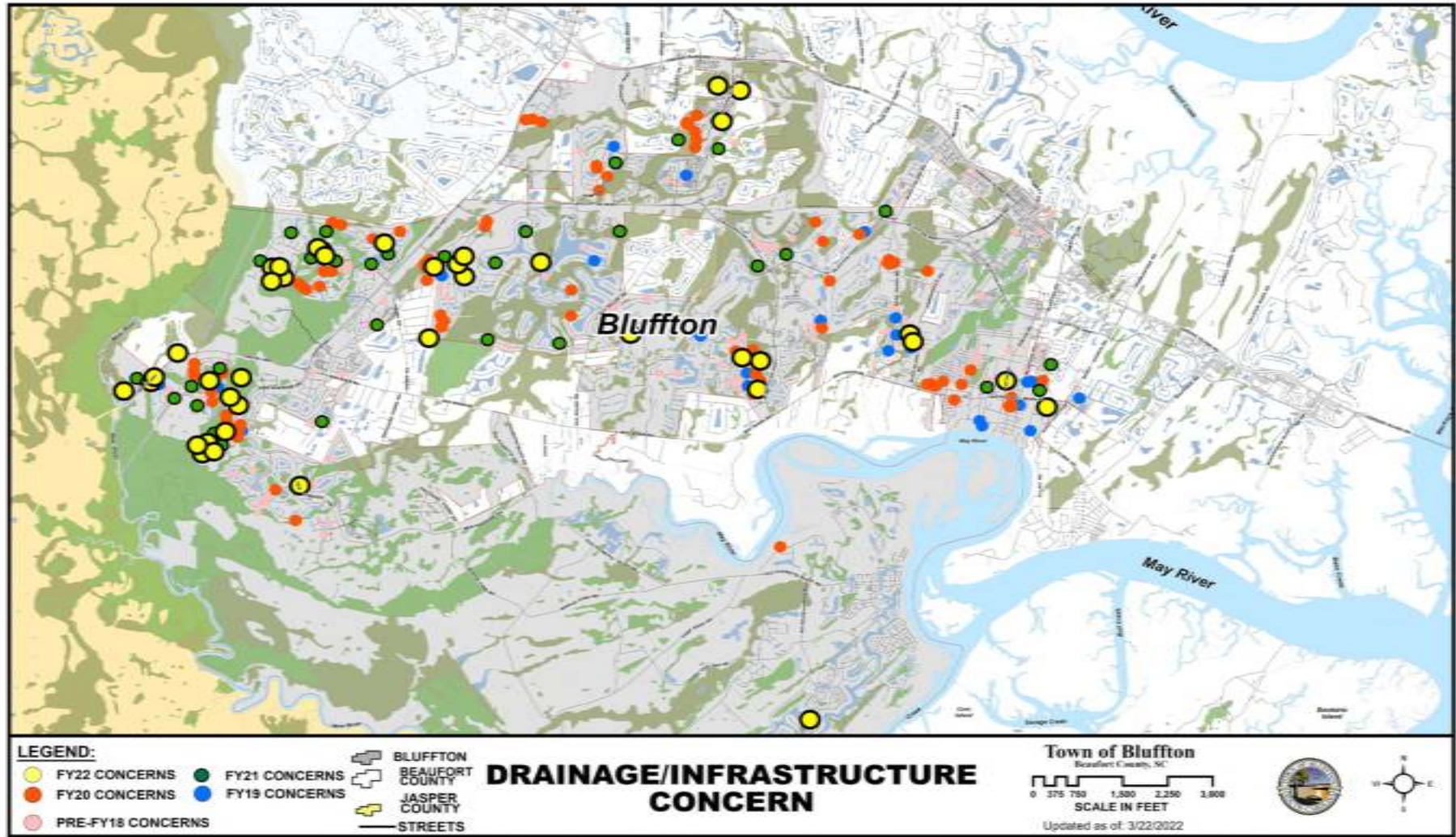
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOVs Issued	Number of SWO Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2022 YTD Totals	2358	2025	313	35	6	496
FY 2021 Totals	1,805	1,527	267	32	4	413
FY 2020 Totals	1,517	1187	185	16	9	496

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



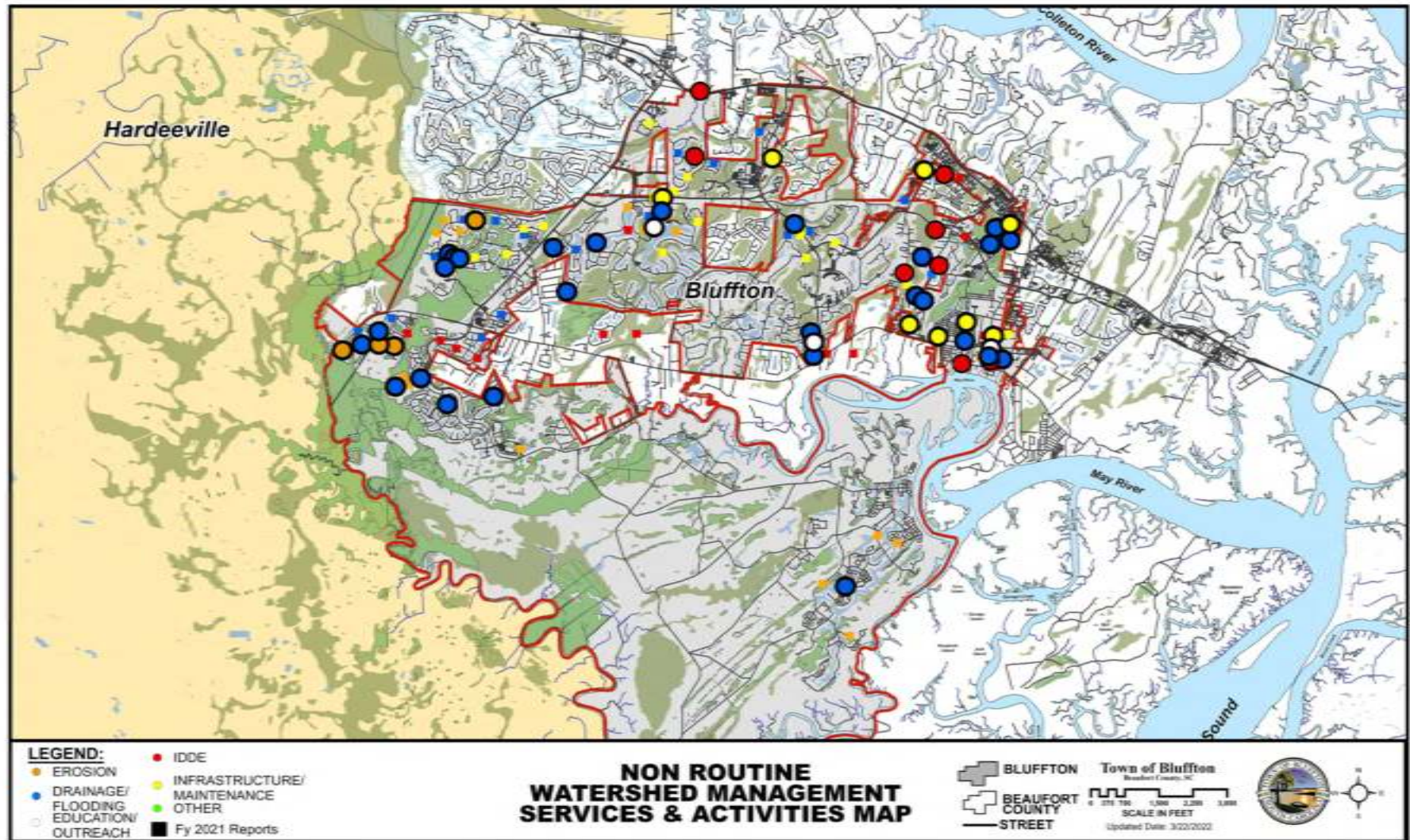
	Plan Reviews MS4 Reviews	SoLoCo Plan Reviews	Sureties	CCC Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2022 YTD Totals	184	5	41	17	24	16	27	28	383 Hrs.
FY 2021 Totals	186	0	61	55	24	24	22	41	789 Hrs.
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	27	26
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	27	21
FY 2021 Totals	46	36
FY 2020 Totals	99	102

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
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 2/23/22	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	July	August	September	October	November	December	January	February	March	April	May	June	July	August
					B M E	B M E	B M E	B M E	B M E	B M E	B M E	B M E	B M E	B M E	B M E	B M E	B M E	B M E
1	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	◆													

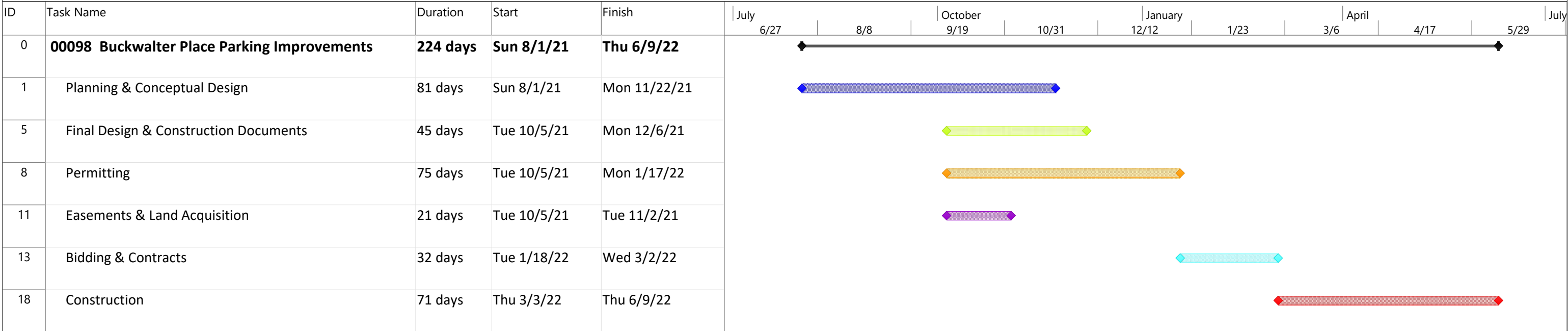
Project 00092 Tue 10/5/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

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 ◆ Critical Task ★ Task ■	Project Duration ↔ Planning and Conceptual Design ▨ Final Design and Construction Documents ▨	Permitting ▨ Easements and Land Acquisition ▨ Bidding and Contracts ▨	Construction ▨
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**BUCKWALTER PLACE PARKING IMPROVEMENTS
PROPOSED SCHEDULE**

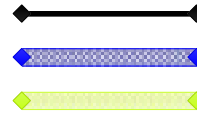


Project: 00098
Date: Thu 10/21/21

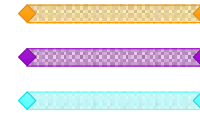
Milestone
Critical Task
Task



Project Duration
Planning and Conceptual Design
Final Design and Construction Documents



Permitting
Easements and Land Acquisition
Bidding and Contracts



Construction



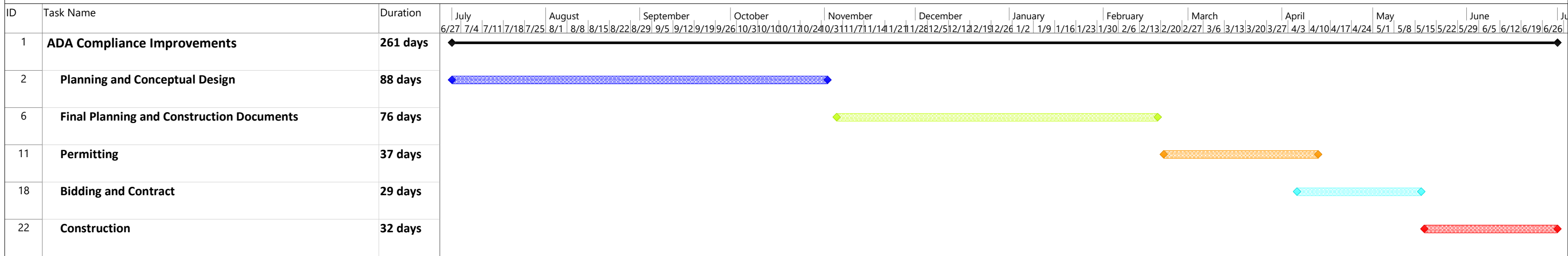
BUCK ISLAND-SIMMONSVILLE SANITARY SEWER PHASE 5 A-D
PROPOSED SCHEDULE

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

HISTORIC DISTRICT STREETScape AND DRAINAGE IMPROVEMENTS
PROPOSED SCHEDULE



Project: 00050
Date: Mon 1/24/22

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

BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2018												2019												2020												2021												2022												2023																																																																																			
					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	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	1440 days	Thu 2/1/18	Wed 8/9/23	◆																																																																																																																																															
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 Rd	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)	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	475 days	Thu 7/1/21	Wed 4/26/23	◆																																																																																																																																															
82	Final Design and Construction Documents	200 days	Thu 7/1/21	Wed 4/6/22	◆																																																																																																																																															
86	Permitting	60 days	Thu 4/7/22	Wed 6/29/22	◆																																																																																																																																															
88	Easements	0 days	Wed 6/29/22	Wed 6/29/22	◆																																																																																																																																															
93	Bidding/Contract	61 days	Thu 6/30/22	Thu 9/22/22	◆																																																																																																																																															
98	Construction	154 days	Fri 9/23/22	Wed 4/26/23	◆																																																																																																																																															
105																																																																																																																																																				
106	Lighting - Kitty Road to 301 Buck Island Rd	329 days	Thu 5/13/21	Tue 8/16/22	◆																																																																																																																																															
113																																																																																																																																																				
114	Lighting - Grayco to Windy Lakes	150 days	Thu 1/12/23	Wed 8/9/23	◆																																																																																																																																															
115																																																																																																																																																				
116																																																																																																																																																				

Project: 00054 Date: Tue 3/29/22	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Bidding and Contract	◆		
	Task	■	Final Design and Construction Documents	◆	Easements and Land Acquisitions	◆		

**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			

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

OSCAR FRAZIER PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	August	September	October	November	December	January	February	March	April				
1	OSCAR FRAZIER PARK FY 22 IMPROVEMENTS	181 days	Mon 7/26/21	Mon 4/4/22	◆												
2	Final Planning and Construction Documents	60 days	Mon 7/26/21	Fri 10/15/21	◆												
8	Bidding and Contracts	41 days	Mon 10/18/21	Mon 12/13/21	◆												
15	Construction	101 days	Mon 11/15/21	Mon 4/4/22	◆												

Project 00066
Tue 3/29/22

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

SQUIRE POPE CARRIAGE HOSUE
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Timeline
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: Tue 3/29/22

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

WHARF STREET LIGHTING

ID	Task Name	Duration	Start	Finish	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	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
1	WARF STREET LIGHTING	552 days	Mon 7/5/21	Tue 8/15/23	◆—————◆																																		
2	Planning and Conceptual Design	352 days	Mon 7/5/21	Tue 11/8/22	◆—————◆																																		
12	Permitting	90 days	Wed 11/9/22	Tue 3/14/23																									◆—————◆										
14	Easements and Land Acquisition	160 days	Wed 11/9/22	Tue 6/20/23																									◆—————◆										
17	Construction	200 days	Wed 11/9/22	Tue 8/15/23																									◆—————◆										

Project: 00068
Date: Tue 3/29/22

Milestone	◆	Project Duration	◆—————◆	Permitting	◆—————◆	Construction	◆—————◆
Critical Task	★	Planning and Conceptual Design	◆—————◆	Easements and Land Acquisition	◆—————◆		
Task	█	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	◆		

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 4
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 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
Date: Wed 2/23/22

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 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	◆		

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	

Beaufort County Public Works' Stormwater Utility
Stormwater Utility
FY 2021 Actuals

Revenue/Reserve Utilization

February 10, 2022

	FY 2020 Actuals	Approved Budget	FY 2021 Unaudited Actuals	Variance	
Revenue from SWU Fees	\$ 6,696,566	\$ 7,003,319	\$ 6,572,947	\$ (430,372)	\$281K - Cost-share from Municipalities \$716K - CWI Fees
Reimbursable Projects	-	-	-	-	
Interest	181,486	112,500	50,160	(62,340)	Interest on County investments allocated to SW
Gain (Loss) Sale of Capital Assets	4,929	-	3,720	3,720	
Other	10,300	11,175	16,675	5,500	Sale (Auctioned for \$4K) of 2008 Ford Crew Cab Pickup
Cost-Share for Joint Efforts	18,605	-	-	-	
Reserve Utilization					
Utility's Cash Balance		-	-	-	Permits
Capital Improvement Fund	-	2,794,262	-	(2,794,262)	
Stormwater Utility	-	-	-	-	
	\$ 6,911,886	\$ 9,921,256	\$ 6,643,502	\$ (3,277,754)	

Efforts (Expenses)

	FY 2020		FY 2021	Variance	
Admin	\$ 305,187	\$ 575,550	\$ 227,554	\$ (347,996)	\$18,462 - Legal services for delinquent fees \$3,899 - depreciation
Regulation					Professional Services
UA/Control Reg	506,282	872,789	465,521	(407,268)	\$45,965 - MS4 Consulting Services \$2K - MS4 Permit \$28,355 - Depreciation
UA/WQ Monitoring	120,000	120,000	120,000	-	\$120K - USCB Lab
UA/Public Information/Outreach	90,000	95,000	90,000	(5,000)	\$90K - Carolina Clear
<i>Utility Activities Subtotal</i>	<i>716,282</i>	<i>1,087,789</i>	<i>675,521</i>	<i>(412,268)</i>	
Utility Activities					\$188,193 - Interest Expense Non-Professional Services
UA/Annual Maintenance	3,478,510	4,782,884	2,669,974	(2,112,910)	\$42K - Pappy Landing Rd Emergency erosion repair \$3K - Freeport Rd pipe replacement \$21K - Wallace Rd sidewalk replacement & asphalt installation \$12K - Tree removal services
UA/Drainage Enhancement	-	10,000	-	(10,000)	
UA/Additional Studies	25,605	-	3,571	3,571	
<i>Utility Activities Subtotal</i>	<i>3,504,115</i>	<i>4,792,884</i>	<i>2,673,545</i>	<i>(2,119,339)</i>	
Reserve Utilization					
Capital Improvement Fund					Professional Services
Brewer Memorial Demo Pond	10,760	600,000	6,336	(593,664)	\$3,571 - Bluffton Flyover
Factory Creek Phase I	307	327	2,750	2,423	Design services
Factory Creek Phase II	-	20,550	-	(20,550)	Asbuilt
Salt Creek South	36,098	248,496	33,977	(214,519)	Design services
Shanklin Road	70,356	341,820	11,252	(330,568)	Design services
Evergreen	32,726	840,000	105,088	(734,912)	\$19K - Design service \$86K - Construction
Camp St. Mary	-	342,000	-	(342,000)	
Mossy Oaks	15,404	205,000	205,000	-	
Shell Point	43,750	-	54,750	54,750	Cost-share with City of Beaufort for design and construction
Graves/Pepper Hall	-	500,000	375,731	(124,269)	Drainage study
Rock Springs Creek	-	43,052	-	(43,052)	Cost-share development agreement - Phase I
<i>Reserve Utilization Subtotal</i>	<i>209,401</i>	<i>3,141,245</i>	<i>794,885</i>	<i>(2,346,360)</i>	
Capital Improvement Fund					Expenses including the purchase of capital assets and capital improvement projects totaled \$4.7M, leaving a surplus of \$1.936M.
Surplus (Deficit)	2,087,732	-	1,936,638	1,936,638	
Utility Operating Fund					
Capital Assets New Purchases	89,168	323,788	335,358	11,570	
Efforts Total	\$ 6,911,886	\$ 9,921,256	\$ 6,643,502	\$ (3,277,754)	50250011 \$330K - (2) Dump Trucks \$6K - GPS monitoring equip



MEMORANDUM

Date: April 6, 2022

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

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

Minor or Routine Projects:

- **Vine Street and Myrtle Street – Bluffton (4):** This project improved 1,587 linear feet of drainage system. The scope of work included cleaning out 1,487 linear feet of roadside ditch, (3) catch basins, jetting (3) crossline pipes, (11) driveway pipes, 8 linear feet of channel pipe and 92 linear feet of roadside pipe. The total cost was **\$7,660.44**.
- **St Helena Island Tree Removal – St Helena Island (8):** The scope of work included removing a fallen tree from a roadside ditch. The total cost was **\$888.16**.
- **Sheldon Bush Hog – Sheldon (5):** This project improved 65,678 linear feet of drainage system. The scope of work included bush hogging 65,178 linear feet of channel and 500 linear feet of roadside ditch. The total cost was **\$35,304.58**.
- **St Helena Bush Hog – St Helena Island (8):** This project improved 132,086 linear feet of drainage system. The scope of work included bush hogging 99,251 linear feet of channel and 32,835 linear feet of roadside ditch. The total cost was **\$91,677.02**.
- **Lady's Island Airport Bush Hog – Lady's Island (7):** This project improved 16,328 linear feet of drainage system. The scope of work included bush hogging 16,328 linear feet of channel. The total cost was **\$8,509.78**.
- **Hilton Head Island Airport Bush Hog – Hilton Head Island (3):** This project improved 9,750 linear feet of drainage system. The scope of work included bush hogging 8,250 linear feet of channel and 1,500 linear feet of roadside ditch. The total cost was **\$8,281.99**.

Major Projects:

- **Southern Magnolia Subdivision – Lady's Island (7):** This project improved 9,552 linear feet of drainage system. The scope of work included cleaning out 9,552 linear feet of roadside ditch, jetting (12) crossline pipes and (105) driveway pipes., Hydroseeded for erosion control. The total cost was **\$94,831.09**.



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Vine Street and Myrtle Street

Activity: Routine/Preventive Maintenance

Duration: 08/26/2021 - 09/29/2021

Narrative Description of Project:

Project improved 1,587 L.F. of drainage system. Cleaned out 1,487 L.F. of roadside ditch. Cleaned out (3) catch basins. Jetted (3) crossline pipes, (11) driveway pipes, 8 L.F. of channel pipe and 92 L.F. of roadside pipe.

2022-506/Vine Street and Myrtle Street	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$31.17	\$0.00	\$0.00	\$0.00	\$19.24	\$50.41
CLPJT / Crossline Pipe - Jetted	16.00	\$522.55	\$306.56	\$92.24	\$0.00	\$322.56	\$1,243.91
DPJT / Driveway Pipe - Jetted	16.00	\$522.55	\$306.56	\$92.56	\$0.00	\$322.56	\$1,244.23
HAUL / Hauling	48.00	\$1,402.60	\$609.92	\$206.69	\$0.00	\$636.48	\$2,855.69
RSDCL / Roadside Ditch - Cleanout	40.00	\$1,311.03	\$262.83	\$170.90	\$0.00	\$483.52	\$2,228.28
UTLOC / Utility locates	1.00	\$24.70	\$0.00	\$0.00	\$0.00	\$13.23	\$37.93
Grand Total	122.00	\$3,814.59	\$1,485.87	\$562.39	\$0.00	\$1,797.59	\$7,660.44

(Before)



(During)



(After)





Project: Vine Street and Myrtle Street Map #1

Activity: Routine/ Preventive Maintenance














Project #: 2022-506

Township/SW Dist: Bluffton/4

Completed: September 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 55 110 220 330 440
 Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/22/22

File: C:\project summaries map\Vine Street and Mrtle Street_2022-506



Project: Vine Street and Myrtle Street Map# 2

Activity: Routine/ Preventive Maintenance

Project #: 2022-506

Township/SW Dist: Bluffton/4

Completed: September 2021

0 12.525 50 75 100 Feet

1 inch = 83 feet

Prepared By: BC Stormwater Management Utility
 Date Print: 02/02/22
 File: C:\project summaries map\Vine St Map#1_2022-506



Project: Vine Street
and Myrtle Street
Map #3

Activity: Routine/
Preventive
Maintenance

Project #:
2022-506

Township/SW Dist:
Bluffton/4

Completed:
September 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 15 30 60 90 120
Feet

1 inch = 100 feet

Prepared By: BC Stormwater Management Utility
Date Print: 02/02/22
File: C:\project summaries map\Vine St Map#2_2022-506



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: St. Helena Island Tree Removal - Sea Pines Drive

Activity: Routine/Preventive Maintenance

Duration: 07/21/2021

Narrative Description of Project:

Removed fallen tree from roadside ditch.

2022-416/St Helena Island Tree Removal

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.50	\$15.59	\$0.00	\$0.00	\$0.00	\$9.62	\$25.21
HAUL / Hauling	4.00	\$116.52	\$76.24	\$43.52	\$0.00	\$71.92	\$308.20
RMTRD / Remove trees - Ditch	16.00	\$364.03	\$102.20	\$35.60	\$0.00	\$52.92	\$554.75
Grand Total	20.50	\$496.14	\$178.44	\$79.12	\$0.00	\$134.46	\$888.16

(No Pictures Available)



Project: St. Helena
Island Tree Removal-
Sea Pines Drive

Activity: Routine/
Preventive
Maintenance














Project #:
2022-416

Township/SW Dist:
St. Helena Island/8

Completed:
July 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 75 150 300 450 600
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 01/02/22

File: C:\project summaries map\St. Helena Island Tree Removal- Sea Pines Drive_2022-416



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sheldon Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 02/23/2021 - 05/18/2021

Narrative Description of Project:

Second Rotation: 02/23/2021 - 05/18/2021 Project improved 65,678 L.F. of drainage system. Bush hogged 65,178 L.F. of channel and 500 L.F. of roadside ditch. This project consisted of the following areas: Old Dawson Acres (4,701 L.F.), Browns Island Road (3,320 L.F.), Gum Tree Lane(3,101 L.F.), Stroup Lane (1,370 L.F.), Hunt Ter (1,460 L.F.), Middlefield Circle (2,827L.F.), Coker Lane (2,439 L.F.), Oakhurst Road (1,076 L.F.), Spann Circle (1,800 L.F.), Coakley Drive (535 L.F.), Dan Drive (640 L.F.), Honeybee Island Road (695 L.F.), Wimbee Landing Road (14,262 L.F.), Keans Neck Road (2,115 L.F.), Albany Road (380 L.F.), Jasmine Hall Road (9,624 L.F.), River Oaks Road (2,160 L.F.), Pap Kee Lane (1,125 L.F.), Seigler Road (387 L.F.), Dean Hall Road (185 L.F.), Horace Dawson Lane (7,444 L.F.), and Lightsey Road (3,602 L.F.)

2021-303A / Sheldon Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.00	\$62.34	\$0.00	\$0.00	\$0.00	\$38.48	\$100.82
CBH / Channel- bushhogged	670.50	\$14,153.40	\$7,796.80	\$1,401.73	\$0.00	\$11,851.83	\$35,203.76
Grand Total	672.50	\$14,215.74	\$7,796.80	\$1,401.73	\$0.00	\$11,890.31	\$35,304.58

Before

During

After

(No Pictures Available)

(No Pictures Available)





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: St. Helena Island Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 07/01/19-12/11/19

Narrative Description of Project:

First Rotation: 07/01/19-12/11/19 Project improved 108,945 L.F. of drainage system. Bush hogged 102,632 L.F. of channel and 6,313 of roadside ditch. This project consisted of the following areas: Scott Hill Road (5,222 L.F.), Peaches Hill Circle (13,230 L.F.), No Man Land (1,105 L.F.), Wiggfall Road (1,304 L.F.), Adam Church (242 L.F.), Toomer Road (4,055 L.F.), Tombee Road (988 L.F.), Archer Fields Lane (2,163 L.F.), Halifax Drive (7,980 L.F.), Kelis Lane (5,121 L.F.), Ann Fripp (4,564 L.F.), White Sands Circle (5,548 L.F.), Shiney Road (834 L.F.), Luther Warren Drive (767 L.F.), Ladson Road (1,550 L.F.), Tropicana Road (1,008 L.F.), Seaside Road (1,125 L.F.), Folly Road (2,515 L.F.), Simmons Road (2,433 L.F.), John Fripp Circle (843 L.F.), Nathan Pope Road (5,395 L.F.), Major Road (2,354 L.F.), Langford Road (4,102 L.F.), Cee Cee Road (1,707 L.F.), Warsaw Island Road (4,447 L.F.), Shed Road (2,135 L.F.), Patchwork Lane (856 L.F.), Olde Church Road (2,100 L.F.), JB Lane (1,557 L.F.), Gardner Drive (478 L.F.), Dulamo Road (269 L.F.), Hickory Hill Road (1,751 L.F.), James Grant Road (748 L.F.), Mattis Drive (1,691 L.F.), Bible Camp Road (3,723 L.F.), St. Helena Drop Off Center (1,927 L.F.), Sea Island Parkway (1,772 L.F.), Polowana Road (3,426 L.F.), Ball Park Road (1,809 L.F.), Penn Center Road (1,828 L.F.), Ernest Drive (803 L.F.) and Queen Road (1,470 L.F.).

2020-300 / St. Helena Island Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	2.5	\$54.48	\$0.00	\$0.00	\$0.00	\$0.00	\$54.48
CBH / Channel- bushhogged	1,178.0	\$25,810.23	\$13,687.81	\$2,750.18	\$0.00	\$16,401.42	\$58,649.64
HAUL / Hauling	13.0	\$298.87	\$519.60	\$133.98	\$0.00	\$0.00	\$952.45
RDBH / Roadside ditch - bushhogged	12.0	\$267.42	\$126.63	\$40.99	\$0.00	\$172.08	\$607.12
2020-300 / St. Helena Island Bush Hog Sub Total	1,205.5	\$26,431.00	\$14,334.04	\$2,925.15	\$0.00	\$16,573.50	\$60,263.68
Grand Total	1,205.5	\$26,431.00	\$14,334.04	\$2,925.15	\$0.00	\$16,573.50	\$60,263.68

Before

During

After

(No Pictures Available)

(No Pictures Available)





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Lady's Island Airport Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 04/08/2021 - 05/19/2021

Narrative Description of Project:

First Rotation: 04/08/21 - 05/19/21. Project improved 16,328 L.F. of drainage system. Bush hogged 16,328 L.F. of channel. This project consisted of the following areas: Airport Circle (16,328 L.F.)

2021-540/ Lady's Island Airport Bush Hog	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	0.50	\$15.59	\$0.00	\$0.00	\$0.00	\$9.62	\$25.21
BUSH / Bush Hogged	32.00	\$713.12	\$257.28	\$53.96	\$0.00	\$571.84	\$1,596.20
CBH / Channel- bushhogged	120.00	\$2,693.28	\$1,686.00	\$319.41	\$0.00	\$2,189.68	\$6,888.37
Grand Total	152.50	\$3,421.99	\$1,943.28	\$373.37	\$0.00	\$2,771.14	\$8,509.78

Before

During

After

(No Pictures Available)

(No Pictures Available)





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Hilton Head Island Airport Bush Hog

Activity: Routine/Preventive Maintenance

Duration: 08/04/2021 - 08/16/2021

Narrative Description of Project:

First Rotation: 08/4/2021 - 08/16/2021. Project improved 9,750 L.F. of drainage system. Bush hogged 8,250 L.F. of channel and 1,500 L.F. around pond. This project consisted of the following areas: Hilton Head Airport (9,750 L.F.)

2022-305 / Hilton Head Island Airport

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.00	\$31.17	\$0.00	\$0.00	\$0.00	\$19.24	\$50.41
CBH / Channel- bushhogged	112.00	\$3,074.88	\$660.28	\$332.65	\$0.00	\$2,001.44	\$6,069.25
HAUL / Hauling	16.00	\$414.06	\$554.24	\$148.20	\$0.00	\$155.84	\$1,272.34
PDBH / Ponds - bushhogged	16.00	\$439.27	\$110.56	\$54.24	\$0.00	\$285.92	\$889.99
Grand Total	145.00	\$3,959.38	\$1,325.08	\$535.09	\$0.00	\$2,462.44	\$8,281.99

Before

During

After

(No Photos Available)

(No Photos Available)





Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Southern Magnolia

Stellata Lane, Grandiflora Lane, Star Magnolia Court, Star Magnolia Drive and Shine Leaf Court.

Activity: Routine/Preventive Maintenance

Duration: 05/12/2021 - 08/17/2021

Narrative Description of Project:

Project improved 9,552 L.F. of drainage system. Cleaned out 9,552 L.F. of roadside ditch. Jetted (12) crossline pipes and (105) driveway pipes. Hydroseeded for erosion control.

2021-547 / Southern Magnolia Subdivision	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
ASBUILT / Asbuilt - Project	12.00	\$359.82	\$17.40	\$22.14	\$0.00	\$79.24	\$478.60
AUDIT / Audit Project	6.50	\$202.61	\$0.00	\$0.00	\$0.00	\$125.06	\$327.67
CGRB / Channel - grubbed	56.00	\$1,139.68	\$254.69	\$112.85	\$0.00	\$528.64	\$2,035.86
CLPJT / Crossline Pipe - Jetted	83.00	\$2,155.60	\$1,432.55	\$328.75	\$0.00	\$1,222.96	\$5,139.86
DEBREM / Debris Removal - Jobsite	40.00	\$835.29	\$34.80	\$15.18	\$0.00	\$199.84	\$1,085.11
DPJT / Driveway Pipe - Jetted	341.00	\$8,577.33	\$5,180.59	\$1,252.81	\$0.00	\$4,578.56	\$19,589.30
GACA / Grubbed and Cleared	32.00	\$651.76	\$176.95	\$81.90	\$0.00	\$264.32	\$1,174.93
HAUL / Hauling	468.00	\$11,651.02	\$8,881.96	\$2,803.23	\$0.00	\$8,782.90	\$32,119.11
HYDR / Hydroseeding	52.00	\$1,257.82	\$284.02	\$1,657.86	\$0.00	\$268.36	\$3,468.06
RSDCL / Roadside Ditch - Cleanout	792.00	\$17,717.53	\$3,606.56	\$1,270.48	\$0.00	\$6,516.04	\$29,110.61
UTLOC / Utility locates	5.00	\$123.50	\$0.00	\$0.00	\$0.00	\$66.15	\$189.65
WLR / Water Line - Repair	4.00	\$89.90	\$8.70	\$13.74	\$0.00	\$0.00	\$112.34
Grand Total	1,891.50	\$44,761.86	\$19,878.22	\$7,558.94	\$0.00	\$22,632.07	\$94,831.09

Before



During



After



Project: Southern Magnolia Subdivision- Southern Magnolia Drive, Cordata Court and Star Magnolia Drive Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2021-547

Township/SW Dist: Ladys Island/7

Completed: August 2021



Legend	
Drainage Type	
Access Pipe	[Red dashed line]
Bleeder Pipe	[Purple solid line]
Channel Pipe	[Black dashed line]
Channel	[Blue solid line]
Stream	[Light blue solid line]
Crossline Pipe	[Green dashed line]
Driveway Pipe	[Black dashed line]
Lateral	[Orange solid line]
Lateral Pipe	[Orange dashed line]
River	[Dark blue solid line]
Road Pipe	[Black dashed line]
Roadside	[Green solid line]
Roadside Pipe	[Green dashed line]

0240 80120160

 Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 02/04/21

File: C:\project summaries map\Southern Magnolia S/D- Southern Magnolia Dr, Cordata Ct and Star Magnolia Dr. Map #1_2021-547



Project: Southern Magnolia Subdivision- Stellata Lane, Grandiflora Lane and Shiny Leaf Court Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2020-547

Township/SW Dist: Ladys Island/7

Completed: August 2021

Legend	
Drainage Type	
Access Pipe	Red dashed line
Bleeder Pipe	Purple solid line
Channel Pipe	Black and white dashed line
Channel	Blue solid line
Stream	Light blue solid line
Crossline Pipe	Green dashed line
Driveway Pipe	Black and white dashed line
Lateral	Orange solid line
Lateral Pipe	Black and white dashed line
River	Dark blue solid line
Road Pipe	Pink solid line
Roadside	Green solid line
Roadside Pipe	Green dashed line

0 2550 100 150 200 Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility
Date Print:03/30/21

File:C:\project summaries map\LI Valley Drains- Stellata Ln, Grandiflora Ln, and Shiny Leaf Ct Map #2_2021-313



Project: Southern Magnolia Subdivison- Stellata Lane, Grandiflora Lane, Star Magnolia Ct, Star Magnolia Drive and Shiny Leaf Court Map #3

Activity: Routine/ Preventive Maintenance

Project #: 2020-547

Township/SW Dist: Ladys Island/7

Completed: August 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 65130 260 390 520 Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility
Date Print: 02/04/21

File: C:\project summaries map\LI Valley Drains- Stellata Ln, Grandiflora Ln, and Shiny Leaf Ct Map #3_2021-313



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, June 15th, 2022 2:00 p.m.
County Council Chambers
100 Ribaut Rd., Beaufort, South Carolina
843.255.2805

1. CALL TO ORDER – 2:00p.m.

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

- A. Approval of Agenda
- B. Approval of Minutes – April 20TH, 2022 ([backup](#))

2. INTRODUCTIONS

3. PUBLIC COMMENT

4. REPORTS

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

5. UNFINISHED BUSINESS

6. NEW BUSINESS

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA

- A. Wednesday, August 17TH, 2022 ([backup](#))

9. ADJOURNMENT

