

# TOWN COUNCIL

## STAFF REPORT

### Engineering Department



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

### **CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE**

#### **PATHWAYS**

##### **1. Goethe-Shults Sidewalks Phase 2**

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

##### **2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting**

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

##### **3. Bridge Street Streetscape**

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

- **Next Steps**
  - Complete engineering design and permitting in December 2021.
  - Issue Invitation for Bid in January 2022.
  - Construction is anticipated to start in the last quarter of FY 2022.
  
- 4. Boundary Street Streetscape**
  - Surveying is complete and engineering design is underway.
  - **Next Steps**
    - Complete draft preliminary engineering design in December 2021.
  
- 5. New River Linear Trail**
  - Surveying is complete.
  - Master Planning Services Agreement has been executed.
  - **Next Steps**
    - Begin Master Plan.
    - Obtain quote for Phase 1 engineering design for Phase 1 Site Development.
    - Research grant opportunities to fund planning and construction of future trail improvements.

## **SEWER & WATER**

- 1. Buck Island-Simmons ville Sewer (Phases 5A-5D)**
  - Construction has been halted on Phases 5A-D by BJWSA due to the contractor under-performing their job duties. Engineer has started closeout phase for what has been installed to date.
  - Working with the Engineer on new construction documentation to complete the project.
  - **Next Steps**
    - Readvertise for bids to complete construction on Phase 5A-D.
    - Start house connections after the main line is approved by DHEC.
  
- 2. Historic District Sewer Extension Phase 1 - Pritchard Street**
  - Main line construction, gravity connections, and paving are complete.
  - **Next Steps**
    - Received DHEC Permit to Operate and finalize grinder pump house connections.
  
- 3. Historic District Sewer Extension Phase 2 - Bridge Street**
  - Received SCDHEC permit to construct for original scope. Researching redesign options to avoid extremely long bore.
  - Received Quit Claim Deeds from all the property owners along the ghost road.
  - **Next Steps**
    - Obtain road ownership from SCDOT.

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

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

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

### **HISTORIC DISTRICT IMPROVEMENTS**

#### **1. Boundary Street Lighting**

- Phase 2 photometric plans, encroachment permits and lighting agreements are complete and approved.
- SCDOT and Dominion indicated poles must be installed on private property due to conflicts with sewer force main and communication utilities within the ROW. Easements must now be obtained to install Phase 2 lighting.
- **Next Steps**
  - Coordinate light installation in conjunction with streetscape design.
  - Obtain easements as needed for Phase 2 street lighting.
  - Begin installation of street lighting in January 2022.

#### **2. Historic District Streetscape and Drainage Improvements**

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

#### **3. Calhoun Street Streetscape**

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

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

#### 4. **Squire Pope Carriage House Preservation**

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

### **PARK DEVELOPMENT**

#### 1. **Oyster Factory Park**

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

#### 2. **Wright Family Park**

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

#### 3. **Oscar Frazier Park**

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

#### 4. **New Riverside Barn/Park**

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

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

#### **5. May River Road Pocket Park**

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

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

#### **1. Buckwalter Place Park Restroom**

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

#### **2. Town of Bluffton Housing Projects**

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

#### **3. Law Enforcement Center Facility Improvements**

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

#### **4. Ghost Roads**

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

### **DIVISION/STAFF UPDATES**

#### **Project Management**

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

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

## Watershed Management

### **1. Sea Level Rise Task Force**

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

### **2. Joint Councils Meeting for Watershed Management Initiatives**

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

- Staff drafted a letter for the Town Manager’s review requesting Beaufort County commitment to cost-share Stoney Creek/Palmetto Bluff Rd. sewer project in the May River watershed.
  - Staff presented an update on current status at 4/20/21 Town Council Workshop.
  - Town Council sent a letter on 4/26/21 requesting Beaufort County Council consider funding in FY 2022 for sewer extension projects in the May River watershed in the County’s jurisdiction.
  - **Next Steps**
    - Town Council and BJWSA sent a letter requesting Beaufort County Council partnership in sewer extension projects within the County’s jurisdiction of the May River Watershed.
- 3. SC Department of Health and Environmental Control May River Shellfish Harvesting Monitoring Data Year-to-Date and May River Shellfish Harvesting Status Exhibit – Attachments 1 and 1a**
- 4. May River Watershed Action Plan Implementation Summary - Attachment 2**
- 5. Municipal Separate Storm Sewer System (MS4) Program Update**
- Staff is currently updating the Town’s MS4 Stormwater Management Plan and supporting documentation. SCDHEC is currently in the process of developing a revised National Pollutant Discharge and Elimination (NPDES) Permit for Small MS4s and will re-issue to permittees, including the Town, in the future.
  - Staff has requested, along with Beaufort County Government and the Town of Hilton Head, that SCDHEC adjust the MS4 annual report timeline to align with the calendar year. Staff is updating the Town’s MS4 Annual Report for submission to SCDHEC 04/01/22.
- 6. MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
- The May River Watershed Action Plan Advisory Committee is scheduled for 01/27/22. **Attachment 3**
  - Staff developed an MS4 direct mail postcard and is working to obtain cost estimates to print and mail. This effort assists the Town with meeting MS4 permit requirements.
  - Staff continues to work with the Town Digital Communication Manager to promote a series of MS4 stormwater educational tips and reminders for the Bluffton community via the Town’s Facebook page.
- 7. MS4 MCM – #3 Illicit Discharge Detection and Elimination**
- Stormwater Infrastructure Inventory Map - **Attachment 4a**
  - *E. coli* Concentrations Trend Map - **Attachment 4b**
  - Monthly, Microbial Source Tracking (MST) Maps - **Attachments 4c and 4d**
    - Town staff coordinates with the SC Department of Health and Environmental Control (SCDHEC) to pull MST samples concurrently with the state’s routine



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

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

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

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

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

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

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

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

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

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

**Attachments**

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

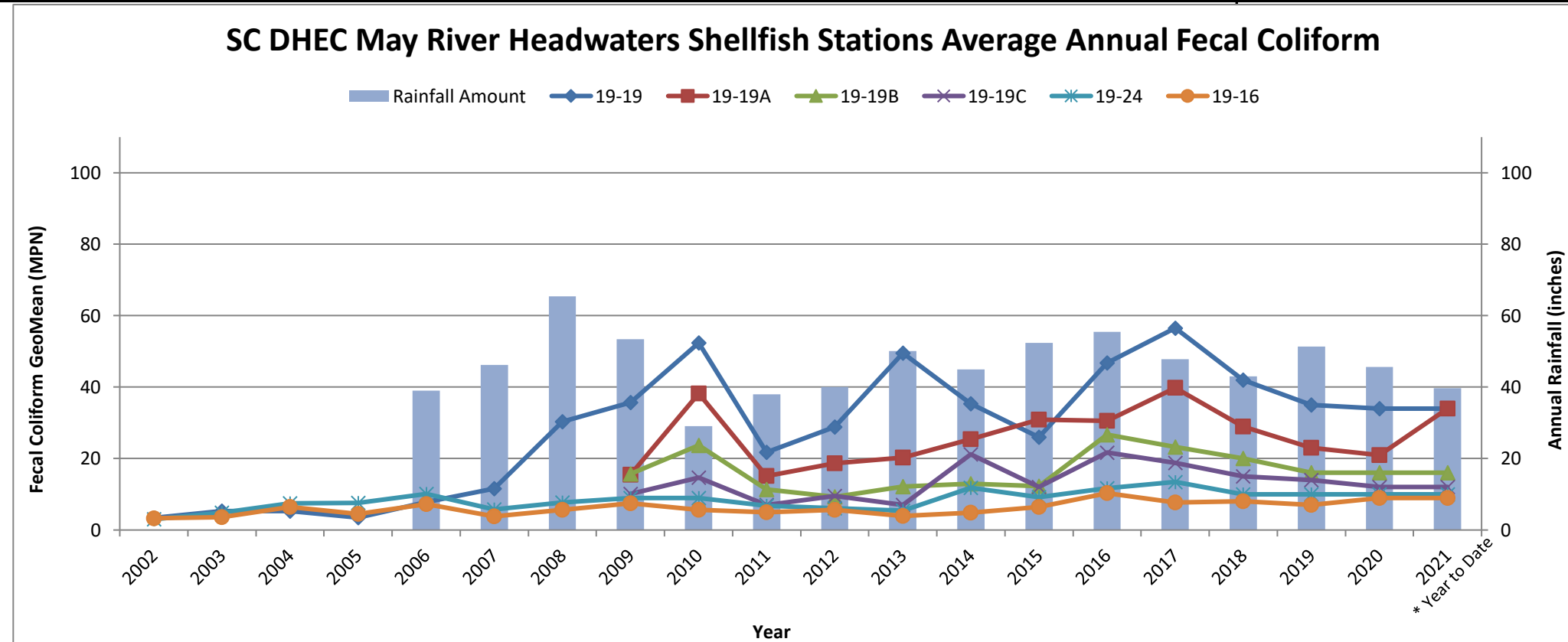
#### Committee Cancellation Notice

4. MS4 Minimum Control Measure #3 – Illicit Discharge Detection and Elimination
  - a. Stormwater Infrastructure Inventory Map
  - b. *E. coli* Concentrations Trend Map
  - c. Microbial Source Tracking Trend Map – Human Source
  - d. Microbial Source Tracking Map – All Sources
  - e. Illicit Discharge Investigations
5. MS4 Minimum Control Measure #4 – Construction Site Stormwater Runoff Control
6. MS4 Minimum Control Measure #5 – Stormwater Plan Review and Related Activity
7. Citizen Drainage, Maintenance and Inspections Concerns Map
8. Citizen Request for Watershed Management Services and Activities Map
9. CIP Project Schedules

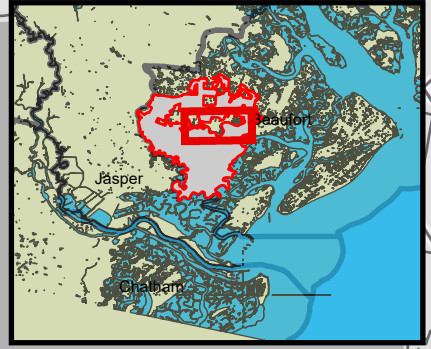
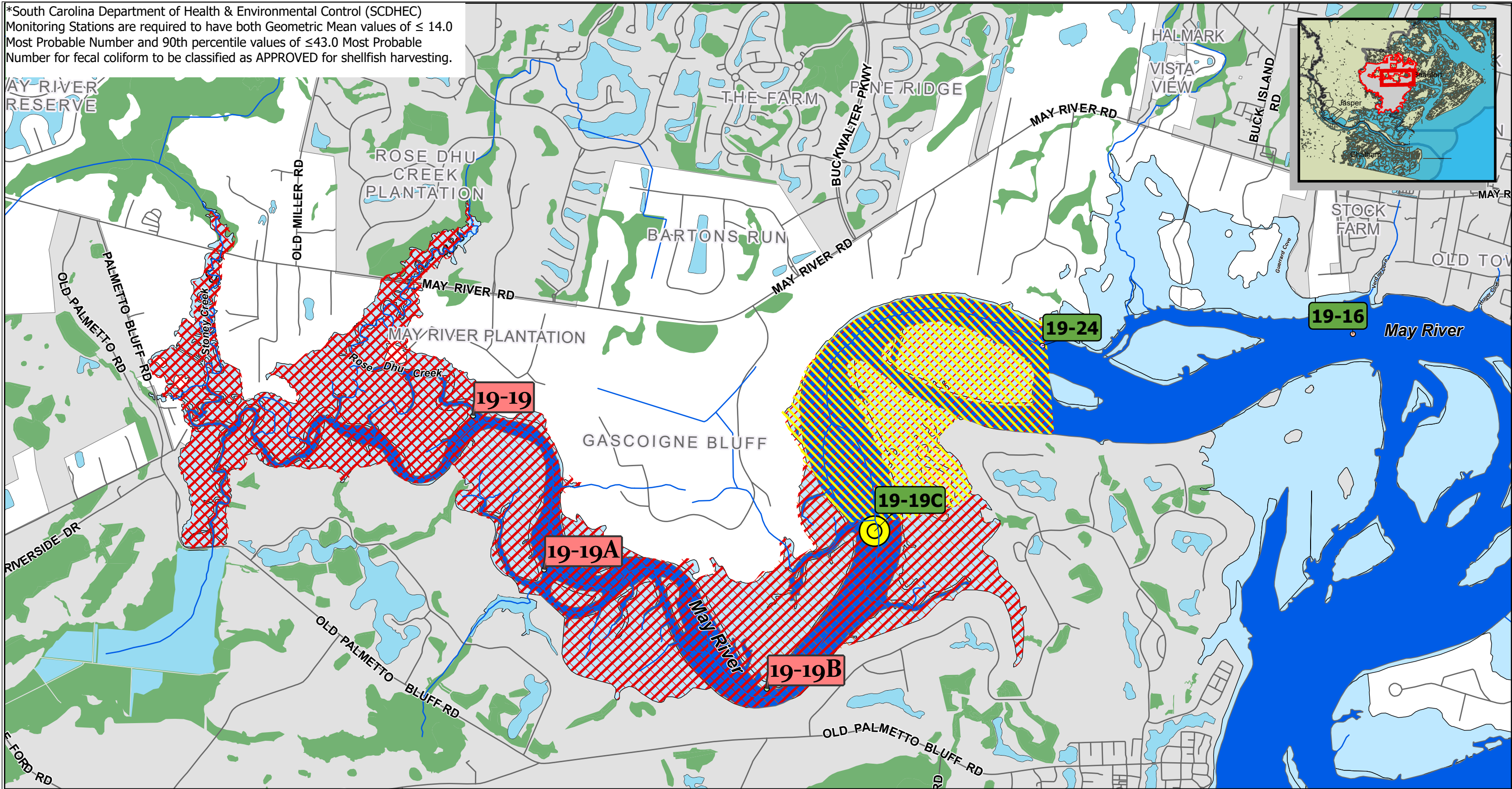
\* Attachment noted above includes the latest updates in **bold** and *italic* font.

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

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



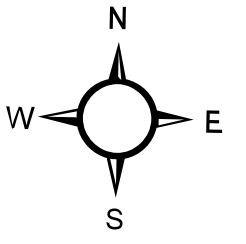
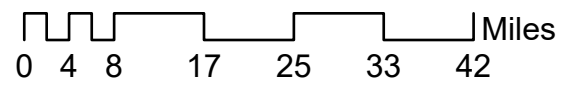
\*South Carolina Department of Health & Environmental Control (SCDHEC) Monitoring Stations are required to have both Geometric Mean values of  $\leq 14.0$  Most Probable Number and 90th percentile values of  $\leq 43.0$  Most Probable Number for fecal coliform to be classified as APPROVED for shellfish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



- |   |                     |
|---|---------------------|
| Closed SCDHEC Shellfish Monitoring Stations               | Streets             |
| Open SCDHEC Shellfish Monitoring Stations                 | Drainage            |
| SCDHEC Shellfish Monitoring Station Classification Change | Town Jurisdiction   |
| Restricted 2021/2022 Shellfish Season                     | County Jurisdiction |
| Re-Opened 2021/2022 Shellfish Season                      | Water               |
|   | 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	<b><i>Current project updates are included in Engineering Consent Agenda under "Southern Lowcountry Regional Board (SoLoCo)."</i></b>
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. <b><i>Current project updates are included in Engineering Consent Agenda under "Sewer &amp; Water."</i></b>
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. <b><i>Current project updates are included in Engineering Consent Agenda under "Sewer &amp; Water."</i></b>
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. <b><i>Current project updates are included in Engineering Consent Agenda under "Pathways."</i></b>
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. <b><i>Current updates are included in Engineering Consent Agenda and Attachment 3.</i></b>
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. <b><i>Current updates are included in Engineering Consent Agenda Attachment 4a.</i></b>

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 <b><i>Current updates are included in Engineering Consent Agenda Attachments 1, 1a, 4b - 4d.</i></b>
Illicit Discharge Detection & Elimination (IDDE) Program (MS4 Minimum Control Measure #3)	Response to reported and observed non-stormwater discharges to the stormwater drainage system. <b><i>Current updates are included in Engineering Consent Agenda Attachment 4e.</i></b>
Construction Site Stormwater Runoff Control Program (MS4 Minimum Control Measure #4)	Sediment and erosion control inspections with escalating enforcement response. <b><i>Current updates are included in Engineering Consent Agenda Attachment 5.</i></b>
Stormwater Plan Review & Related Activity Program (MS4 Minimum Control Measure #5)	SCDHEC delegated plan review-related activities. <b><i>Current updates are included in Engineering Consent Agenda Attachment 6.</i></b>
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. <b><i>Current updates are included in Engineering Consent Agenda Attachment 7.</i></b>
Neighborhood Assistance Program - Septic System Maintenance Program	On-going assistance offered to Town residents regardless of financial status through Neighborhood Assistance Program (NAP). <b><i>Current updates are provided in Growth Management Consent Agenda.</i></b>



## May River Watershed Action Plan Advisory Committee Meeting

Monday, January 24, 2022 at 9:00 AM

Council Chambers

### AGENDA

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

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*“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.”*

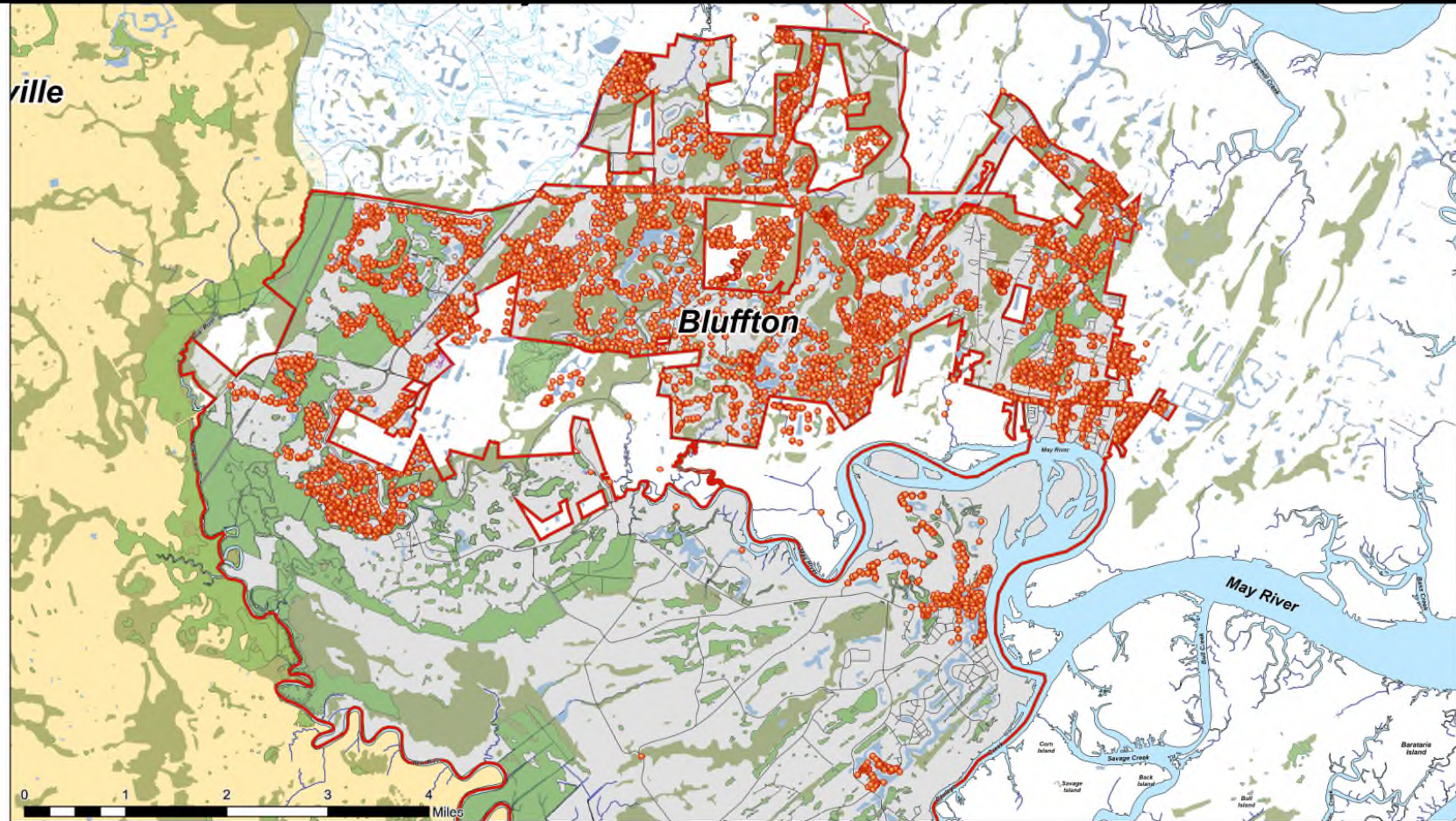
*In accordance with the requirements of Title II of the Americans with Disabilities Act of 1990 ("ADA"), the Town of Bluffton will not discriminate against qualified individuals with disabilities on the basis of disability in its services, programs, or activities. The Town of Bluffton Council Chambers are ADA*

*compatible. Any person requiring further accommodation should contact the Town of Bluffton ADA Coordinator at 843.706.4500 or [adacoordinator@townofbluffton.com](mailto:adacoordinator@townofbluffton.com) as soon as possible but no later than 48 hours before the scheduled event.*

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



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



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

**Town of Bluffton**  
Beaufort County, SC

## STORMWATER INFRASTRUCTURE

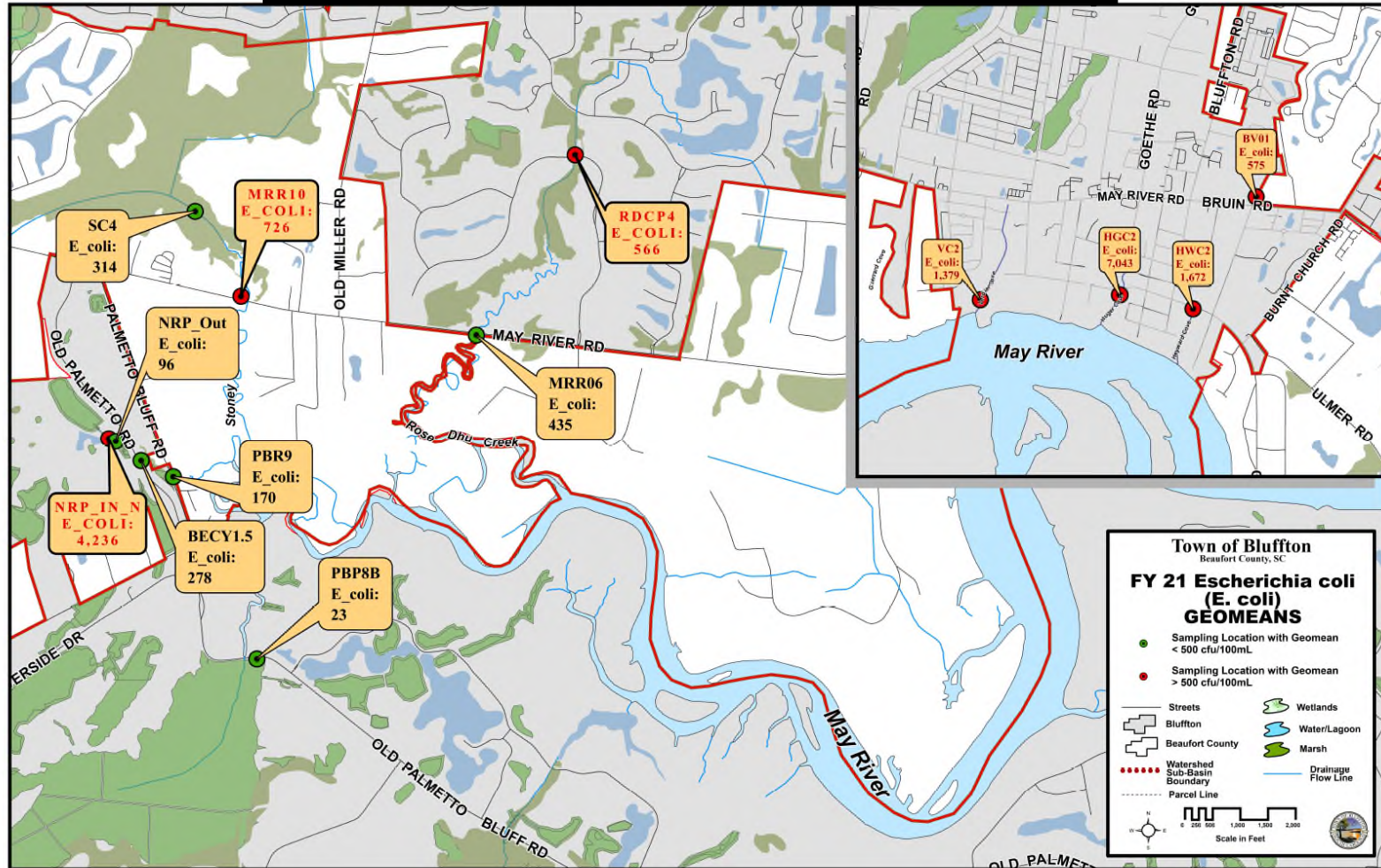
DISCLAIMER: This map was prepared using data provided by the Town of Bluffton and other sources. The Town of Bluffton is not responsible for any errors or omissions in this map. The map is for informational purposes only and should not be used for legal or financial decisions.




Updated Date: 12/20/2021

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

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

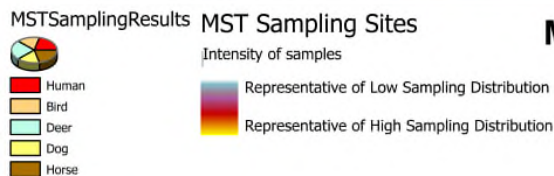
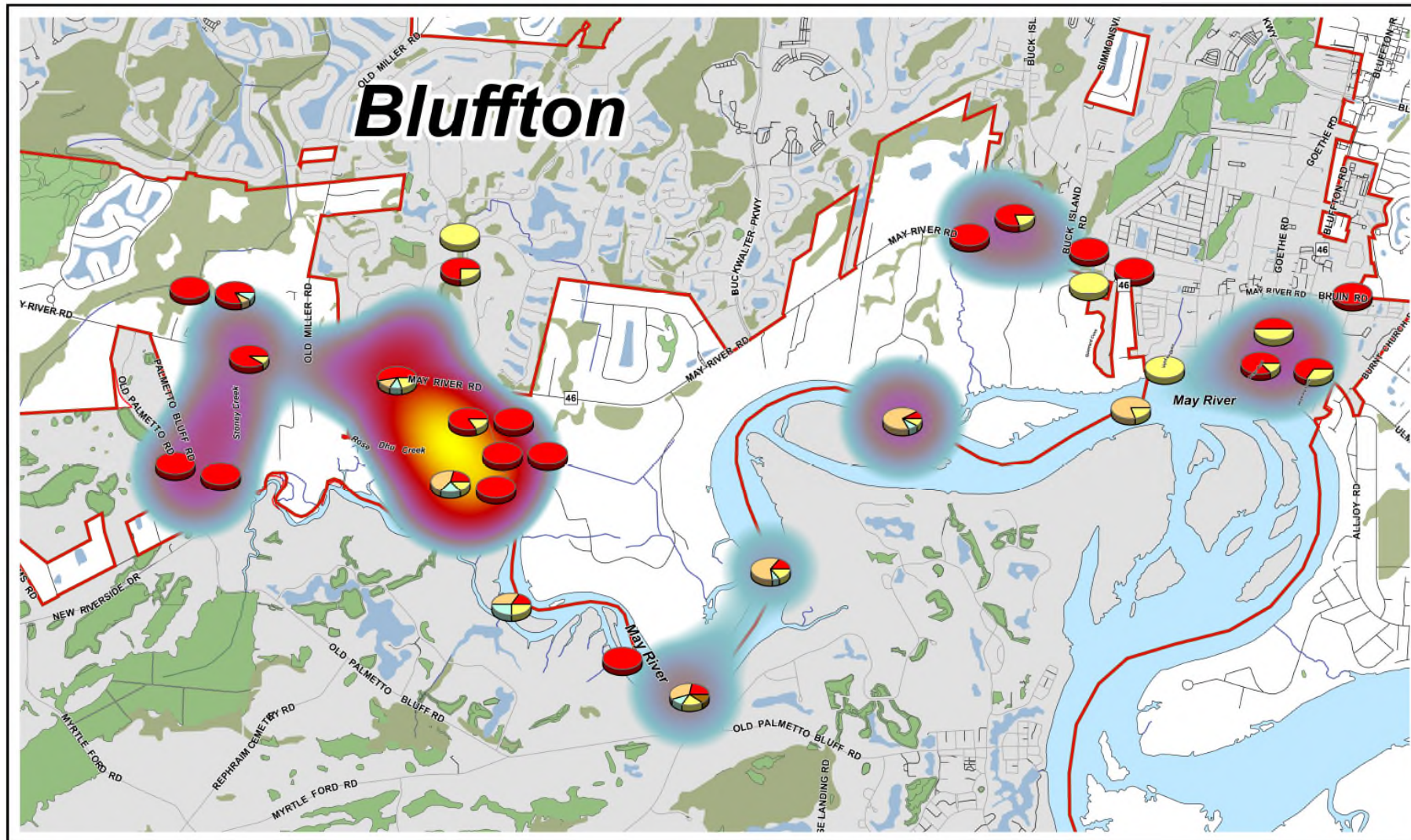


	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2022 YTD Totals	152	32	74
FY 2021 Totals	380	115	179
FY 2020 Totals	223	115	123
FY 2019 Totals	280	193	264

12/27/2021

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

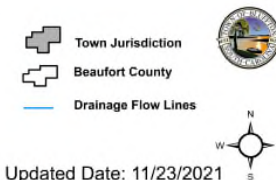
# MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Trend Map



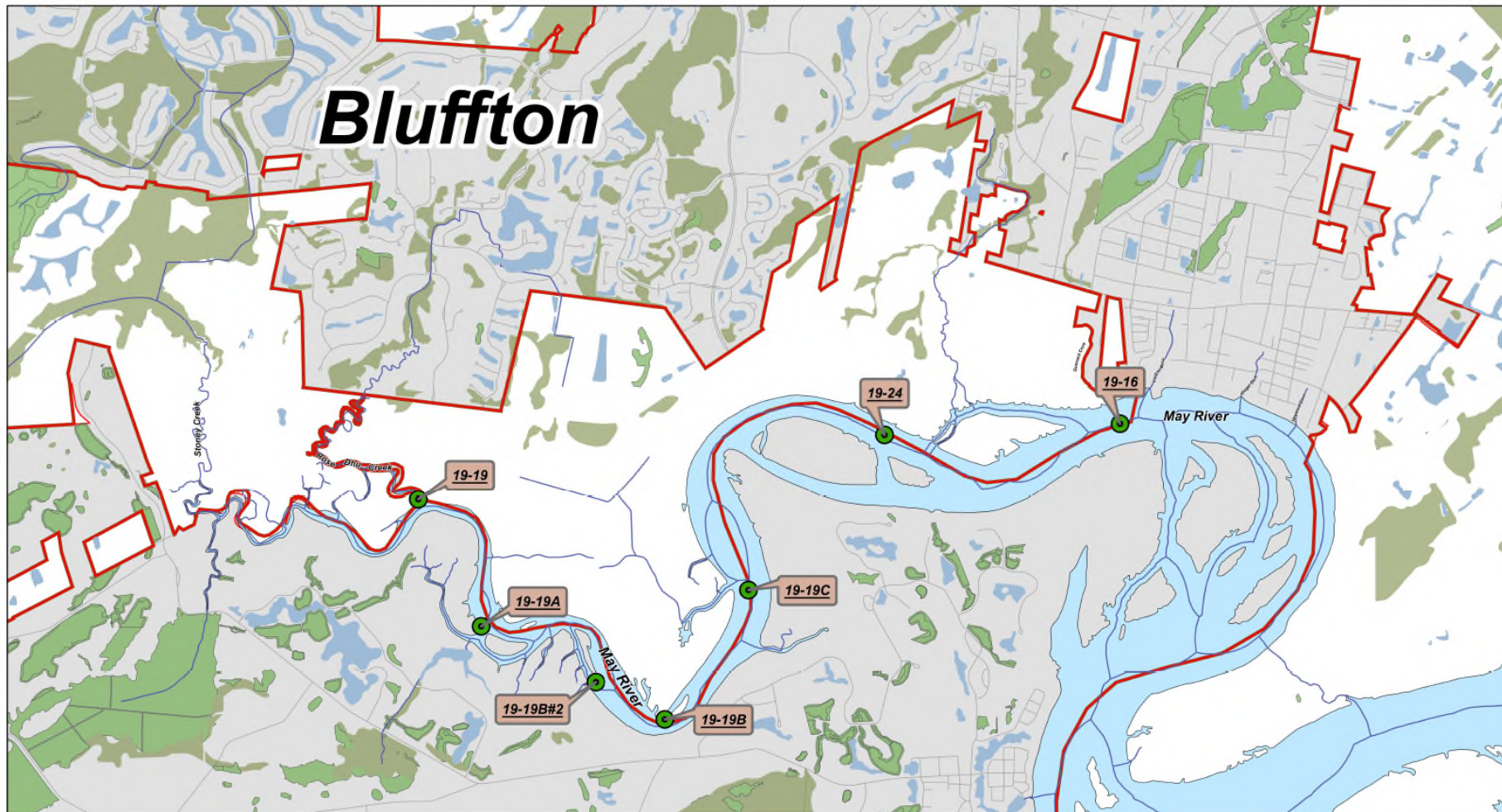
## MICROBIAL SOURCE TRACKING (MST) LOCATIONS

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

Town of Bluffton  
Beaufort County, SC



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

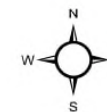


- MST Sampling Location Without Detection
- MST Sampling Location With Detection
- Flowline
- Street
- + Town Jurisdiction
- + County Jurisdiction

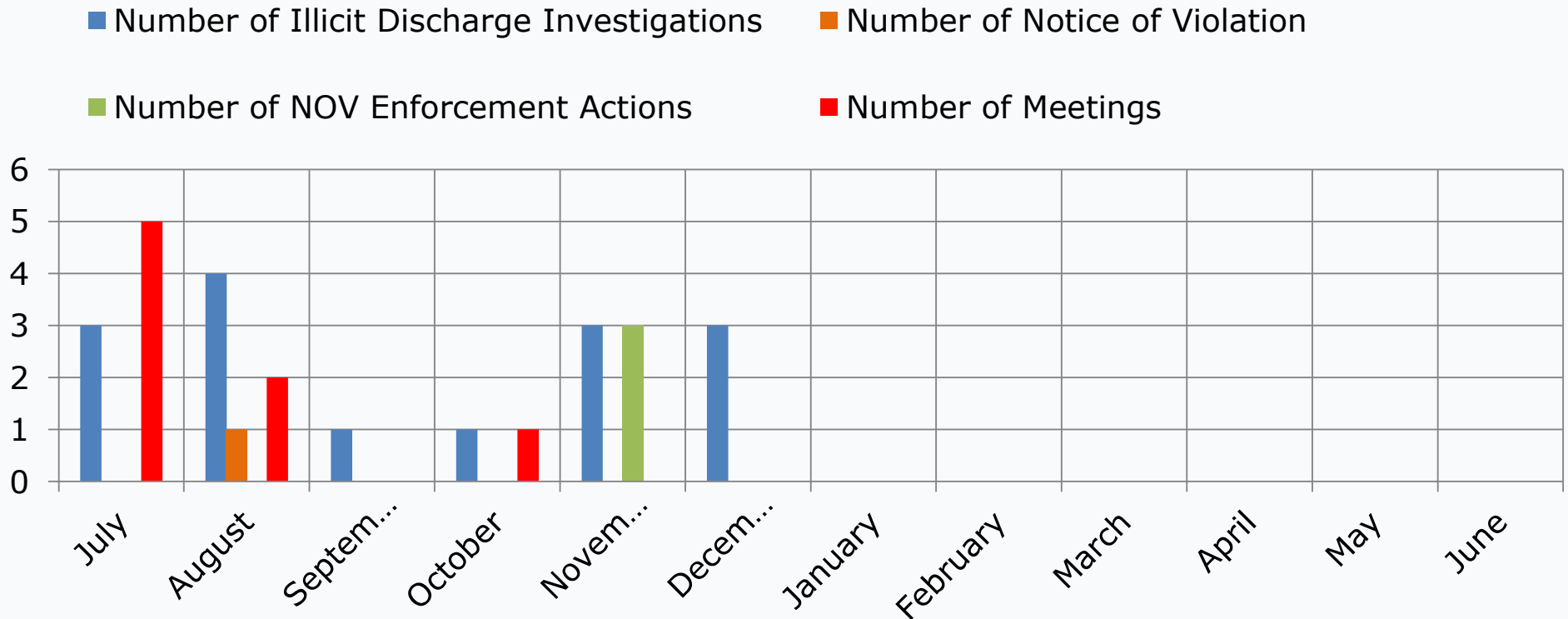
## MICROBIAL SOURCE TRACKING LOCATIONS

Sampling Results November 2021

Town of Bluffton  
Beaufort County, SC

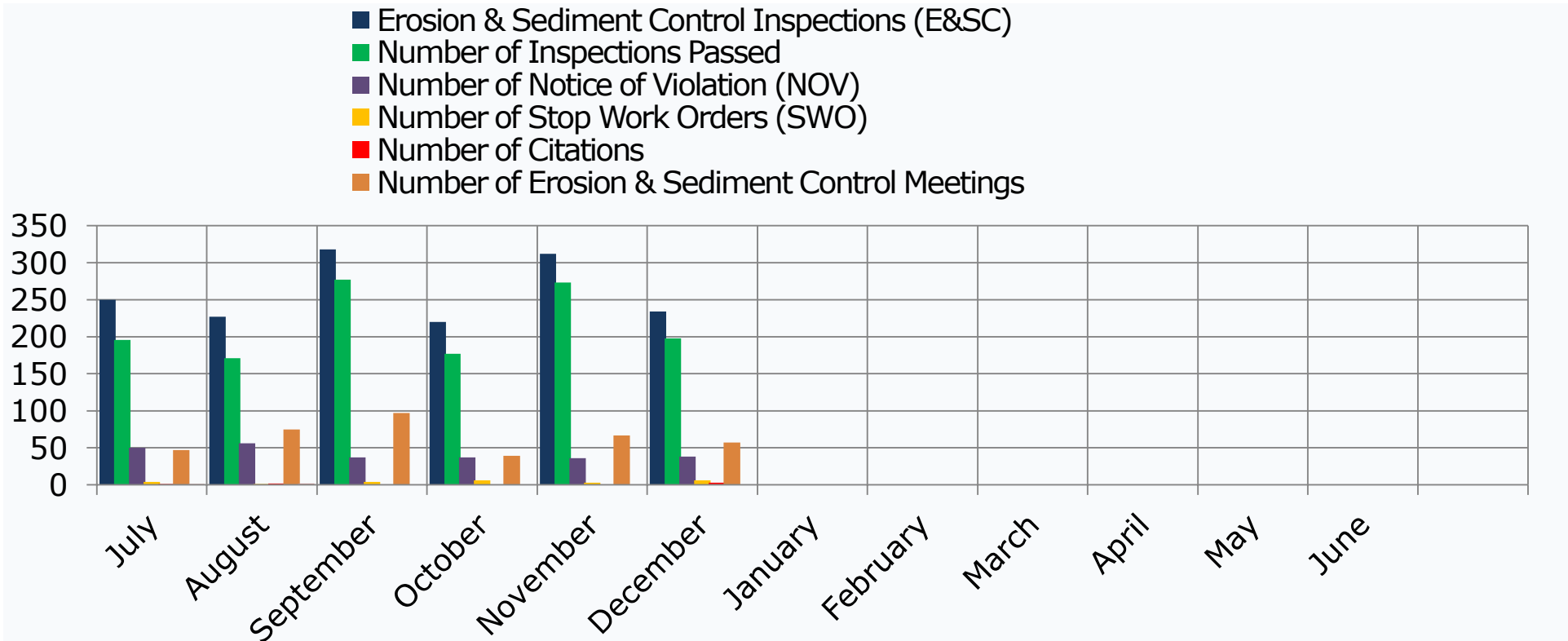


## MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



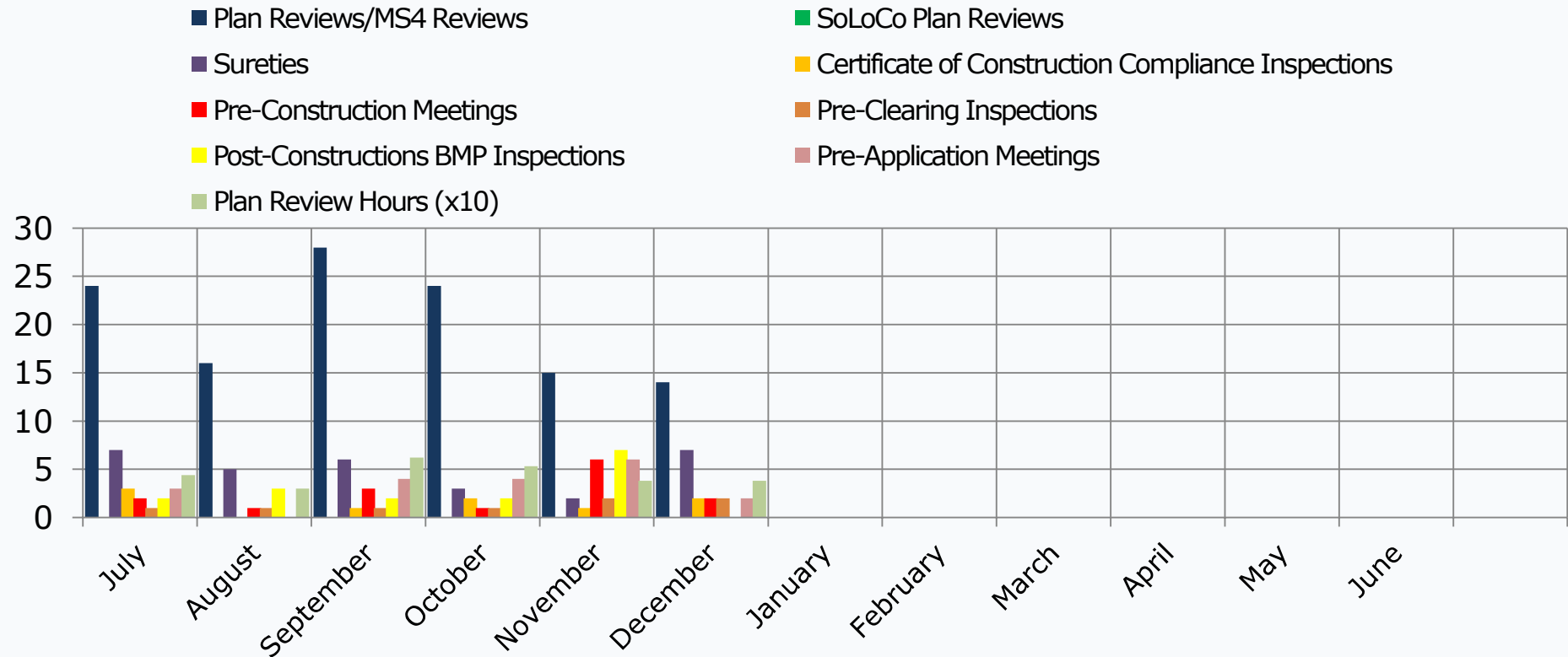
	Number of Illicit Discharge Investigations	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2022 YTD Totals	12	1	3	8
FY 2021 Totals	36	11	1	29
FY 2020 Totals	45	8	6	49
FY 2019 Totals	38	3	1	61

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



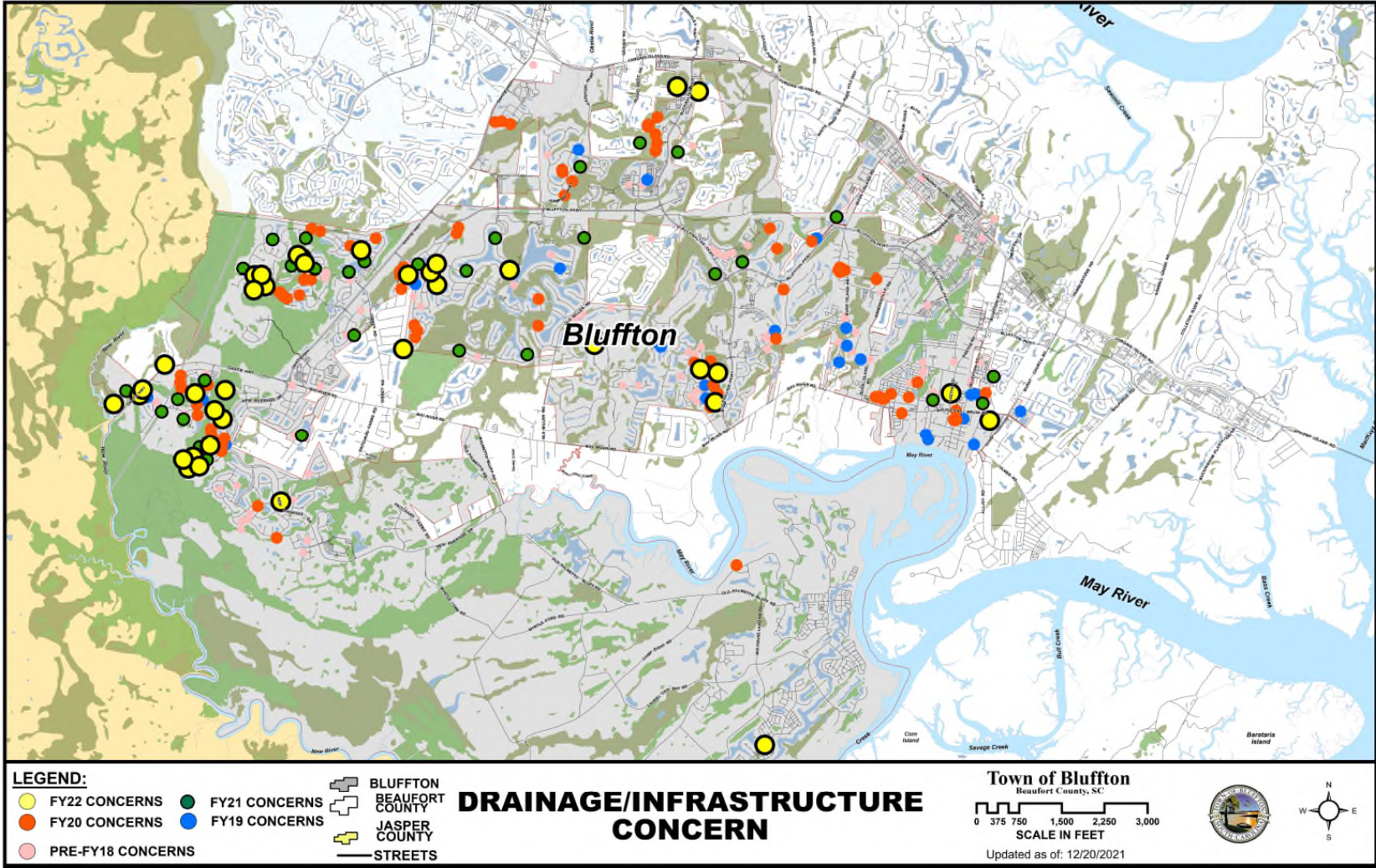
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NOV's Issued	Number of SWO Issued	Number of Citations	Number of E&SC Meetings
FY 2022 YTD Totals	1,561	1,292	254	30	6	382
FY 2021 Totals	1,805	1,527	267	32	4	413
FY 2020 Totals	1,517	1,187	185	16	9	496

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



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

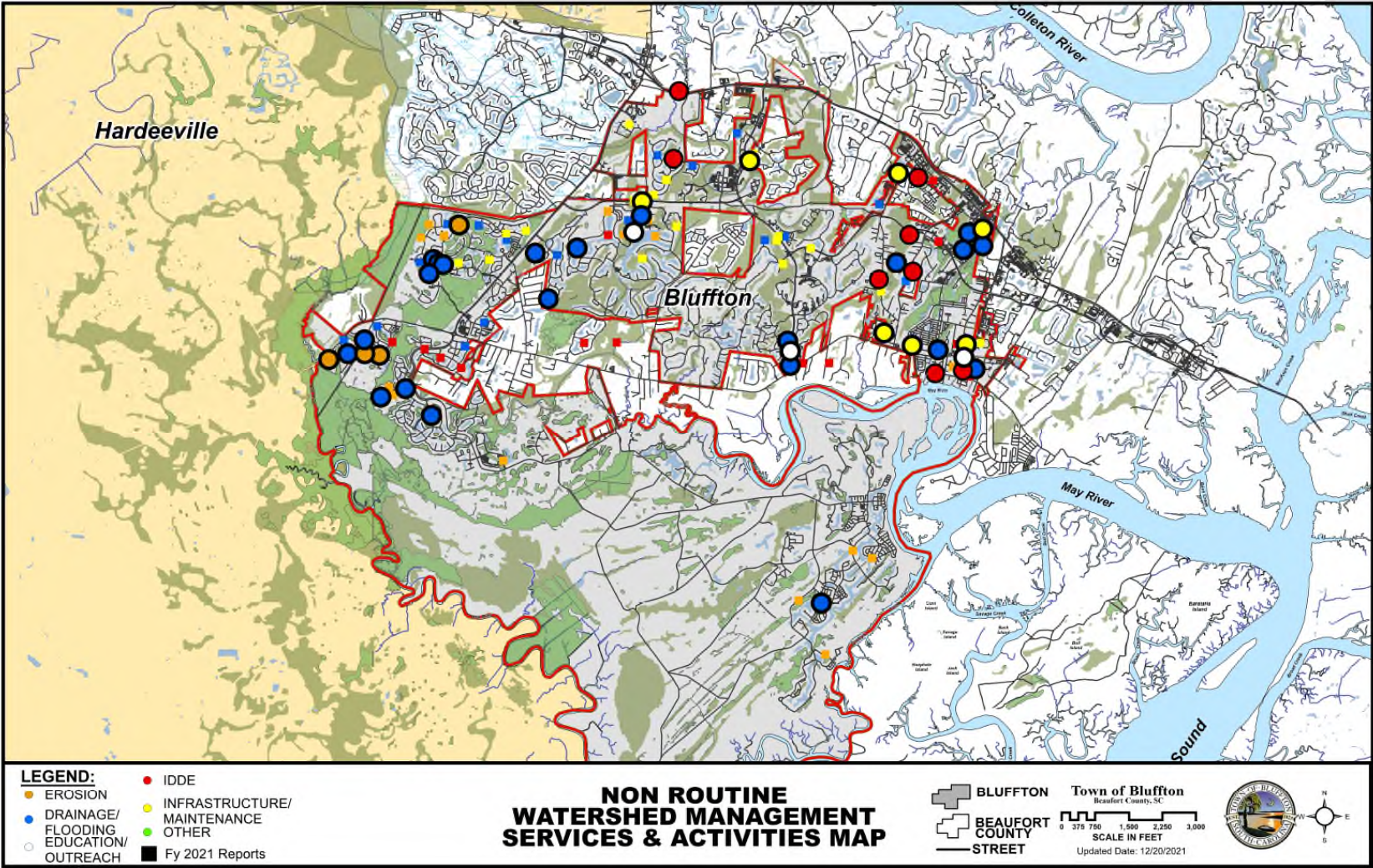
# Citizen Drainage, Maintenance and Inspections Concerns Map



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



Citizen Request for Watershed Mngt. Services & Activities Map



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

BOUNDARY STREET STREETScape  
PROPOSED SCHEDULE

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

Project: 00094  
Date: Wed 1/27/21

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

HISTORIC DISTRICT STREETScape AND DRAINAGE IMPROVEMENTS  
PROPOSED SCHEDULE

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

Project: 00050  
Date: Fri 12/17/21

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

BUCK ISLAND-SIMMONSVILLE NEIGHBORHOOD SIDEWALKS  
PROPOSED SCHEDULE

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

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

MAY RIVER ROAD POCKET PARK  
PROPOSED SCHEDULE

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

Project: 00080  
Date: Fri 12/3/21

Milestone Task   
Critical Task Project Duration

Planning and Conceptual Design Permitting Easements and Land Acquisitions   
 Final Design and Construction Documents Bidding and Contract Construction

GHOST ROADS  
PROPOSED SCHEDULE

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

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

PARK IMPROVEMENTS  
PROPOSED SCHEDULE

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

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

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 6  
PROPOSED SCHEDULE

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

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



HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 5  
PROPOSED SCHEDULE

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

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

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4  
PROPOSED SCHEDULE

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

Project: 00073 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 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	<b>PHASE 3</b>	<b>534 days</b>	<b>Mon 11/2/20</b>	<b>Thu 11/17/22</b>	◆																													
2	<b>Planning and Conceptual Design</b>	<b>236 days</b>	<b>Mon 11/2/20</b>	<b>Mon 9/27/21</b>	◆																													
9	<b>Final Design and Construction Documents</b>	<b>120 days</b>	<b>Tue 9/28/21</b>	<b>Mon 3/14/22</b>	◆																													
11	<b>Permitting</b>	<b>40 days</b>	<b>Tue 3/15/22</b>	<b>Mon 5/9/22</b>	◆																													
14	<b>Easements and Land Acquisition</b>	<b>105 days</b>	<b>Tue 9/21/21</b>	<b>Mon 2/14/22</b>	◆																													
17	<b>Bidding and Contracts</b>	<b>46 days</b>	<b>Tue 5/10/22</b>	<b>Tue 7/12/22</b>	◆																													
22	<b>Construction</b>	<b>92 days</b>	<b>Wed 7/13/22</b>	<b>Thu 11/17/22</b>	◆																													

Project: 00072  
Date: Wed 11/24/21

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

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 2  
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Predecessors	Timeline																																																																
						Half 2, 2018	Half 1, 2019	Half 2, 2019	Half 1, 2020	Half 2, 2020	Half 1, 2021	Half 2, 2021	Half 1, 2022	Half 2, 2022																																																								
						J	J	A	S	O	N	D	J	F	M	A	M	J	J	J	A	S	O	N	D	J	F	M	A	M	J	J	J	A	S	O	N	D	J	F	M	A	M	J	J	J	A	S	O	N	D	J	F	M	A	M	J	J	J	A	S	O	N	D	J	F	M	A	M	J
1	<b>PHASE 2</b>	<b>1024 days</b>	<b>Mon 7/2/18</b>	<b>Thu 6/2/22</b>		◆																																																																
2	<b>Planning and Conceptual Design</b>	<b>185 days</b>	<b>Mon 7/2/18</b>	<b>Fri 3/15/19</b>		◆																																																																
10	<b>Final Design and Construction Documents</b>	<b>20 days</b>	<b>Mon 3/18/19</b>	<b>Fri 4/12/19</b>		◆																																																																
12	<b>Permitting</b>	<b>55 days</b>	<b>Mon 4/15/19</b>	<b>Fri 6/28/19</b>		◆																																																																
15	<b>Easements and Land Acquisition</b>	<b>550 days</b>	<b>Mon 7/1/19</b>	<b>Fri 8/6/21</b>		◆																																																																
17	<b>Bidding and Contracts</b>	<b>137 days</b>	<b>Mon 8/9/21</b>	<b>Tue 2/15/22</b>		◆																																																																
22	<b>Construction</b>	<b>77 days</b>	<b>Wed 2/16/22</b>	<b>Thu 6/2/22</b>		◆																																																																

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



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

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

Project: 00044 Date: Wed 11/24/21	Milestone Critical Task	◆ ★	Task Project Duration	◆ ◆	Planning and Conceptual Design Final Design and Construction Documents	◆ ◆	Permitting Bidding and Contract	◆ ◆	Easements and Land Acquisitions Construction	◆ ◆
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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	<b>BOUNDARY STREET LIGHTING PHASE 2</b>	<b>683 days</b>	<b>Mon 7/8/19</b>	<b>Wed 2/16/22</b>	◆																																
2	<b>Planning and Conceptual Design</b>	<b>661 days</b>	<b>Mon 7/8/19</b>	<b>Mon 1/17/22</b>	◆																																
13	<b>Permitting</b>	<b>90 days</b>	<b>Mon 1/20/20</b>	<b>Fri 5/22/20</b>	◆																																
15	<b>Easements and Land Acquisition</b>	<b>164 days</b>	<b>Tue 6/1/21</b>	<b>Fri 1/14/22</b>	◆																																
18	<b>Construction</b>	<b>118 days</b>	<b>Mon 9/6/21</b>	<b>Wed 2/16/22</b>	◆																																

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	◆		





SQUIRE POPE CARRIAGE HOSUE  
PROPOSED SCHEDULE

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

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

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

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

Project: 00055  
Date: Fri 10/22/21

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

BRIDGE STREET STREETScape  
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020												2021												2022								
					A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A
1	<b>BRIDGE STREET STREETScape</b>	<b>681 days</b>	<b>Mon 9/2/19</b>	<b>Mon 4/11/22</b>	◆																																
2	<b>Planning and Conceptual Design</b>	<b>233 days</b>	<b>Mon 9/2/19</b>	<b>Wed 7/22/20</b>	◆																																
17	<b>Final Design</b>	<b>338 days</b>	<b>Wed 7/22/20</b>	<b>Fri 11/5/21</b>													◆																				
23	<b>Permitting</b>	<b>155 days</b>	<b>Mon 5/3/21</b>	<b>Fri 12/3/21</b>																									◆								
28	<b>Easements and Land Acquisition</b>	<b>200 days</b>	<b>Mon 4/19/21</b>	<b>Fri 1/21/22</b>																									◆								
35	<b>Bidding</b>	<b>71 days</b>	<b>Mon 1/3/22</b>	<b>Mon 4/11/22</b>																									◆								

Project: 00082	Milestone ◆	Project Duration ◆	Permitting ◆	Construction ◆
Date: Fri 10/22/21	Critical Task ★	Planning and Conceptual Design ◆	Easements and Land Acquisition ◆	
	Task ■	Final Design and Construction Documents ◆	Bidding and Contracts ◆	

NEW RIVERSIDE PARK/BARN SITE  
PROPOSED SCHEDULE

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

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

**BUCKWALTER PLACE PARKING IMPROVEMENTS  
PROPOSED SCHEDULE**

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

Project: 00098  
Date: Thu 10/21/21

Milestone  
Critical Task  
Task



Project Duration  
Planning and Conceptual Design  
Final Design and Construction Documents



Permitting  
Easements and Land Acquisition  
Bidding and Contracts



Construction



Historic District Streetscape and Drainage  
Proposed Schedule

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

Project: 00050 HD Streetscape Date: Wed 10/20/21	Task		Project Summary		Manual Task		Start-only		Deadline		Progress
	Split		Inactive Task		Duration-only		Finish-only		Manual Progress		External Milestone
	Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress		External Milestone
	Summary		Inactive Summary		Manual Summary		External Milestone		Manual Progress		External Milestone

OSCAR FRAZIER PARK  
PROPOSED SCHEDULE

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

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



NEW RIVER TRAIL  
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	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	<b>NEW RIVER TRAIL</b>	287 days	Mon 7/5/21	Tue 8/9/22	◆—————◆													
2	<b>Planning</b>	121 days	Mon 7/5/21	Mon 12/20/21	◆—————◆													
14	<b>Final Planning and Construction Documents</b>	80 days	Mon 1/3/22	Fri 4/22/22	◆—————◆													
24	<b>Permitting</b>	40 days	Mon 3/14/22	Fri 5/6/22	◆—————◆													
29	<b>Bidding and Contracts</b>	72 days	Mon 5/2/22	Tue 8/9/22	◆—————◆													

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

WHARF STREET LIGHTING  
PROPOSED SCHEDULE

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

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