



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, June 9th, 2021
2:00 p.m.
Cypress Wetlands
Port Royal, South Carolina
843.255.2805

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

1. CALL TO ORDER – 2:00 p.m.
 - A. Approval of Agenda
 - B. Approval of Minutes – March 10th, 2021 ([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 – Katie Herrera ([backup](#))
 - E. Upcoming Professional Contracts Report – Katie Herrera ([backup](#))
 - F. Regional Coordination – Katie Herrera ([backup](#))
 - G. Municipal Reports – Katie Herrera ([backup](#))
 - H. MS4 Update – Katie Herrera ([backup](#))
 - I. Maintenance Projects Report – Matthew Rausch ([backup](#))
 - J. Liaison Report
5. UNFINISHED BUSINESS
6. NEW BUSINESS
 - A. Cypress Wetlands Presentation
 - B. Shell Point Drainage Study Presentation ([backup](#))
 - C. Budget Amendments – Katie Herrera ([backup](#))
 - D. SWUB Meeting Schedule – Katie Herrera ([backup](#))
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. Wednesday, September 8th, 2021 ([backup](#))
9. ADJOURNMENT





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

March 10, 2021 at 2:00 p.m.

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

Board Members

Present

Allyn Schneider
James Clark
Marc Feinberg
Patrick Mitchell
Steven Andrews
Brian Watkins

Absent

Ex-Officio Members

Present

Absent

Nate Farrow
Van Willis
Kim Jones

Beaufort County Staff

Tiffany Patrick
Katie Herrera
Carolyn Wallace

Visitors

Ellen Sturup Comeau, Clemson Extension
Jeff Netzinger, Town of Hilton Head
Alice Howard, County Council
Bryan Durrance

1. Meeting called to order – Marc Feinberg at 2:00 pm

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

2. Introductions – Completed.

3. Public Comment(s) – None.

4. Reports

Reports attached in agenda

Highlights:

A. Utility Update – Katie Herrera

- ✓ Southern Lowcountry Regional Board (SoLoCo)
 - All project milestones have been reached and the design manual has been completed. Design standards were implemented February 1, 2021.
- ✓ A request was received from Mr. Andrews to present on the Battery Creek watershed and bacteria levels. Katie will present on that at the June board meeting.

- ✓ DHEC will be present at the September meeting to present their annual report summary.
- ✓ The county continues to work on delinquent accounts for the military installations. This is still being handled by the county's legal department.
- ✓ 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.
 - **Beaufort County** – Waiting on annual financial report, anticipating completion in April.
 - **Town of Hilton Head Island – Received.**
 - **Town of Bluffton – Received.**
 - Town of Port Royal – Not received.
 - City of Beaufort – Not received

B. Monitoring Update – Katie Herrera

Highlights:

- ✓ Drainage studies for Pepper Hall began.
- ✓ Okatie West Pond Bold and Gold testing results have been unsuccessful due to low bacteria.
- ✓ Port Royal redevelopment and Cypress Wetlands testing continues.

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

Highlights:

- ✓ The annual report memo as well as the management fee memo was submitted to the municipalities. They have until April 1, 2021 to provide concurrence letters.

D. Stormwater Related Projects – Katie Herrera

Highlights:

- ✓ County staff continues to work on getting easements and meets monthly to review.
- ✓ The flyover bridge permitting and updating of new cost estimates has been completed. Beaufort County will be using the list of contractors under \$15,000 to complete the work.
- ✓ Shell Point Community – County staff will meet with Cranston Engineering on March 12, 2021 to extend the contract until May 31, 2021. The extended contract ensures all project milestones have been completed and the participation of Cranston Engineering in public hearings and meetings.
- ✓ Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park Subdivision – Construction is complete and ready for close out. Andrews Engineering is scheduled to complete the as-built by the end of March.
- ✓ Factory Creek Watershed Regional Detention Basin “Phase II – Construction has been completed and will only require an easement acquisition.

- ✓ Graves Property – Staff is meeting with developers and owners on a bi-monthly basis to make sure all departments within the county are fully aware of the steps still needed to be taken. Beaufort County has issued the first payment for \$375,000 based on the development agreement requirement to pay 50% of stormwater infrastructure and drainage costs that the developer incurs.
- ✓ Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – The committee is working behind the scenes with the Charleston group and Community Development Director, Mr. Rod Merchant to finalize the plan.

E. Professional Contracts Report – Katie Herrera

Highlights:

- ✓ Salt Creek and Shanklin Road – All necessary permits have been obtained. Beaufort County is still working with DOT. The county is not getting community feedback. After Quarter One of Fiscal Year 2022, if there is no interest by property owners to participate in regional BMPs, they will be taken off the CIP list. The next step is to get the land acquisition lawyer involved to ensure that people are not interested in this project and then move forward.
- ✓ Brewer Memorial – Conditional final SRT approval has been received. The Beaufort County Open Land Trust has approved the plans as designed and the County is awaiting final SRT approval.
- ✓ Evergreen Regional Pond 319 – The final contract has been sent to CBG Incorporated for their signature and then the project can proceed.
- ✓ Stormwater engineering consulting services – Woolpert conducted in house training in February for Beaufort County employees and The Town of Bluffton, The Town of Hilton Head Island, The City of Beaufort and the Town of Port Royal staff. Woolpert completed a review of the TMDL that is to be written for Capers Creek.

F. Regional Coordination – Katie Herrera

Highlights:

- ✓ Mossy Oaks Task Force – Completion of construction is rapidly coming to an end for both phases of the project. The engineering analysis has demonstrated that the previous drainage system within that system was not constructed taking the entire area into consideration, this has now been corrected with the new plan. The final project close out is anticipated by late April or early May 2021. The project has been on schedule and on budget.

G. Municipal Reports – Katie Herrera

Reports attached in agenda

Highlights:

Reports information.

- ✓ Brian Eber, Town of Hilton Head Island MS4 Coordinator, Bill Bower, Town of Bluffton, and Katie Herrera met mid-February to discuss efforts with MS4 compliance.

- ✓ Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager)
 - Reports Received
 - Major capital improvements were completed last year overhauling the Jarvis Creek pump station. This fall the same will begin with the Lawton pump station in Sea Pines.
 - Application was submitted for the work on these pump stations with the Municipal Association of South Carolina in the Public Works category. The Town of Hilton Head Island was selected as the winner for that award.
- ✓ Town of Bluffton (From Kim Jones, Watershed Management Division Director)
 - Reports Received – attached to the minutes
- ✓ City of Beaufort (From Nate Farrow, Public Works Director)
 - No information was available at the time of this report.
- ✓ Town of Port Royal (From Van Willis, Town Manager)
 - No information was available at the time of this report.

H. MS4 Update – Katie Herrera

Highlights:

- ✓ Permits, permit issuance, plan reviews and inspections have not subsided. The County had over 700 inspections last month.
- ✓ Rainfall Report – Beaufort County received quite a bit of rain but is not seeing an influx of drainage issues.
- ✓ Katie Herrera will be filming with the County Channel at Okatie West Pond to talk about the MS4 program and the history of the EPA and Clean Water Act.
- ✓ MS4 Statewide General Permit – Paul Quattlebaum has left DHEC; Beaufort County is anticipating delays on MS4 permits until his position is filled. The statewide general permit for construction was effective as of March 1, 2021. Anything less than one acre is going to receive automatic coverage for the NOI. Construction activities related to public emergency will not require permits to be in place prior to the work being started, they will have 30 days to let the state know that work has begun.
- ✓ Education Report - Ellen Sturup Comeau, Clemson Extension
 - Upcoming webinar, Keeping Ponds Healthy with Proactive Management will be held on March 31, 2021. The Clemson Extension water resources team is bringing back the Being a Neighbor for Clean Water webinars. More information can be found on the Facebook page.
 - The first ever rain barrel sale is in the works for this summer.
 - In person events are still limited at this time.

I. Maintenance Projects Report – Katie Herrera

Highlights:

- ✓ One major project:
 - Buckwalter Parkway – Bluffton (SWUD 4): \$19,934.85
- ✓ Six minor or routine projects:
 - Lady’s Island Bush Hog – Lady’s Island (SWUD 7): \$19,837.48
 - St. Helena Island Vacuum Truck – St. Helena Island (SWUD 8): \$14,738.62
 - Roseida Road – Port Royal Island (SWUD 9): \$4,064.64
 - Chisholm Hill Road Channel #1 – Port Royal Island (SWUD 6): \$3,912.98
 - Bluffton Bush Hog – Bluffton (SWUD 4): \$3,646.15
 - Brickyard Point Road N – Lady’s Island (SWUD 7): \$1,980.68

J. Liaison Report – Beaufort County Council - Alice Howard

Highlights:

- ✓ The mayors of The City of Beaufort and the Town of Port Royal have both written letters regarding their opposition to collecting stormwater fees from the military.

5. New Business –

- ✓ Katie Herrera acknowledged Carolyn Wallace’s exemplary work on this year’s Stormwater budget.
- ✓ The budget summary was sent to the board on March 1, 2021. One question was received from Alice Howard regarding the stormwater engineering study of the Shell Point area and whether or not that was included in a category underneath the budget. Results from that study are still pending, once received a task force will be created to oversee that the correct participants are included and that the correct improvements are being funded. It will then be included in the budget. The board has concerns with the tardiness of the reports from Cranston Engineering. Katie stated that it has been noted by Beaufort County as well.
- ✓ FY22 Budget Summary Report –
Report attached in agenda
 - The budget has been entered into the financial system and will be going to County Council for review beginning in April 2021.
 - Work is being done to update the MOUs and MOAs within municipalities.
 - Mr. Feinberg noted that it was anticipated last year that the budget would be \$500,000 and it is now up to \$750,000 for next year. The Stormwater budget has to absorb the increase. Katie responded that the increase for next year is due to the work on the roads and infrastructure that is going for final permitting at this time, the bulk of the infrastructure construction is expected to be completed in FY22.
 - Mr. Feinberg requested a presentation by the legal team tasked with the military delinquency fees.

6. Public Comment(s) – None

7. Next Meeting Agenda –

- ✓ Mr. Feinberg requested to move meetings to bi-monthly. Katie responded that Boards and Commissions would need to be consulted to make certain that FOIA requirements are being followed. The current schedule was created and approved by the board in November 2020 based upon important milestones throughout the year. A board packet is provided monthly to keep board members abreast of all information.
- ✓ Mr. Watkins motioned to set the meetings to bi-monthly. The motion failed by vote.
- ✓ Mr. Mitchell motioned that the next meeting will be as scheduled June 9, 2021 and at that time the board will revisit the schedule to make it bi-monthly if necessary. Motioned passed unanimously.
- ✓ Mr. Schneider motioned that the Stormwater Utility Board recommend that Beaufort County Council approve the budget as presented. Motion passed unanimously.
- ✓ Mr. Feinberg would like to add to the June agenda to have Beaufort County's legal personnel present to the board regarding the military's delinquent accounts.
- ✓ Mr. Feinberg would like a report from Dr. Montie added to the June agenda.
- ✓ Mr. Schneider moved to approve an amended June agenda with the two additions.
- ✓ Mr. Clark requested a Shell Point presentation be added to the June agenda.
- ✓ Mr. Mitchell amended his motion to: the next meeting will be as scheduled June 9, 2021 with the three amended discussions to be added to the agenda. Motion passed unanimously.
- ✓ Amended agenda approved by vote.

8. Meeting Adjourned

TOWN COUNCIL

STAFF REPORT

Engineering Department



MEETING DATE:	March 9, 2021
SUBJECT:	Engineering Department Monthly Report
PROJECT MANAGER:	Bryan McIlwee, Director of Engineering

CAPITAL IMPROVEMENTS PROGRAM (CIP) AND SPECIAL PROJECTS UPDATE

PATHWAYS

1. Goethe-Shults Sidewalks Phase 2

- Construction documents and easements are complete.
- Invitation for Bids were posted on 1/8/2021
- **Next Steps**
 - Obtain bids on 2/15/2021.
 - Submit contract for approval at the March Town Council meeting.

2. Buck Island-Simmons ville Neighborhood Sidewalks and Lighting

- Phase 5 Kitty Road to 301 Buck Island Road, construction is complete. Design of street lighting is underway.
- Phase 6A along Simmons ville Road from Grayco northward to Sugaree Drive is under design and permit review. Invitation to bid to be posted in February.
- Phase 6B along Simmons ville Road from Sugaree Drive northward to the existing New Mustang Road sidewalks is under design.
- **Next Steps**
 - Phase 5 from Kitty Road to lot 310 Buck Island Road inspection and permit closeout.
 - Submit Phase 5 street lighting for an SCDOT encroachment permit. Install street lighting in the second quarter of 2021.
 - Phase 6 design and construction of the remaining Simmons ville Road sidewalks, to be completed in FY 2021-2022.

3. Bridge Street Streetscape

- Construction documents and permitting are underway for Phase 1 streetscape, Burnt Church Road to Calhoun Street. 70% construction drawings are complete and Staff provided plan comments to Cranston Engineering.

- SCDHEC 319 grant application was awarded for \$179,700 for drainage and water quality improvements.
 - **Next Steps**
 - Complete engineering design in February 2021.
 - Execute contract with Cranston Engineering to complete design modifications and reporting related to the 319 Grant.
 - Prepare easement plats, appraisals, obtain easements and issue bid documents in FY 2021.
 - Construction to start in FY 2022.
- 4. Boundary Street Streetscape**
- Obtained contract approval for engineering services with Thomas and Hutton.
 - Project kick off meeting on 1/28/21
 - **Next Steps**
 - Begin Preliminary Engineering Design in February 2021.
- 5. New Riverside Linear Trail**
- **Next Steps**
 - Begin surveying and prepare a Conceptual Master Plan in FY 2022, pending budget approval.
 - Research grant opportunities to fund planning and construction of future trail improvements.

SEWER & WATER

- 1. Buck Island-Simmons ville Sewer (Phases 5A-5D)**
- Construction is underway on Phase 5A-D.
 - **Next Steps**
 - Complete construction on Phase 5A-D by 7/1/21 contingent upon no extensive weather delays or unforeseen utility conflicts.
 - Start house connections after the main line is approved by DHEC.
- 2. Historic District Sewer Extension Phase 1 - Pritchard Street**
- Construction has started.
 - **Next Steps**
 - Start house connections after the main line is approved by DHEC.
- 3. Historic District Sewer Extension Phase 2 - Bridge Street**
- Received SCDHEC permit to construct.
 - Continue negotiations with property owners for right of entry agreements.

- **Next Steps**
 - Obtain road ownership from SCDOT.
 - Advertise for bids.

- 4. Historic District Sewer Extension Phase 3 – Colcock Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.

- 5. Historic District Sewer Extension Phase 4 – Lawrence Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.

- 6. Historic District Sewer Extension Phase 5 – Green Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.

- 7. Historic District Sewer Extension Phase 6 – Water Street**
 - Started surveying and design.
 - **Next Steps**
 - Review design drawings.

HISTORIC DISTRICT IMPROVEMENTS

- 1. Boundary Street Lighting**
 - Phase 2 photometric plans complete.
 - Received encroachment permit from SCDOT.
 - Lighting agreements approved by Town Council in May 2020.
 - Agreement has been executed by both parties.
 - Dominion Energy is negotiating modifications to SCDOT encroachment permits.
 - SCDOT and Dominion indicated poles must be installed on Private Property due to conflicts with Sewer Force Main along Boundary Street
 - **Next Steps**
 - Obtain easements as needed for Phase 2 street lighting.
 - Begin installation of street lighting in March 2021.

- 2. Historic District Enhancements**
 - Watershed Management Staff is evaluating preliminary plans to prepare drainage solutions at AME Church.
 - Traffic calming guidelines and plan are being negotiated with engineering consultant.

- **Next Steps**
 - ADA ramps and crosswalks are being mapped in Cartegraph by GIS/IT.
 - Continue planning of crosswalks and ADA improvements.
 - Complete Traffic Calming Assessment and Plan.

- 3. Calhoun Street Streetscape**
 - Conceptual Master Planning is complete and reviewed at the July Quarterly Workshop.
 - Obtained contract approval for Engineering services at the January 2021 Town Council meeting
 - Project Kick-off meeting on 1/28/2021.
 - **Next Steps**
 - Begin Engineering design in February 2021.

- 4. Squire Pope Carriage House Preservation**
 - Construction Documents are complete and submitted to SHPO for a courtesy review.
 - **Next Steps**
 - Finalize any modifications to the Construction Documents and prepare bid solicitation package.
 - Awaiting budget approval for future construction.
 - Coordinate design of “Coming Soon” sign.

PARK DEVELOPMENT

- 1. Oyster Factory Park**
 - Conceptual Master Plan has been updated and reviewed by Town Council at the January Quarterly Workshop.
 - **Next Steps**
 - Obtain ACOE and DHEC Permit for installation of salvaged dock components from Calhoun Street.
 - Begin final design of next phase of improvements per Town Council direction provided at the Workshop.

- 2. 68 Boundary Street Park Renovations**
 - Construction and maintenance contracts complete.
 - **Next Steps**
 - Fabricate Martin Family dedication sign prior to 4/8/2021 park dedication.

- 3. Calhoun Street Dock and Public Riverfront Access Improvements**
 - Dock construction is complete.
 - **Next Steps**
 - Complete installation of Dock signage.

4. Wright Family Park

- Bulkhead, boardwalk, restroom building, perimeter sidewalks, landscaping and parking area are complete.
- Site signage, and furniture are 99% complete.
- **Next Steps**
 - Coordinate Ribbon Cutting Ceremony as pandemic allows.
 - Additional benches are on reorder and will be installed in February 2021.
 - Prepare change order to add a sidewalk connection from park to the hammerhead/dock.

5. Oscar Frazier Park

- **Next Step**
 - Sidewalk construction complete.
 - Continue planning of future improvements in FY 2022.

6. New Riverside Barn/Park

- Submitted grant application to LWCF for \$500,000.00 funding of the initial phase of the project. Application is under review by NPS and Staff expects to hear response in the Spring of 2021.
- Archeological Report complete as needed for Grant eligibility.
- Obtained Town Council approval of the Conceptual Master Plan at the December 2020 Council meeting.
- Obtained Proposals from Thomas and Hutton for Phase 1 Engineering design.
- **Next Steps**
 - Hart Howerton to complete Design Development drawings for Phase 1 site development and schematic design of barn improvements.
 - Complete construction drawings, cost estimating and permitting of Phase 1 development by July 2021.
 - Phase 1 bidding and construction anticipated to begin in FY 2022.

TOWN FACILITIES AND MISCELLANEOUS PLANNING**1. Buckwalter Place Multi-County Commerce Park**

- Buckwalter Place Park and Veterans Memorial are complete. Additional work was approved to modify irrigation system conversion from irrigation pond to BJWSA system.
- Executed contracts for Buckwalter Park restroom design with Thomas and Hutton and Pearce Scott Architects.
- Site planning for future development parcel underway with Cranston Engineering.
- Prepared estimate of probable construction cost and appraisal for future development site.

- **Next Steps**
 - Complete irrigation conversion at Park by January 2021.
 - Review progress plans for restroom building and utility extensions at Buckwalter Park.
 - Continue site planning for future development parcel.
- 2. Town of Bluffton Housing Project**
- Surveying and geotechnical services complete for 1095 May River Road and 115 Bluffton Road sites.
 - **Next Steps**
 - Planning and design to begin in FY 2021 as directed by Joint Venture Agreement.
 - Assist with the preparation of a comprehensive cost estimate for planning, design and construction for the various housing projects.
- 3. Law Enforcement Center Facility Improvements**
- Parking and Service Yard Expansion construction began in December 2020 with CBG Siteworks Construction.
 - Interior paint of Substation complete.
 - **Next Steps**
 - Continue construction of LEC service yard and parking improvements. Construction anticipated to be complete by the July 2021.
 - Information Technology department coordinating upgrades to building security systems.
- 4. Ghost Roads**
- Surveying and easement exhibits are complete.
 - Pritchard Street Quit Claim Deed exhibits are 95% complete.
 - The Town Attorney is working with Bridge Street property owners to obtain Quit Claim Deeds and agreement to extend service to homes.
 - Staff is meeting with individual property owners to raise awareness of the acquisition efforts and communicate next steps.
 - **Next Steps**
 - Continue meeting with individual property owners and obtaining quit claim deeds.
- 5. Community Safety Cameras**
- Cameras have been installed at Bluffton Road Public Parking Lot, Veterans Park, Wright Family Park, Calhoun Street Dock .
 - 14 older cameras in the network have been replaced.
 - **Next Steps**
 - Continue with camera replacements and upgrades as necessary.

6. Public Works Facility Improvements

- Finalize the plans for expanding of Public Works yard.
- Install new plumbing/ electric for the washer and dryer.
- **Next Steps**
 - Begin permitting and bid for the expansion of the yard.
 - Bid the installation of the plumbing / electric.

7. Rotary Community Center Facility Improvements

- Replace the hardwood floor in the main area.
- **Next Steps**
 - Request bids for the replacement of the new floor.

8. Watershed Management Facility Improvements

- Remove the carpet and install new flooring in the rear office space.
- **Next Steps**
 - Request quotes on completing the new flooring in the office.

DIVISION/STAFF UPDATES**Project Management**

Thirty-five (35) CIP projects are currently in progress. Don Ryan Center, Veteran Memorial, Buckwalter Park and BIS Phase 5 sidewalks, Wright Family Park and the Calhoun Street Dock have recently been completed. CIP projects including BIS Phase 5E sewer, and Pritchard Street sewer are currently under construction and nearing completion. The LEC Parking Expansion, BIS Phase 5A-D Sewer started construction in December 2020, and the Boundary Street Lighting projects is expected to start construction in March 2021. The remaining CIP projects are in the design phase and several are planned for construction in FY 2022.

Watershed Management**1. Southern Lowcountry Regional Board (SoLoCo)****a. Regional Southern Lowcountry Post Construction Stormwater Ordinance and Design Manual**

- Via concurrence of the Mayor and direction by the Town Manager, staff has participated in the SoLoCo Technical Working Group to develop a regional stormwater model ordinance and design manual and investigate the viability of a regional stormwater authority.
- Beaufort County adopted the SoLoCo Stormwater ordinance and design manual and began implementation 2/1/21.
- 2/9/21 Town Council tabled the item until 4/13/21.
- **Next Steps**
 - 4/13/21 Town Council – Public Hearing and 2nd reading.
 - Anticipated implementation date of 5/1/21.

2. 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 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.
- **Next Steps**
 - Beaufort County to present and request a recommendation from SoLoCo for regional partners to adopt.

3. 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 commit to cost-sharing sewer projects in the May River watershed.
- **Next Steps**
 - Staff to present another update on current status at 4/13/21 Town Council meeting.

4. 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

5. May River Watershed Action Plan Implementation Summary - Attachment 2

6. 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.
- 7. MS4 Minimum Control Measure (MCM) - #1 Public Education and Outreach, and MS4 MCM - #2 Public Participation and Involvement**
- Staff attended the Beaufort County Stormwater Utility Board meeting on 2/10/21.
 - The May River Watershed Action Plan Advisory Committee met 2/25/21.
- Attachment 3**
- Staff is working 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.
 - Staff has tentatively set the date for the 2021 May River Cleanup for 5/01/21. Over the next several months, staff will be working to secure partnerships and coordinate this event if conditions allow it to be held.
- 8. 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 2/22/21. Staff will notify Council and Senior Staff of any pertinent findings from this sampling event via email.
 - Town staff collected seventeen (17) MST samples on 2/15/21 following approximately 2.19 inches of rainfall over seven (7) days. Staff will notify Council and Senior Staff of any pertinent findings from this sampling event via email.
 - Illicit Discharge Investigations – **Attachment 4e**
- 9. MS4 MCM – #4 Construction Site Stormwater Runoff Control – Attachment 5**
- 10. MS4 MCM – #5 Stormwater Plan Review and Related Activity – Attachment 6**
- 11. MS4 MCM – #6 Good Housekeeping (Staff Training/Education)**
- Town Staff attended a Beaufort County Staff training on 2/11/21 regarding SoLoCo implementation to maintain consistency between the jurisdictions for the new ordinance and design manual.
 - Staff participated in a Sontek IQ-flow monitoring data training on 2/17/21.
- 12. Citizen Drainage, Maintenance, and Inspections Concerns Map – Attachment 7**
- 13. Citizen Request for Watershed Management Services & Activities – Attachment 8**

Public Works

1. **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.
 - Ongoing mowing of the New River side trail and field at New River barn.
 - Beautification Program –Landscape Maintenance - ongoing routine.
2. **Facilities**
 - Facilities and Parks Maintenance - ongoing routine.
3. **Public Works Activities Report - Attachment 10**

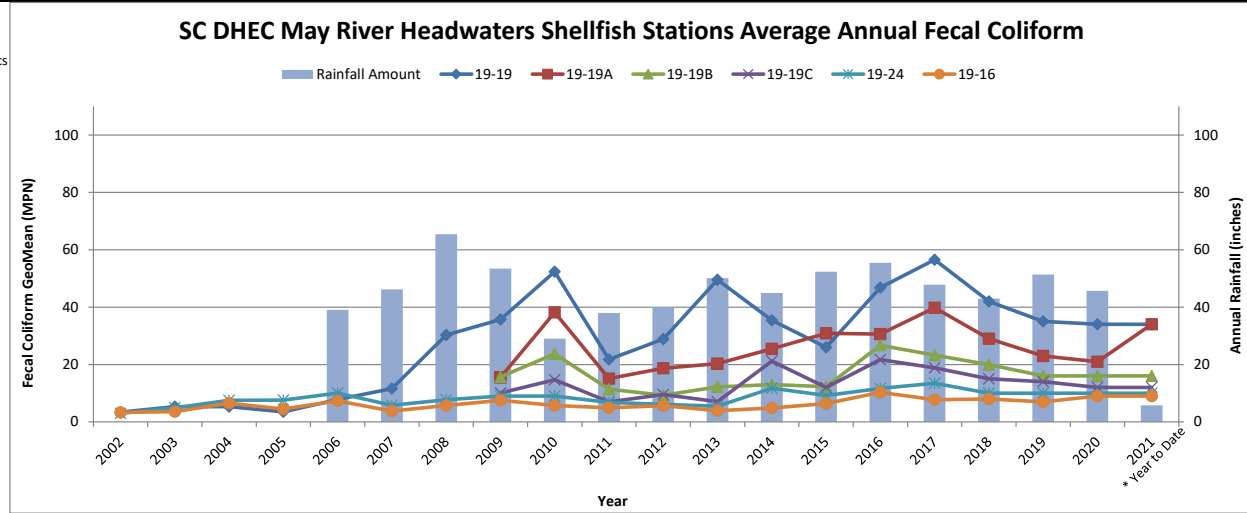
Attachments

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. Beautification Committee Agenda
10. Public Works Activities Report
11. CIP Project Schedules

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

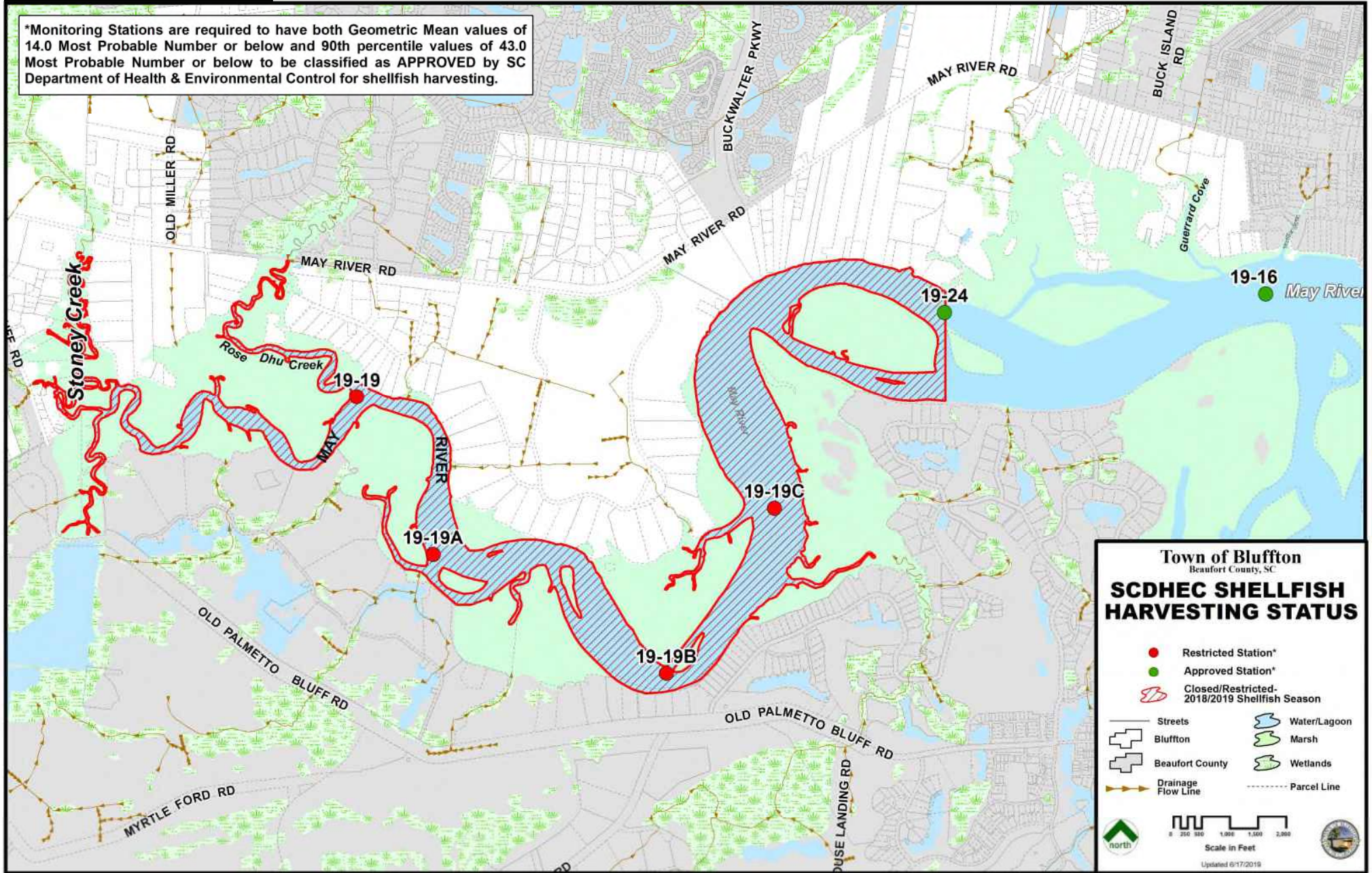
	19-19				19-19A				19-19B				19-19C				19-24				19-16			
	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021	2018	2019	2020	2021
	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)	Fecal Coliform (MPN)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

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



May River Headwaters

*Monitoring Stations are required to have both Geometric Mean values of 14.0 Most Probable Number or below and 90th percentile values of 43.0 Most Probable Number or below to be classified as APPROVED by SC Department of Health & Environmental Control for shellfish harvesting.



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 adoption of 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>
Water Quality Monitoring Program (MS4 Minimum Control Measure #3)	<ol style="list-style-type: none"> 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>

ACTIVITY - PROGRAMS continued	STATUS continued
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

Tuesday, February 25, 2021 at 9:00 AM

Electronic Meeting

AGENDA

This meeting can be viewed on the Town of Bluffton's [Facebook page](#)

PUBLIC COMMENT

*Public comments will be received via conference line provided by the Stormwater Coordinator. All requests for public comment will be accepted up to close of business (5:30 PM) the day prior to the scheduled meeting start time. Public Comments may be submitted electronically via the Town's website at <https://www.townofbluffton.sc.gov/FormCenter/Town-15/Public-Comment-60> or to the Stormwater Coordinator at ldelhomme@townofbluffton.com.

- I. **Call to Order**
- II. **Notice Regarding Posting of Meeting per South Carolina Freedom of Information (FOIA) Requirements**
- III. **Roll Call and Confirmation of Quorum**
- IV. **Adoption of the Agenda**
- V. **Adoption of the Minutes**
 1. Meeting Minutes of January 21, 2021
- VI. **Presentations, Celebrations and Recognitions**
 1. Lowcountry Stormwater Partners – Ellen Comeau, Water Resources Agent, Clemson Extension
- VII. **Public Comment**
- VIII. **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
- IX. **Discussion**
- X. **Adjournment**

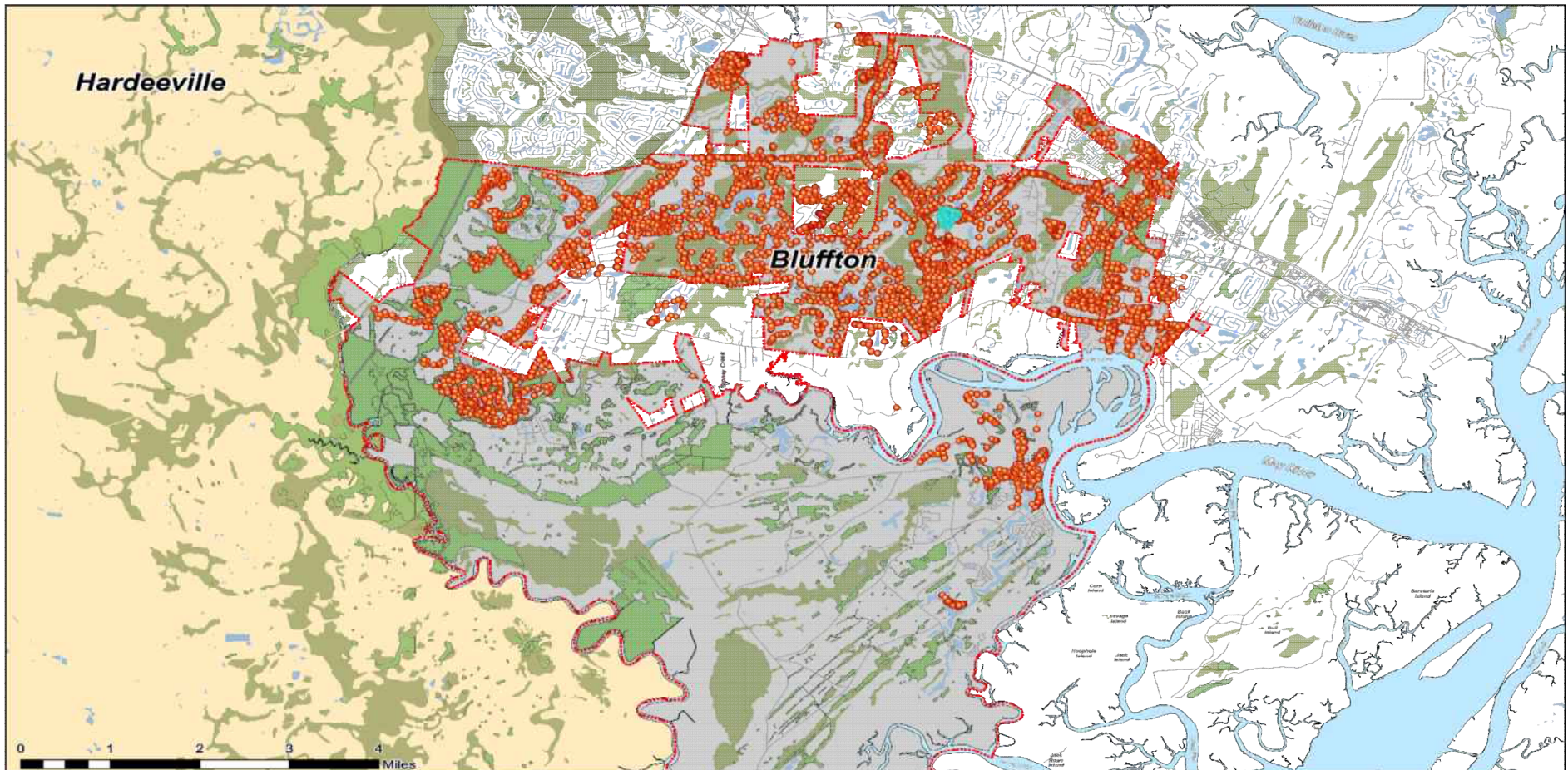
NEXT MEETING DATE: 9:00 AM, Thursday, March 25, 2021

“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 public comment session and a form must be filled out and given to Town Staff. Public comment must not exceed three (3) minutes.*

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



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

Town of Bluffton
Beaufort County, SC

STORMWATER INFRASTRUCTURE

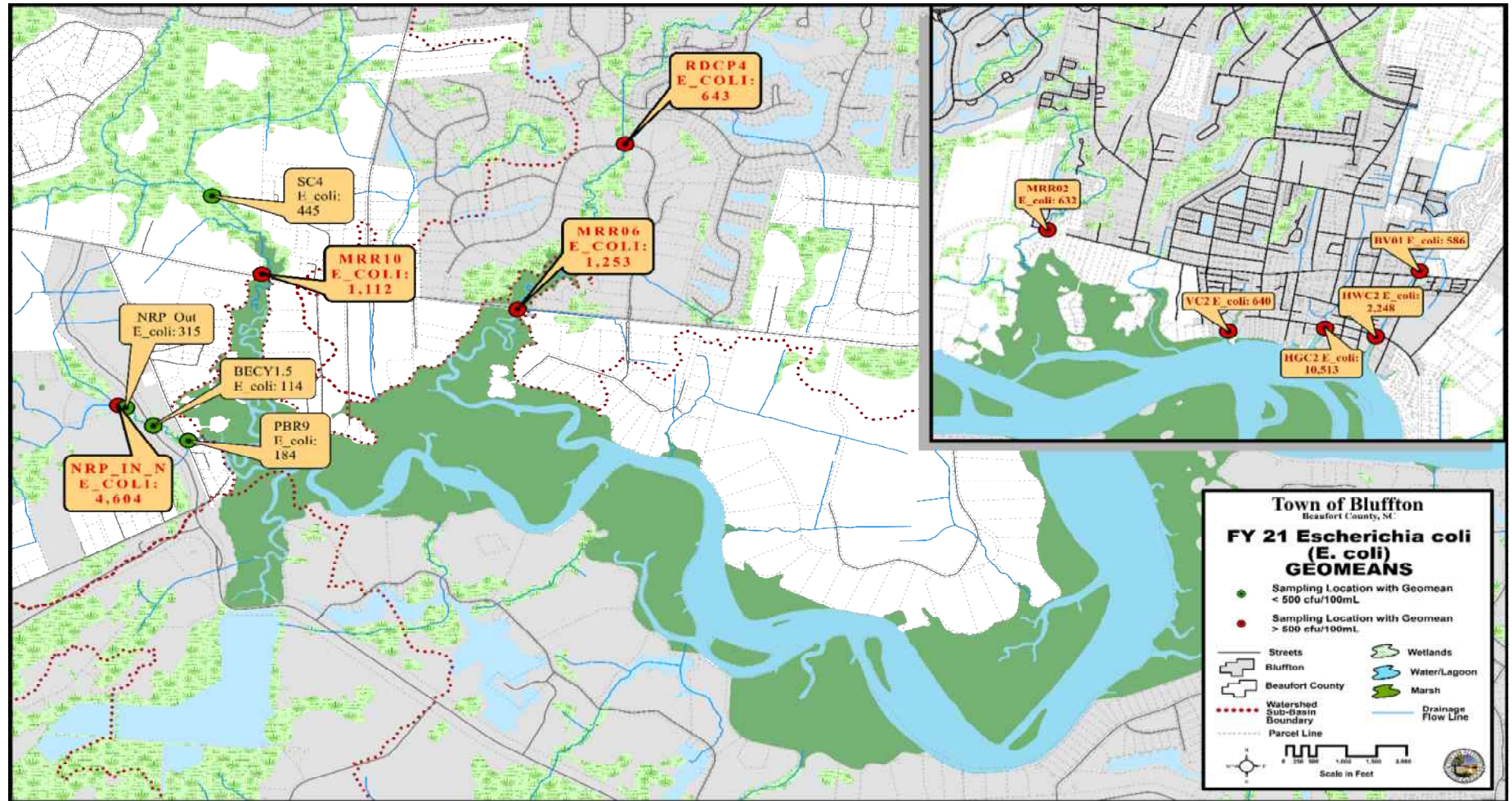
This is a public information document. It is not intended to be used as a legal document. It is not intended to be used as a contract. It is not intended to be used as a warranty. It is not intended to be used as a guarantee. It is not intended to be used as a license. It is not intended to be used as a release. It is not intended to be used as a disclaimer. It is not intended to be used as a limitation of liability. It is not intended to be used as a limitation of damages. It is not intended to be used as a limitation of remedies. It is not intended to be used as a limitation of rights. It is not intended to be used as a limitation of defenses. It is not intended to be used as a limitation of claims. It is not intended to be used as a limitation of causes of action. It is not intended to be used as a limitation of damages. It is not intended to be used as a limitation of remedies. It is not intended to be used as a limitation of rights. It is not intended to be used as a limitation of defenses. It is not intended to be used as a limitation of claims. It is not intended to be used as a limitation of causes of action.




Updated Date: 1/19/2021

Stormwater Infrastructure Inventory Collection Status	
FY 2021 YTD Collection Totals	992
FY 2020 Collection Totals	4,878
FY 2019 Collection Totals	2,925
FY 2018 Collection Totals	3,777

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



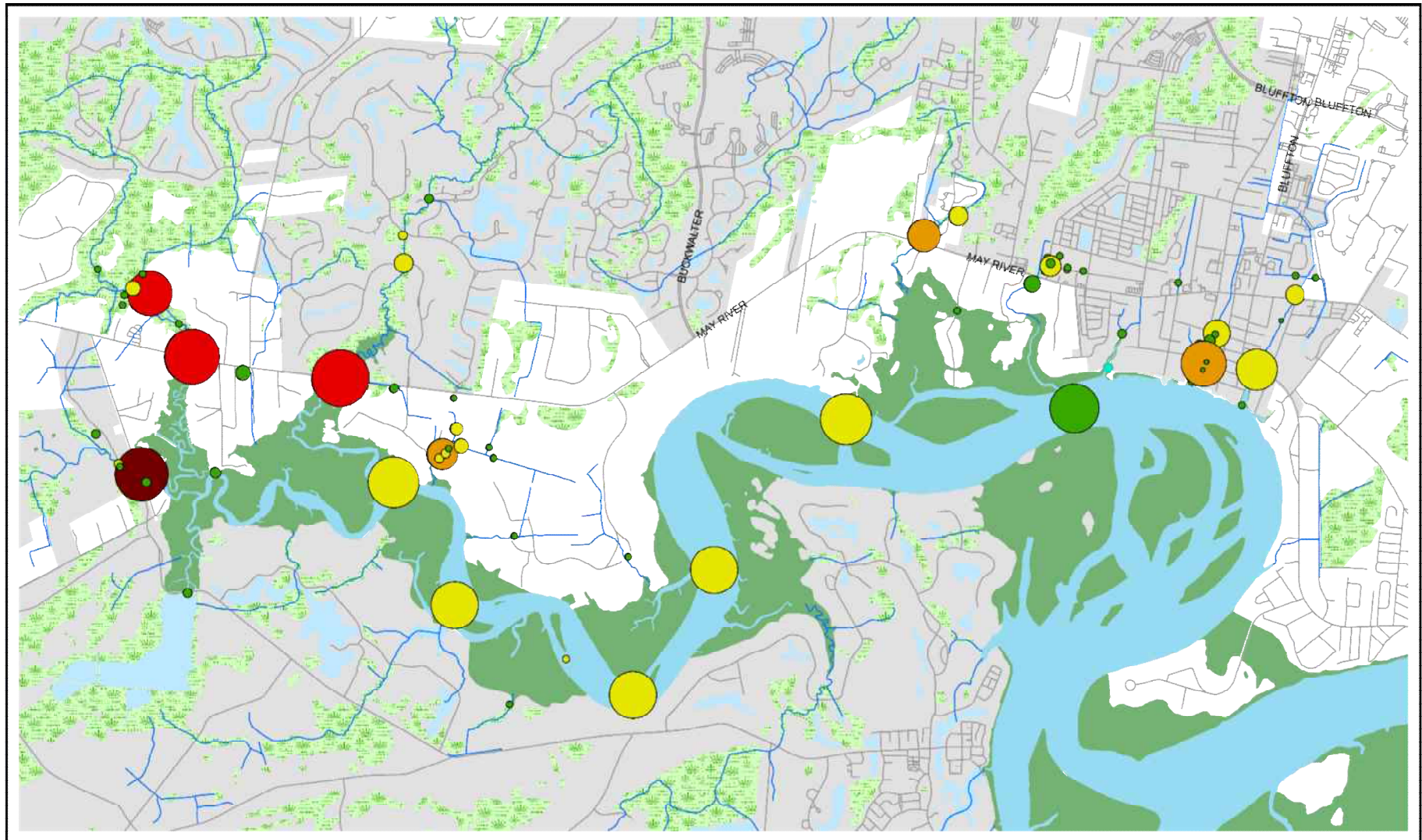
E coliform geomeans updated as of: 1/19/2021














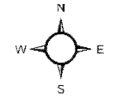
	USCB Water Quality Samples	Microbial Source Tracking Samples	MS4 Quarterly Samples Collected
FY 2021 YTD Totals	277	70	95
FY 2020 Totals	223	115	123
FY 2019 Totals	280	193	264
FY 2018 Totals	216	217	224

2/18/2021

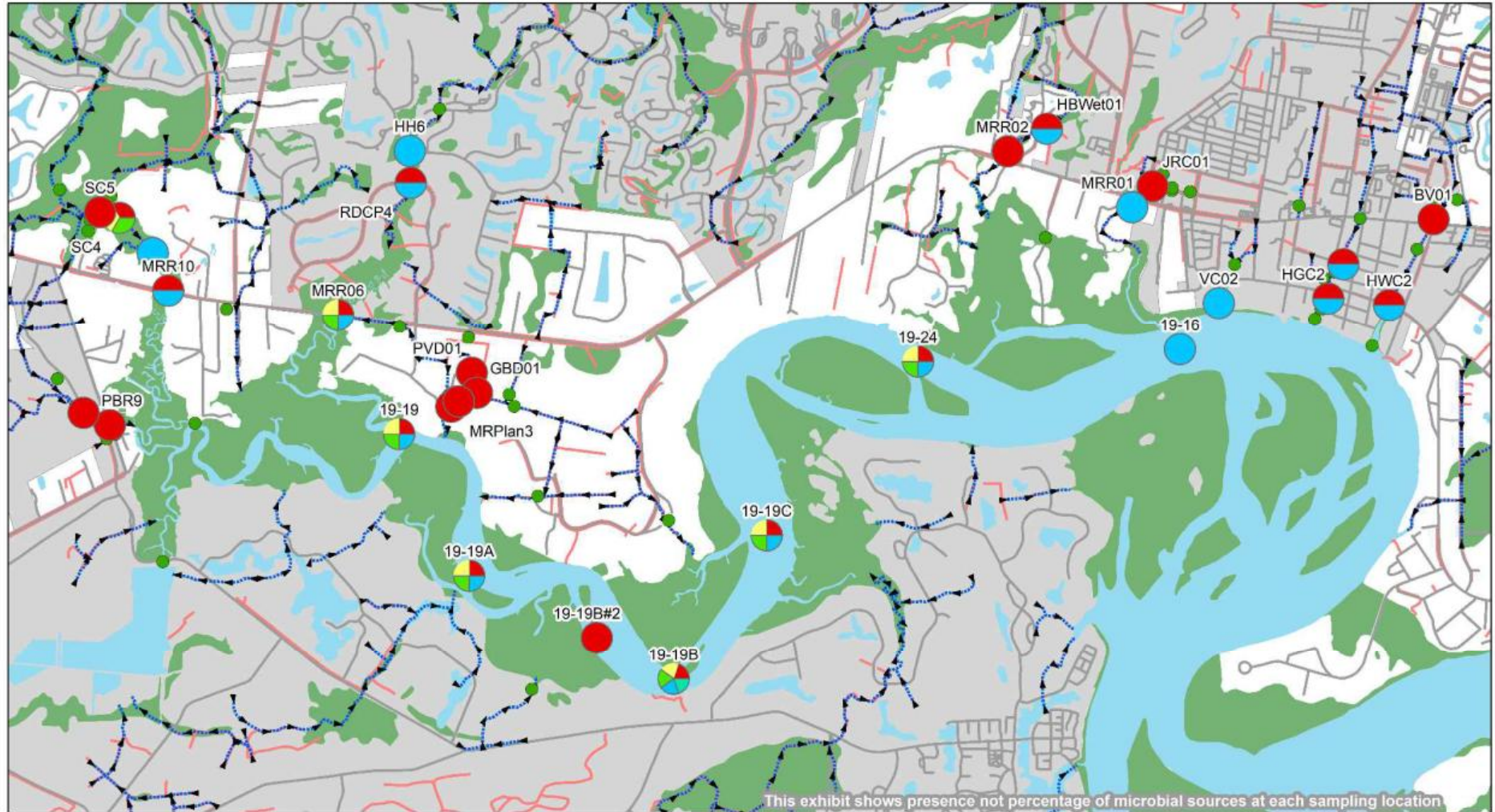
- MST program began November 2016; MS4 Quarterly Sampling initiated 2/2017
- Totals include only samples submitted for laboratory analysis, and not *in situ* parameters.

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



<ul style="list-style-type: none">  Town Jurisdiction  Beaufort County  Drainage Flow Lines 	<p>Positive Hits</p> <ul style="list-style-type: none">  0  1-3  3-6  6-9  >10 	<p>Times Sampled</p> <ul style="list-style-type: none">  1 - 3  4 - 6  7 - 10  >10 	<p>Size of dot correlates to # of times the site has been sampled.</p>	<p>Updated Date: 1/19/2021</p>	 
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MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Map – All Sources



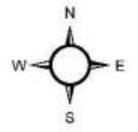
- Microbial Sources
- MST Sampling Location Without Detection
- Human
- Bird
- Deer
- Dog
- Horse
- Flowline
- Drainage Ditch
- Street
- Town Jurisdiction

Microbial Sources Detected Within the May River 2017 - 2021

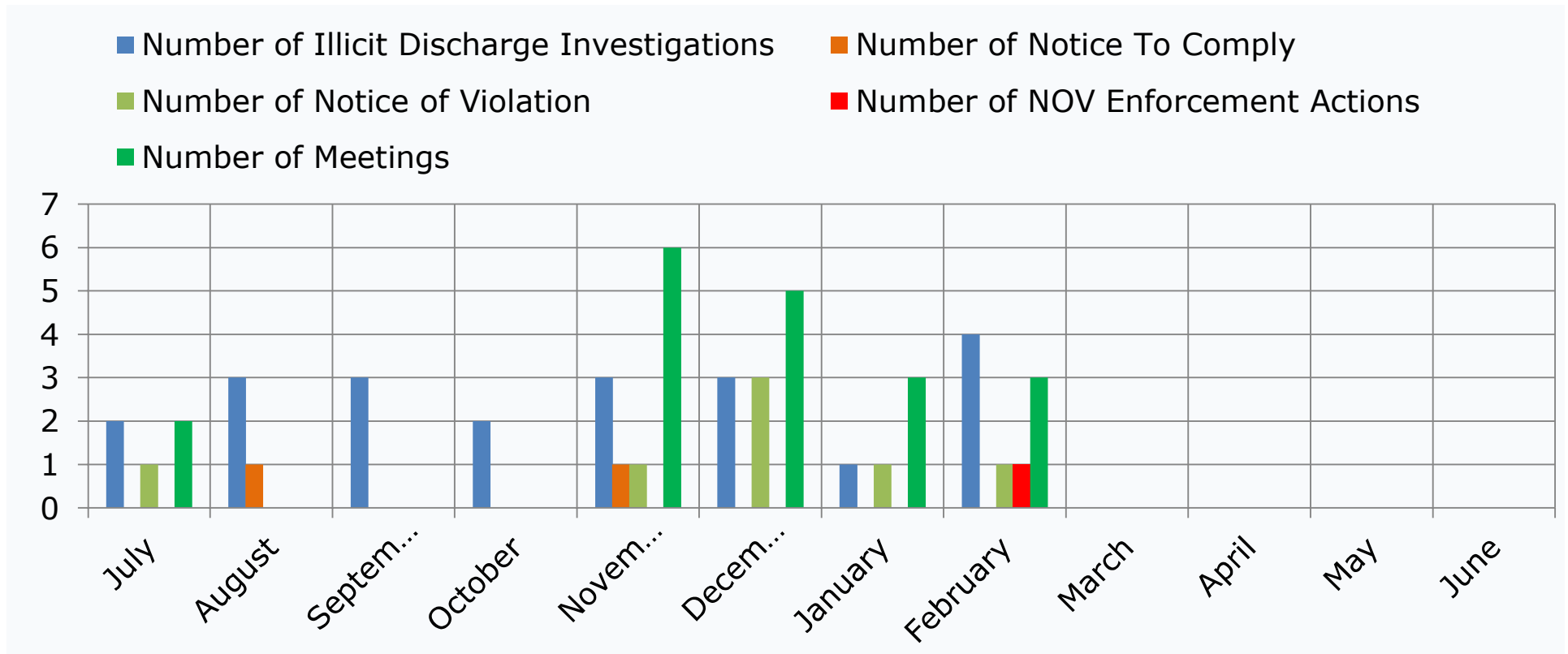
Town of Bluffton
Beaufort County, SC

Date: 11/17/2020

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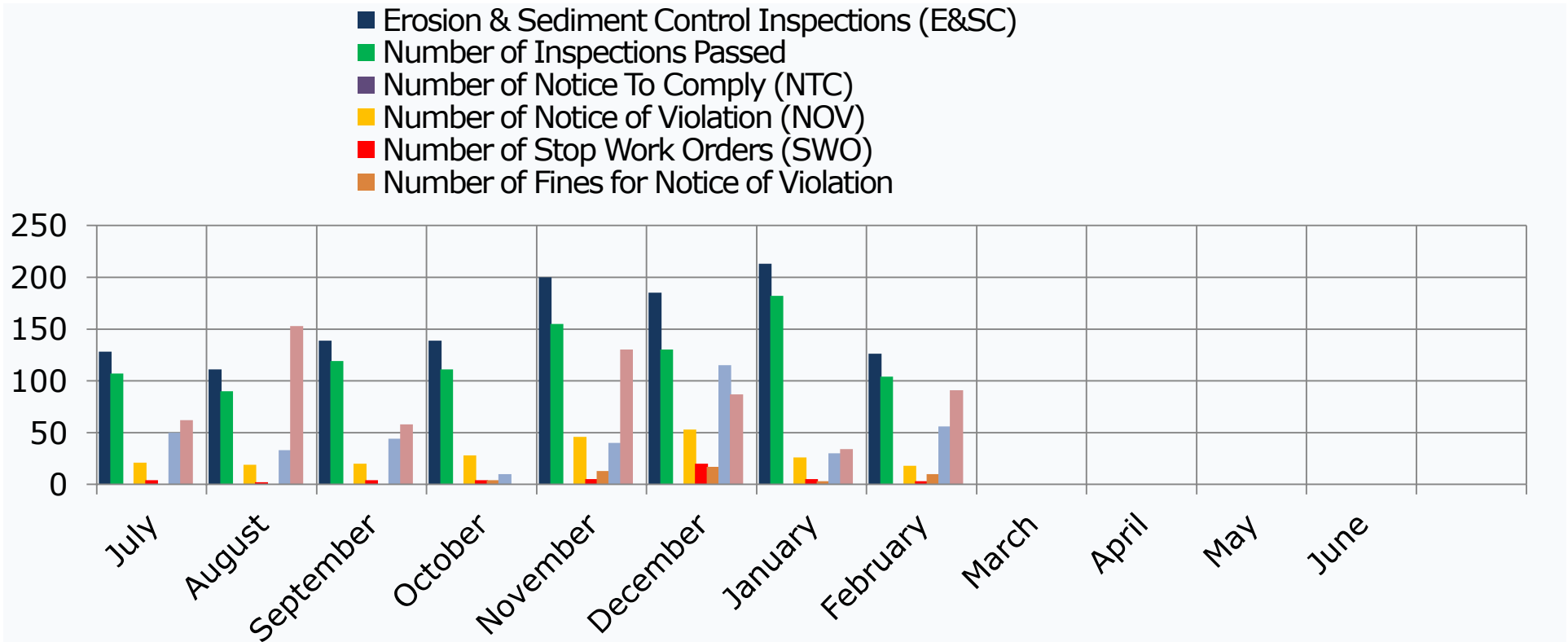


MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations



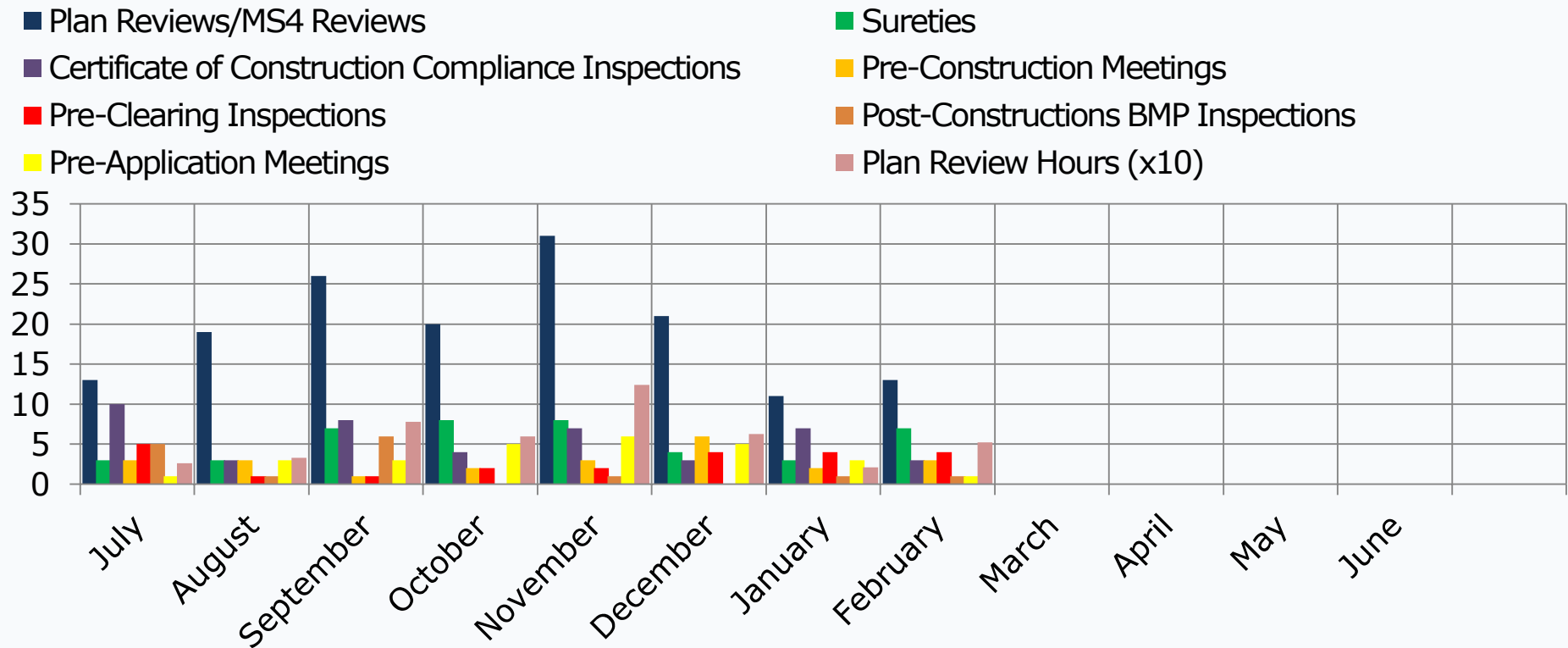
	Number of Illicit Discharge Investigations	Number of Notices To Comply Issued	Number of Notices of Violation Issued	Number of NOV Enforcement Actions	Number of Meetings
FY 2021 YTD Totals	21	2	7	1	19
FY 2020 Totals	45	10	8	6	49
FY 2019 Totals	38	20	3	1	61
FY 2018 Totals	48	20	4	2	60

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



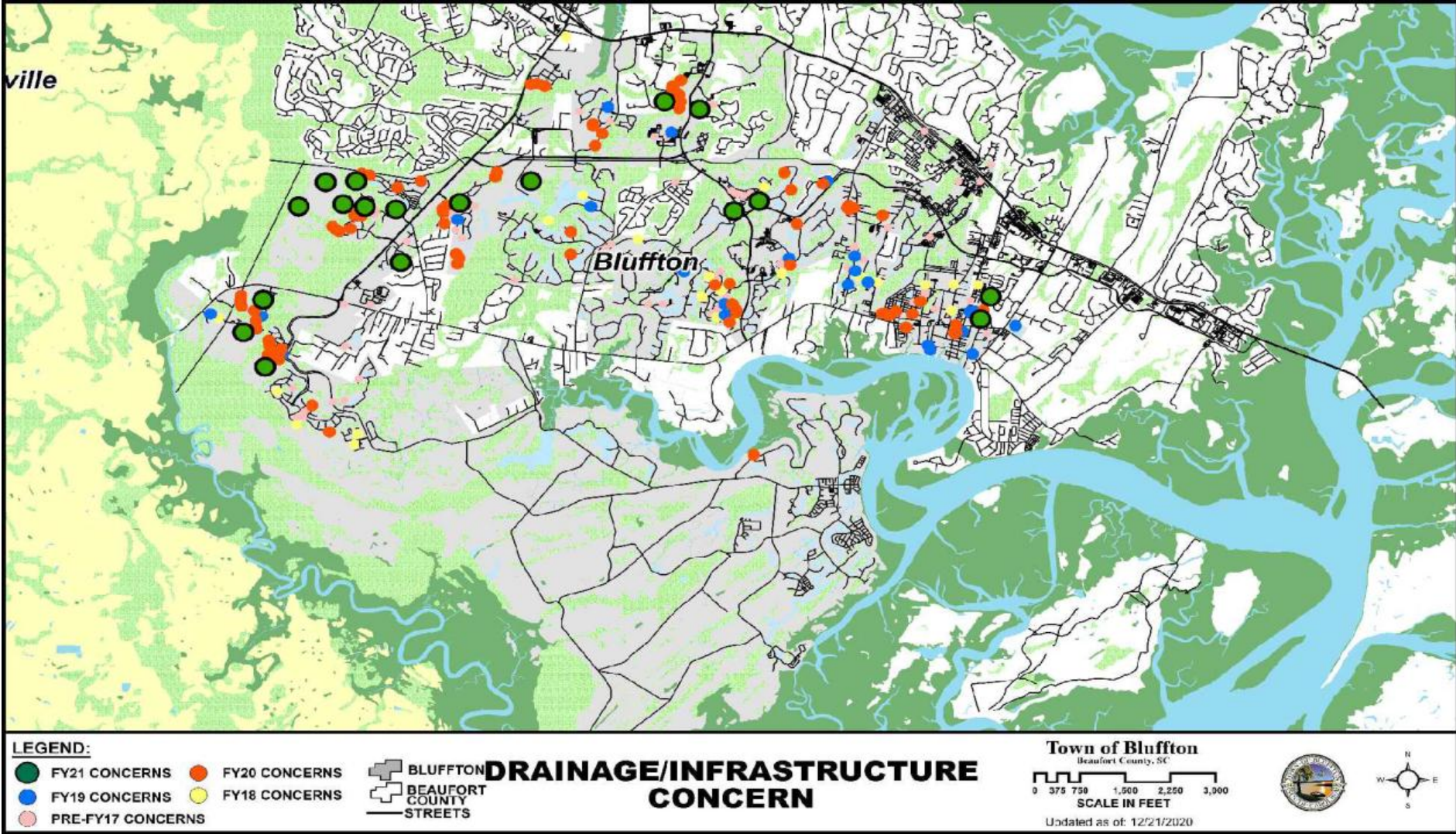
	Number of Sediment & Erosion Control Inspections	Number of Inspections Passed	Number of NTC Issued	Number of NOVs Issued	Number of SWO Issued	Number of NOV Enforcement Actions	Number of E&SC Meetings
FY 2021 YTD Totals	1224	1016	N/A	197	28	30	304
FY 2020 Totals	1,517	1187	128	185	16	9	496
FY 2019 Totals	1,688	1,384	254	72	N/A	7	403

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



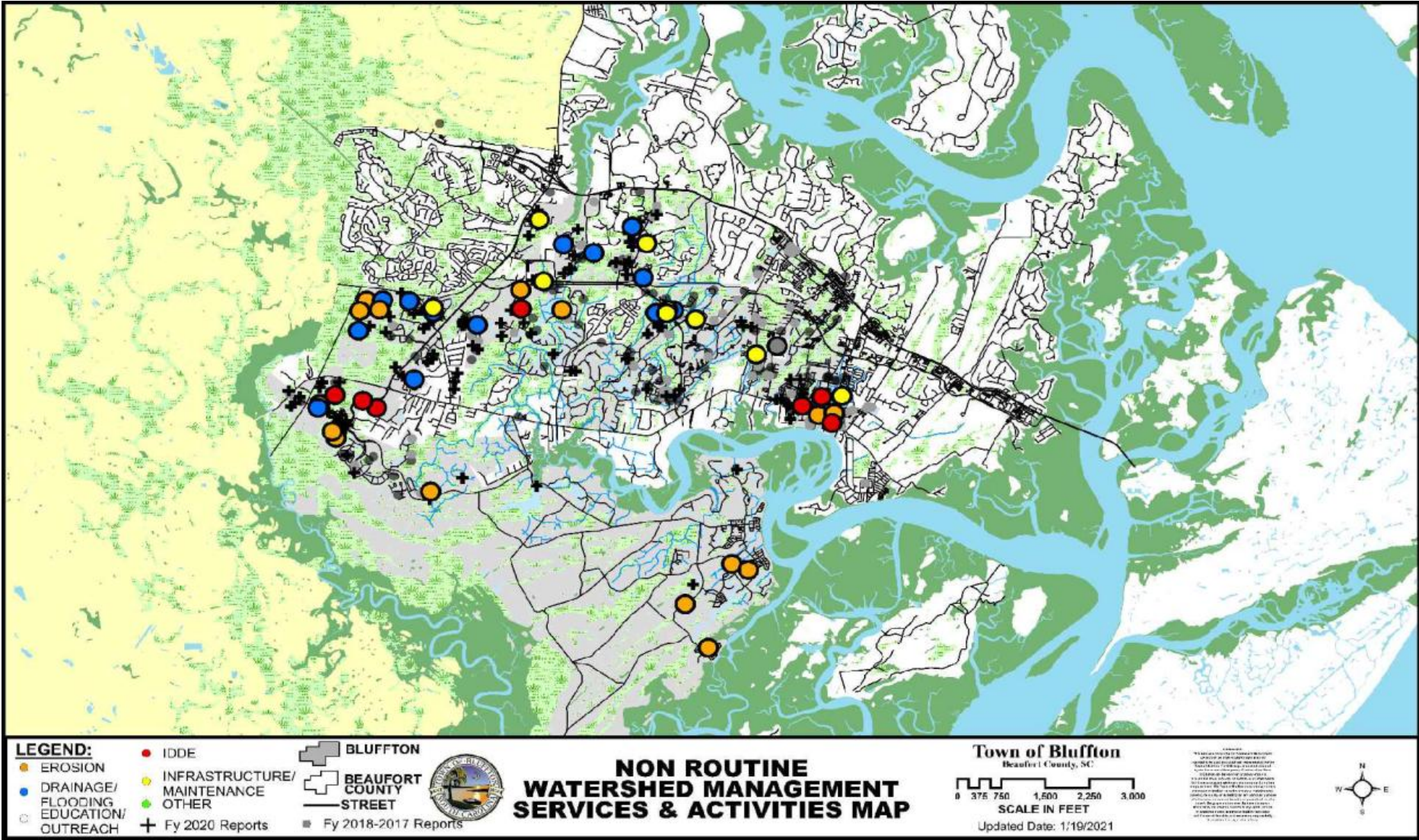
	Plan Reviews MS4 Reviews	Sureties	Certificate of Construction Compliance Inspections	Pre-Construction Meetings	Pre-Clearing Inspections	Post Construction BMP Inspections	Pre-Application Meetings	Total Plan Review Hours
FY 2021 YTD Totals	120	32	39	13	15	14	21	394 Hrs.
FY 2020 Totals	176	53	46	36	17	8	36	789 Hrs.
FY 2019 Totals	208	52	53	47	37	27	63	1,040 Hrs.

Citizen Drainage, Maintenance and Inspections Concerns Map



	Number of Drainage Concerns Investigated	Number of Meetings
FY 2021 YTD Totals	27	28
FY 2020 Totals	68	76
FY 2019 Totals	54	59

Citizen Request for Watershed Mngt. Services & Activities Map



	Number of Citizen Requests Investigated	Number of Meetings
FY 2021 YTD Totals	31	30
FY 2020 Totals	99	102
FY 2019 Totals	75	79



No Quorum

**TOWN OF BLUFFTON
BEAUTIFICATION COMMITTEE MEETING AGENDA
ELECTRONIC MEETING**

Thursday, February 18, 2021, 10:00 a.m.

This meeting can be viewed on the Town of Bluffton's Facebook page starting at 1:00 p.m.
<https://www.facebook.com/TownBlufftonSC/>

- I. CALL TO ORDER
- II. ROLL CALL
- III. ADOPTION OF THE AGENDA
- IV. ADOPTION OF MINUTES – February 20, 2020
- V. PUBLIC COMMENTS*
- VI. OLD BUSINESS
- VII. NEW BUSINESS
 - 1. Introduction of New Beautification Committee Member – Michael Salas
 - 2. Election of Officers
 - 3. Adoption of 2021 Meeting Dates
 - 4. Review and Approve Beautification Work Plan for FY 2022 Budget
 - 5. Update on Power Line Trimming
 - 6. Review Bench/Tree Memorial Program
 - 7. Discuss Special Project for FY 2021 – Receptacles
 - 8. Arbor Day Ceremony – Tree Planting Location
- VIII. DISCUSSION
 - 1. Wright Family Park Camellia Garden
- IX. ADJOURNMENT

NEXT MEETING DATE: Thursday, March 18, 2021

* Public Comments may be submitted electronically via the Town's website at (<https://bit.ly/TOBPublicComment>) or by emailing your comments to the Engineering and Public Works Coordinator at rrexrode@townofbluffton.com. Comments will be accepted up to 2 hours prior to the scheduled meeting start time. All comments will be read aloud for the record and will be provided to the Development Review Committee.

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.

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Public Works Activities Report

Week	# of Activities	Labor Cost	Equipment Cost	Other Cost	Total
FY21WK1	61	\$4,397.00	\$3,188.00		\$7,584.00
FY21WK2	56	\$5,474.00	\$3,574.00	\$121.00	\$9,168.00
FY21WK3	48	\$4,880.00	\$3,502.00		\$8,382.00
FY21WK4	62	\$5,828.00	\$3,970.00		\$9,799.00
FY21WK5	45	\$4,706.00	\$3,575.00		\$8,281.00
FY21WK6	54	\$5,645.00	\$3,114.00		\$9,126.00
FY21WK7	60	\$4,855.00	\$4,232.00		\$9,087.00
FY21WK8	67	\$5,118.00	\$4,221.00		\$9,339.00
FY21WK9	50	\$5,784.00	\$3,923.00		\$9,707.00
FY21WK10	54	\$6,131.00	\$4,248.00	\$21.00	\$10,400.00
FY21WK11	41	\$4,677.00	\$2,740.00		\$7,417.00
FY21WK12	70	\$5,580.00	\$2,587.00	\$326.00	\$8,494.00
FY21WK13	94	\$5,864.00	\$5,084.00		\$10,949.00
FY21WK14	49	\$6,171.00	\$4,261.00		\$10,431.00
FY21WK15	53	\$5,870.00	\$4,059.00		\$9,929.00
FY21WK16	62	\$5,239.00	\$3,531.00		\$8,771.00
FY21WK17	77	\$4,660.00	\$3,769.00	\$364.00	\$8,792.00
FY21WK18	45	\$4,679.00	\$3,417.00		\$8,096.00
FY21WK19	62	\$6,186.00	\$7,048.00		\$13,234.00
FY21WK20	41	\$4,135.00	\$2,633.00		\$6,768.00
FY21WK21	51	\$5,446.00	\$3,073.00		\$8,519.00
FY21WK22	39	\$3,229.00	\$3,599.00		\$6,828.00
FY21WK23	51	\$5,072.00	\$3,014.00		\$8,085.00
FY21WK24	76	\$6,073.00	\$5,257.00		\$11,329.00
FY21WK25	56	\$4,245.00	\$2,976.00		\$7,221.00
FY21WK26	38	\$1,890.00	\$1,936.00		\$3,826.00
FY21WK27	50	\$4,417.00	\$4,060.00		\$8,477.00
FY21WK28	69	\$5,753.00	\$4,185.00		\$9,938.00
FY21WK29	36	\$4,703.00	\$6,365.00		\$11,069.00
FY21WK30	69	\$5,100.00	\$4,540.00		\$9,640.00
FY21WK31	62	\$5,581.00	\$3,627.00		\$9,208.00
FY21WK32	89	\$5,648.00	\$3,808.00		\$9,456.00
FY21WK33	67	\$4,845.00	\$3,486.00		\$8,331.00
FY21WK34					
FY21WK35					
FY21WK36					
FY21WK37					
FY21WK38					
FY21WK39					
FY21WK40					
FY21WK41					
FY21WK42					
FY21WK43					
FY21WK44					
FY21WK45					
FY21WK46					
FY21WK47					
FY21WK48					
FY21WK49					
FY21WK50					
FY21WK51					
FY21WK52					
Total	1904	\$167,881.00	\$126,602.00	\$832.00	\$295,681.00

Public Works Activities Report

Week	# of Activities	Labor Cost	Equipment Cost	Other Cost	Total
FY21WK1	61	\$4,397.00	\$3,188.00		\$7,584.00
FY21WK2	56	\$5,474.00	\$3,574.00	\$121.00	\$9,168.00
FY21WK3	48	\$4,880.00	\$3,502.00		\$8,382.00
FY21WK4	62	\$5,828.00	\$3,970.00		\$9,799.00
FY21WK5	45	\$4,706.00	\$3,575.00		\$8,281.00
FY21WK6	54	\$5,645.00	\$3,114.00		\$9,126.00
FY21WK7	60	\$4,855.00	\$4,232.00		\$9,087.00
FY21WK8	67	\$5,118.00	\$4,221.00		\$9,339.00
FY21WK9	50	\$5,784.00	\$3,923.00		\$9,707.00
FY21WK10	54	\$6,131.00	\$4,248.00	\$21.00	\$10,400.00
FY21WK11	41	\$4,677.00	\$2,740.00		\$7,417.00
FY21WK12	70	\$5,580.00	\$2,587.00	\$326.00	\$8,494.00
FY21WK13	94	\$5,864.00	\$5,084.00		\$10,949.00
FY21WK14	49	\$6,171.00	\$4,261.00		\$10,431.00
FY21WK15	53	\$5,870.00	\$4,059.00		\$9,929.00
FY21WK16	62	\$5,239.00	\$3,531.00		\$8,771.00
FY21WK17	77	\$4,660.00	\$3,769.00	\$364.00	\$8,792.00
FY21WK18	45	\$4,679.00	\$3,417.00		\$8,096.00
FY21WK19	62	\$6,186.00	\$7,048.00		\$13,234.00
FY21WK20	41	\$4,135.00	\$2,633.00		\$6,768.00
FY21WK21	51	\$5,446.00	\$3,073.00		\$8,519.00
FY21WK22	39	\$3,229.00	\$3,599.00		\$6,828.00
FY21WK23	51	\$5,072.00	\$3,014.00		\$8,085.00
FY21WK24	76	\$6,073.00	\$5,257.00		\$11,329.00
FY21WK25	56	\$4,245.00	\$2,976.00		\$7,221.00
FY21WK26	38	\$1,890.00	\$1,936.00		\$3,826.00
FY21WK27	50	\$4,417.00	\$4,060.00		\$8,477.00
FY21WK28	69	\$5,753.00	\$4,185.00		\$9,938.00
FY21WK29	36	\$4,703.00	\$6,365.00		\$11,069.00
FY21WK30	69	\$5,100.00	\$4,540.00		\$9,640.00
FY21WK31	62	\$5,581.00	\$3,627.00		\$9,208.00
FY21WK32	89	\$5,648.00	\$3,808.00		\$9,456.00
FY21WK33	67	\$4,845.00	\$3,486.00		\$8,331.00
FY21WK34					
FY21WK35					
FY21WK36					
FY21WK37					
FY21WK38					
FY21WK39					
FY21WK40					
FY21WK41					
FY21WK42					
FY21WK43					
FY21WK44					
FY21WK45					
FY21WK46					
FY21WK47					
FY21WK48					
FY21WK49					
FY21WK50					
FY21WK51					
FY21WK52					
Total	1904	\$167,881.00	\$126,602.00	\$832.00	\$295,681.00

BUCKWALTER PLACE PARK RESTROOMS
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Sep	Oct	Nov	Dec	2021 Jan	Feb	Mar	Apr	May	Jun	Jul
1	Buckwalter Place Park Restrooms	210 days	Wed 9/23/20	Tue 7/13/21											
2	Planning and Conceptual Design	59 days	Wed 9/23/20	Mon 12/14/20											
7	Final Design and Construction Documents	45 days	Tue 12/15/20	Mon 2/15/21											
10	Permitting	15 days	Tue 2/16/21	Mon 3/8/21											
13	Bidding and Contracts	91 days	Tue 3/9/21	Tue 7/13/21											

Project: 00040 Date: Wed 1/27/21	Milestone	◆	Project Duration	◆————◆	Permitting		Construction	
	Critical Task	★	Planing and Conceptual Design		Easements and Land Acquisitions			
	Task		Final Design and Construction Documents		Bidding and Contracts			

BUCKWALTER MULTI-COUNTY COMMERCE PARK
PHASE II DEVELOPMENT PARCEL - PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Half 2, 2020					Half 1, 2021					Half 2, 2021					Half 1, 2022					Half 2,				
					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
1	PHASE II DEVELOPMENT PARCEL	481 days	Mon 8/3/20	Mon 6/6/22	◆																								
2	Planning and Conceptual Design	120 days	Mon 8/3/20	Fri 1/15/21	◆																								
9	Final Design and Construction Documents	75 days	Mon 1/18/21	Fri 4/30/21	◆																								
16	Permitting	30 days	Tue 4/6/21	Mon 5/17/21	◆																								
21	Bidding and Contracts	115 days	Mon 5/10/21	Fri 10/15/21	◆																								
32	Construction	166 days	Mon 10/18/21	Mon 6/6/22	◆																								

Project: 00040	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
Date: Tue 1/5/21	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

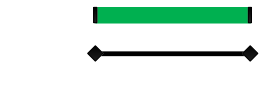
CALHOUN STREET STREETScape
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	May	June	July	August	Septem	October	Novem	Decem	January	Februa	March	April	May	June	July	August	Septem	October	Novem	Decem	January	Februa	March	April	May	June	July	Au				
					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
1	CALHOUN STREET STREETScape	561 days	Mon 5/18/20	Mon 7/11/22	◆																															
2	Planning and Conceptual Design	80 days	Mon 5/18/20	Fri 9/4/20	◆																															
7	Final Planning and Construction Documents	270 days	Mon 9/7/20	Fri 9/17/21	◆																															
27	Permitting Phase	65 days	Mon 6/7/21	Fri 9/3/21	◆																															
32	Easements and Land Acquisition	276 days	Mon 6/21/21	Mon 7/11/22	◆																															

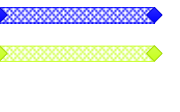
Project: 00042
Date: Wed 1/27/21

Milestone ◆
Critical Task ★

Task
Project Duration



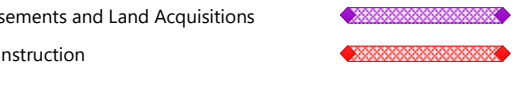
◆ Planning and Conceptual Design
◆ Final Design and Construction Documents



◆ Permitting
◆ Bidding and Contract



◆ Easements and Land Acquisitions
◆ Construction



HISTORIC DISTRICT STREETScape AND DRAINAGE IMPROVEMENTS PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	Traffic Calming Study and AME Church Rain Garden	194 days	Mon 11/16/20	Thu 8/12/21	
2	Planning and Conceptual Design	163 days	Mon 11/16/20	Wed 6/30/21	
7	Final Design and Construction Documents	56 days	Mon 12/28/20	Mon 3/15/21	
10	Permitting	30 days	Mon 12/28/20	Fri 2/5/21	
14	Easements and Land Acquisition	10 days	Mon 1/18/21	Fri 1/29/21	
17	Bidding and Contracts	48 days	Tue 3/16/21	Thu 5/20/21	
22	Construction	60 days	Fri 5/21/21	Thu 8/12/21	

Project: 00050 Date: Tue 1/5/21	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			
					Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep	Nov	Jan	Mar	May	Jul	Sep		
1	GOETHE/SHULTS NEIGHBORHOOD IMPROVEMENTS PHASE 2	878 days	Mon 4/30/18	Wed 9/8/21																								
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	71 days	Tue 12/1/20	Tue 3/9/21																								
37	CONSTRUCTION	151 days	Wed 3/10/21	Wed 10/6/21																								

Project: 00055
Date: Tue 1/5/21

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

OYSTER FACTORY PARK
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	
1	Oyster Factory Park	686 days	Mon 10/14/19	Mon 5/30/22	
2	Planning and Conceptual Design	394 days	Mon 10/14/19	Thu 4/15/21	
11	Easement and Land Acquisition	35 days	Tue 5/11/21	Mon 6/28/21	
13	Construction	250 days	Tue 6/15/21	Mon 5/30/22	

Project: 00059 Date: Tue 1/5/21	Milestone	◆	Project Duration	◆————◆	Permitting		Construction	
	Critical Task	★	Planning and Conceptual Design		Easements and Land Acquisition			
	Task		Final Design and Construction Documents		Bidding and Contracts			

BOUNDARY STREET LIGHTING
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2020												2021							
					Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
1	BOUNDARY STREET LIGHTING PHASE 2	451 days	Mon 7/8/19	Mon 3/29/21	◆																			
2	Planning and Conceptual Design	425 days	Mon 7/8/19	Fri 2/19/21	◆																			
13	Permitting	90 days	Mon 1/20/20	Fri 5/22/20	◆																			
15	Easements and Land Acquisition	210 days	Fri 5/1/20	Thu 2/18/21	◆																			
18	Construction	206 days	Mon 6/15/20	Mon 3/29/21	◆																			

Project: 00069 Date: Tue 1/5/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contract	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 1
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Half 2, 2018		Half 1, 2019					Half 2, 2019					Half 1, 2020					Half 2, 2020					Half 1, 2021							
					J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N
1	PHASE 1	713 days	Tue 7/3/18	Thu 3/25/21	◆																													
2	Planning and Conceptual Design	239 days	Tue 7/3/18	Fri 5/31/19	◆																													
9	Final Design and Construction Documents	65 days	Mon 6/3/19	Fri 8/30/19	◆																													
11	Permitting	140 days	Mon 9/2/19	Fri 3/13/20	◆																													
14	Easements and Land Acquisition	105 days	Mon 3/16/20	Fri 8/7/20	◆																													
17	Bidding and Contracts	62 days	Mon 3/16/20	Tue 6/9/20	◆																													
22	Construction	192 days	Wed 6/10/20	Thu 3/4/21	◆																													

Project: 00070	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
Date: Wed 1/27/21	Critical Task	★	Planing and Conceptual Design	◆	Easements and Land Acquisitions	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 2
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	Half 2, 2018		Half 1, 2019					Half 2, 2019					Half 1, 2020					Half 2, 2020					Half 1, 2021					Half 2, 2021								
					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
1	PHASE 2	829 days	Mon 7/2/18	Thu 9/2/21	◆																																			
2	Planning and Conceptual Design	185 days	Mon 7/2/18	Fri 3/15/19	◆																																			
10	Final Design and Construction Documents	20 days	Mon 3/18/19	Fri 4/12/19	◆																																			
12	Permitting	55 days	Mon 4/15/19	Fri 6/28/19	◆																																			
15	Easements and Land Acquisition	420 days	Mon 7/1/19	Fri 2/5/21	◆																																			
17	Bidding and Contracts	72 days	Mon 2/8/21	Tue 5/18/21	◆																																			
22	Construction	77 days	Wed 5/19/21	Thu 9/2/21	◆																																			

Project: 00071	Milestone ◆	Project Duration ◆	Permitting ◆	Construction ◆
Date: Tue 1/5/21	Critical Task ★	Planing and Conceptual Design ◆	Easements and Land Acquisitions ◆	
	Task ■	Final Design and Construction Documents ◆	Bidding and Contracts ◆	

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 3
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021															
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	PHASE 3	294 days	Mon 11/2/20	Thu 12/16/21	◆															
2	Planning and Conceptual Design	81 days	Mon 11/2/20	Mon 2/22/21	◆															
9	Final Design and Construction Documents	30 days	Tue 2/23/21	Mon 4/5/21	◆															
11	Permitting	40 days	Tue 4/6/21	Mon 5/31/21	◆															
14	Easements and Land Acquisition	105 days	Tue 2/16/21	Mon 7/12/21	◆															
17	Bidding and Contracts	51 days	Tue 6/1/21	Tue 8/10/21	◆															
22	Construction	92 days	Wed 8/11/21	Thu 12/16/21	◆															

Project: 00072
Date: Tue 1/5/21

Milestone ◆
Critical Task ★
Task

Project Duration ◆
Planing and Conceptual Design ◆
Final Design and Construction Documents ◆

◆
◆
◆

Permitting
Easements and Land Acquisitions
Bidding and Contracts

◆
◆
◆

Construction
◆

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 4
PROPOSED SCHEDULE

ID	Task Name	Duration	Start	Finish	2021															
					Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1	PHASE 4	294 days	Mon 11/2/20	Thu 12/16/21	◆															
2	Planning and Conceptual Design	81 days	Mon 11/2/20	Mon 2/22/21	◆															
9	Final Design and Construction Documents	30 days	Tue 2/23/21	Mon 4/5/21	◆															
11	Permitting	40 days	Tue 4/6/21	Mon 5/31/21	◆															
14	Easements and Land Acquisition	105 days	Tue 2/16/21	Mon 7/12/21	◆															
17	Bidding and Contracts	51 days	Tue 6/1/21	Tue 8/10/21	◆															
22	Construction	92 days	Wed 8/11/21	Thu 12/16/21	◆															

Project: 00073	Milestone ◆	Project Duration ◆	Permitting ◆	Construction ◆
Date: Tue 1/5/21	Critical Task ★	Planing and Conceptual Design ◆	Easements and Land Acquisitions ◆	
	Task ■	Final Design and Construction Documents ◆	Bidding and Contracts ◆	

HISTORIC DISTRICT SANITARY SEWER EXTENSION PHASE 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	
1	PHASE 5	294 days	Mon 11/2/20	Thu 12/16/21	◆																
2	Planning and Conceptual Design	81 days	Mon 11/2/20	Mon 2/22/21	◆																
9	Final Design and Construction Documents	30 days	Tue 2/23/21	Mon 4/5/21	◆																
11	Permitting	40 days	Tue 4/6/21	Mon 5/31/21	◆																
14	Easements and Land Acquisition	105 days	Tue 2/16/21	Mon 7/12/21	◆																
17	Bidding and Contracts	51 days	Tue 6/1/21	Tue 8/10/21	◆																
22	Construction	92 days	Wed 8/11/21	Thu 12/16/21	◆																

Project: 00074
Date: Tue 1/5/21

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	
1	PHASE 6	294 days	Mon 11/2/20	Thu 12/16/21	◆																
2	Planning and Conceptual Design	81 days	Mon 11/2/20	Mon 2/22/21	◆																
9	Final Design and Construction Documents	30 days	Tue 2/23/21	Mon 4/5/21	◆																
11	Permitting	40 days	Tue 4/6/21	Mon 5/31/21	◆																
14	Easements and Land Acquisition	105 days	Tue 2/16/21	Mon 7/12/21	◆																
17	Bidding and Contracts	51 days	Tue 6/1/21	Tue 8/10/21	◆																
22	Construction	92 days	Wed 8/11/21	Thu 12/16/21	◆																

Project: 00075
Date: Tue 1/5/21

Milestone ◆
Critical Task ★
Task █

Project Duration ◆
Planing and Conceptual Design ◆
Final Design and Construction Documents ◆

◆
◆
◆

Permitting
Easements and Land Acquisitions
Bidding and Contracts

◆
◆
◆

Construction
◆

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	M	J	J
1	BRIDGE STREET STREETScape	776 days	Sun 9/1/19	Fri 8/19/22	◆																																			
2	Planning and Conceptual Design	232 days	Sun 9/1/19	Tue 7/21/20	◆																																			
17	Final Design and Construction Documents	128 days	Wed 7/22/20	Fri 1/15/21	◆																																			
22	Permitting	100 days	Mon 12/28/20	Fri 5/14/21	◆																																			
27	Easements and Land Acquisition	211 days?	Mon 1/11/21	Mon 11/1/21	◆																																			
37	Construction																																							

Project: 00082 Date: Tue 1/5/21	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													
1	GHOST ROADS	731 days	Thu 9/12/19	Thu 6/30/22	◆																																															
2	Planning and Conceptual Design	731 days	Thu 9/12/19	Thu 6/30/22	◆																																															

Project: 00093 Date: Tue 1/5/21	Milestone	◆	Project Duration	◆	Permitting	◆	Construction	◆
	Critical Task	★	Planning and Conceptual Design	◆	Easements and Land Acquisition	◆		
	Task	■	Final Design and Construction Documents	◆	Bidding and Contracts	◆		

BOUNDARY STREET STREETScape
PROPOSED SCHEDULE

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

Project: 00094
Date: Wed 1/27/21

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



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



June 2021

Stormwater Manager's Report for the Stormwater Utility Board Meeting

Utility Update

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

All project milestones have been completed.

2. Regionalization
 - a) Regional Stormwater Design Standard and Model Ordinance Project – See update above.
 - b) Regionalization of programs – With the finalization of the Regional Stormwater Design Standard and Model Ordinance it is hoped each participating jurisdiction will adopt these policy documents for implementation to provide consistent administration of Stormwater Management guidelines and policies in the region. Discussions of a Regional Stormwater Authority to administer the adopted guidelines and policies holistically within the region/jurisdictions can be fostered.
 - c) Implementation of new standards began on February 1st, 2021. At this time Staff have been working with several contractors on new requirements. Staff continues to coordinate implementation efforts internally.
 - d) The technical subcommittee met on May 13th to review and provide comment on a list of comments provided to the Town of Bluffton.
3. Special presentation suggestions –
 - Suggestions for Future Meetings
 - Research performed by Dr. Montie – mid to late fall 2021
 - Beaufort County Legal - TBD
4. Military installation and other State and Federal properties SWU fees – See “Delinquent Accounts” below. Staff continues to work with GIS to update impervious area layers for the military installations.
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.
 - Two municipalities have submitted official letters stating they no longer wish for Beaufort County to pursue delinquent military fees on their behalf. Staff and the Legal department will be providing a brief to the County Administrator on the pending case in Delaware, similar to Beaufort County. Staff will go over legal ramifications of the municipalities request with the County Administrator at that time as well.

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

6. Reminder: Annual Financial report from the Municipalities are due – Per the Intergovernmental Agreements for the Utility, each year on September 30th, the City and Towns are required to submit a summary of revenue and expenditures for the previous fiscal year.
 - a) Beaufort County – Received.
 - b) Town of Hilton Head Island – Received.
 - c) Town of Bluffton – Received.
 - d) Town of Port Royal – Not received.
 - e) City of Beaufort – Not received.

Monitoring Update

1. Lab Update (From Dr. Alan Warren and Lab Manager Danielle Mickel)
 - i. No update at this time.

Stormwater Implementation Committee (SWIC) Report

1. County Staff will be working to provide CWI reports for each municipality upon the completion of the fiscal year.

Stormwater Related Projects

1. Easements – Staff is working on easement requests and meets monthly to review status. A few condemnations are still being pursued using outside legal counsel.
2. Complaints – Staff continually works numerous drainage related complaints each month.
 - a) Flyover bridge preventative maintenance and deferred maintenance repairs – Project was put out to bid on May 13th, with a Pre Bid meeting scheduled for June 3rd, and bid closing on June 15th.
 - b) Shell Point Community – Final report provided to staff on April 16th. Staff met with Town of Port Royal and Ms. Alice Howard on May 18th. IDC contract extended to August 31st so all public meeting responsibilities can be met.
3. Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park Subdivision (Design Cost \$49,873, Tree Mitigation Cost \$18,200 & \$18,200, Construction Cost by the Developer) – As built delivered, staff coordinating to obtain easements with property owner.
4. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = \$63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Coordinating land acquisition with legal department.
5. Graves Property / Pepper Hall Public / private partnership – Staff continues to work with Davis and Floyd, other departments, and property owner. No additional invoices received at this time. Staff spoke with property owner on May 25th to discuss budget.

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6. Whitehall property purchase –No updates at this time.
7. Lady’s Island Plan, Sea Level Rise, and “no-fill” ordinance – No updates at this time.

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 - Beaufort County MS4, OCRM, and SCDOT received. Beaufort County staff is trying to coordinate a meeting with the property owner to go over the project and gauge interest in participating.
 - b) Shanklin – USACE submittal underway. MS4, OCRM, and SCDOT submittals will be made as wetland impacts are finalized. Beaufort County Staff reached out to property owners on May 21st, 2021 and are awaiting response.
 - c) Brewer Memorial – Lowest, most responsive and responsible bidder has been chosen and will be presented at the Public Facilities Committee Meeting on June 21st, 2021.
2. Evergreen Regional Pond 319 grant project – (Design=\$89,286, Construction=\$590,000. Grant=\$229,124) – Construction started.
3. Stormwater engineering consulting services – Staff continues working with consultant on Scope #3, staff also coordinating Scope #4 for tax run assistance if needed.

Regional Coordination

1. Mossy Oaks Task Force – County working with USCB to begin water quality monitoring efforts.
2. May River Watershed Modeling – No updates at this time.

Municipal Reports

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

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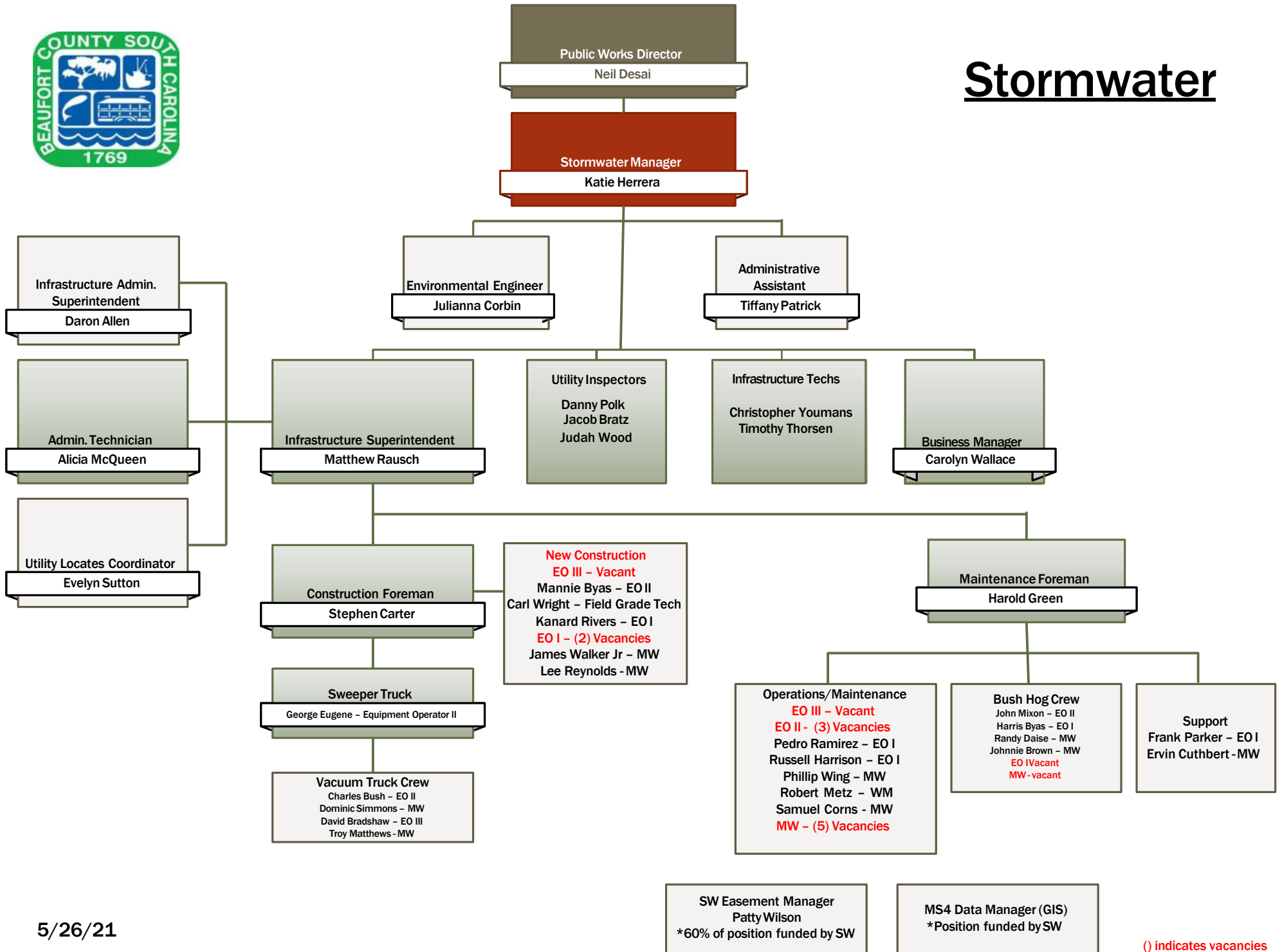
3. City of Beaufort (From Nate Farrow, Public Works Director)
 - i. No information was available at the time of this report.
4. Town of Port Royal (From Van Willis, Town Manager and Tony Maglione, consultant)
 - i. No information was available at the time of this report.

MS4 Report

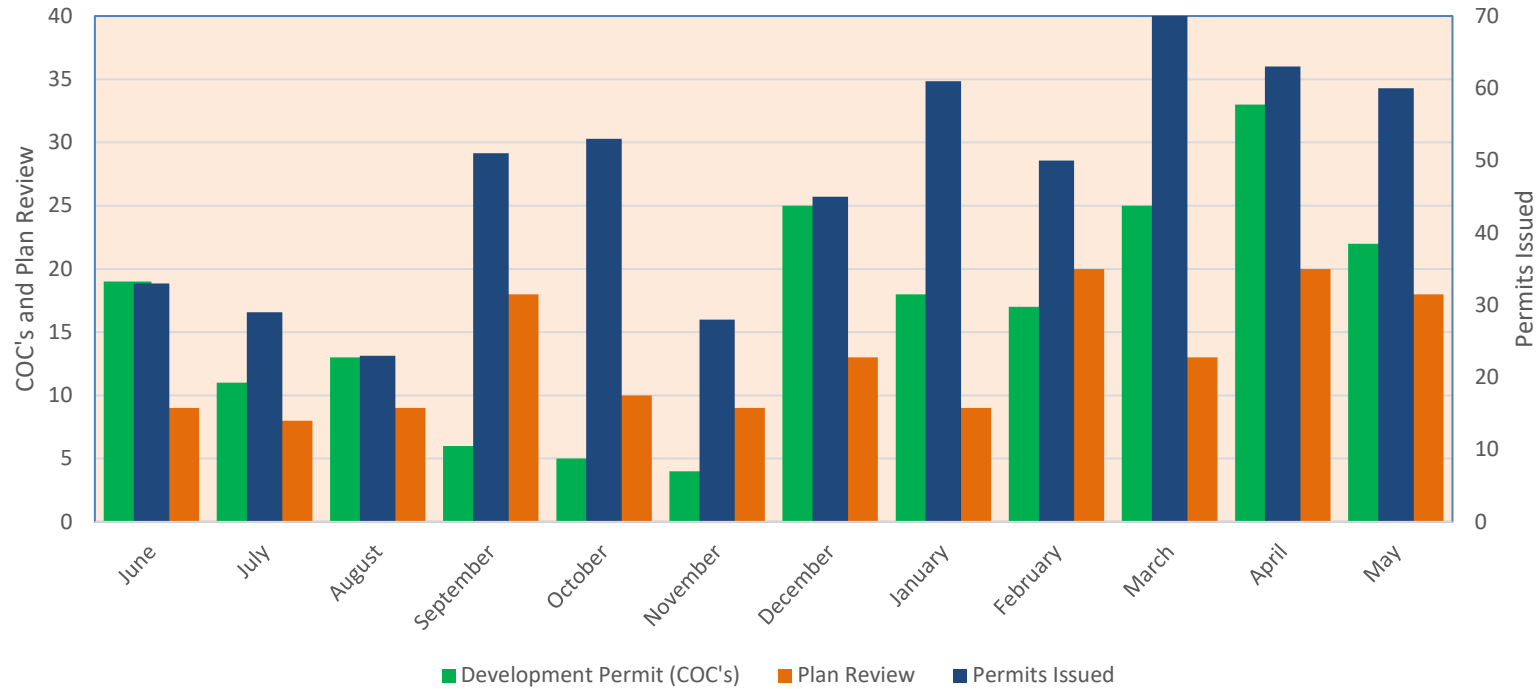
1. Plan Review – [See the attached chart](#) for Beaufort County Stormwater staff plan review workload for the past 12 months.
2. Stormwater Permits – [See the attached chart](#) for Beaufort County Stormwater permits issued for the past 12 months.
3. Monthly Inspection summary - [See the attached chart](#) for Beaufort County Stormwater staff inspection, complaint, IDDE, and violations summary for the past 12 months.
4. Weather Station Data. [See attached report.](#)
5. Public Education – [See attached report.](#)
6. Energov permitting software – Staff to continue to test and provide feedback to Energov Implementation team, current scheduled implementation date pushed until Sep/Oct.
7. MS4 Statewide General permit – No further update at this time.



Stormwater

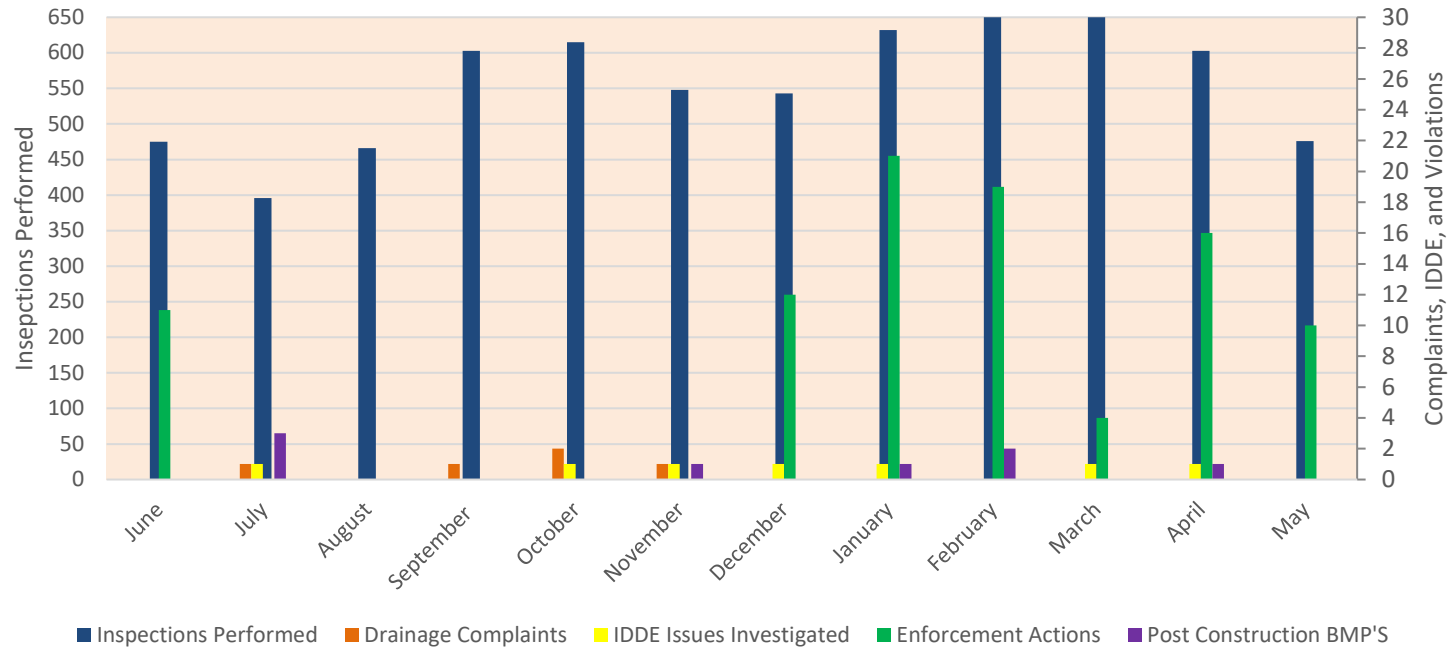


MS4 Minimum Control Measure #5 Stormwater Plan Review



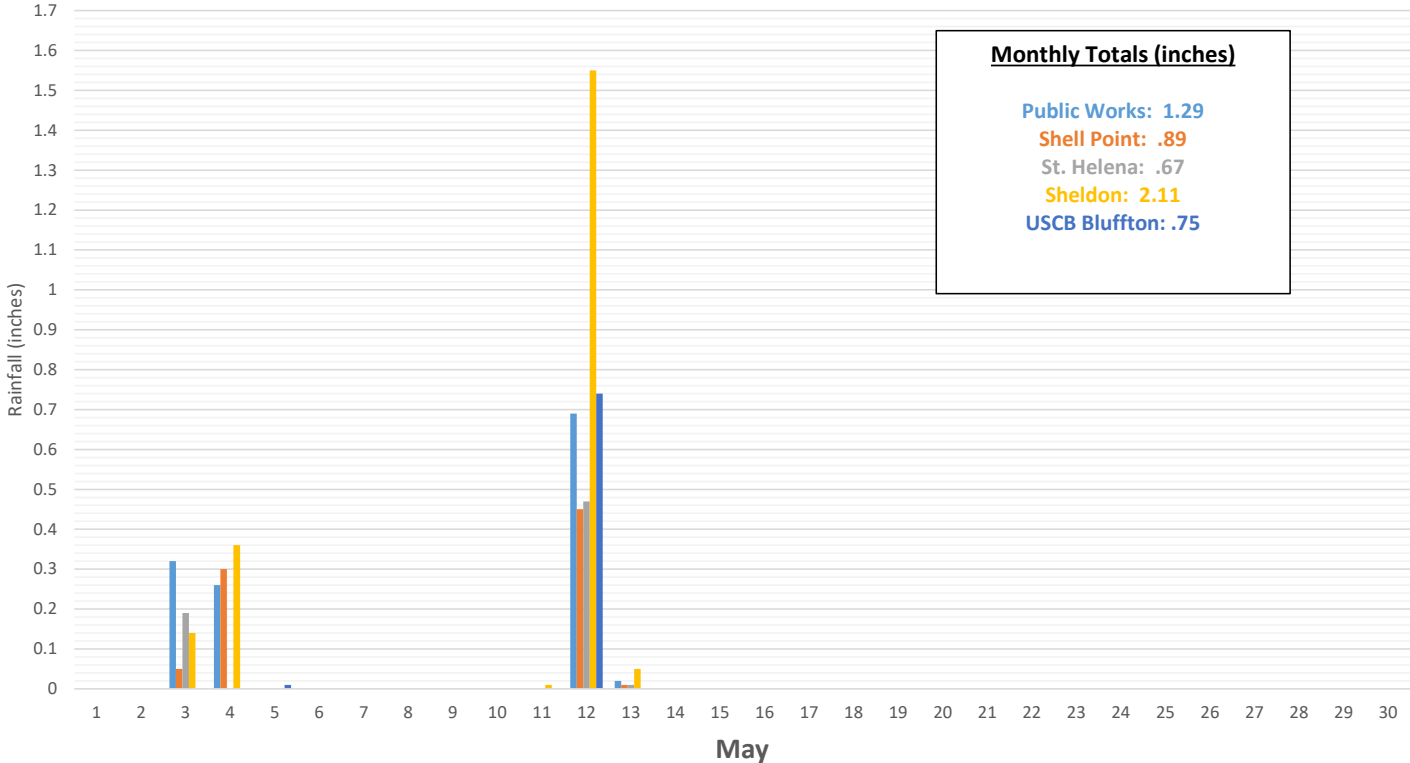
TYPE	June	July	August	September	October	November	December	January	February	March	April	May	Last 12 Months
Development Permit (COC's)	19	11	13	6	5	4	25	18	17	25	33	22	198
Plan Review	9	8	9	18	10	9	13	9	20	13	20	18	156
Permits Issued	33	29	23	51	53	28	45	61	50	75	63	60	571

MS4 Minimum Control Measure #4 Erosion Sediment Control Inspections



TYPE	June	July	August	September	October	November	December	January	February	March	April	May	Last 12 Months
Inspections Performed	475	396	466	603	615	548	543	632	724	794	603	476	6875
Drainage Complaints	0	1	0	1	2	1	0	0	0	0	0	0	5
IDDE Issues Investigated	0	1	0	0	1	1	1	1	0	1	1	0	0
Enforcement Actions	11	0	0	0	0	0	12	21	19	4	16	10	93
Post Construction BMP'S	-	3	-	-	-	1	0	1	2	0	1	0	9

Beaufort County Weather Stations Daily Rainfall Amounts - May 2021



Lowcountry Stormwater Partners (LSP) Monthly Report
5/1/21 – 5/31/21

Completed Stormwater Outreach/Involvement Activities:

- Being a Neighbor for Clean Water: SC Water Resources
 - 4/6/216, online, 18 attendees. 5 individuals turned in an evaluation. 100% said that the program was a good use of their time, 100% indicated that they gained knowledge, and 20% indicated that they would apply a practice learned.
- Being a Neighbor for Clean Water: Understanding My Water, My Responsibilities
 - 4/8/21, online, 15 attendees. 4 individuals turned in an evaluation. 100% said that the program was a good use of their time, 100% indicated that they gained knowledge, and 75% indicated that they would apply a practice learned.
- Being a Neighbor for Clean Water: Water Use
 - 4/13/21, online. 10 attendees. 8 individuals turned in an evaluation. 100% said that the program was a good use of their time, 100% indicated that they gained knowledge, and 62.5% indicated that they would apply a practice learned.
- Being a Neighbor for Clean Water: Waterwise Landscaping
 - 4/15/21, online, 7 attendees. 1 individual turned in an evaluation. 100% said that the program was a good use of their time, 100% indicated that they gained knowledge, and 100% indicated that they would apply a practice learned.
- Being a Neighbor for Clean Water: Managing Water in the Home Landscape
 - 4/20/21, online, 5 attendees. 1 individual turned in an evaluation. 100% said that the program was a good use of their time, 100% indicated that they gained knowledge, and 100% indicated that they would apply a practice learned.
- Being a Neighbor for Clean Water: Native Plants
 - 4/22/21, online, 7 attendees. An evaluation was provided, but no attendees filled it out.
- Being a Neighbor for Clean Water: Healthy Ponds, Healthy Communities
 - 4/27/21, online, 6 attendees. 2 individuals turned in an evaluation. 100% said that the program was a good use of their time, 100% indicated that they gained knowledge, and 0% indicated that they would apply a practice learned.
- Being a Neighbor for Clean Water: Using Citizen Science to Become a Neighbor for Clean Water
 - 4/29/21, online, 4 attendees. 2 individuals turned in an evaluation. 100% said that the program was a good use of their time, 100% indicated that they gained knowledge, and 0% indicated that they would apply a practice learned.
- That's MY Truck Coloring Contest
 - The contest completed running and submissions are being gathered for judging. Winners will be announced soon.
- South Carolina Saltwater Adopt-A-Stream Trainer Certification
 - Ellen Sturup Comeau studied for and passed the certification test to become a trainer in this program. She will be working with two other certified trainers to launch the SC Adopt-A-Stream program in Beaufort County.

Ongoing Stormwater Outreach/Involvement Activities:

- Rain Barrel Sale
 - Ongoing, [flyer](#), [website](#)
- Healthy Pond Series: The Ups and Downs of Dredging
 - 6/10/21, online, [flyer](#), [registration](#)
- Be Septic Safe Webinar
 - 6/10/21, online, [flyer](#), [registration](#)
- Flooding 411 Webinar Series
 - July/August, online, flyer, registration coming soon
- Mossy Oaks Rain Garden Workshop
 - The school district has approved the plans and I am coordinating to see how installation could be done in the fall.
- Septic System Resources
 - The sub-committee drafted four factsheets which are currently undergoing the peer-review process. They will hopefully be published on the Clemson HGIC in August.
- Creation of an HOA Direct Mailing List
 - I began creating a list of mailing addresses for existing HOAs/PUDs to send pond training announcements and an invitation to join the Big News for Small Ponds listserv.
- Direct Contacts
 - During this time frame, I helped four (4) individuals who directly contacted me. Two clients had a question about soil samples, one client needed assistance with flooding, and one had a question about pond resources.
 - 8, phone call and email
- LSP Facebook page
 - The LSP Facebook page serves to engage and involve citizens in water-quantity and water-quality information. I also use the Facebook page to announce local, regional, and state-wide events.
 - 307 Likes

Planned Stormwater Outreach/Involvement Activities:

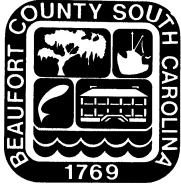
- LSP Changing Tides Newsletter
 - The Changing Tides is an informative publication for the general public. It includes a small article on a stormwater-related topic and information on past, current, and future events.
 - 6/3/20, online

Other Activities for Strategic Plan Compliance:

- Pet Waste Station Map
- Small grants program
- Septic media campaign
- 2021 Beaufort Area Stormwater Pond Conference
- Soil sample post cards and placards for retailers
- Soil sample bag distribution
- Buffer workshop
- Promotional seed packet
- Native plant distributor list
- Native plant signage
- Construction Site Social Media Campaign
- LID Lunch-and-Learns
- BMP workshop for homeowners
- BMP survey

Completed Strategic Plan Items:

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



MEMORANDUM

Date: June 09, 2021

To: Stormwater Management Utility Board

From: Matthew Rausch, Stormwater Infrastructure Superintendent

Re: **Maintenance Project Report**

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

Major Project:

- **LH Nelson Drive Subdivision – Port Royal Island (SWUD 6):** This project improved 8,738 feet of drainage system. The scope of work included sweeping 8,738 feet of road, removing blockage from flowline, cleaning out 4,700 feet of roadside ditch, jetting 2 catch basins, 3 access pipes, 6 crossline pipes and 38 driveway pipes. The total cost was **\$18,920.77**.

Minor or Routine Projects:

- **Graves Road – Bluffton (SWUD 4):** This project improved 746 feet of drainage system. The scope of work included cleaning out 746 feet of roadside ditch, installing 1 driveway pipe, replacing 1 driveway pipe, and jetting 6 driveway pipes. The total cost was **\$12,650.51**.
- **St. Helena Island Valley Drains (SWUD 8):** This project improved 46,042 feet of drainage system. The scope of work included cleaning out 46,042 feet of valley drains. The total cost was **\$11,211.75**.
- **Scott Hill Road Channel #1 – St. Helena Island (SWUD 8):** The scope of work included installing 2 bleeder pipes and rip rap for erosion control. The total cost was **\$6,268.71**.
- **Telfair Subdivision – Purrysburg Drive – Lady's Island (SWUD 7):** This project improved 528 feet of drainage system. The scope of work included cleaning out 528 feet of roadside ditch, jetting 6 driveway pipes and 1 crossline pipe. The total cost was **\$3,756.57**.

- **Dash Road – Sheldon (SWUD 5):** This project improved 610 feet of drainage system. The scope of work included cleaning out 100 feet of channel, 510 feet of roadside ditch, jetting 2 access pipes, 1 crossline pipe and 1 driveway pipe. The total cost was **\$2,720.91**.
- **George Williams Lane Channel #1 – Sheldon (SWUD 5):** This project improved 353 feet of drainage system. The scope of work included cleaning out 353 feet of channel and jetting 2 crossline pipes. The total cost was **\$1,319.01**.
- **Ephraim Road Channel – St. Helena Island (SWUD 8):** This project improved 810 feet of drainage system. The scope of work included cleaning out 810 feet of channel. The total cost was **\$1,278.00**.
- **Sea Island Parkway Channel – St. Helena Island (SWUD 8):** This project improved 513 feet of drainage system. The scope of work included cleaning out 513 feet of channel. The total cost was **\$924.43**.



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: LH Nelson Drive Subdivision - LH Nelson Drive, Hale Drive, Jefferson Drive and Grant Street

Activity: Routine/Preventive Maintenance

Duration: 12/22/20 - 03/09/21

Narrative Description of Project:

Project improved 8,738 L.F. of drainage system. Road swept 8,738 L.F. Removed blockage from flowline. Cleaned out 4,700 L.F. of roadside ditch. Jetted (2) catch basins, (3) access pipes, (6) crossline pipes and (38) driveway pipes.

2021-526 / LH Nelson Drive

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
CBCO / Catch basin - clean out	24.0	\$512.40	\$341.36	\$72.08	\$0.00	\$229.44	\$1,155.28
CLPJT / Crossline Pipe - Jetted	24.0	\$530.28	\$306.56	\$86.30	\$0.00	\$197.64	\$1,120.78
RDSW / Street/Road Sweep	48.0	\$1,025.92	\$366.88	\$83.08	\$0.00	\$211.68	\$1,687.56
DEBREM / Debris Removal - Jobsite	8.0	\$164.40	\$74.57	\$4.40	\$0.00	\$50.88	\$294.25
DPJT / Driveway Pipe - Jetted	92.0	\$2,045.18	\$1,365.28	\$347.34	\$0.00	\$934.80	\$4,692.60
HAUL / Hauling	78.0	\$1,714.02	\$1,486.68	\$332.20	\$0.00	\$432.60	\$3,965.50
RSDCL / Roadside Ditch - Cleanout	182.0	\$3,895.16	\$947.10	\$271.67	\$0.00	\$820.26	\$5,934.19
UTLOC / Utility locates	1.0	\$24.70	\$0.00	\$0.00	\$0.00	\$13.23	\$37.93
2021-526 / LH Nelson Drive Project Sub Total	458.5	\$9,944.74	\$4,888.43	\$1,197.07	\$0.00	\$2,890.53	\$18,920.77
Grand Total	458.5	\$9,944.74	\$4,888.43	\$1,197.07	\$0.00	\$2,890.53	\$18,920.77

Before



During



Ending





Project: LH Nelson Drive Subdivision - LH Nelson Drive and Hale Drive Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2021-526

Township/SW Dist: Port Royal Island/6

Completed: March 2021

0 45 90 180 270 360 Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/06/21

File: C:\project summaries map\LH Nelson Drive S/D- LH Nelson Dr. and Hale Dr. Map #1_2021-526

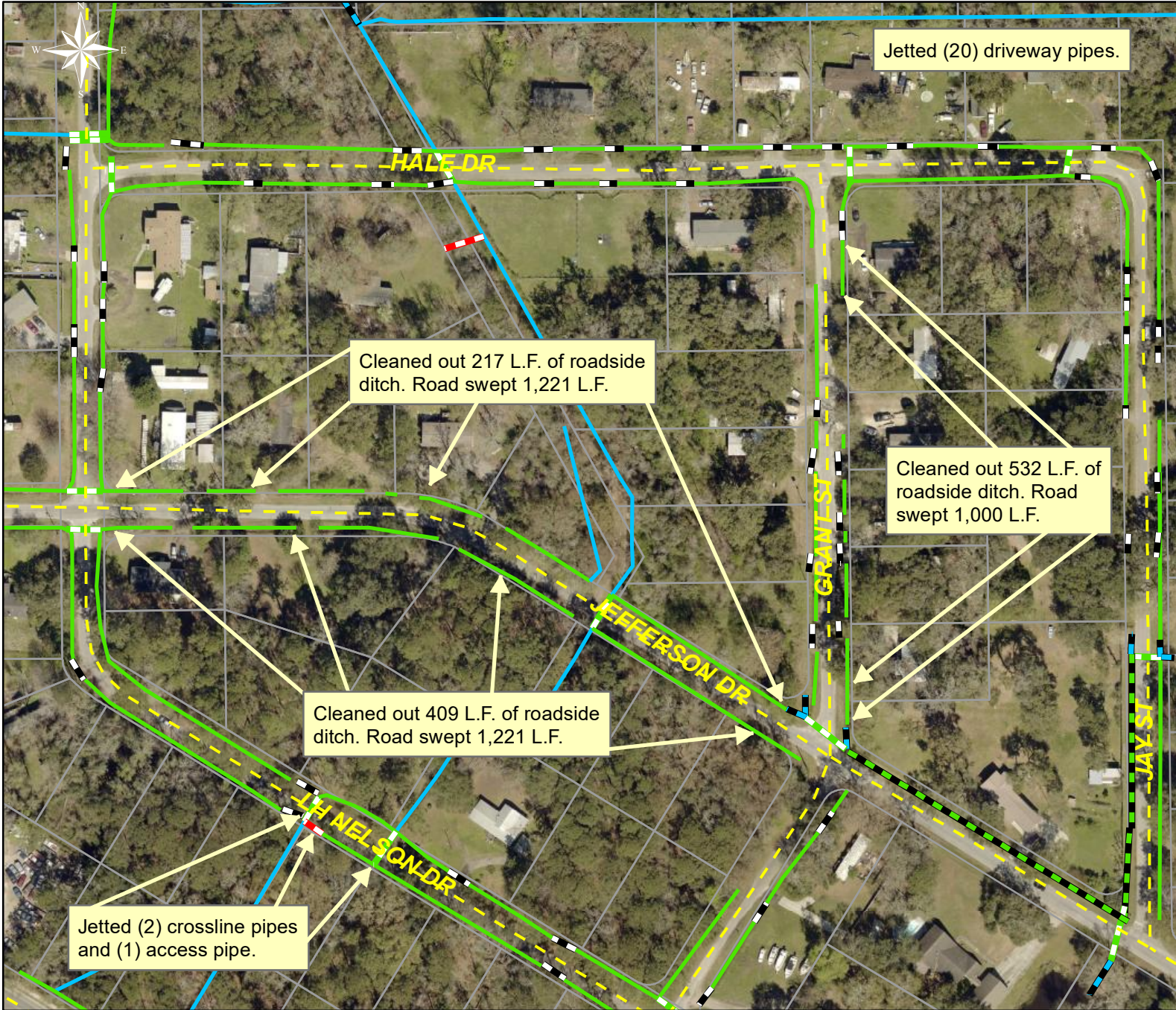
Project: LH Nelson Drive Subdivision - Jefferson Drive and Grant Street Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2021-526

Township/SW Dist: Port Royal Island/6

Completed: March 2021



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



1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/06/21

File: C:\project summaries map\LH Nelson Drive S/D- Jefferson St. and Grant Dr. Map #2_2021-526

Project: LH Nelson Drive Subdivision - Jefferson Drive and Grant Street Map #3

Activity: Routine/ Preventive Maintenance

Project #: 2021-526

Township/SW Dist: Port Royal Island/6

Completed: March 2021



Legend

Drainage Type

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



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/08/21

File: C:\project summaries map\LH Nelson Drive S/D- Jefferson Dr. and Grant St. Map #3_2021-526



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Graves Road

Activity: Routine/Preventive Maintenance

Duration: 02/18/20 - 03/02/2021

Narrative Description of Project:

This project improved 746 L.F. of drainage system. Cleaned out 746 L.F. of roadside ditch. Installed (1) driveway pipe and replaced (1) driveway pipe. Jetted (6) driveway pipes.

2021-532 / Graves Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
DPJT / Driveway Pipe - Jetted	68.0	\$1422.04	\$611.25	\$899.66	\$0.00	\$555.84	\$3488.79
DPRPL / Driveway Pipe - Replaced	40.0	\$810.64	\$197.88	\$2443.06	\$0.00	\$407.04	\$3,858.62
HAUL / Hauling	56.0	\$1250.96	\$1067.36	\$239.53	\$0.00	\$346.08	\$2903.93
RSDCL / Roadside Ditch - Cleanout	64.0	\$1284.32	\$289.49	\$114.42	\$0.00	\$602.40	\$2,290.63
UTLOC / Utility locates	2.0	\$49.40	\$0.00	\$0.00	\$0.00	\$26.46	\$75.86
2021-532 / Graves Road Project Sub Total	231.5	\$4,850.05	\$2165.98	\$3696.66	\$0.00	\$1,937.82	\$12,650.51
Grand Total	231.5	\$4,850.05	\$2,165.98	\$3,696.66	\$0.00	\$1,937.82	\$12,650.51

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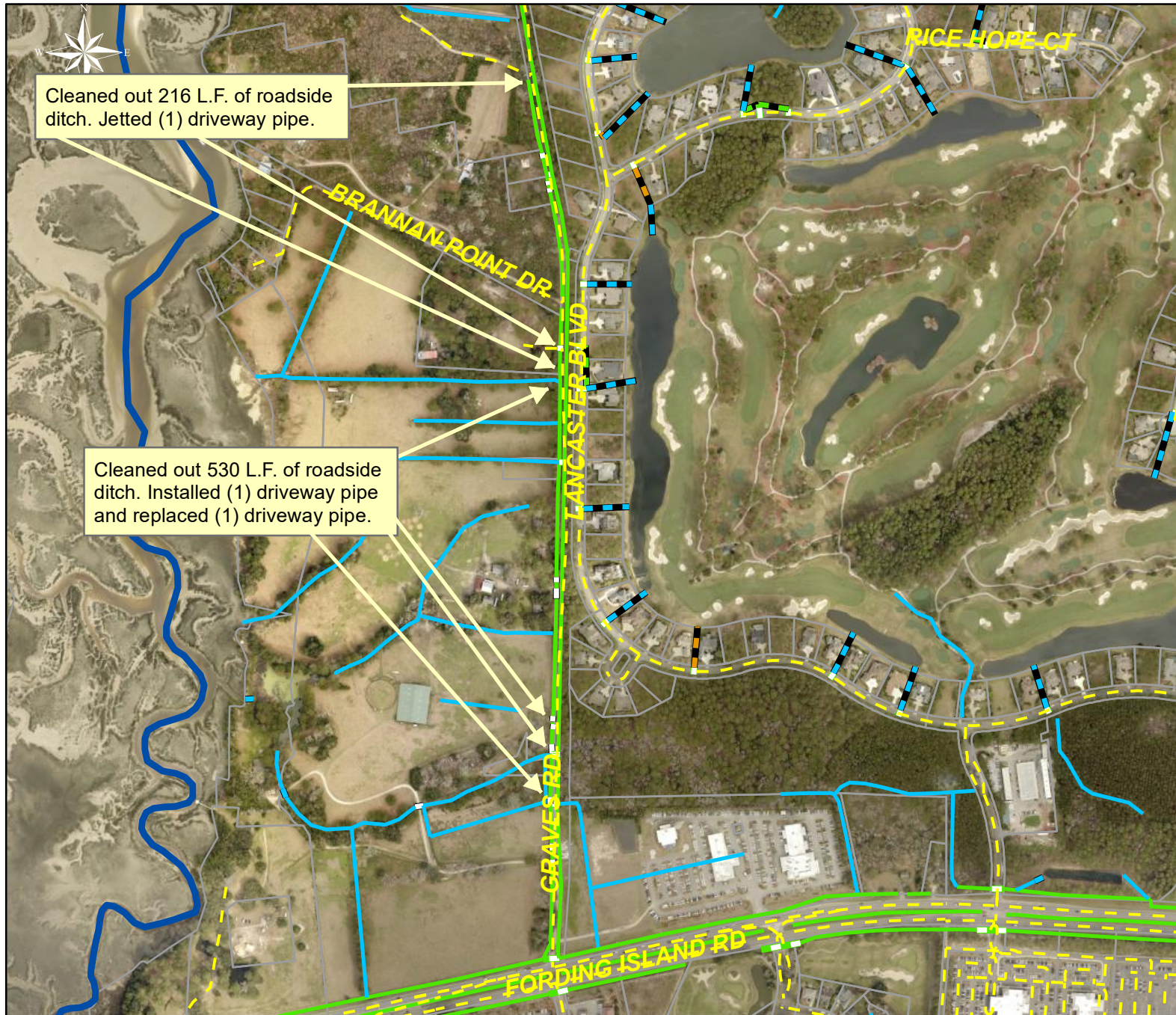
Project: Graves Road Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2021-532

Township/SW Dist: Bluffton/4

Completed: March 2021



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



1 inch = 670 feet

Prepared By: BC Stormwater Management Utility

Date Print:03/29/21

File:C:\project summaries map\Graves Road Map #1_2021-532



Project: Graves Road Map #2

Activity: Routine/ Preventive Maintenance

Project #: 2021-532

Township/SW Dist: Bluffton/4

Completed: March 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

0 100 200 400 600 800 Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 03/29/21

File: C:\project summaries map\Graves Road Map #2_2021-532



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: St. Helena Island Valley Drains- Tombee Road, White Sands Circle, First Coleman Road, Sycamore Hill Drive, Chisholm Road, Vineyard Point Road, No Man Land Road, Hunters Grove Road, Gardner Drive and Glover Road

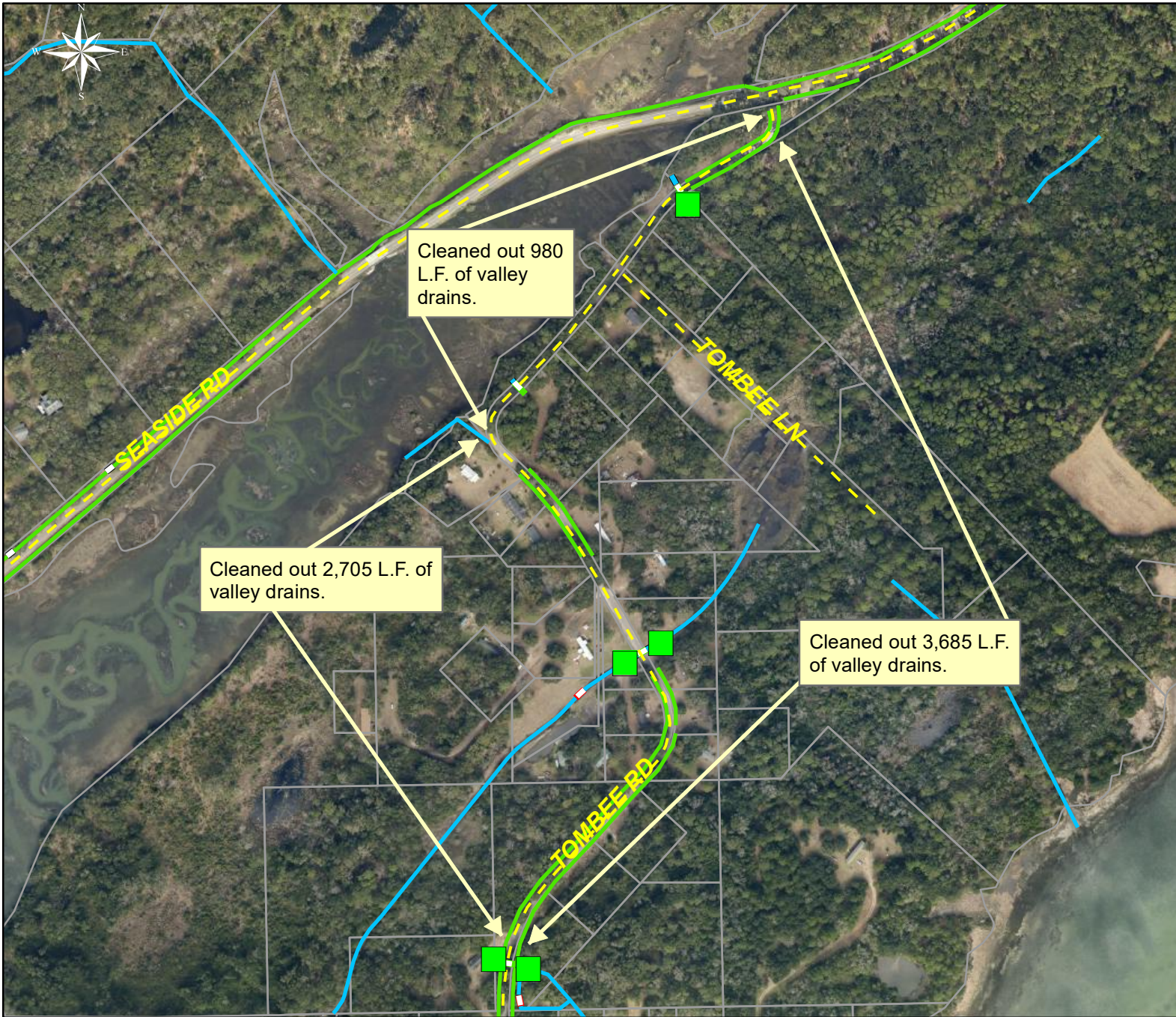
Activity: Routine/Preventive Maintenance
Duration: 04/22/20 - 05/11/20

Narrative Description of Project:

Project improved 46,042 L.F. of drainage system. Cleaned out 46,042 L.F. of valley drains. This project consisted of the following area: Tombee Road (7,370 L.F.), White Sands Circle (1,180 L.F.) First Coleman Road (2,636 L.F.), Sycamore Hill Drive (1,132 L.F.), Chisholm Road (1,456 L.F.), Vineyard Point Road (8,088 L.F.), No Man Land Road (960 L.F.), Hunters Grove Road (3,860 L.F.), Gardner Drive (17,740 L.F.), and Glover Road 1,620 L.F.)

2020-312 / St Helena Island Valley Drains	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
COVD / Cleaned Out Valley Drains	230.0	\$4,714.50	\$855.10	\$324.70	\$0.00	\$2,065.80	\$7,960.10
HAUL / Hauling	75.0	\$1,655.77	\$1,062.00	\$155.12	\$0.00	\$346.08	\$3,218.97
2020-312 / St Helena Island Valley Drains Project Sub	306.5	\$6,402.96	\$1,917.10	\$479.82	\$0.00	\$2,411.88	\$11,211.75
Grand Total	306.5	\$6,402.96	\$1,917.10	\$479.82	\$0.00	\$2,411.88	\$11,211.75

(No Pictures Available)



Project: St. Helena Island Valley Drains - Tombee Road Map #1

Activity: Routine/ Preventive Maintenance

Project #: 2020-312

Township/SW Dist: St. Helena Island/8

Completed: May 2020

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

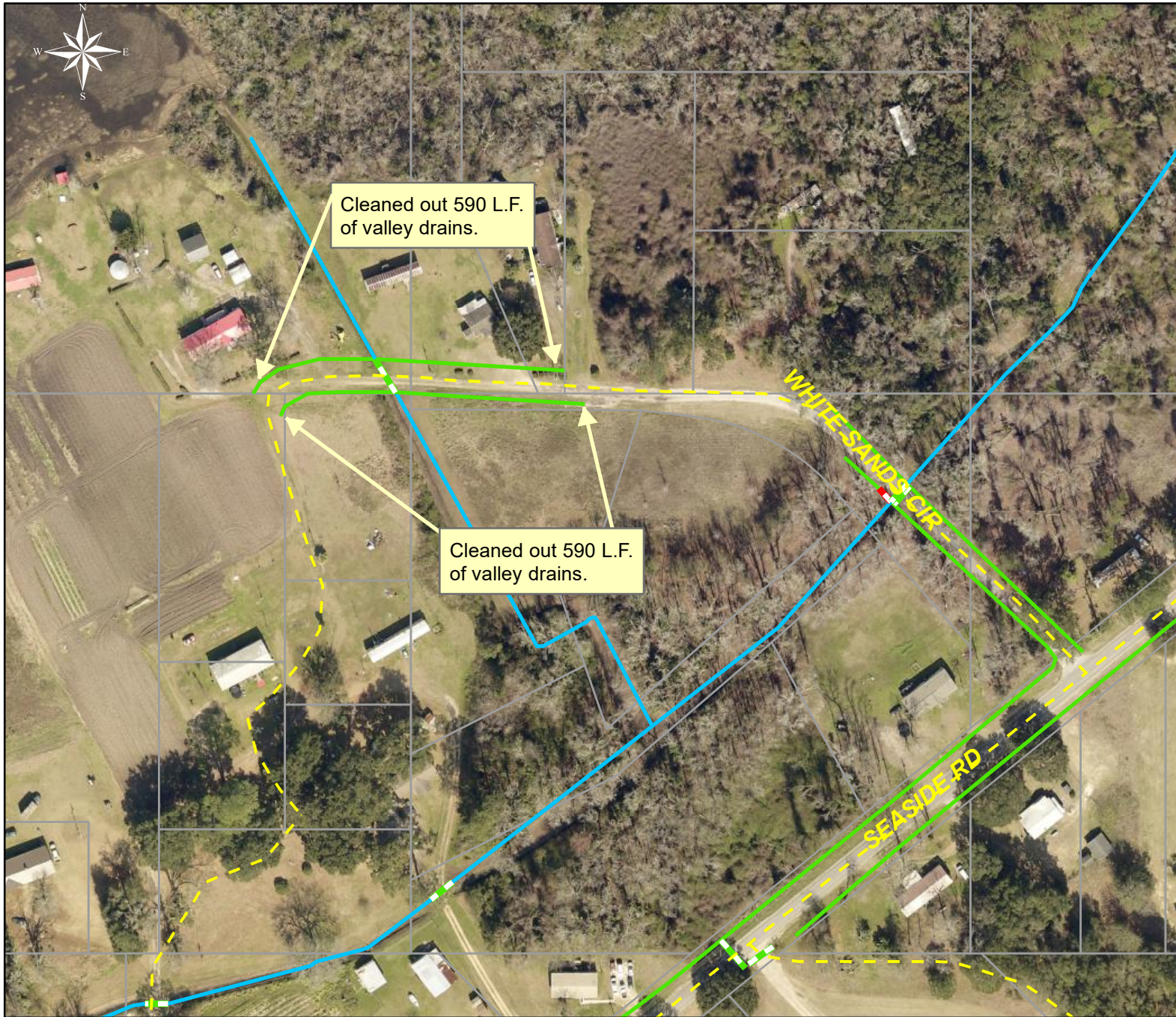


1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/07/21

File: C:\project summaries map\SHI Valley Drains- Tombee Road Map #1_2020-312



Project: St. Helena Island Valley Drains - White Sands Circle Map #2

Activity: Routine/ Preventive Maintenance














Project #: 2020-312

Township/SW Dist: St. Helena Island/8

Completed: May 2020

Legend

Drainage Type

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

0 30 60 120 180 240
 Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/07/21

File: C:\project summaries map\SHI Valley Drains- White Sands Circle Map #2_2020-312



Project: St. Helena
Island Valley Drains -
First Coleman Road
Map #3

Activity: Routine/
Preventive
Maintenance














Project #:
2020-312

Township/SW Dist:
St. Helena Island/8

Completed:
May 2020

Legend

Drainage Type

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

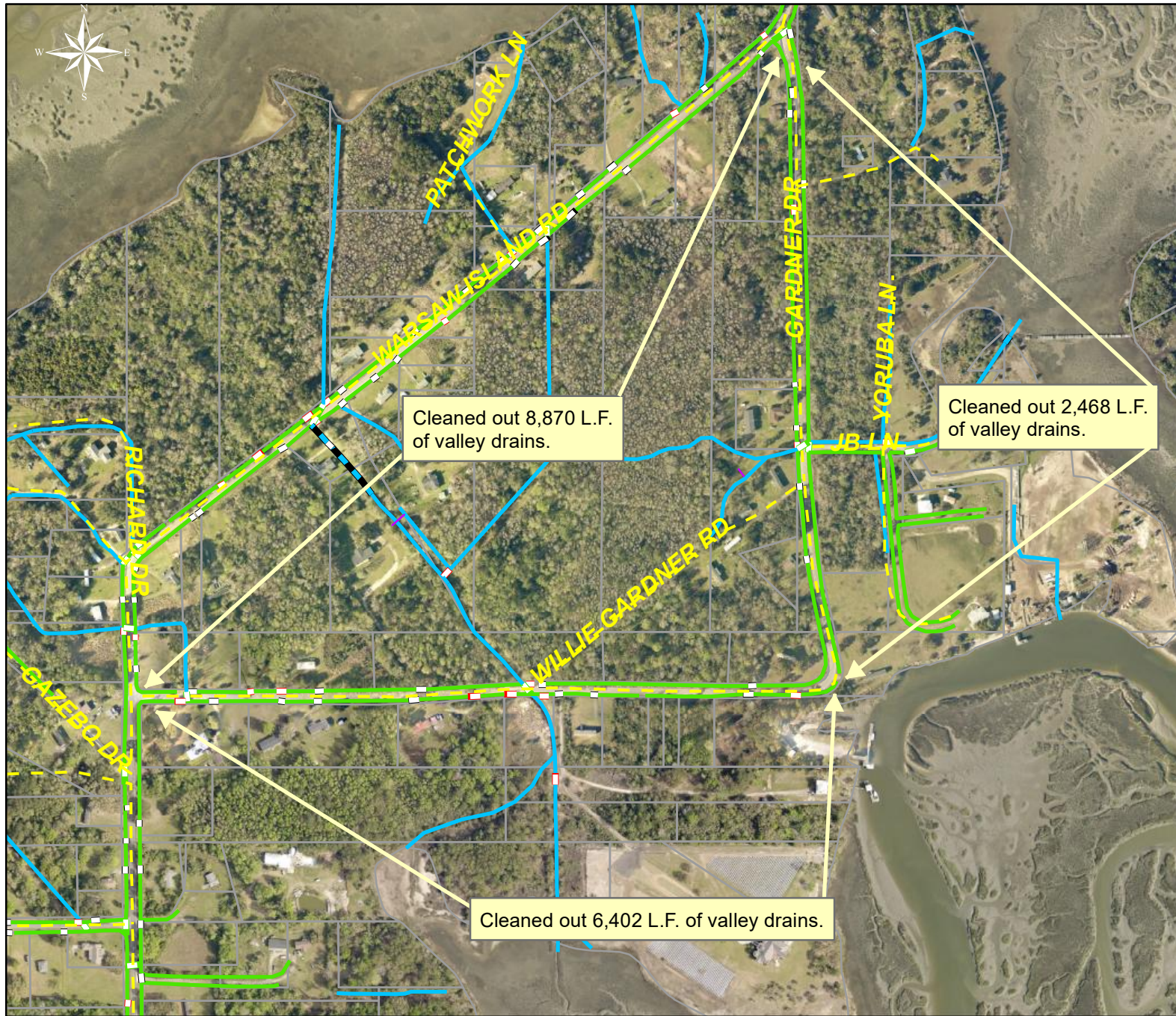
0 45 90 180 270 360
Feet

1 inch = 270 feet

Prepared By: BC Stormwater Management Utility

Date Print:04/07/21

File:C:\project summaries map\SHI Valley Drains- First Coleman Road Map #3_2020-312



Project: St. Helena
Island Valley Drains -
Gardner Drive
Map #4

Activity: Routine/
Preventive
Maintenance














Project #:
2020-312

Township/SW Dist:
St. Helena Island/8

Completed:
May 2020

Legend

Drainage Type

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

0 90 180 360 540 720
Feet

1 inch = 500 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/07/21

File: C:\project summaries map\SHI Island Valley Drains- Gardner Drive Map #4_2020-312



Project: St. Helena
Island Valley Drains -
Chisholm Road
Map #5

Activity: Routine/
Preventive
Maintenance














Project #:
2020-312

Township/SW Dist:
St. Helena Island/8

Completed:
May 2020

Legend

Drainage Type

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

0 4080 160 240 320
Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/07/21

File: C:\project summaries map\SHI Valley Drains- Chisholm Road Map #5_2020-312



Project: St. Helena Island Valley Drains - Vineyard Point Road Map #6

Activity: Routine/ Preventive Maintenance

Project #: 2020-312

Township/SW Dist: St. Helena Island/8

Completed: May 2020

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



1 inch = 420 feet

Prepared By: BC Stormwater Management Utility
Date Print: 02/22/21

File: C:\project summaries map\SHI Valley Drains- Vineyard Point Road Map #6_2020-312



Project: St. Helena Island Valley Drains - No Man Land Road Map #7

Activity: Routine/ Preventive Maintenance

Project #: 2020-312

Township/SW Dist: St. Helena Island/8

Completed: May 2020

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

0 25 50 100 150 200 Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print:02/22/21

File:C:\project summaries map\SHI Valley Drains- No Man Land Road Map #7_2020-312



Project: St. Helena
Island Valley Drains -
Hunters Grove Road
Map #8

Activity: Routine/
Preventive
Maintenance

Project #:
2020-312

Township/SW Dist:
St. Helena Island/8

Completed:
May 2020

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

0 85 170 340 510 680
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/07/21

File: C:\project summaries map\SHI Valley Drains- Hunters Grove Road Map #8_2020-312



Project: St. Helena
Island Valley Drains -
Glover Road
Map #9

Activity: Routine/
Preventive
Maintenance














Project #:
2020-312

Township/SW Dist:
St. Helena Island/8

Completed:
May 2020

Legend

Drainage Type

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

0 85 170 340 510 680
Feet

1 inch = 420 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/07/21

File: C:\project summaries map\SHI Valley Drains- Glover Road Map #9_2020-312



Project: St. Helena Island Valley Drains - Sycamore Hill Drive Map #10

Activity: Routine/ Preventive Maintenance

Project #: 2020-312

Township/SW Dist: St. Helena Island/8

Completed: May 2020

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

0 30 60 120 180 240 Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/09/21

File: C:\project summaries map\SHI Valley Drains- Sycamore Hill Drive Map #10_2020-312



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Scott Hill Road Channel #1

Activity: Routine/Preventive Maintenance

Duration: 03/09/21 - 03/16/21

Narrative Description of Project:

Installed (2) bleeder pipes and rip rap for erosion control.

2021-533 / Scott Hill Channel #1

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
BPINST / Bleeder pipe - Installed	21.0	\$450.91	\$110.04	\$324.22	\$0.00	\$285.87	\$1,171.04
DEBREM / Debris Removal - Jobsite	56.0	\$1,234.00	\$303.12	\$163.92	\$0.00	\$678.72	\$2,379.76
HAUL / Hauling	36.0	\$808.44	\$686.16	\$148.30	\$0.00	\$0.00	\$1,642.90
RRI / Rip Rap - Installed	24.0	\$540.48	\$183.36	\$91.78	\$0.00	\$237.60	\$1,053.22
2021-533 / Scott Hill Channel #1 Project Sub Total	138.0	\$3,055.62	\$1,282.68	\$728.22	\$0.00	\$1,202.19	\$6,268.71
Grand Total	138.0	\$3,055.62	\$1,282.68	\$728.22	\$0.00	\$1,202.19	\$6,268.71

(Before)



(During)



(Ending)





Project: Scott Hill Road Channel #1

Activity: Routine/ Preventive Maintenance

Project #: 2021-533

Township/SW Dist: St. Helena Island/8

Completed: March 2021

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



1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print: 03/29/21

File: C:\project summaries map\Scott Hill Road Channel #1_2021-533



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Telfair Subdivision - Purrysburg Drive

Activity: Routine/Preventive Maintenance

Duration: 06/20/20 - 03/01/21

Narrative Description of Project:

This project improved 528 L.F. of drainage system. Cleaned out 528 L.F. of roadside ditch. Jetted (6) driveway pipes and (1) crossline pipe.

2021-500 / Telfair Subdivision Purrysburg Drive

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
DPJT / Driveway Pipe - Jetted	55.0	\$1,269.37	\$624.15	\$175.84	\$0.00	\$345.87	\$2,415.23
HAUL / Hauling	8.0	\$174.32	\$152.48	\$63.80	\$0.00	\$0.00	\$390.60
RSDCL / Roadside Ditch - Cleanout	24.0	\$512.96	\$135.12	\$50.34	\$0.00	\$105.84	\$804.26
UTLOC / Utility locates	3.0	\$74.10	\$0.00	\$0.00	\$0.00	\$39.69	\$113.79
2021-500 / Telfair Subdivision Purrysburg Drive Project Sub Total	91.5	\$2,063.44	\$911.75	\$289.98	\$0.00	\$491.40	\$3,756.57
Grand Total	91.5	\$2,063.44	\$911.75	\$289.98	\$0.00	\$491.40	\$3,756.57

(Before)



(During)



(Ending)

(No Picture Available)



Project: Telfair
Subdivision -
Purrysburg Drive

Activity: Routine/
Preventive
Maintenance

Project #:
2021-500

Township/SW Dist:
Lady's Island/7

Completed:
March 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

Cleaned out 129 L.F. of roadside ditch. Jetted (1) driveway pipe.

Cleaned out 399 L.F. of roadside ditch. Jetted (5) driveway pipes and (1) crossline pipe.

0 40 80 160 240 320
Feet

1 inch = 210 feet

Prepared By: BC Stormwater Management Utility

Date Print:03/16/21

File:C:\project summaries map\Telfair Subdivision- Purrysburgh Drive_2021-500



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Dash Road

Activity: Routine/Preventive Maintenance

Duration: 02/05/21-02/23/21

Narrative Description of Project:

This project improved 610 L.F. of drainage system. Removed blockages from flowline. Cleaned out 100 L.F. of channel and 510 L.F. of roadside ditch. Jetted (2) access pipes, (1) crossline pipe and (1) driveway pipe.

2021-528 / Dash Road	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.5	\$32.69	\$0.00	\$0.00	\$0.00	\$0.00	\$32.69
DPJT / Driveway Pipe - Jetted	16.0	\$356.48	\$306.56	\$53.80	\$0.00	\$229.44	\$946.28
HAUL / Hauling	12.0	\$261.48	\$228.72	\$50.44	\$0.00	\$0.00	\$540.64
RSDCL / Roadside Ditch - Cleanout	36.0	\$769.44	\$177.60	\$57.57	\$0.00	\$158.76	\$1,163.37
UTLOC / Utility locates	1.0	\$24.70	\$0.00	\$0.00	\$0.00	\$13.23	\$37.93
2021-528 / Dash Road Project Sub Total	66.5	\$1,444.79	\$712.88	\$161.81	\$0.00	\$401.43	\$2,720.91
Grand Total	66.5	\$1,444.79	\$712.88	\$161.81	\$0.00	\$401.43	\$2,720.91

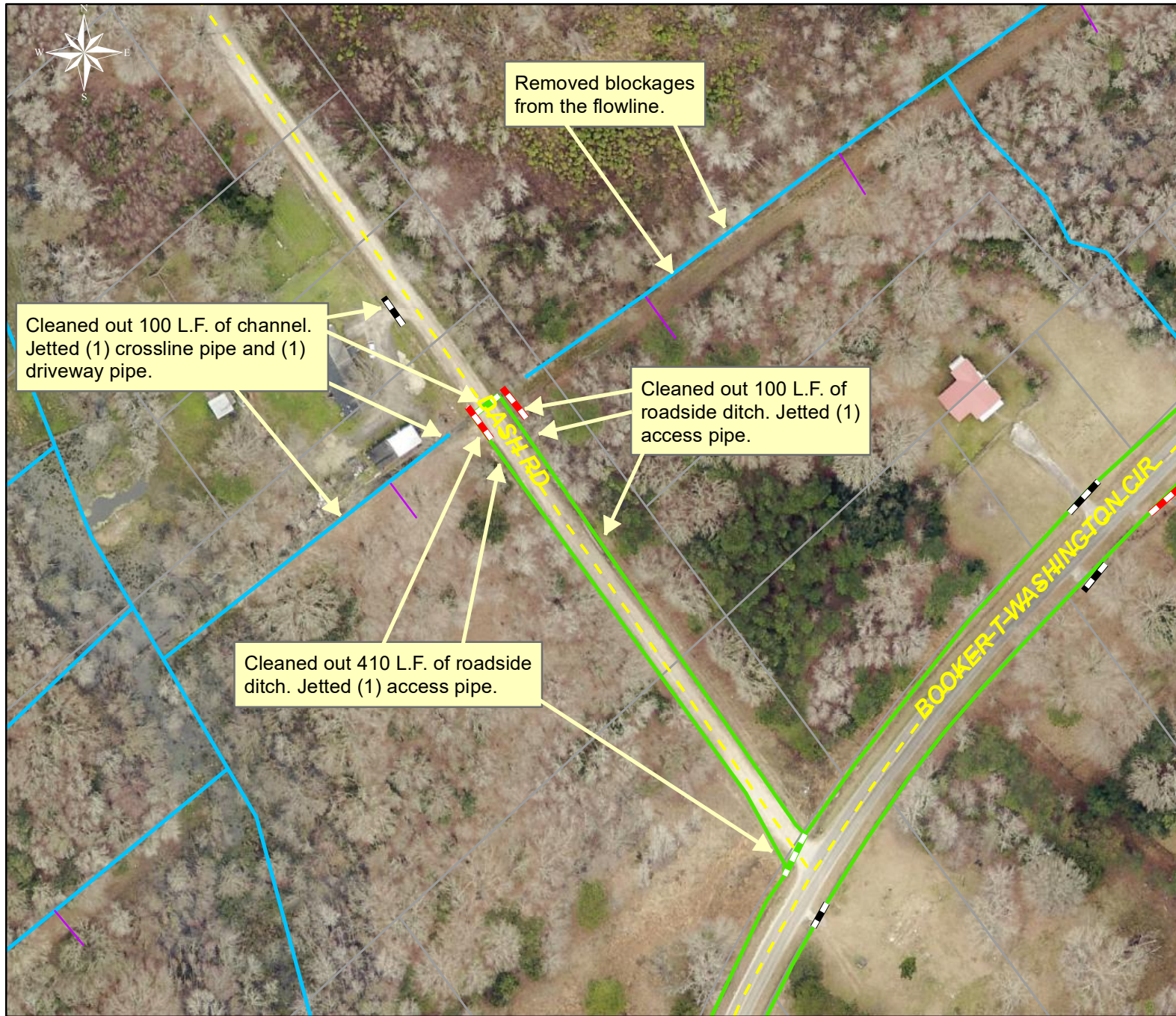
(Before)

(During)

(Ending)

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Project: Dash Road

Activity: Routine/
Preventive
Maintenance














Project #:
2021-528

Township/SW Dist:
Sheldon/5

Completed:
February 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 20 40 80 120 160
 Feet

1 inch = 130 feet

Prepared By: BC Stormwater Management Utility

Date Print: 04/09/21

File: C:\project summaries map\Dash Road_2021_528



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: George Williams Lane Channel #1

Activity: Routine/Preventive Maintenance

Duration: 02/17/21 - 03/04/21

Narrative Description of Project:

This project improved 353 L.F. of drainage system. Cleaned out 353 L.F. of channel. Jetted (2) crossline pipes.

2021-531 / George Williams Lane Channel #1

	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
CCO / Channel - cleaned out	24.0	\$512.96	\$84.96	\$24.00	\$0.00	\$105.84	\$727.76
CLPJT / Crossline Pipe - Jetted	6.0	\$131.22	\$26.06	\$23.56	\$0.00	\$24.42	\$205.26
HAUL / Hauling	8.0	\$174.32	\$152.48	\$37.40	\$0.00	\$0.00	\$364.20
2021-531 / George Williams Lane Channel #1 Project Sub Total	39.0	\$840.29	\$263.50	\$84.96	\$0.00	\$130.26	\$1,319.01
Grand Total	39.0	\$840.29	\$263.50	\$84.96	\$0.00	\$130.26	\$1,319.01

(Before)



(During)



(Ending)





Project: George Williams Lane Channel #1

Activity: Routine/ Preventive Maintenance














Project #: 2021-531

Township/SW Dist: Sheldon/5

Completed: March 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 50 100 200 300 400 Feet

1 inch = 250 feet

Prepared By: BC Stormwater Management Utility

Date Print:03/16/21

File:C:\project summaries map\George Williams Lane Channel #1_2021-531



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Ephraim Road Channel

Activity: Routine/Preventive Maintenance

Duration: 03/31/2021

Narrative Description of Project:

This project improved 810 L.F. of drainage system. Cleaned out 810 L.F. of channel.

2021-537 / Ephraim Road Channel	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
CCO / Channel - cleaned out	24.0	\$492.88	\$134.01	\$46.04	\$0.00	\$211.68	\$884.61
HAUL / Hauling	8.0	\$183.92	\$152.48	\$35.20	\$0.00	\$0.00	\$371.60
2021-537 / Ephraim Road Channel Project Sub Total	33.0	\$698.59	\$286.49	\$81.24	\$0.00	\$211.68	\$1,278.00
Grand Total	33.0	\$698.59	\$286.49	\$81.24	\$0.00	\$211.68	\$1,278.00

(No Pictures Available)

Project: Ephraim
Road Channel

Activity: Routine/
Preventive
Maintenance

Project #:
2021-537

Township/SW Dist:
St. Helena Island/8

Completed:
March 2021



0 35 70 140 210 280
Feet

1 inch = 170 feet

Prepared By: BC Stormwater Management Utility

Date Print:05/18/21

File:C:\project summaries map\Ephraim Road Channel_2021-537



Beaufort County Public Works
Stormwater Infrastructure
Project Summary

Project Summary: Sea Island Parkway Channel

Activity: Routine/Preventive Maintenance

Duration: 03/25/2021

Narrative Description of Project:

This project improved 513 L.F. of drainage system. Cleaned out 513 L.F. of channel.

2021-516 / Sea Island Parkway	Labor Hours	Labor Cost	Equipment Cost	Material Cost	Contractor Cost	Indirect Labor	Total Cost
AUDIT / Audit Project	1.0	\$21.79	\$0.00	\$0.00	\$0.00	\$0.00	\$21.79
CCO / Channel - cleaned out	24.0	\$492.88	\$112.54	\$85.54	\$0.00	\$211.68	\$902.64
2021-516 / Sea Island Parkway Project Sub Total	25.0	\$514.67	\$112.54	\$85.54	\$0.00	\$211.68	\$924.43
Grand Total	25.0	\$514.67	\$112.54	\$85.54	\$0.00	\$211.68	\$924.43

(No Pictures Available)



Project: Sea Island Parkway Channel

Activity: Routine/ Preventive Maintenance














Project #: 2021-516

Township/SW Dist: St. Helena Island/8

Completed: March 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 2550 100 150 200 Feet

1 inch = 150 feet

Prepared By: BC Stormwater Management Utility

Date Print:04/06/21

File:C:\project summaries map\Sea Island Parkway Channel_2021-516



Evaluation and Recommendations for Stormwater Drainage Improvements within the Shell Point Drainage Basin Area

Client:

Beaufort County
120 Shanklin Road
Beaufort, SC 29906

Prepared by:

Cranston Engineering Group, P.C.
14 Westbury Park Way, Suite 202
Bluffton, SC 29910

Presentation

June 9, 2021

Executive Summary

Cranston Engineering Group, P.C. was contracted by the Beaufort County Public Works Department to provide an analysis of the existing stormwater infrastructure within the Shell Point community in Port Royal, SC. The area has experienced localized flooding and numerous citizen complaints of flooding over roadways, into private residential properties, overflowing ditches, and erosion.

The primary focus of this assessment is to evaluate the current conditions, analyze the available capacity and provide recommended improvements to stormwater infrastructure within the Shell Point area in Port Royal, SC. This study includes:

- Evaluation of various rainfall intensities for the 2-, 10-, 25-, 50- and 100-year, storm events
- Accounting for an average 24-hour diurnal tidal cycle, between Mean High High Water (MHHW) and Mean Low Low Water (MLLW) elevations.
- The effects of a projected sea level rise of 15 inches currently estimated to occur over the next 50 years.

Flooding during all modeled storm events was significantly reduced through recommended improvements to problem areas identified during the existing conditions modeling process. Proposed improvements include:

- Right of way ditch and culvert cleaning/reshaping
- Significant channel improvements
- Upgraded and/or new stormwater outfall and culvert improvements.

The proposed improvements model reduced the number of flooded features during the 25-year event by approximately 181 structures, ditch points and pipe ends which flooded for an average of 0.83 hours (3.93-hour decrease).

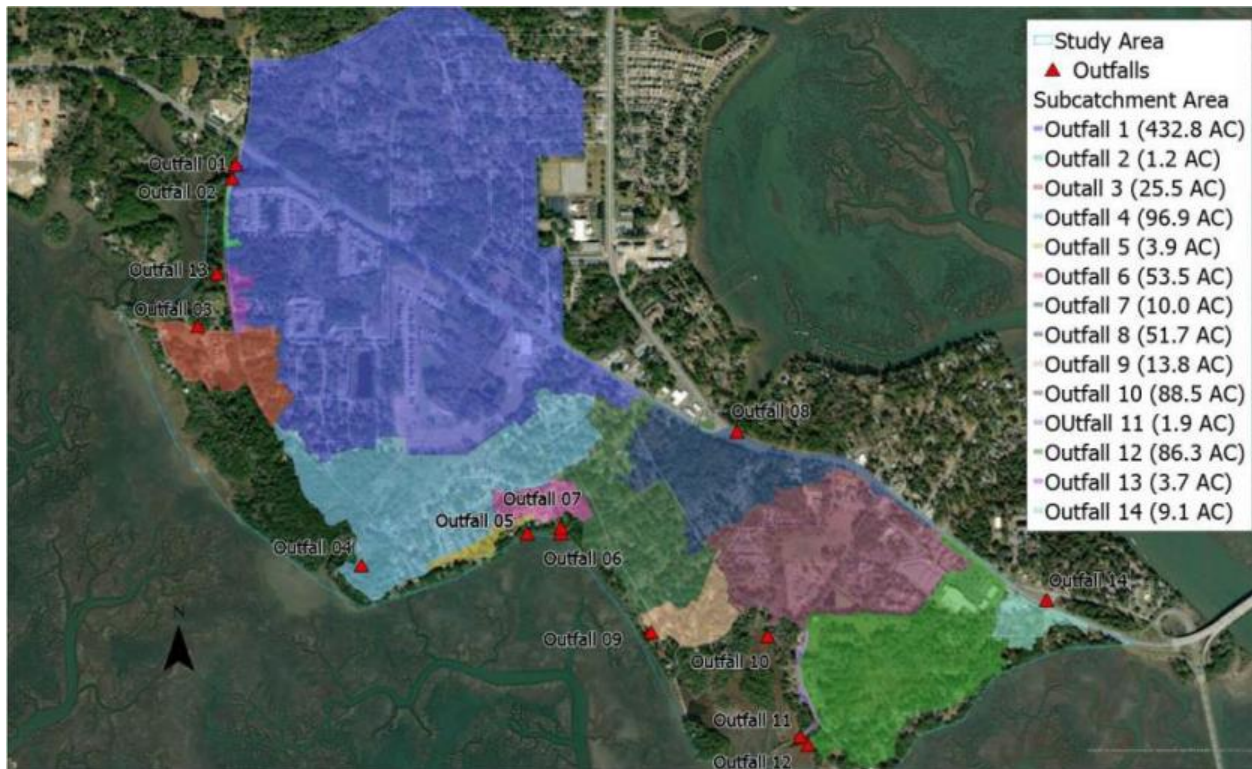
The table below shows the number of flooded structures, the percentage of flooded structures compared to the overall system, and the average hours flooded for the entire modeled system. Significant reductions can be seen for all storm events with the proposed improvements model keeping average flooding below 65 minutes for all storms.

	Existing Conditions					Proposed Improvements				
	2 Year	10 Year	25 Year	50 Year	100 Year	2 Year	10 Year	25 Year	50 Year	100 Year
Number of Surcharged Features	208	418	511	599	660	28	192	330	436	513
Percent of Features Experiencing Flooding	19%	37%	46%	54%	59%	3%	17%	29%	39%	46%
Average Hours Flooded (Surcharged Features Only)	6.71	4.91	4.76	4.59	4.68	1.04	0.73	0.83	0.88	1.00
Average Hours Flooded (Entire Model)	1.25	1.84	2.18	2.46	2.76	0.03	0.13	0.24	0.34	0.46

Existing Conditions Model Development

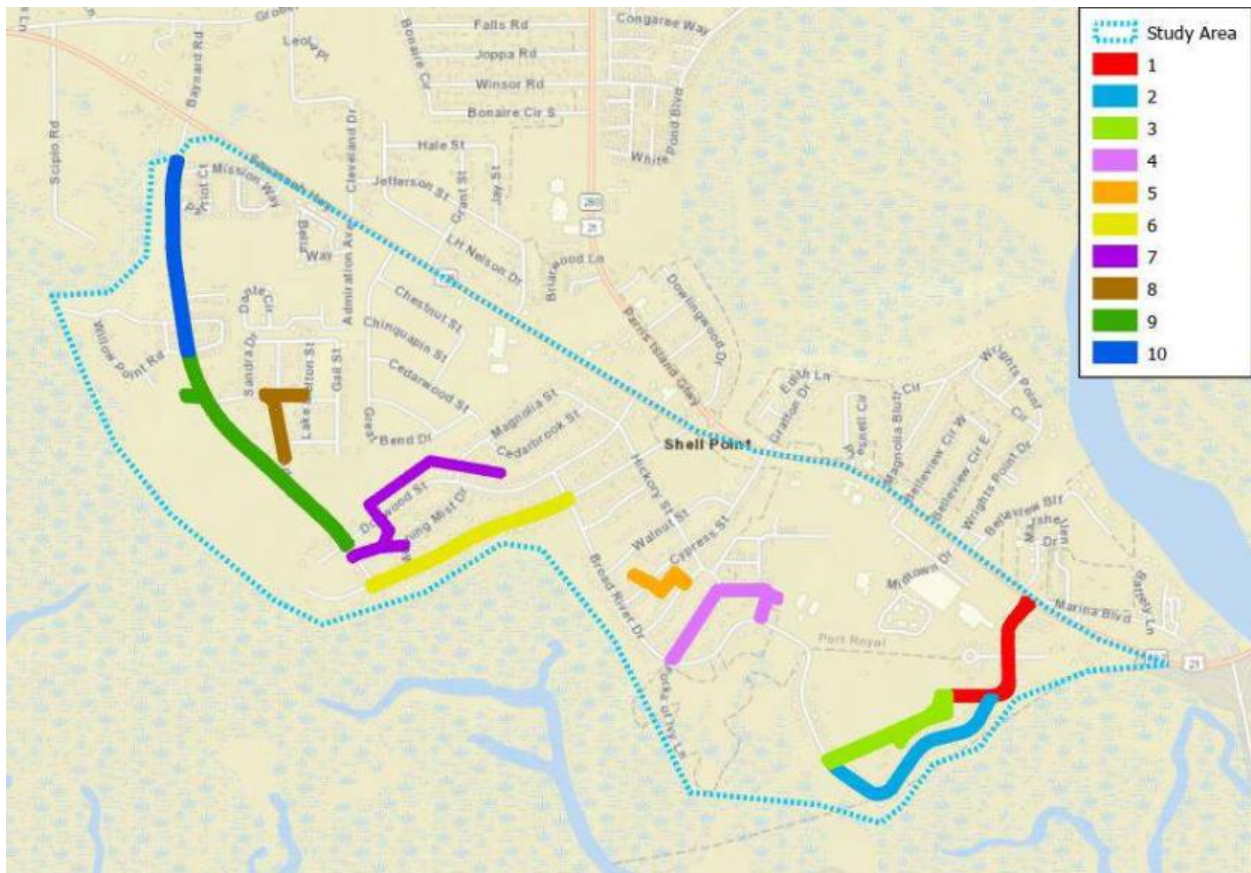
The existing conditions model analyzed 404 individual structures and 1,103 individual storm related drainage lines equating to 62,133 linear feet of open channel and 50,149 linear feet of pipe.

The existing conditions stormwater analysis utilized fourteen (14) ultimate outfall locations into the surrounding tidal marshes to delineate watershed areas throughout the study area. These 14 watersheds, totaling approximately 880 acres, were further broken down into 1,106 individual sub-catchment areas discharging into each existing condition feature in the model.



System Outfalls

Diurnal curves were developed to simulate tailwater conditions during an average 24-hour tidal cycle observed at the Broad River Bridge NOAA Tidal Station 8668223. The effects of a projected sea level rise of 15 inches currently estimated to occur over the next 50 years was also analyzed to identify potential problem areas in the future.

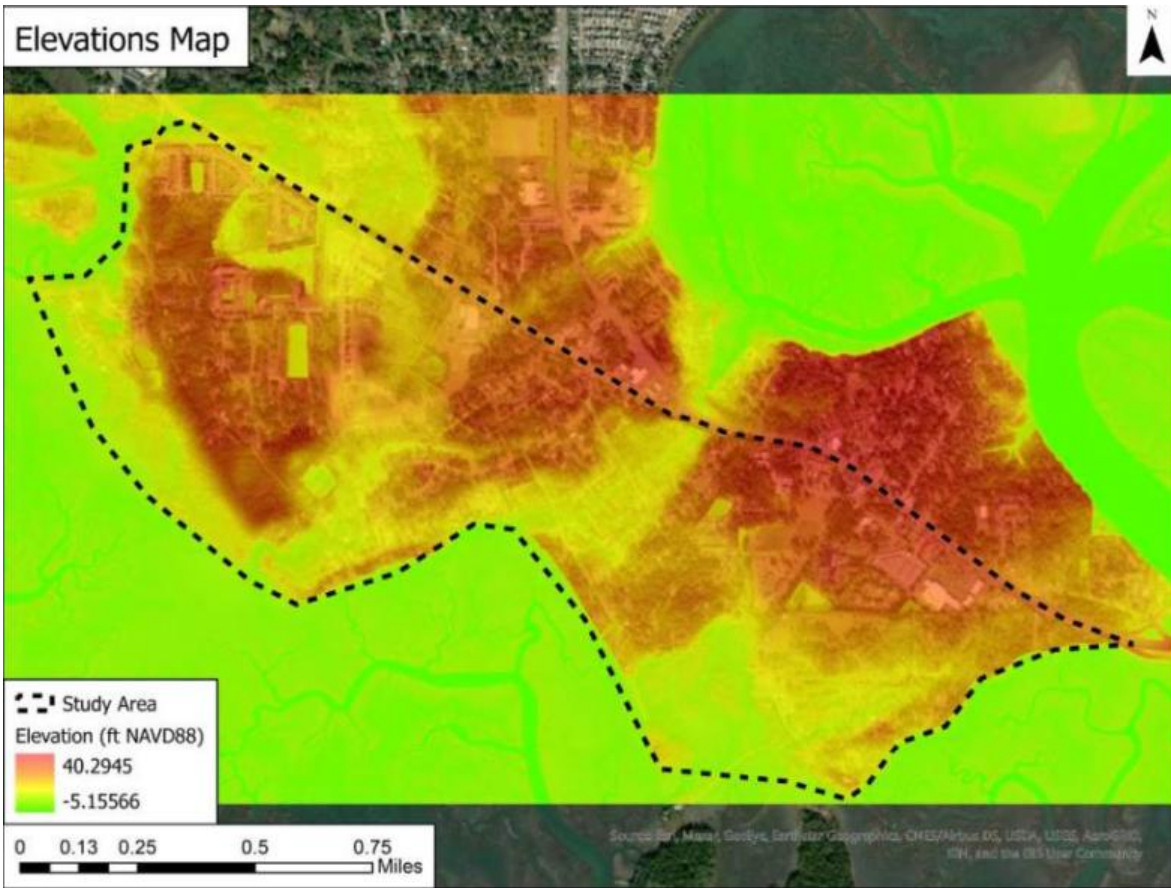


Identified Priority Areas

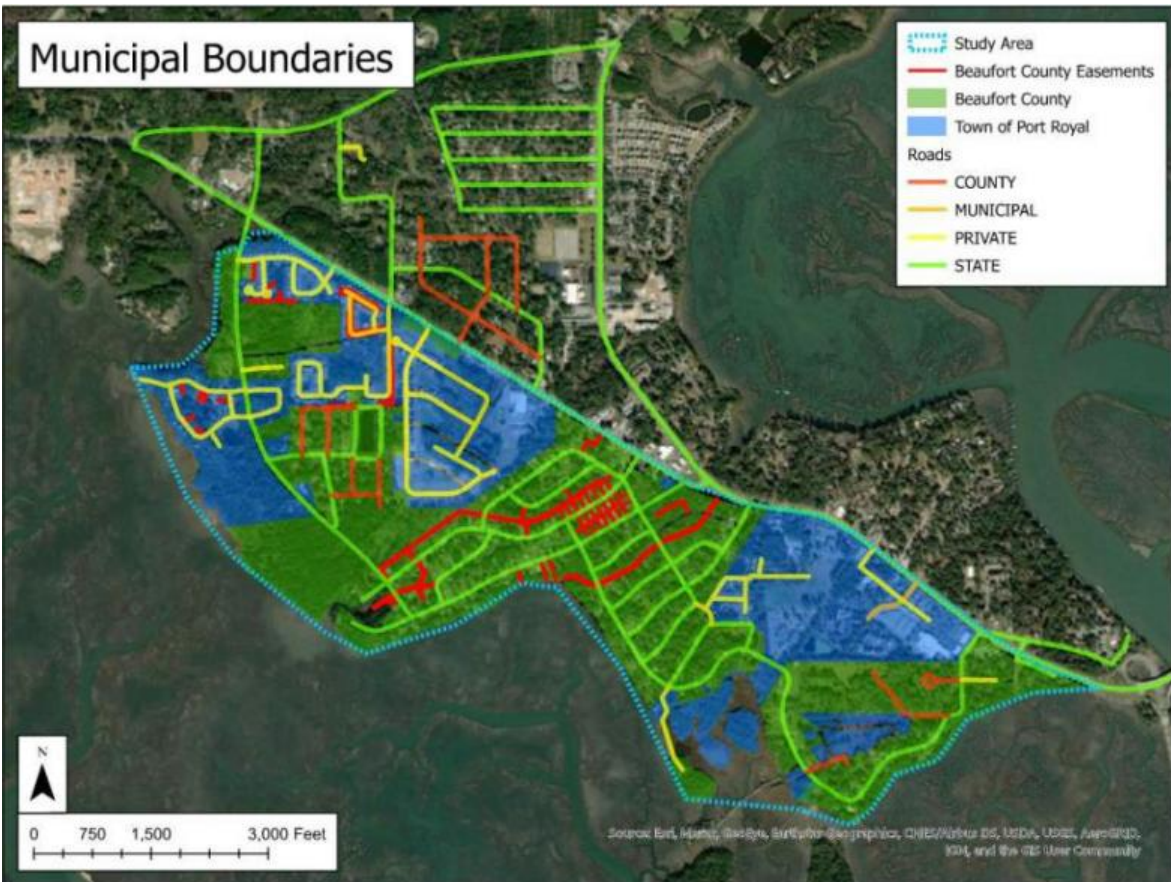
No.	Road/Area	Max Hours Flooded (Existing) Average Tide					Max Hours Flooded (Proposed) Average Tide				
		2 Year	10 Year	25 Year	50 Year	100 Year	2 Year	10 Year	25 Year	50 Year	100 Year
1	Broad River Drive (Parris Island Gateway to Shell Point Rec Park)	15.65	17.51	18.34	18.92	19.40	-	0.37	0.57	0.71	0.87
2	Broad River Drive (Shell Point Rec Park to Hamrick Drive)	15.33	17.24	18.17	18.80	19.30	0.98	1.46	1.75	1.98	2.22
3	Hamrick Drive (including dirt road)	15.49	17.07	17.78	18.93	20.07	-	0.43	0.66	0.79	0.98
4	Ashwood Circle	16.17	18.03	18.86	19.41	19.84	-	0.52	0.89	1.16	1.42
5	Hickory Street (Broad River Drive to Cypress Street)	23.28	23.50	23.58	23.62	23.66	-	0.57	0.76	0.94	1.14
6	Shell Point Road	18.74	20.25	20.82	21.20	21.49	-	0.55	0.88	1.12	1.34
7	Dogwood Street & Magnolia Street Ditch System	21.58	23.12	23.27	23.37	23.44	-	0.41	0.77	1.04	1.29
8	Green Pond Drive	12.85	14.23	14.93	15.52	16.06	1.25	2.65	3.39	3.96	4.50
9	Baynard Road (Dogwood Street to Willow Point Road)	18.62	20.77	22.21	22.45	22.62	-	0.78	1.34	1.78	2.18
10	Baynard Road (Willow Point Road to Savannah Hwy)	18.76	18.81	19.55	20.04	20.43	-	-	0.70	0.98	1.16

Proposed Improvement Results

Elevations Map



Municipal Boundaries



ROADSIDE DITCH CLEANING PRIORITY

 Study Area

 Major Ditch Cleaning

 Minor Ditch Cleaning

Roads

 COUNTY

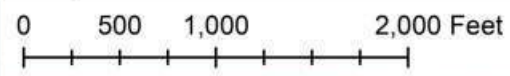
 MUNICIPAL

 PRIVATE

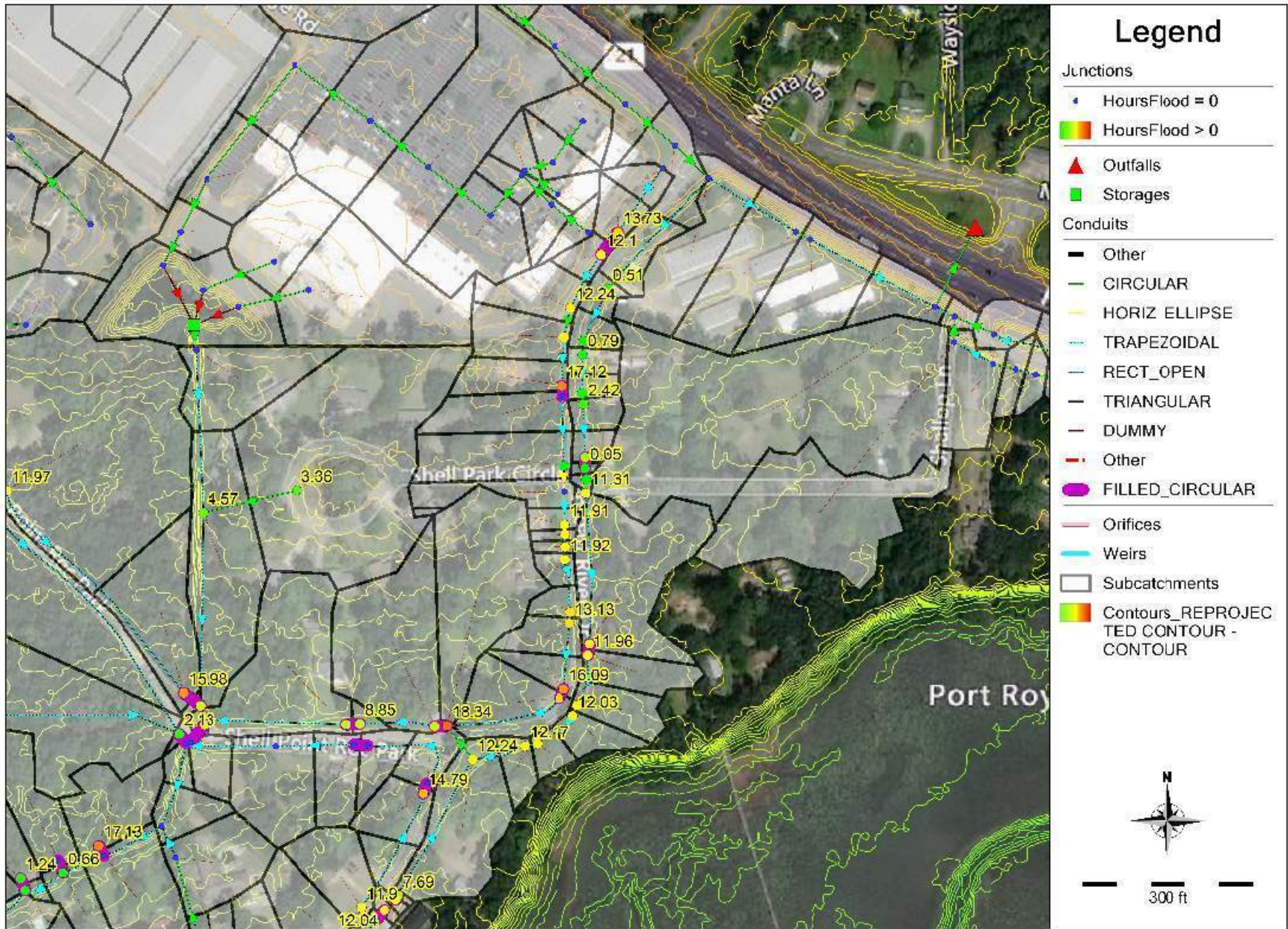
 STATE

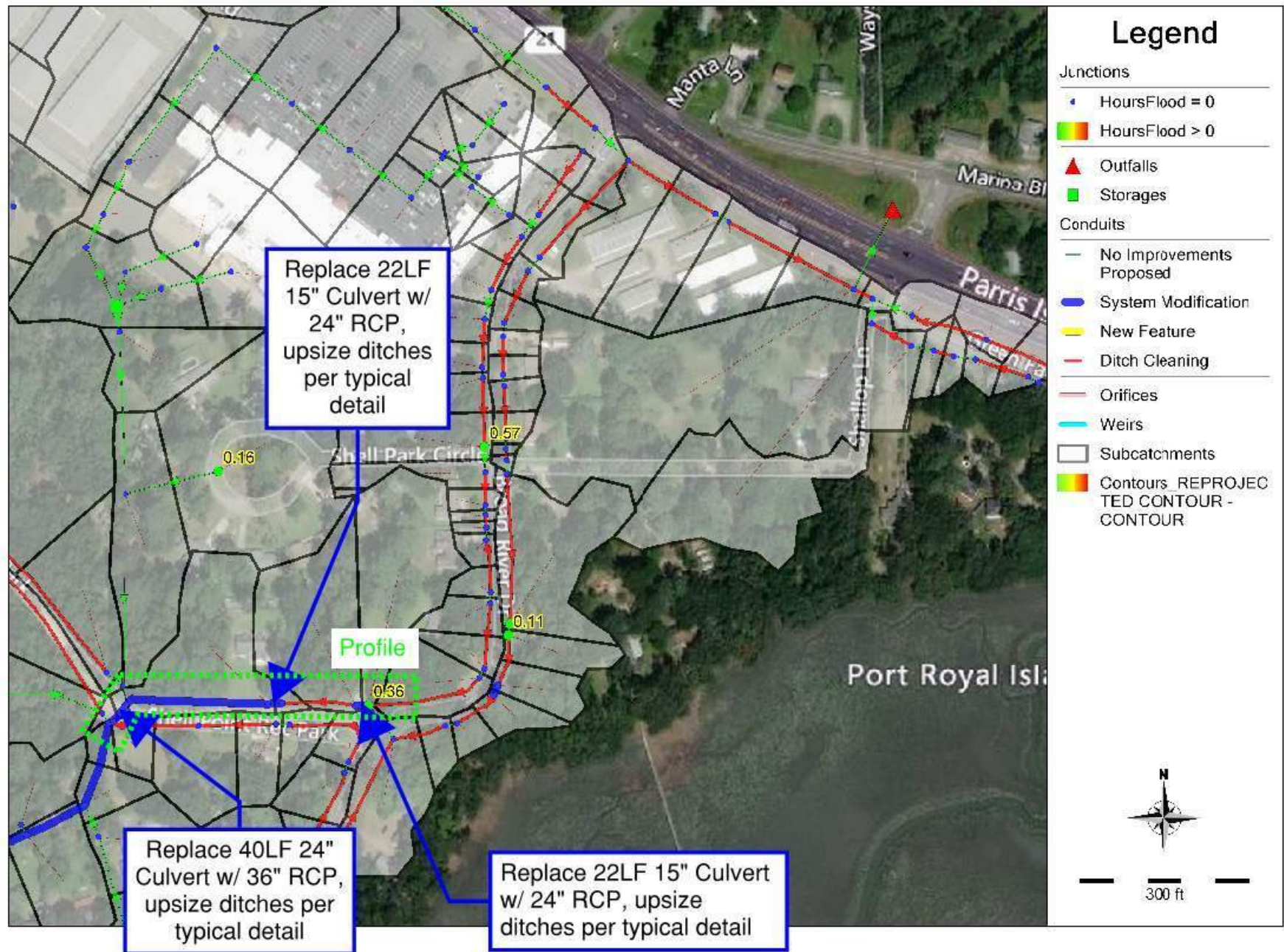
Major Ditch Cleaning involves regrading roadside ditch systems per typical cross section.

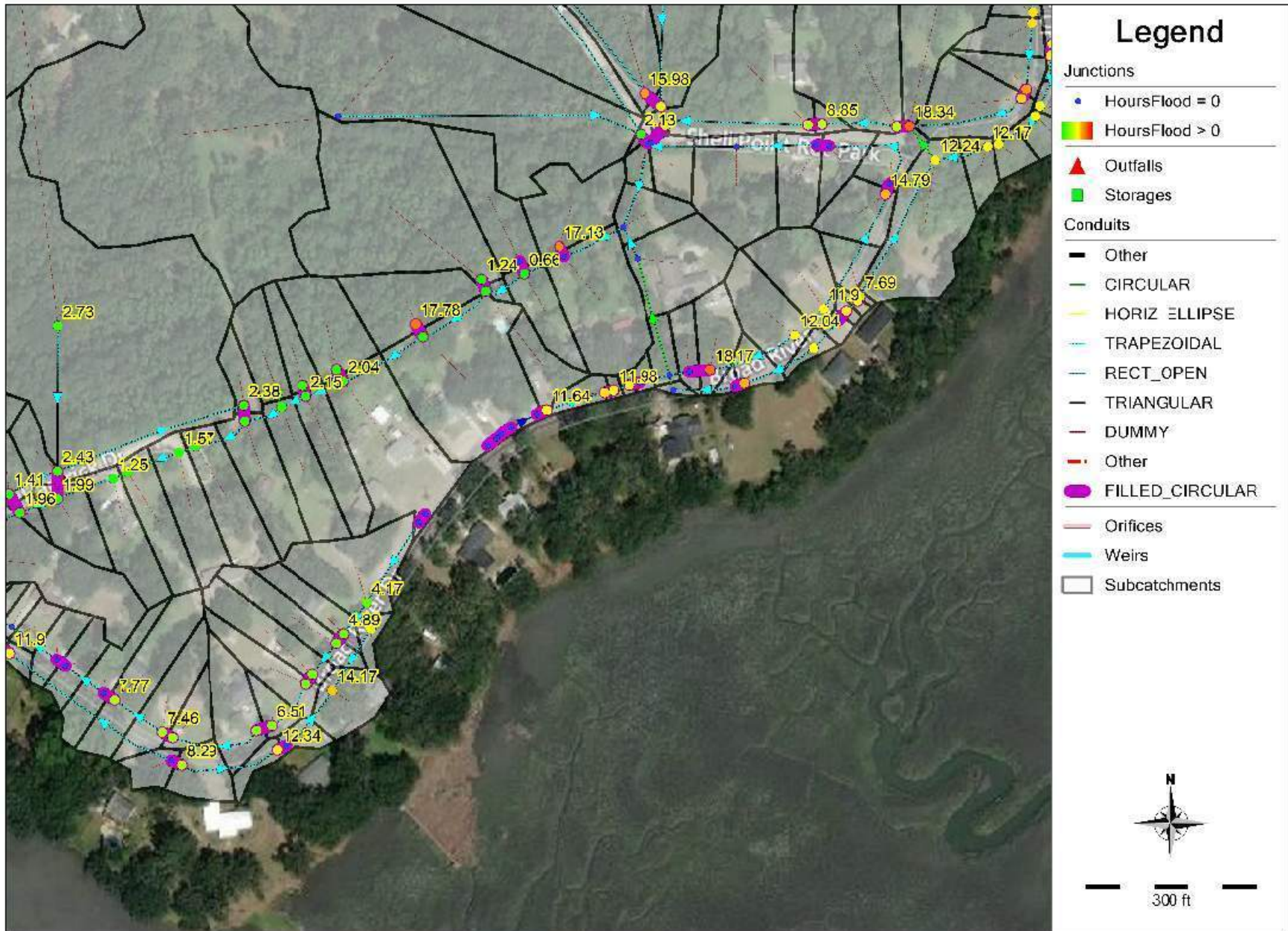
Minor Ditch Cleaning involves some maintenance related vegetation/minor sediment removal.

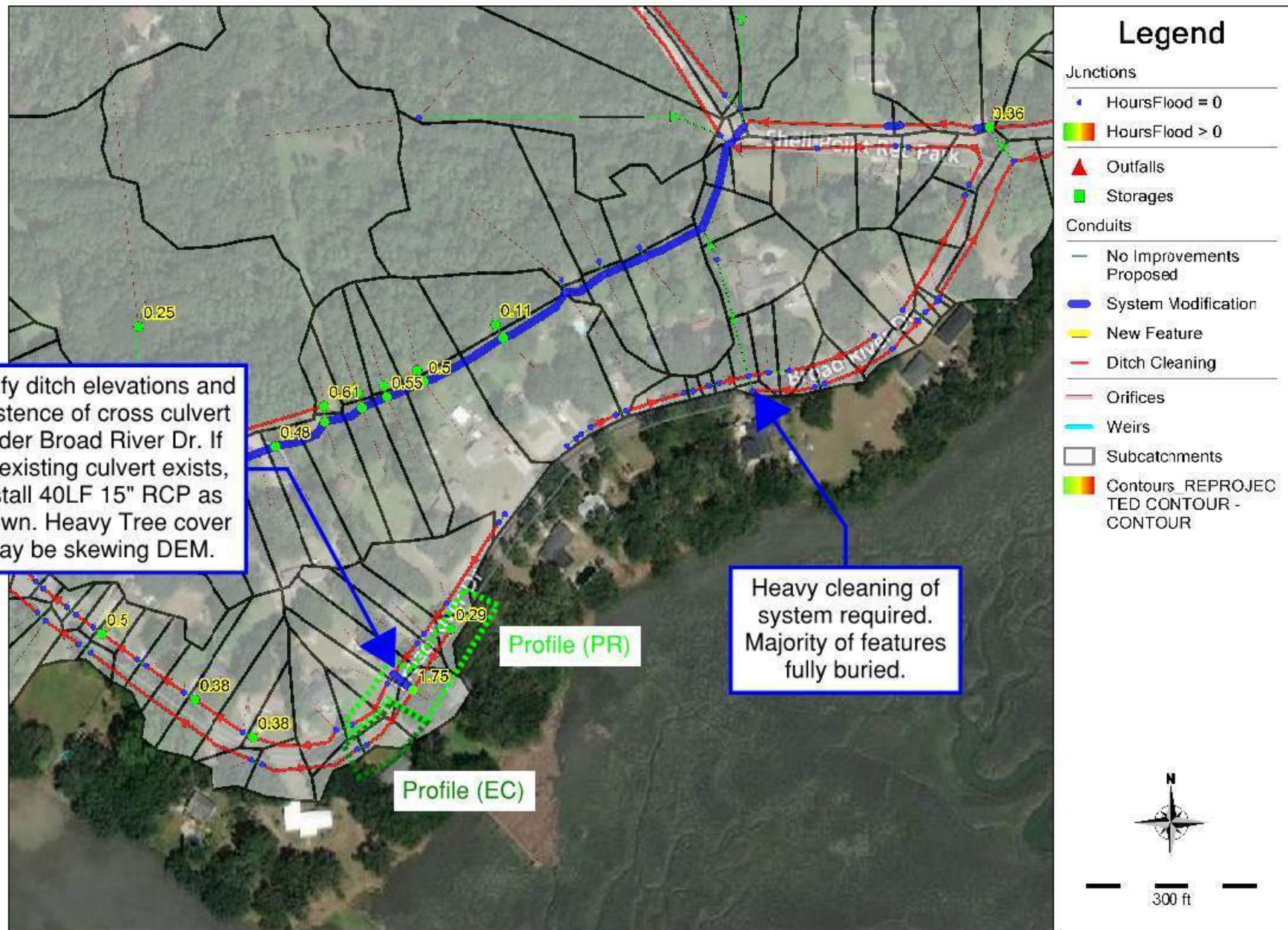


Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community









Verify ditch elevations and existence of cross culvert under Broad River Dr. If no existing culvert exists, install 40LF 15" RCP as shown. Heavy Tree cover may be skewing DEM.

Heavy cleaning of system required. Majority of features fully buried.

Profile (PR)

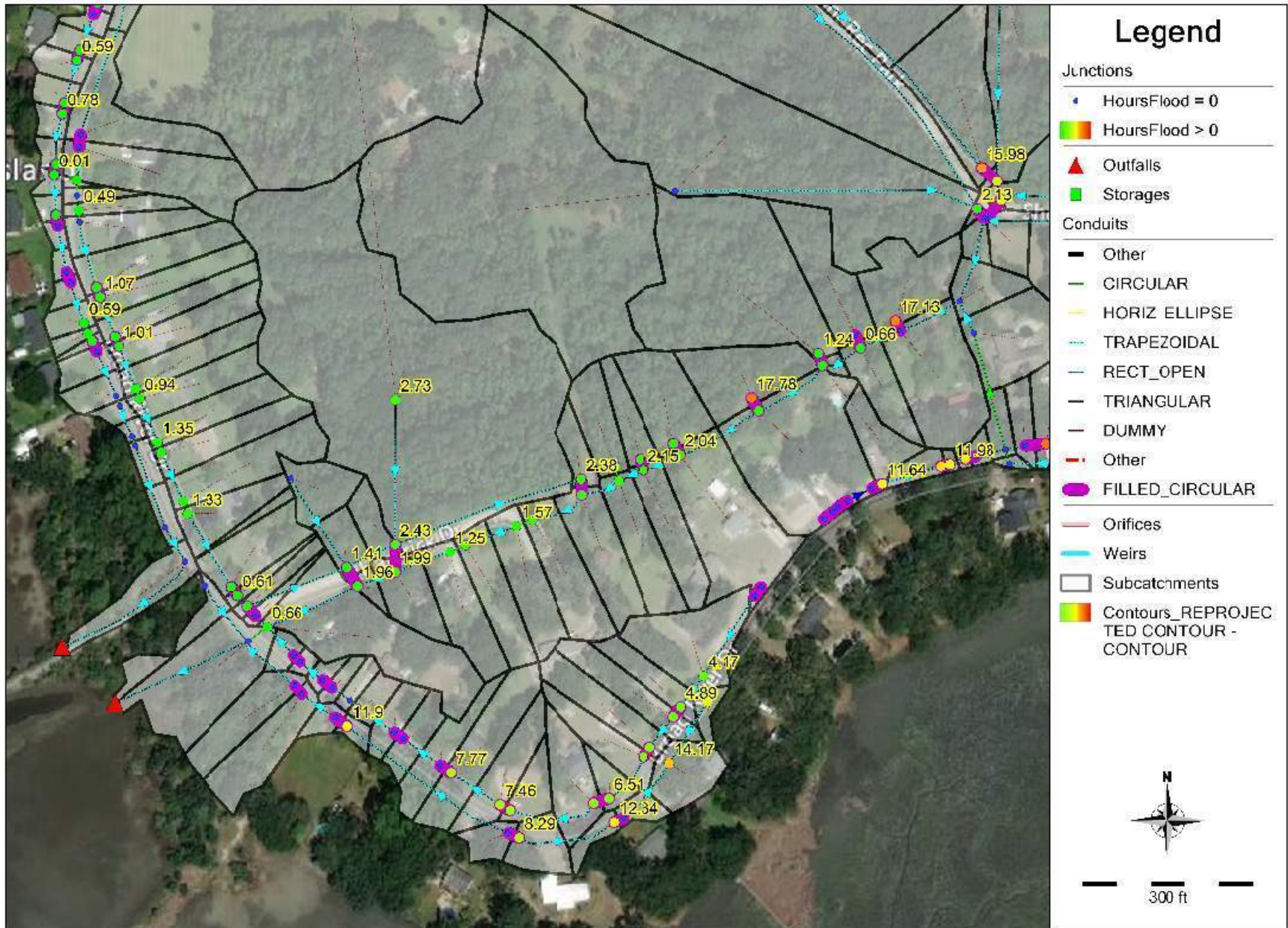
Profile (EC)

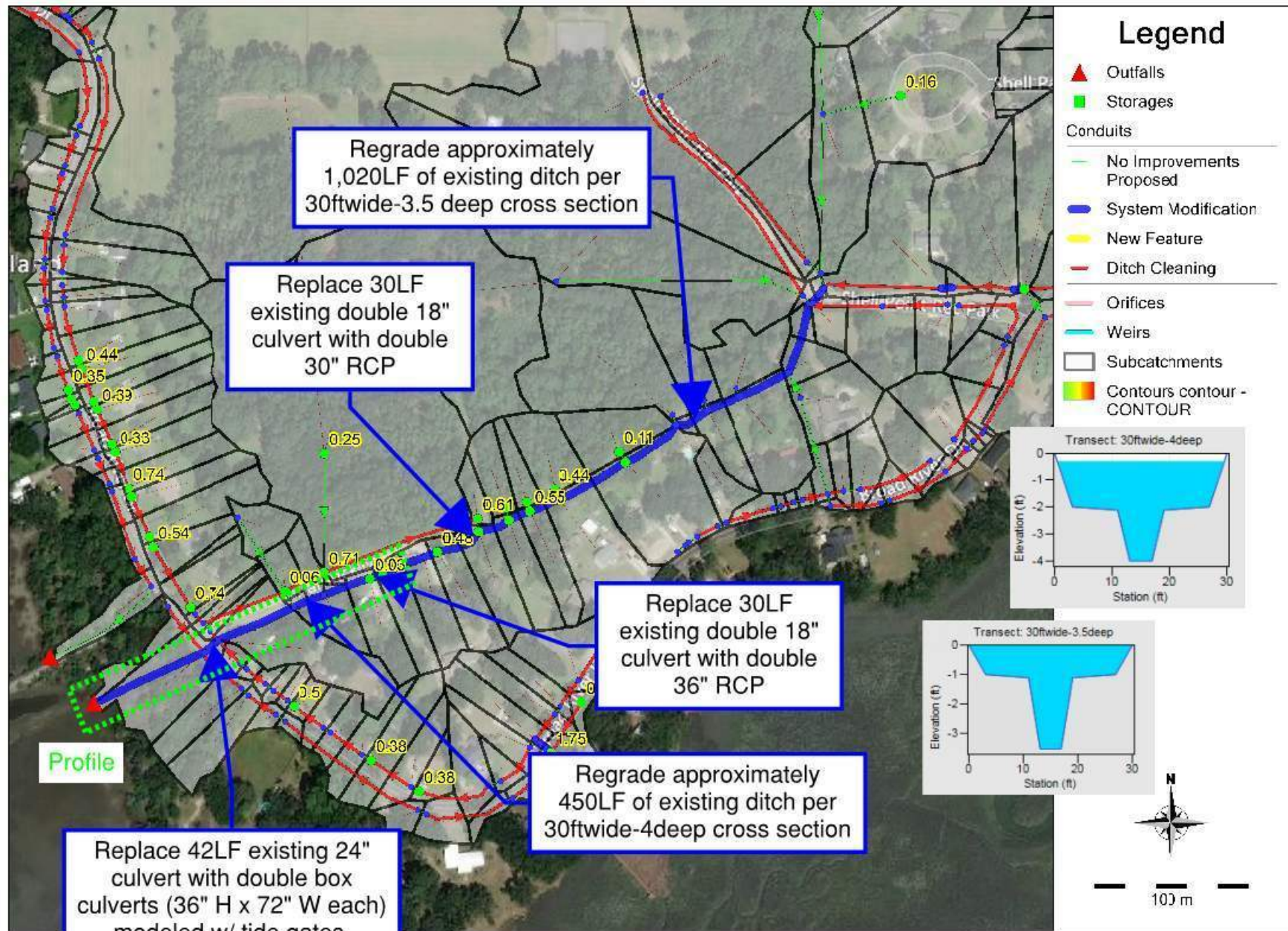
Legend

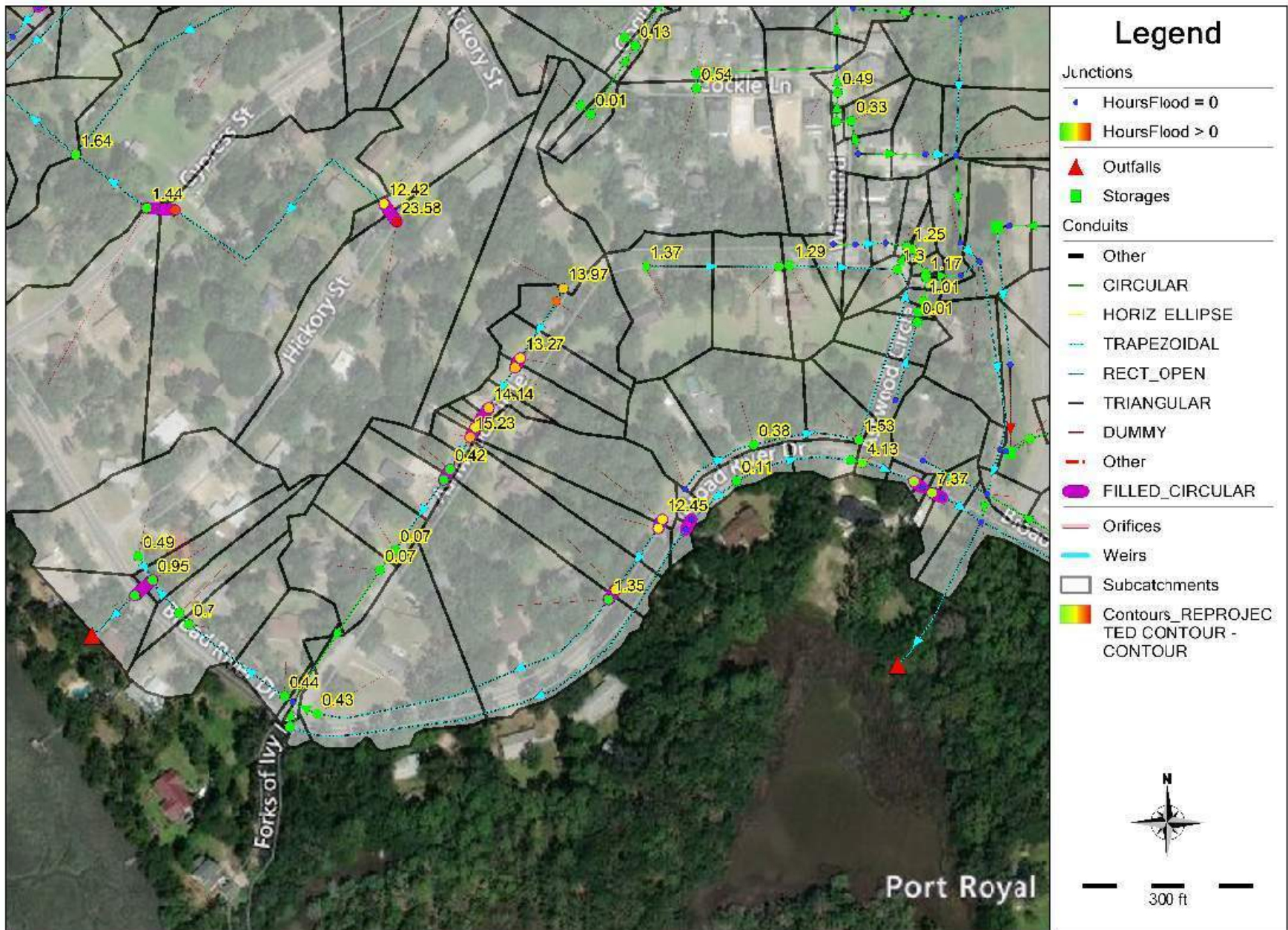
- Junctions**
- HoursFlood = 0
- ▭ HoursFlood > 0
- ▲ Outfalls
- Storages
- Conduits**
- No Improvements Proposed
- ▬ System Modification
- ▬ New Feature
- ▬ Ditch Cleaning
- ▬ Orifices
- ▬ Weirs
- ▭ Subcatchments
- ▭ Contours REPROJECTED CONTOUR - CONTOUR

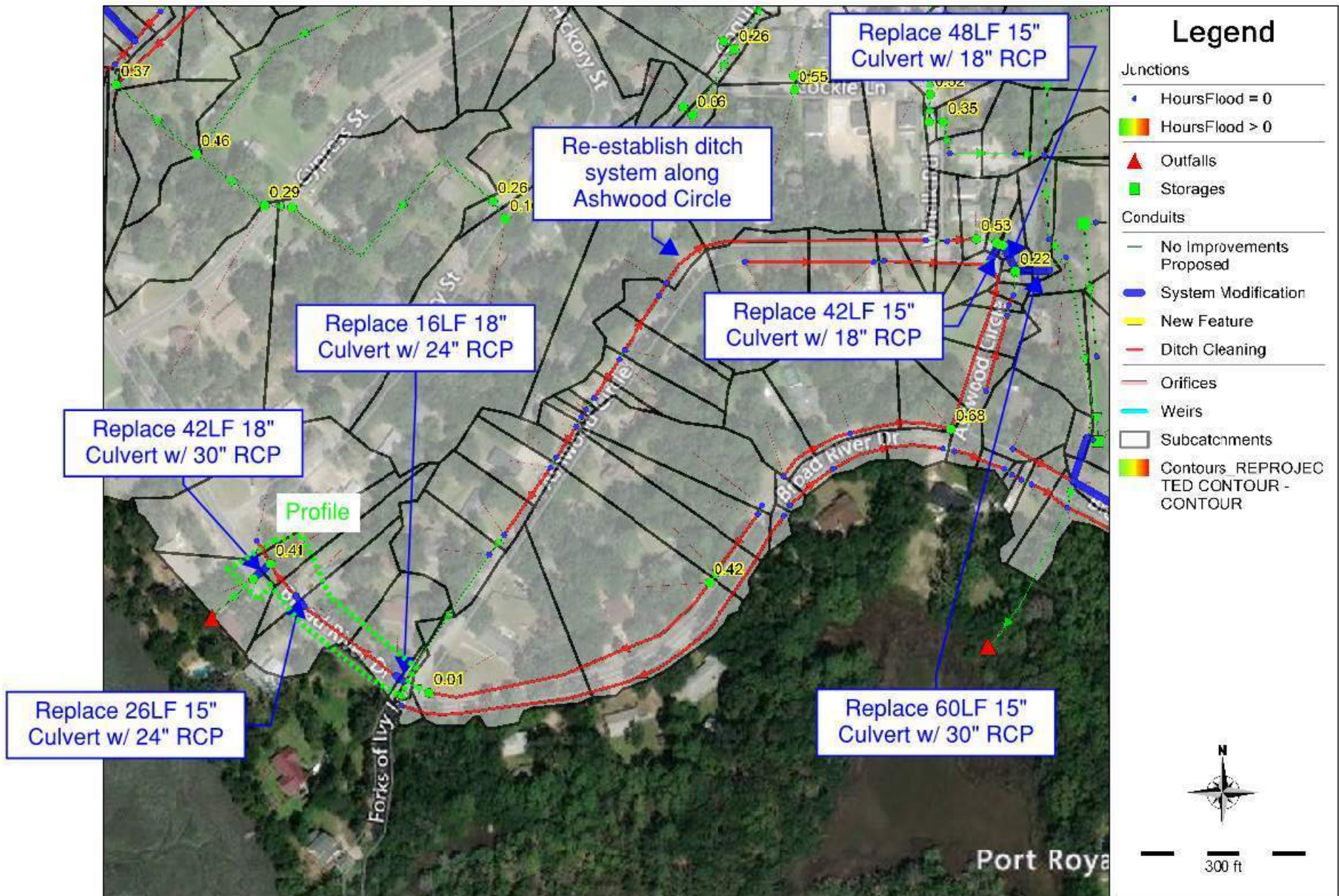


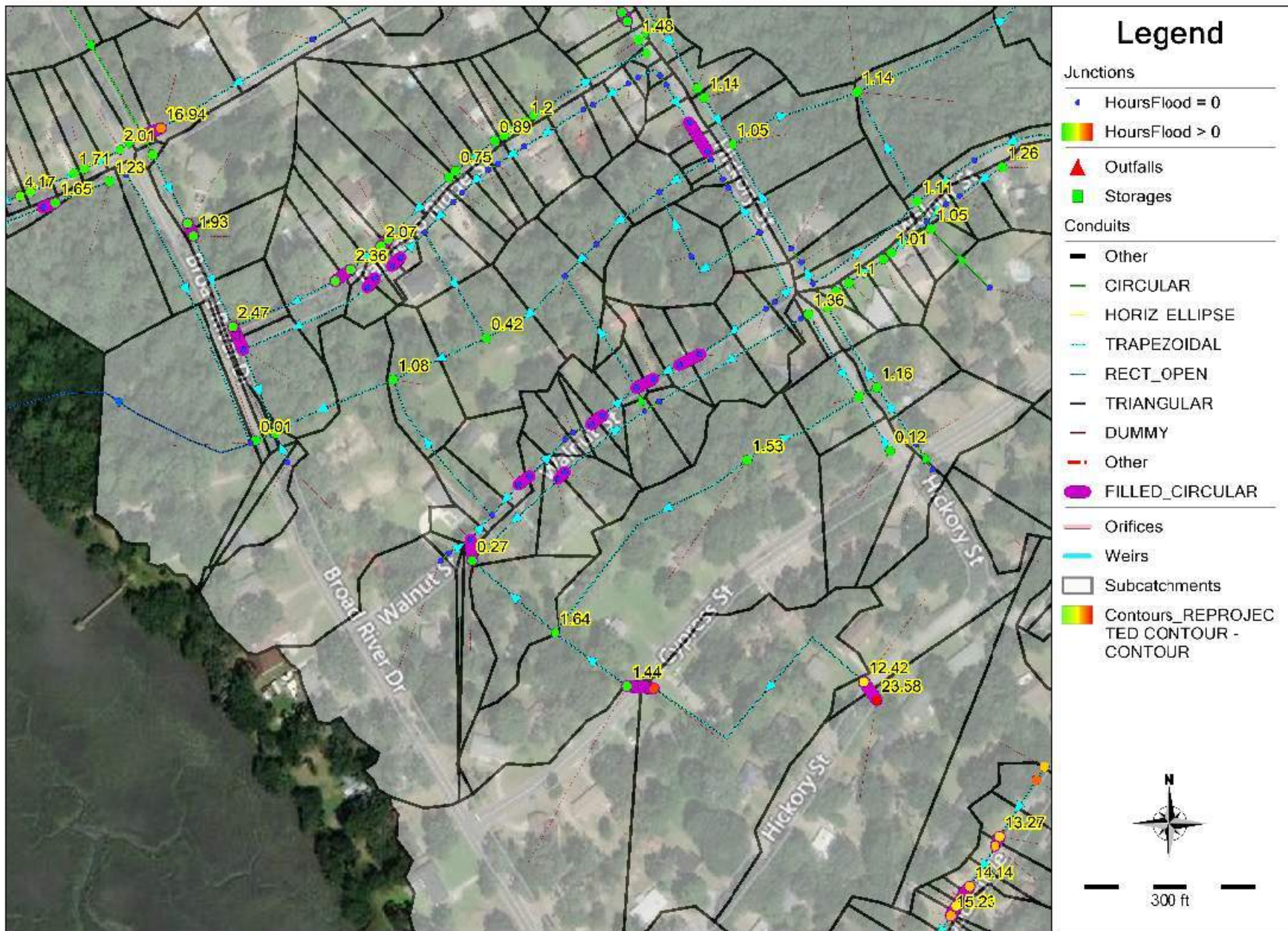
300 ft

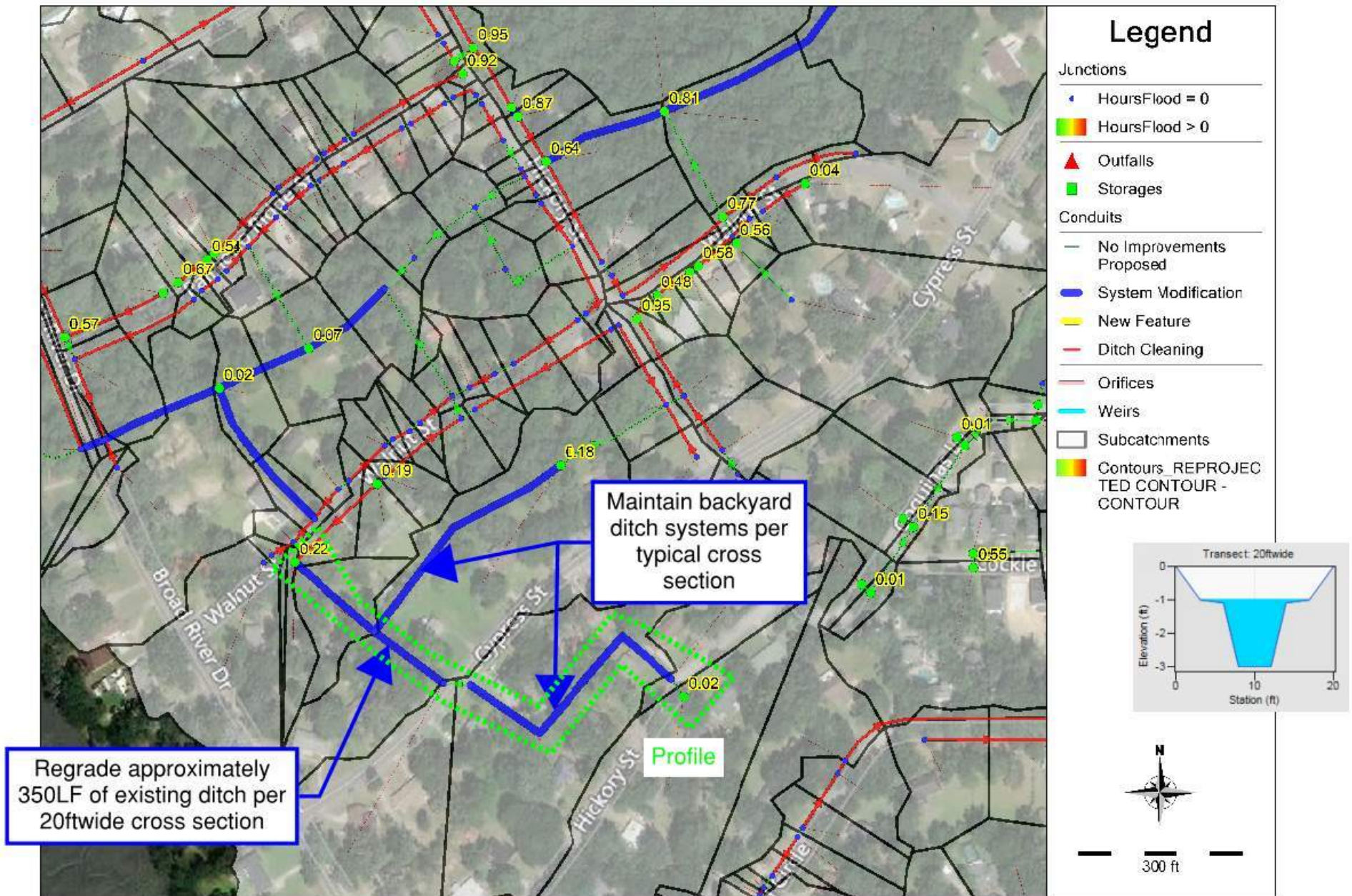


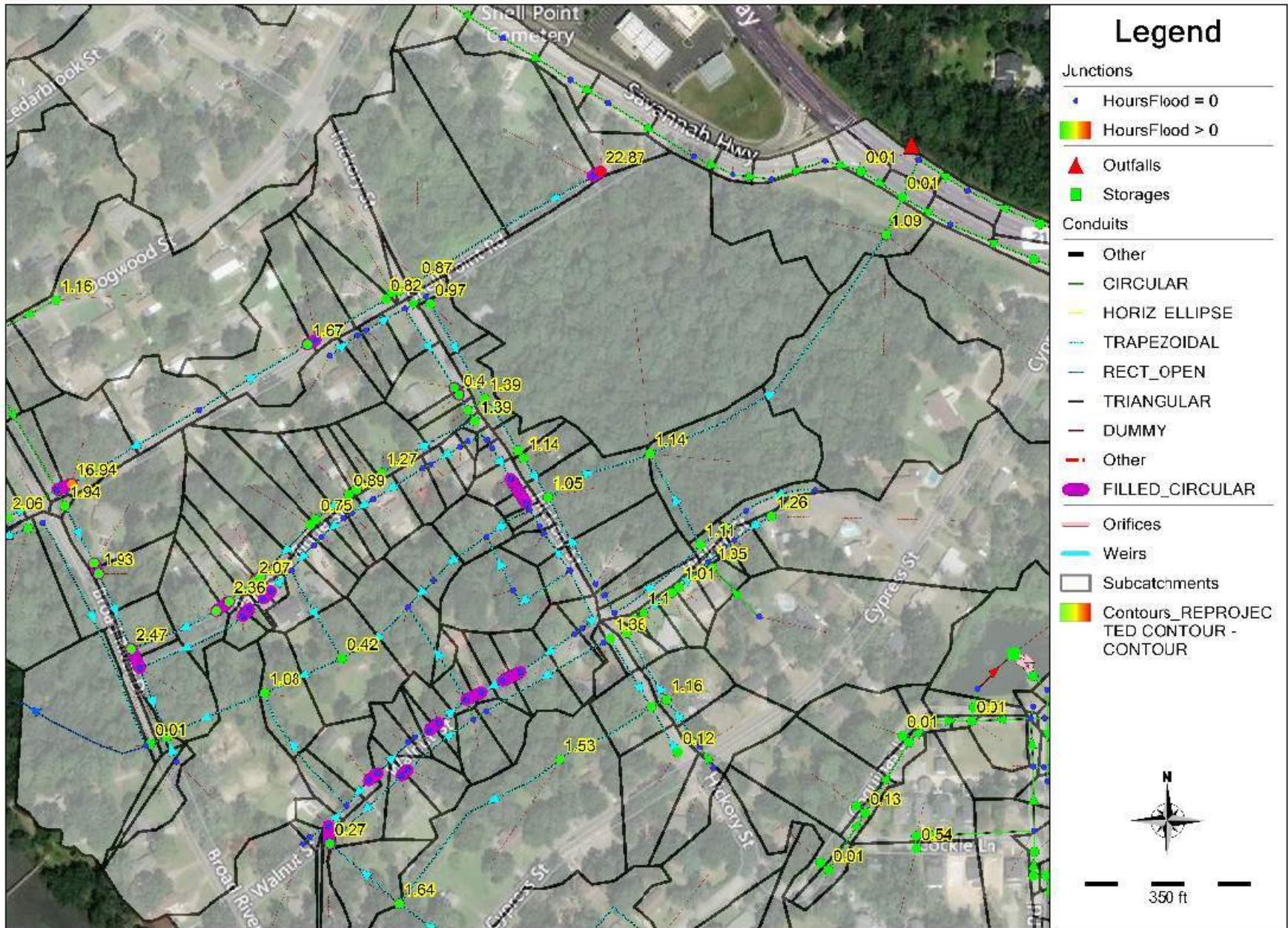


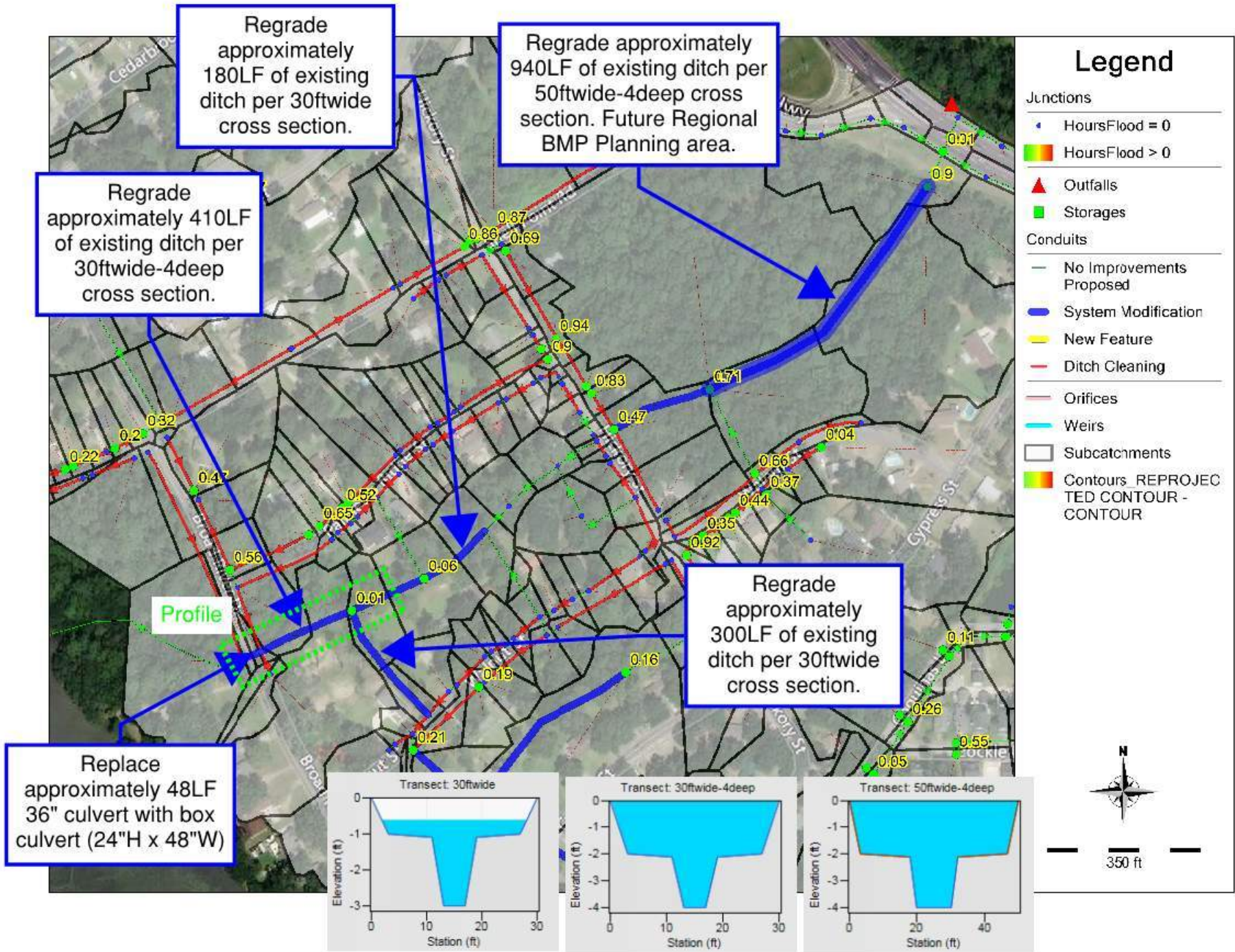


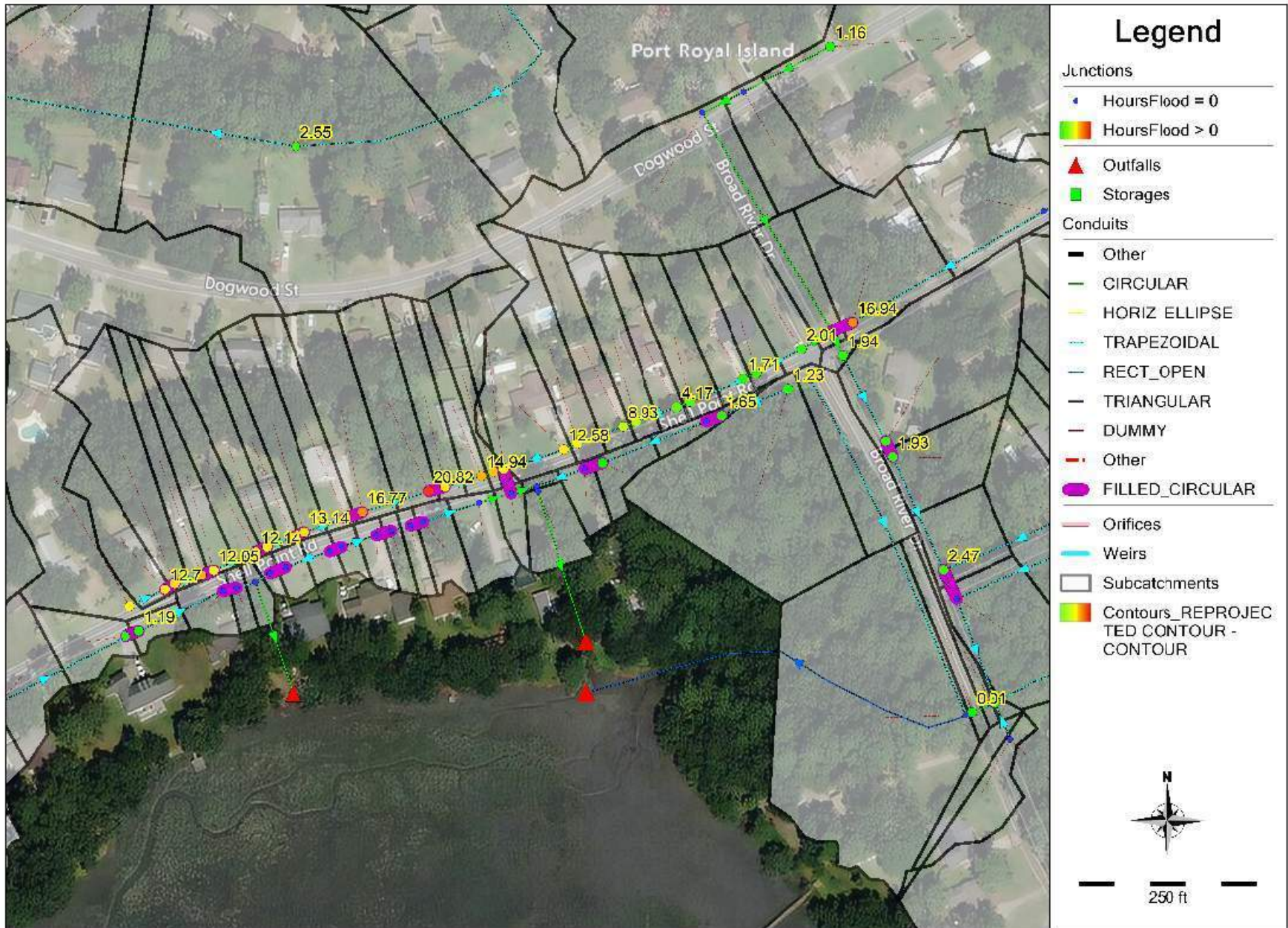


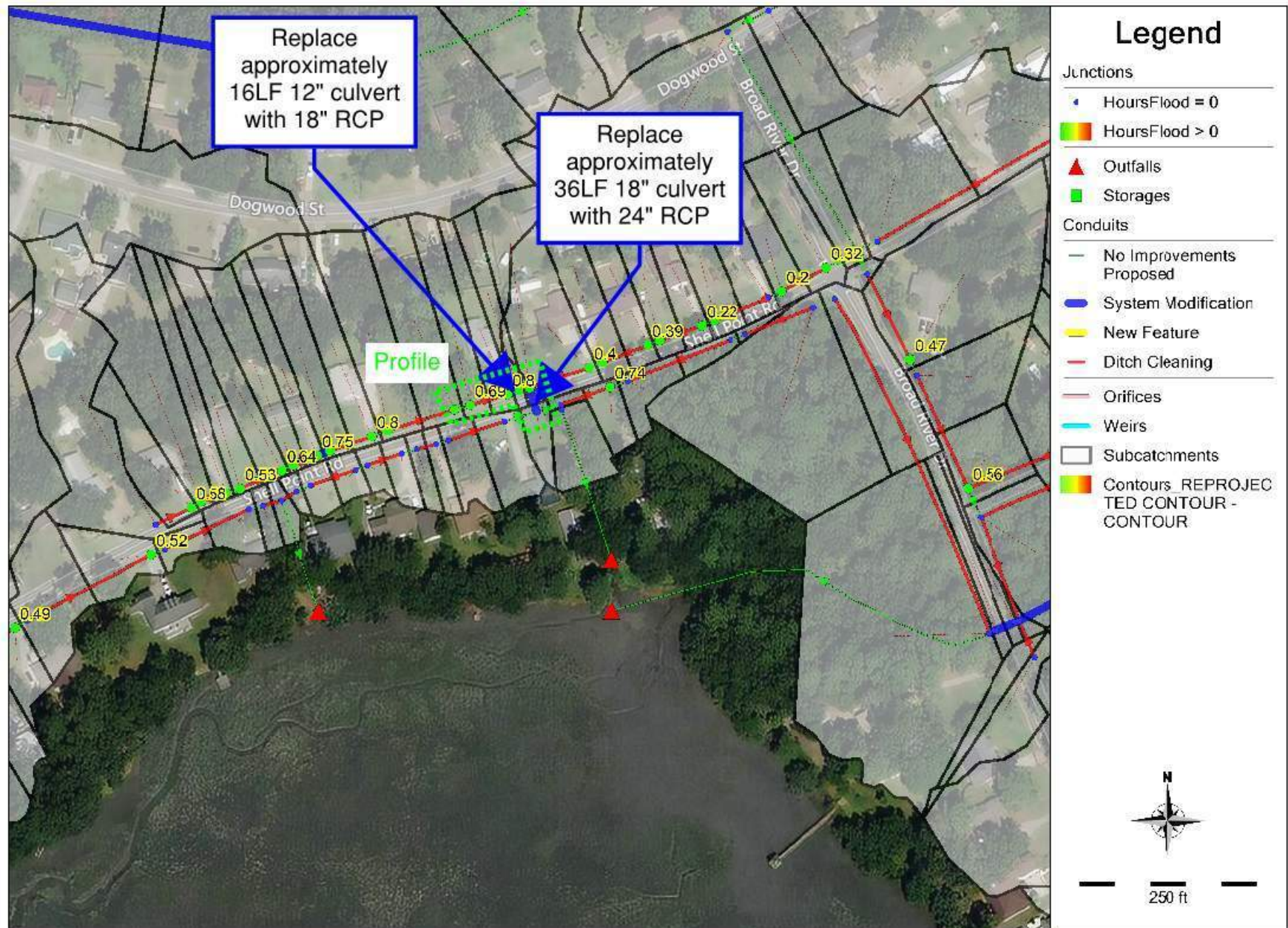


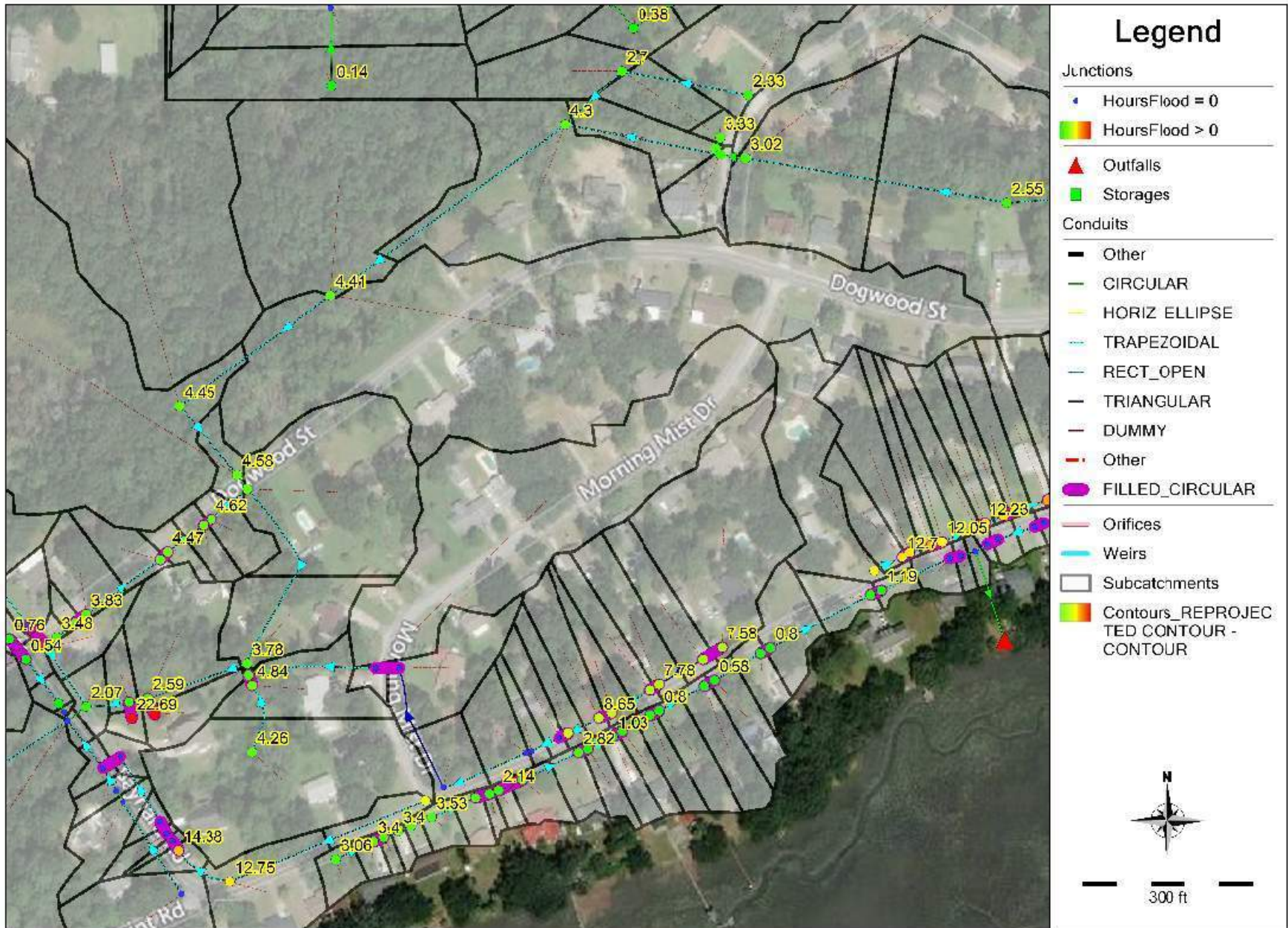


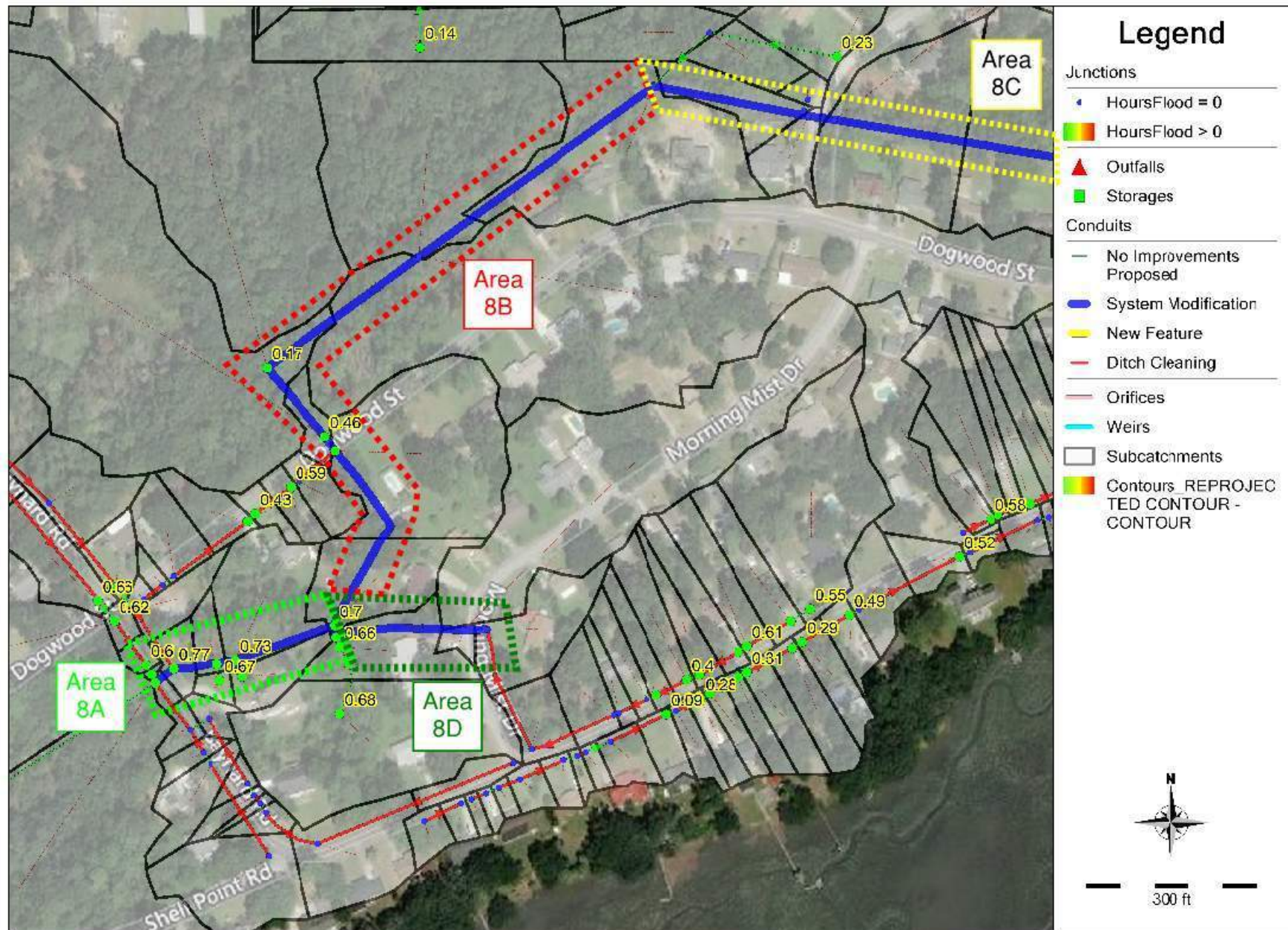


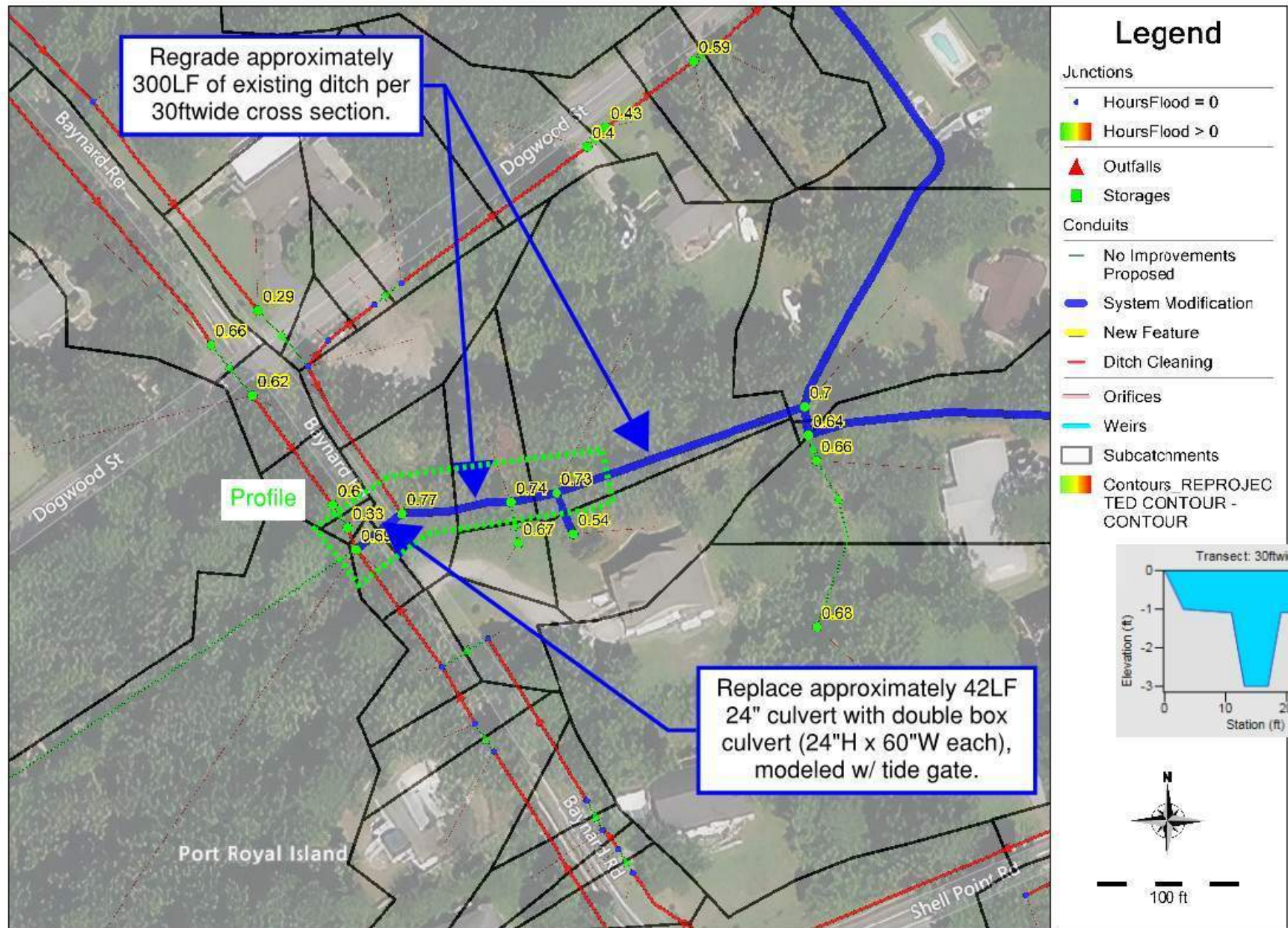


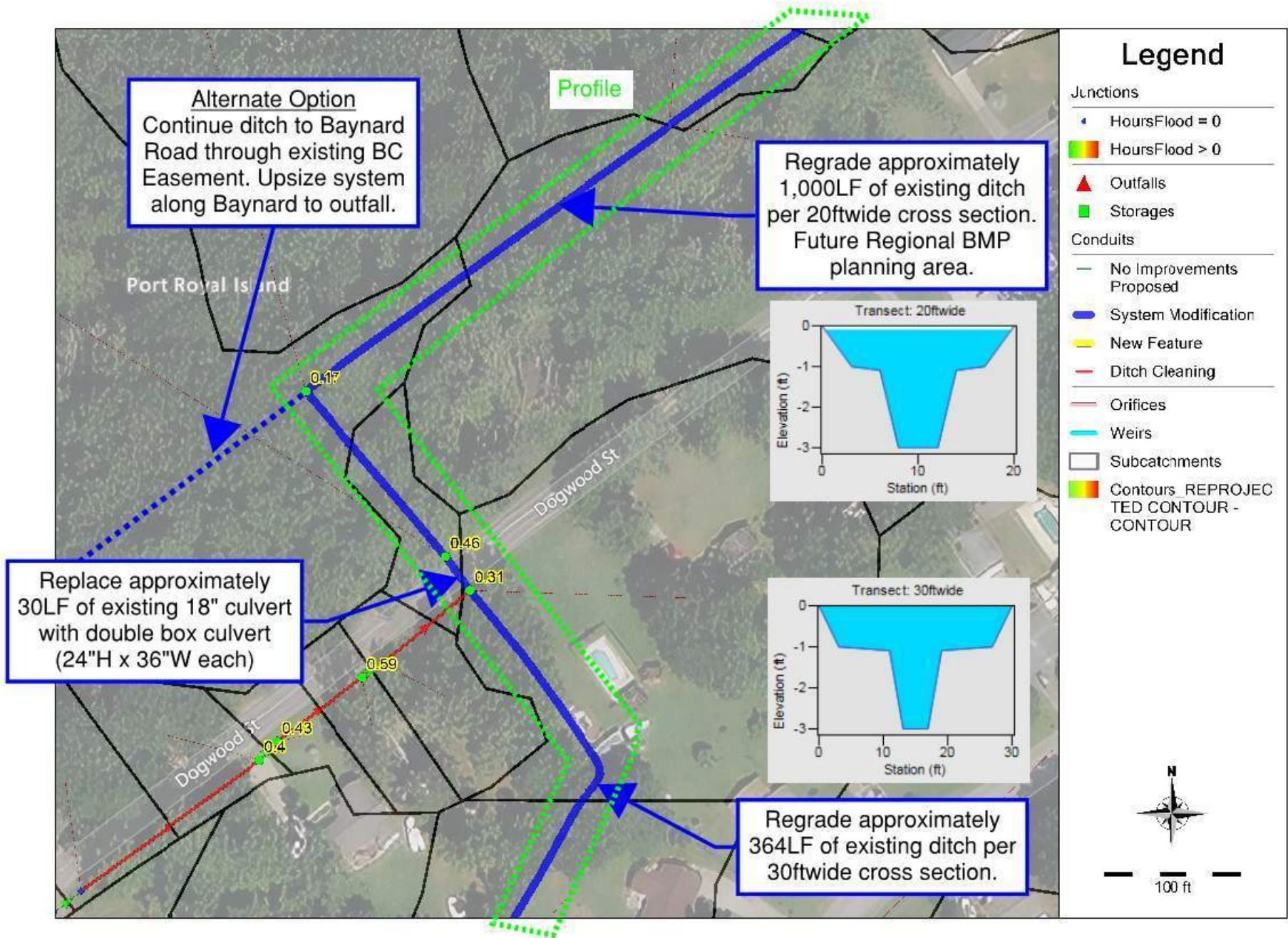


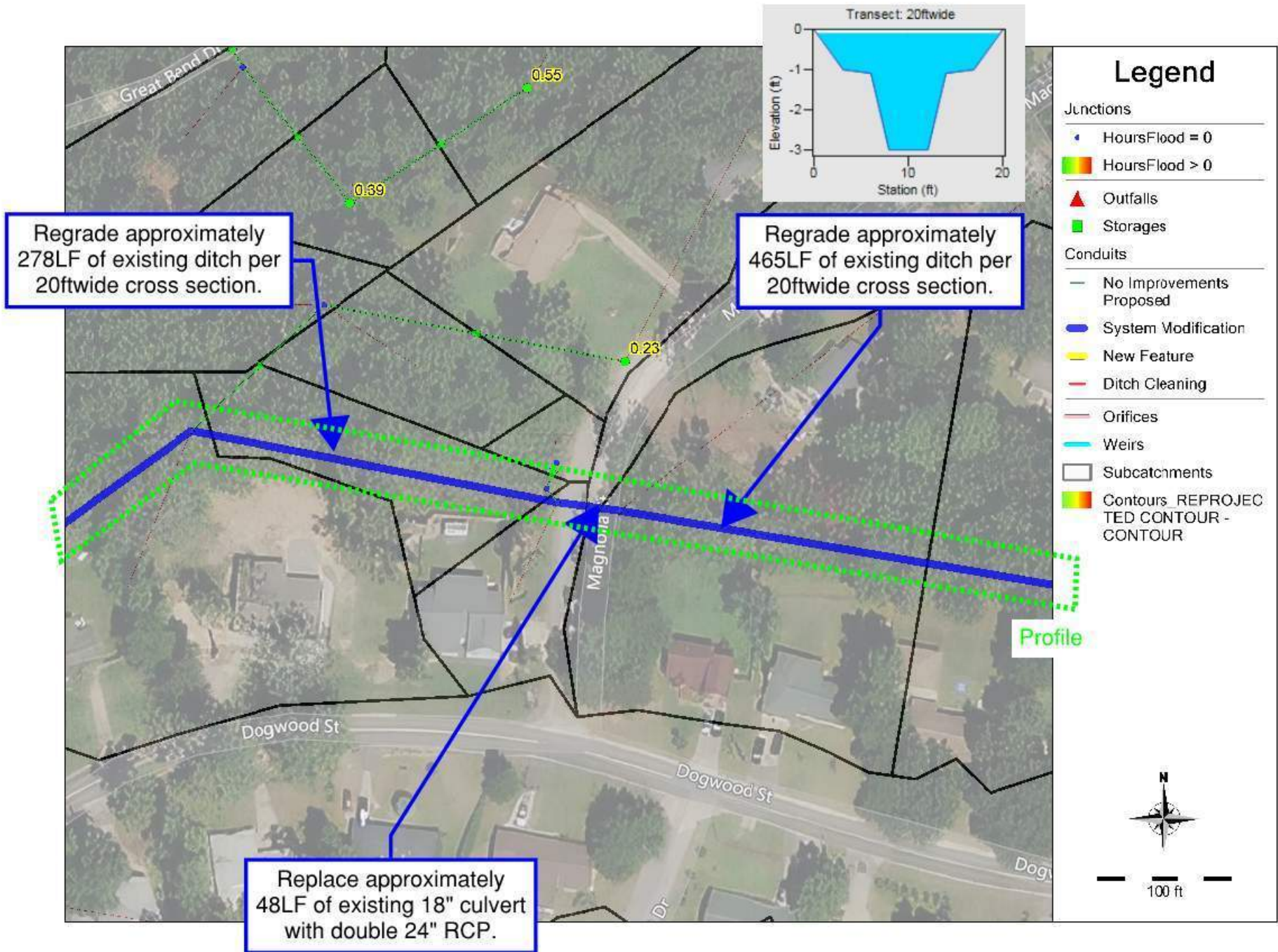


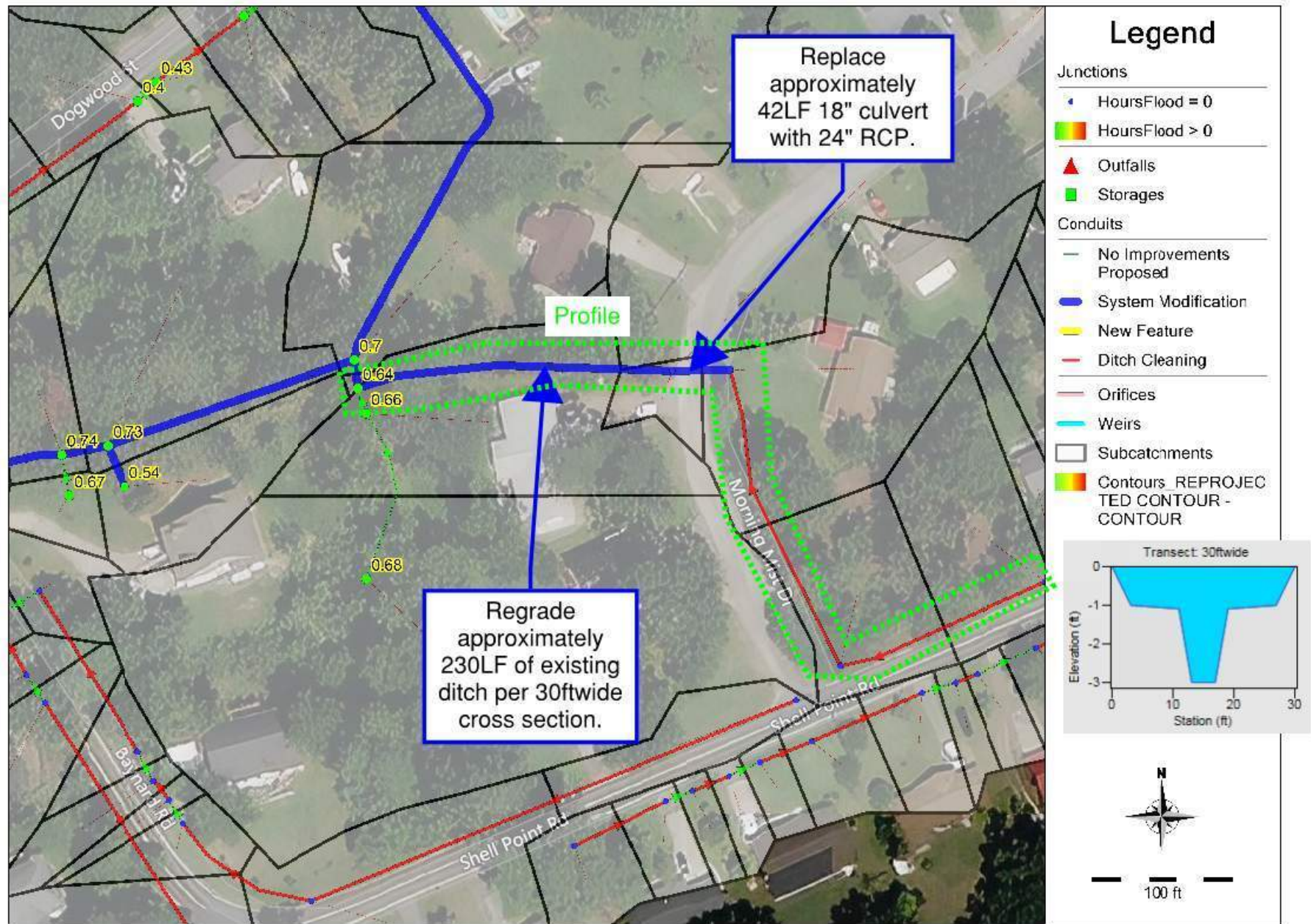












**Beaufort County Stormwater Utility
Proposed Budget for FY2022**

Unaudited Projected Revenue

	FY2021 Budget	FY2022 Proposed Budget	FY2022 Revised Proposed Budget
Revenue			
Admin SWU Fees	903,126	1,443,602	1,401,337
Unincorp/CWI SWU Fees	6,100,193	5,453,632	5,486,208
Total Revenue from SWU Fees	7,003,319	6,897,234	6,887,545
Interest	112,500	101,250	101,250
Other	11,175	20,975	20,975
Reserve Utilization			
Capital Improvement Fund	2,794,262	3,573,828	3,004,202
Projected Revenue Total	9,921,256	10,593,287	10,013,972

C/S of Management Budget \$291,724
(-\$90,356),
monitoring (\$170K) & PE/O (\$90K)
COB - \$33,984 **(-\$4,580)**
ToB - \$42,579 **(-\$10,079)**
ToHHI - \$114,414 **(-\$27,082)**
ToPR - \$21,471 **(-\$2,893)**
Unincorp BC \$339,277 **(-\$45,721)**
Additional Unincorp BC \$849,613
(+\$48,091)

CWI Fees - \$743,108 **(-\$33,395)**

(-\$569,626)

Efforts (Expenses)

	FY2021	FY2022	FY2022
Administration	575,550	482,080	391,724
Utility Activities			
UA/Annual Maintenance	4,782,884	4,713,726	4,503,389
UA/Drainage Enhancement	10,000	20,000	20,000
UA/Additional Studies	-	20,000	20,000
<i>Utility Activities Subtotal</i>	<i>4,792,884</i>	<i>4,753,726</i>	<i>4,543,389</i>
Regulation			
UA/Control Reg	872,789	1,169,937	1,161,916
UA/WQ Monitoring	120,000	170,000	170,000
UA/Public Information/Outreach	95,000	90,000	90,000
<i>Regulation Subtotal</i>	<i>1,087,789</i>	<i>1,429,937</i>	<i>1,421,916</i>
Reserve Utilization			
Brewer Memorial Demo Pond	600,000	13,000	13,000
Factory Creek Phase I	327	-	-
Factory Creek Phase II	20,550	-	-
Salt Creek South	248,496	1,099,639	1,099,639
Shanklin Road	341,820	1,604,995	1,604,995
Mossy Oaks	205,000	-	-
Camp St. Mary	342,000	-	-
Evergreen	840,000	1,650	1,650
Graves/Pepper Hall	500,000	750,000	750,000
Rock Springs Creek	43,052	-	-
Lucy Creek (Tuxedo Park)		87,659	87,659
<i>Capital Improvement Fund Subtotal</i>	<i>3,141,245</i>	<i>3,556,943</i>	<i>3,556,943</i>
Utility Operating Fund			
Capital Assets	323,788	370,600	100,000
Efforts Total	9,921,256	10,593,287	10,013,972

Personnel
Eliminated 1.2 FTEs and all budgeted expenses associated with the vacant positions.
(-\$90,356)

Personnel
Eliminated 6.4 FTEs.
Services and Supplies
Eliminated all budgeted expenses associated with the vacant positions removed from the budget. Eliminated all budgeted expenses for the requested capital purchases removed from the budget.
(-\$210,337)

Personnel
Eliminated 1.4 FTEs and created 1 FTE for a new position (Environmental Engineer).
Services and Supplies
Eliminated all budgeted expenses associated with the vacant positions removed from the budget. Eliminated all budgeted expenses for the requested capital purchase removed from the budget.
(-\$8,021)

Regulatory
\$100K - WQ Monitoring (Insitu) Equip Removed SUV **(-\$33,600)**
Infrastructure
Removed Lowboy Tractor and Trailer; Flatbed Trailer will be purchased in FY2021
(-\$237,000)



BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, September 8th, 2021
2:00 p.m.
Executive Conference Room, Administration Building
Beaufort County Government Robert Smalls Complex
100 Ribaut Road, Beaufort, South Carolina
843.255.2805

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

1. CALL TO ORDER – 2:00 p.m.
 - A. Approval of Agenda
 - B. Approval of Minutes – June 9th, 2021 ([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 – Katie Herrera ([backup](#))
 - E. Upcoming Professional Contracts Report – Katie Herrera ([backup](#))
 - F. Regional Coordination – Katie Herrera ([backup](#))
 - G. Municipal Reports – Katie Herrera ([backup](#))
 - H. MS4 Update – Katie Herrera ([backup](#))
 - I. Maintenance Projects Report – Matthew Rausch ([backup](#))
5. UNFINISHED BUSINESS
6. NEW BUSINESS
7. PUBLIC COMMENT
8. NEXT MEETING AGENDA
 - A. Wednesday, November 10th, 2021 ([backup](#))
9. ADJOURNMENT

