1. CALL TO ORDER – 2:00 p.m.
   A. Approval of Agenda
   B. Approval of Minutes – October 10, 2018 (backup)

2. INTRODUCTIONS

3. PUBLIC COMMENT

4. REPORTS
   A. Utility Update – Eric Larson, P.E. (backup)
   B. Monitoring Update – Eric Larson, P.E. (backup)
   D. Stormwater Related Projects – Eric Larson, P.E. (backup)
   F. Regional Coordination – Eric Larson, P.E. (backup)
   G. Municipal Reports – Eric Larson, P.E. (backup)
   H. MS4 Update – Eric Larson, P.E. (backup)

5. UNFINISHED BUSINESS
   A. Brewer Memorial Park Demonstration Project Expanded Scope Update

6. NEW BUSINESS
   A. Revised Capital Improvement Plan – Eric Larson, P.E. (backup)

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA
   A. December 12, 2018 (backup)

9. ADJOURNMENT
Beaufort County Stormwater Management Utility Board (SWMU Board) Meeting Minutes

October 10, 2018 at 2:00 p.m. in Executive Conference Room, Administration Building, Beaufort County Government Robert Smalls Complex, 100 Ribaut Road, Beaufort, South Carolina

Draft Minutes 10/16/2018

Board Members

Present
Don Smith
Marc Feinberg
James Fargher
Patrick Mitchell
Allyn Schneider

Absent
William Bruggeman

Ex-Officio Members

Present
Andy Kinghorn
Scott Liggett
Van Willis
Kim Jones

Absent

Beaufort County Staff

Eric Larson
David Wilhelm
Patricia Wilson
Eric Greenway

Visitors

Dr. Alan Warren, USCB Lab
Alice Howard, County Council
Ellen Comeau, Clemson Extension
Stacey French, SC DHEC
Ken Taylor, SC DHEC
Kevin Smith, Thomas & Hutton
Frank Turanu, Alliance Consulting Engineering

1. Meeting called to order – Don Smith
   A. Agenda – Approved with Additions.
      Additions to New Business
      E) Brewer Memorial Park Stormwater Demonstration Project Expanded Scope
      F) Extension of the Intergovernmental Agreement for the Stormwater Utility with
         the City of Beaufort
      G) Evergreen 319 Grant Project Approval, Funding, and Budget Amendment
   B. July 11, 2018 Minutes – Approved.

2. Introductions – Completed.

3. Public Comment(s) – None.

4. Special Presentation – DHEC Superfund and RCRA Programs – Ken Taylor & Stacey French – Ken Taylor, the Director Division of Site Assessment, Remediation & Revitalization, with SC DHEC explained that superfund is a federal program that has been around since 1980’s; it’s a pot of money to be used for sites that were placed on a National Priority List (NPL) by the EPA. It is a program led by EPA with input from the State.
   There are three primary sites in the area; Kalama (EPA), Wamchem (EPA), and Lobeco (State) as Independent Nail was delisted in 1995.
Mr. Feinberg asked if sites come on and off the list. Mr. Taylor responded that once they are cleaned up they come off of the list.

The Kalama site is a ground water situation, where they are trying to keep contamination from getting into the limestone aquifer. The idea is to pump it and keep it from getting down deeper using extraction wells.

Mr. Kinghorn asked about keeping it from moving down. Mr. Taylor explained they pump the shallow water to keep it out. It is a long term process. He explained every five years the sites go through a review. He mentioned that there is a responsible party who is paying the bill for the Kalama site clean-up.

In response to a question about alternatives to pumping, Mr. Taylor indicated if it is moving laterally you could create a wall filled with reactive material or there are injections to try to neutralize the chemicals. This site is a little tougher because it was wide range of chemicals.

The five year review for the site will take place in 2018 and he noted that the concentrations have been coming down over the years.

The Wamchem site was a dye factory and has been on the NPL in 1984. Springs Industry is responsible party. They are getting close to being cleaned up; only one chemical is above the level. He explained there is an NPDES discharge that is treated before it goes off site, and it cannot go over a certain concentration.

The Lobeco site is not on NPL list, but has been under DHEC order since the 1980’s. The site had several areas of concern, but most have been cleaned up. The new waste water lagoons have been tested and there is not much in them. A wall was created around the contaminated groundwater, but unfortunately behind a part that was moving off site so there are wells in that area. They are in the last phase of getting the ground water set up for remediation. Mr. Taylor explained that IC (Institutional Controls) are in place.

Mr. Smith asked if they see any stormwater concerns. Mr. Taylor mentioned they are mostly groundwater problems and when they have events, they try to tell them to turn off pumps until a storm passes.

Ms. Stacey French, manager of RCRA Resource Conservation and Recovery Act for DHEC, works with the Department of Defense. She expressed the idea is to manage the waste to not have as many Superfund sites. Parris Island Recruit Depot was listed on the NPL in 1994 (causeway landfill) and had endangered species. In addition to be on NPL, the Depot applied for a permit to store hazardous waste. They have a Federal Facilities Agreement with is a party team EPA, DHEC, and Naval Facilities for clean-up. There are 29 sites (petroleum, hazardous waste) designated as needing clean-up. Site 45 was a former dry cleaning facility and the contamination was moving laterally. Soil removal and injections have been done in this area. There is some detection in the discharge area, but they are not consistent. The plan is to repair the storm sewer as there are some cracks.

Marine Corps Air Station (MCAS) is not an NPL site and it doesn’t have EPA oversite. It is a RCRA, they applied for a permit as they have container storage. They have to determine how they manage the sites to not become a superfund site. There is no offsite impact. If they find new sites, they have to identify and address. Ms. French noted that MCAS has a great working relationship with DHEC.

Ms. French explained MCAS elected to do an interim measure to work with DHEC and OCRM to fix a stormwater problem, where they installed mats and regraded the area to stabilize the bank erosion.
Mr. Smith asked if they were monitoring the water around any of the sites. Ms. French indicated they do source area testing and move out to surface level if needed.

In conversation about the 3rd Battalion pond, she explained the detection in sediment and surface water by DHEC terms did not meet the requirements to be of concern, but EPA is based on older studies had concerns.

Ms. French shared that in the Laurel Bay Housing area, there are no known offsite impacts. In reference to the map, she explained that the green marked areas are ones DHEC has worked with and no additional action is needed and the blue areas are long term monitoring (LTM) sites, as they were not clean initially. Presentation attached.

5. Reports – Mr. Eric Larson and Mr. David Wilhelm provided a written report which is included in the posted agenda and can be accessed at: https://www.bcgov.net/departments/Administrative/beaufort-county-council/boards-and-commissions/council-appointed/board-list/stormwater-management-utility-board/agendas/2018/101018.pdf

Mr. Larson provided updates on few items from the August and September reports, as they were incorporated into the October packet.

In reference to the August Utility Update #2, the FAQ for regionalism was included as it answers many questions. This project continues to move forward and the kick off meeting has been held. All of Beaufort and Jasper County are participating with the exception of the Town of Hilton Head Island and Town of Ridgeland.

In reference to the August MS4 Update #10, Mr. Larson shared that Amber Woods is the new inspector and the department [regulatory] is now fully staffed.

In reference to the September Utility Update #3, stormwater is advertising for an Administrative Superintendent. The duties of the current superintendent position will be split into admin and operations. This new position will focus on data management.

In reference to September Utility Update #5, Katie Herrera won a structural BMP while at training and the plan is to install it on the Spanish Moss Trail.

In reference to the September Regional Coordination Update #9, Mr. Larson explained that money was being transferred back to capital funds to pay the Battery Creek 319 bill. Mr. Andy Kinghorn asked about the Gray’s concerns and Mr. Larson explained that trash rack needed cleaned, there was some erosion on the bank of the pond and some mowing was needed for the site.

In reference to the September MS4 Update item #10, a resolution in support of efforts by NACO will be going to the Natural Resources Committee.

A. Utility Update – Eric Larson

In reference to item #2, the County has MOA’s with everyone except the Town of Bluffton. The Town’s Council was supposed to take action last night.

The County is advertising for an Assistant Stormwater Manager to help with the day to day tasks, so Mr. Larson can focus on programmatic plans such the next 5-year plan. Also, the new MS4 permit will be issues this next year.

In reference to #5, Hilton Head’s financial info is attached. All others are pending; once they are available they will be shared in a future packet.
B. Monitoring Update – Eric Larson
   In reference to item #1A, monitoring of the Walmart site, they have been sampling and the pond is very effective in bacteria removal. As soon as it mixes with wetland water, the numbers jump back up. (See attached)

C. Stormwater Implementation Committee (SWIC) Report – Eric Larson
   Please reference the report, no additional updates.

D. Stormwater Related Projects – Eric Larson
   Mr. Larson provided an update on Alljoy. The County is looking into grant funding for a project or two in the area; ideas of buy-out program or regional stormwater facility to help mitigate flooding issues. In response to a question, Mr. Larson explained that flooding has historically been an issue (low lying area/elevation problem), but the frequency seems to be getting worse.

E. Professional Contracts Report – Eric Larson
   This item will be discussed under new business.

F. Regional Coordination – Eric Larson
   In reference to item #5, Pepper Hall, a meeting was held on Monday and this project is moving forward.

G. Municipal Reports – Eric Larson
   In reference to #3 City of Beaufort, the task force meeting has been canceled due to pending weather.

H. Municipal Separate Storm Sewer System (MS4 Update) – Eric Larson
   Mr. Larson explained the two new charts included in the packet, one is part of MCM5, an MS4 requirement which shows mapping efforts of the last three months with wet ponds being the biggest BMP. The plan is to go back and inspect BMP conditions in the next program year. Stormwater has purchased five new weather stations and the data is available by internet in real-time (weather underground). The County now has the ability to track rain events.
   In reference to item #7, the County received approval for changes to Stormwater management plan regarding construction permitting changes and is effective as of yesterday. The charges were a roll back of some previous rules set in place.
   Mr. Larson mentioned there will be an extension of the current MS4 permit, as the new one won’t be ready on time. The recommendation was to do two general permits, where there is an additional set of rules for coastal communities.

I. Maintenance Projects Report – David Wilhelm
   In reference to the Admin Building project under Stormwater Related Projects, it is a SCDOT system. Mr. Wilhelm explained that pipe joints were separating causing sink holes. A 580 foot section of 30” pipe will be lined by a contracting company from Jacksonville Florida. The work will take about a week. The patch off of Boundary Street is part of the same system and was completed by County crew two weeks ago.
The County will be in the Alljoy area to do some significant improvements, hoping to make the conditions better. The sweeper truck operator is working night shift Sunday thru Thursday. Facility Maintenance has a sweeper contract that runs out at the end of the year and this position will assume those duties when it ends.

In reference to the Animal Shelter Project, Stormwater improved drainage by grubbing, clearing and reconstructing 1,170 feet of channel and cleaning out 1,030 feet of roadside ditch. This helped dry out the site so the contractor could begin work.

In response to a question about the litter crew, Mr. Wilhelm indicated they are doing well, picking up around 7,000-9,000 pounds of litter a month.

Mr. Wilhelm shared that Thursday, November 1st is the fall clean up and is looking to be a large event with many partners, including Town of Bluffton and City of Beaufort having presence as well.

J. Financial Report

Mr. Larson pointed out the summary of the changes between last year and this year’s tax run results that was included in the packet.

6. Unfinished Business – None.

7. New Business

A. Special Presentation – DHEC Superfund and RCRA Programs – Presentation was moved to Item 4.

B. Easement Acquisition Updates –

Trask Parkway Update – Memo and Map included in the packet. A motion was made to proceed with condemnation on the Trask Properties. The motion was approved (5/0).

Oyster Street Update – Memo and Map included in packet. The County is requesting to abandon easement due to a structure on property. The property owner has given another easement on the property for the system. A motion was made to abandon easement on parcel 153A. The motion was approved (5/0).

C. 2019 SWMU Board Meeting Schedule – A motion was made to approve the proposed schedule. The motion was approved (5/0).

D. Brewer Memorial Park Stormwater Demonstration Project Expanded Scope -

The project is near Whitehall Boat Landing and is to modify and improve an existing pond. The County has partnered with Clemson University. Beaufort Open Land Trust owns the park and they plan to do a trail and reflection area in the park. The expanded scope plan incorporates several BMPs into the project such as porous pavement, raingarden, and tree boxes.

The proposed change order is for $27,800 to design and serve a much larger parcel (expanded scope for the parking and garden areas). A motion was made to approve the additional work at Brewer Memorial park. The motion was approved (5/0).

E. Extension of the Intergovernmental Agreement for the Stormwater Utility with the City of Beaufort – Mr. Larson explained that the County renewed the IGA with the City in
November 2016. This renewal (extension) is requested by the City, as they are proposing to do a bond issue and part of the process for a 25 year bond requires an agreement with funding sources (billing and collections for the life of the bond). The agreement would be extended for an additional 17 years. Mr. Feinberg asked if there is down side. Mr. Larson indicated there may be a few changes may be coming from the bond counsel, but doesn’t see anything currently that would be.

A motion was made to approve the recommendation to extend out from 25 years from today without any significant “word-smithing” changing the intent the agreement. The motion was approved (5/0).

F.  *Evergreen 319 Grant Project Funding and Budget Amendment* – Mr. Larson explained the Evergreen Tract is near the Okatie West site. The County applied for grant like the Okatie West pond. This project is smaller in scale and received grant approval. The attachment in the packet shows the mark-ups. It is a $690,000 project and applied for a grant for 60%. The County received a partial award of $229,000. The money is already budgeted, but it wasn’t programed for FY19. Now that the County has the grant they will start the design and need a budget amendment to move funds to this fiscal year.

In response to Mr. Smith’s question about how well the projects are working (monitoring data), Mr. Larson commented that the County started monitoring on the Okatie West project and for the Gray property is looking into what is causing the bacterial levels to drop off.

Mr. Larson shared that Okatie West is serving the entire pink area on the map (Sun City going to the little green stream) and Evergreen will be catching the runoff from HWY170 (northern half). Mr. Larson pointed out there are small sediment ponds that were part of the HWY 170 widening project that have been converted to water quality ponds.

A motion was made to approve the Evergreen project, accept the DHEC grant money and moving it into the 2019 budget. The motion was approved (5/0)

8. Public Comment(s) – None.

9. Next Meeting Agenda – Approved.

10. Meeting Adjourned
Purpose

• To fulfill the Board’s request for an overview of DHEC’s Superfund and RCRA Programs and an update on 6 Beaufort County sites – Kalama, Wamchem, Lobeco, Parris Island, Marine Corps Air Station and the Laurel Bay Housing Area.
Superfund
Kalama Specialty Chemicals

- 1973-1983, manufactured wide range of chemicals, including herbicides and plant-growth regulators
- 1979 explosion & fire, releasing chemicals
Kalama - Chemicals of Concern

- **Groundwater:**
  - VOCs (Benzene, 1,2-DCA)

- **Soil/Sediment:**
  - VOCs (BTEX, 1,2-DCA)
  - SVOCs (Benzoic Acid)
  - Metals (Pb, Cr, Ni, Hg)
Kalama - Remediation

- Listed on NPL 9/21/1994
- 1995, soil/sediment removal w/ off-site disposal
- 1998, groundwater pump & treat system
Kalama – Current Status

- Semi-annual sampling
- Ongoing delineation
- Evaluation of pulsing strategy
- 2018 Five Year Review
Wamchem

- 1950-1982, dye manufacturing
Wamchem – Chemicals of Concern

• Groundwater & Soil
  • VOCs (Benzene, 1,2,4-Trichlorobenzene, Acetone, Xylenes, 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dinitrotoluene)
  • SVOCs (Naphthalene)

• Only 1,2,4-Trichlorobenzene remains above remediation goal
Wamchem - Remediation

- Listed on NPL 9/21/1984
- 1993, soil removal, treated and backfilled
- 1996, groundwater pump & treat system began operating
Wamchem – Current Status

- Annual GW sampling
- Continue P&T
- Maintain Institutional Controls
- Next Five Year Review is 2019
Lobeco

- 1966 – Agricultural
- 1967-2009 Various Chemical Companies
- Sold to Coastal Demolition 17 April 2009
- 2012 Seized by County for delinquent taxes
- 2014 Sold to Nautica & Co. at auction on behalf of a Mr. Tao
- Site is Not an EPA NPL SF Site. DHEC is Overseeing RP Remedy
Lobeco Map

- Multiple “Operable Units”
- Former Drum Storage & ASTs
- Remediated Burn Site Area
- Remediated Lagoon Area
- Rubble Pile (Asbestos)
- Wastewater Treatment system and discharge line
Lobeco – Chemicals of Concern

• Solvents
  Trichloroethylene
  Cis-1,2-dichloroethylene
  TCE is present at up to 12,000 ug/L in groundwater

• PCBs
  Discharged to ground, wastewater lagoon.
  1990: Soil removal action
  2005 & 2010: Oyster sampling – results comparable to control and public oyster beds
  2012: EPA/DHEC study
Lobeco - Remediation

- 1990: PCB removal
  29,459 Tons of PCB contaminated soil and debris were removed, disposed as hazardous waste.

  Cleanup Goal: < 25ppm

- 8,700 tons from Burn Site
- 20,409 tons from Lagoon
- Contaminated debris, spent carbon from water treatment
Lobeco – Current Status

- Burn Area: Final GW Remedy Selection Pending to Protect Private Wells
- RLA: GW Mixing Zone
- PCBs: No further remedial action planned
- Asbestos: New owner working with DHEC
- ICs are in place
RCRA Federal Facilities
Marine Corps Recruit Depot - Parris Island

• Regulated under the 2005 Federal Facilities Agreement
• Cleanup team consists of EPA, NAVFAC, Parris Island, and DHEC
• 29 sites identified for investigation
Marine Corps Recruit Depot–Parris Island

Site Location Map
Site 45 Status

- Chlorinated Solvent release at a former drycleaner
  - Contamination is delineated and Treatability Studies completed
- Chemicals of Concern
  - Groundwater - VOCs
  - Soil – VOCs, PAHs, metals
Site 45 Remedy Development

- Documents for proposed Final Remedy are in progress. Remedy will consist of:
  - Source area soil excavation and removal
  - Groundwater treatment
    - ISEB and ISCO
  - Seal storm sewer to prevent groundwater discharge to creek
  - Monitored Natural Attenuation and Land Use Controls
Marine Corps Air Station Beaufort

• Regulated under RCRA Hazardous Waste Management Permit
• Clean up team consists of MCAS Beaufort, NAVFAC, and DHEC
• 106 sites identified for investigation
• No known off-site migration
Marine Corps Air Station Beaufort

Site Location Map
SWMU 3 Former Borrow Pit Landfill

- Extent of landfill delineated (~ 7 acres)
- Groundwater monitoring wells installed
- Chemicals of concern
  - Groundwater – metals
  - Soil – Dioxins, Furans, PCBs, metals
SWMU 3 Bank Erosion Control

• During investigation substantial erosion was identified

• An interim measure was completed for bank stabilization using marine mattresses

• This will be incorporated into a proposed final remedy and documented in a permit modification
Laurel Bay Housing Area

- 3.5 miles west of MCAS Beaufort
- ~ 1300 housing units
- ~ 1100 housing units formerly heated with oil stored in buried oil tanks in the yards of the houses
- All known buried tanks have been removed
- A small percentage of the tanks leaked
- The groundwater is being monitored at known leaks
- No known off-site migration
The Marines conducted a tank removal and investigation process. DHEC has been providing oversight.

- The map shows the current status.

- Further information regarding the status of investigations can be found at: https://www.beaufort.marines.mil/Resources/Laurel-Bay-Health-Study/
CONTACT US

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Stay Connected
Walmart / Sam’s Club Pond at Highways 46 and 278
# Fecal Coliform Removal Efficiency of Walmart Detention Pond*

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<th>Date</th>
<th>WMP IN</th>
<th>WMP OUT</th>
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Avg. % Decrease = 95.6

* Fecal Coliform Concentration in MPN of Colony Forming Units /100 ml
Stormwater Manager’s Report for the Stormwater Utility Board Meeting

Utility Update

1. Southern Lowcountry Regional Board (SoLoCo)
   a) Nothing new to report.
   b) See Regionalization below.

2. Regionalization
   a) Regional Stormwater Design Standard and Model Ordinance Project – The Consultant is conducting a series of meetings with each of the county and municipal stormwater staff to discuss needs and expectations. They are reviewing everyone’s current codes. This serves as a baseline for the study.
   b) Regionalization of programs – No action. This is pending additional discussion after the Reg. SW Std. is completed.

3. Annual Financial report from the Municipalities – 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 – Actuals pending CAFR completion. (December 2018 or January 2019)
   b) Town of Hilton Head Island – Received last month.
   c) Town of Bluffton – Attached.
   d) Town of Port Royal – No response.
   e) City of Beaufort – No response.

4. Special presentations – Staff has begun research on the various topics provided by the Board for future meetings:
   a) Military Site’s Stormwater management – Staff has made contact with representatives at MCAS, PI, and Naval Hospital. Site visits for Parris Island and the Naval Hospital have not been scheduled at this time.
   b) Living shorelines – No action at this time.
   c) Other ideas?

5. Tax Run After Action Meeting – Utility staff met with County GIS staff to discuss the good and bad of the recent tax run process with the goal of improving the work flow next year.
6. The County Council has hired an interim County Administrator, John Weaver. He begins work November 15th. Mr. Weaver has had previous administrative experience in Horry County and Lancaster County among other jobs. He is a lawyer by profession.

7. Eric Larson was recognized by the South Carolina Association of Stormwater Managers (SCASM) at the November 8, 2018 meeting for 2 years of service as President of the Association.

8. Several stormwater staff members participated in the County-wide litter clean up event on November 1, 2018. #we care.

Monitoring Update

1. Lab Update (From Dr. Alan Warren and Lab Manager Danielle Mickel)
   a) Beaufort County:
      i. Okatie Pond Bold & Gold sample requirements have changed and are being discussed with Bold & Gold, Beaufort County and USCB Lab.
      ii. Walmart Pond (Bluffton-278) collection and analysis is finished. Focusing efforts in other areas/projects.
      iii. Port Royal Cypress Wetlands collection and analysis requests have been completed. Report has been sent to Beaufort County (Katie Herrera).
      iv. Port Royal Redevelopment samples have been collected and analyzed for a wet event. The sampling schedule is quarterly.
      v. MS4 fourth quarter has started and we will continue collecting all sites for wet and dry events until the new monitoring plan is implemented.
      vi. Review of new Beaufort County Comprehensive Water Quality Monitoring Plan, submitted comments and waiting to schedule meeting with Beaufort County and consultant.
   b) USCB Lab:
      i. Discussions about sampling at Crystal Lake for fish. Deciding on which analyses are the most crucial to the project.
      ii. New hire started (Hamp Simkins) on 8/13/18 and proceeding to train.
      iii. Accepting weekly sample from Water Oak Utility for E.coli.
      iv. Monthly (and as needed) calibration of equipment and instruments.
      v. Exploration of new TKN method approved for state certification.
      vi. Certification Upkeep-including review of QA/QC, logbooks, COC’s.
      vii. On-going efforts to obtain additional certification; no new certs obtained during this Qtr.
      viii. Monthly sterility checks on Lab water for TOC, TRC, HPC, Conductivity, metals.
      ix. New laboratory management system is up and we are training and inputting lab information (sample site, clients, analyses, results, QA/QC requirements, reporting requirements, report format, etc...)
      x. Account tracking for all accounts-expenditures, deposits, ledgers, PO’s
      xi. Logistics, planning, scheduling of all activities.
      xii. Procurement of all required materials, supplies and equipment.
      xiii. Learning new University software for all expenses including purchases and
travel.

c) Town of Bluffton:
   i. Continue with weekly sample analysis.
   ii. Accepting samples for new project: EPA 319 Grant Town Hall Pervious Paving Parking Lot. Wet event samples but as often as possible before construction begins.
   iii. Additional bi-monthly nutrient (T-N, T-P) parameter analysis for NRP-pond site.
   iv. 4th Qtr MS4 has begun. USCB Lab continues to collect and share data with TOB for the shared BC MS4 sites.
   v. Invoice/cost tracking for Town of Bluffton.

d) Palmetto Bluff:
   i. Continued sampling efforts for wet and dry events (12x/year).
   ii. Data reduction/reporting.
   iii. Invoicing.

e) GEL-HHI:
   i. Continued analysis for Hilton Head Island E.coli samples 4x/Qtr, including data reduction/reporting, and invoicing.

2. Monitoring Plan updates – The Consultant is preparing a final draft based on comments from staff, USCB, and municipal partners. A meeting with Town of Port Royal to review the draft is scheduled for the end of the week. We are now planning for a January implementation.

Stormwater Implementation Committee (SWIC) Report

1. The SWIC has not met in the last month. SWIC members, minus Town of Hilton Head Island staff, met on October 8th for the regional stormwater standard project.
2. Charleston area MS4 group – Staff from Beaufort County and the Town of Hilton Head Island attended a quarterly meeting of the Charleston MS4s on October 23rd. Topics ranged from a comparison of local stormwater permitting procedures, post construction inspections and inventory, and regional efforts in the Charleston area and in Beaufort / Jasper Counties.

Stormwater Related Projects

1. Revised Capital Improvement Plan – With the completion of the 2018 Management Plan earlier this year, staff has revisited the CIP plan for the next ten years to project funding needs. At the request of the Natural Resources Committee in October, staff has prepared a summary of the CIP plan to present to NRC in November. (This will be presented under New Business)

2. Evergreen Regional Pond 319 Grant Project (Design=$100,000, Construction=$590,000. Grant=$229,124) – The County received a Clean Water Act Section 319 grant for the design and construction of this pond project. A kick off meeting with DHEC is scheduled for the first week of December. The RFQ for design was advertised
November 2nd. SOQ are due December 10, 2018.

3. Okatie West / SC 170 Widening Retrofit (Construction = $993,048, CO#1 Design $8,000, CO#1 &2 Const. $25,739) - Post construction monitoring plan continues. A proposal to ECS, the Bold and Gold vendor, for monitoring funding is still pending.

4. Wallace Road – SCDOT has denied our proposed plan for draining the ROW. Staff met with DOT staff on site and discussed alternative plans. The County has requested a letter from DOT with the official denial of our permit so that we can resubmit a new plan.

5. Administration Building Parking Lot and SCDOT pipe failures – (Liner construction = $131,625; remaining work in-house) Asphalt patching for the pipe under Marsh Road is scheduled for November 7th. The pipe lining contractor is scheduled to start November 8, 2018. After that work is complete, a second pipe (unneeded) will be safe loaded and abandoned.

6. Easements – Staff is working on numerous easement requests and meets monthly to review status. Several condemnations are still being pursued using outside legal counsel.

7. Complaints – Staff continually works numerous drainage related complaints each month. The stormwater manager met with the superintendent to go over multiple projects earlier in the month. All complaints are managed through the Beaufort County Connect system.

8. Alljoy subwatershed flooding – Staff continues to look into the feasibility of a FEMA grant to perform buy-outs and/or structure elevating. We need to conduct some follow up site visits and estimate costs. Next step would be to gain SWUB recommendation and County Council approval to cost match the proposed project(s). This is anticipated to be a large capital project and will likely require a SWU fee increase in the future to fund these projects.

Professional Contracts Report

1. CIP FY 18 Grouping Stormwater Projects – (Design - Ward Edwards $202,000, Andrews Engineering $560,490, Const. est. $5,512,900) – All projects are in early design phase.
   a) Concept plans for Salt Creek and Shanklin Road sites are still pending.
   b) The change order to expand the design and scope of the Brewer project was denied by County Council on November 5th. Council states a dissatisfaction with spending money on demonstration projects when funding was not available for flooding problems. Alljoy was referenced. This effectively ends the Brewer project since it is unlikely Council will approve the construction costs after denying a small change order for design. (This will be discussed under Old Business)
   c) Sawmill / Forby – concept design has indicated only a small benefit in peak rate reduction. Ward Edwards is working on a cost benefit analysis of the project to determine if it is feasible to go forward with design and construction.
Regional Coordination

1. 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) – Staff conducted a site visit this month. Construction continues. No additional update at this time.

2. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = $63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Staff conducted a site visit this month. Construction continues. No additional update at this time.

3. Town of Bluffton and Beaufort County Joint meetings on Sanitary Sewer in the May River watershed – No additional update at this time.

4. Mossy Oaks Task Force – (Design $20,404, Construction $205,000; County portions only). See Municipal Reports.

5. Graves Property / Pepper Hall Public / private partnership – The Development Agreement between the developer and County has had second reading by County Council. Third and final reading is scheduled for December 10. The agreement calls for stormwater to co-fund the drainage plan for the project 50/50 due to the independence of the development’s drainage and the County Park project at the same location.

6. US 278 “super street” widening on Jenkins Island (Windmill Harbor area) – A field review meeting was held on October 17th. The drainage design for the project consists of curb and gutter piped into an underground vaulting system for detention and infiltration. SCDOT has refused to own and operate the system and claim sovereignty over local codes. In the interest of protecting the environment, the County has reluctantly accepted the role of ownership and maintenance of the BMP. It will be designed and constructed using GO Bond revenue, not SWU fees. Maintenance will be SWU fees. Given that this section of road is adjacent to the municipal limits of the Town of Hilton Head Island, the County will recalculate the CWI fee after construction is complete and adjust the CWI amount charged based on this added infrastructure burden.

Municipal Reports

1. Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager and Brian Eber, MS4 Coordinator)
   i. See attached report.

2. Town of Bluffton (From Kim Jones, Watershed Management Division Director)
   i. See attached report.
   ii. County Staff did not attend the monthly May River WAPAC meeting in October.
3. City of Beaufort (From Neil Desai, Asst. Public Works Director)
   i. Mossy Oaks Task Force – A public meeting was held at Beaufort Middle School on October 24, 2018 at 6pm to discuss the project. Attendance was good. Generally, there was support for the project.
   ii. No additional 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. BMP mapping update. See attached chart.

5. Weather Station data. See attached chart.

6. Public Education – Lowcountry Stormwater Partners (LSP), via Carolina Clear, continues to work on several initiatives towards public education and outreach.
   a) LSP, the County, and the Town of Bluffton have launched a “That’s my Truck” naming contest for our new street sweeper and vac trucks, as well as Bluffton’s sweeper. School kids will color pictures and “name’ them. A “celebrity” panel of judges will pick the names. The winner gets a school visit from the trucks and their picture and name prominently displayed on the truck.
   b) MS4 staff held a LSP update meeting November 14, 2018.
   c) No additional information available to report.

7. Construction permitting – DHEC has approved our proposed revisions to our permitting process. The new procedures have been adopted and published and are in effect.


9. MS4 Statewide General permit – DHEC presented their plan for the MS4 permit revision at the SCASM meeting November 8, 2018. More details will follow.

11. BMP Manual update – Staff is working on a minor amendment to the BMP manual to incorporate the new permitting changes, correct clerical errors, and offer additional guidance on various standards in the manual. We are planning to present the revisions in December or January.

12. Demonstration BMP installation at the Administration Building – Hydro International donated a bio-infiltration curb box to the County. It was placed in the Administration Building Parking lot. Construction began November 13, 2018. Educational opportunities come from signage to be placed by Clemson Extension.
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<th>CREDITS</th>
<th>NET CHANGE</th>
<th>END BALANCE</th>
<th>Adj Entries</th>
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<td><strong>Grand</strong></td>
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# Town of Bluffton

**Budget and Actual - Stormwater Utility Fund**

**For Period Ending June 30, 2018**

*Unaudited as of 10-26-18*

## Revenues

<table>
<thead>
<tr>
<th></th>
<th>Prior YTD Actual</th>
<th>YTD Actual</th>
<th>Revised Budget</th>
<th>Actual vs Revised Budget as % of Budget</th>
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<tr>
<td><strong>Licenses &amp; Permits</strong></td>
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<td>Stormwater Fees</td>
<td>$1,276,930</td>
<td>$1,350,856</td>
<td>$1,344,080</td>
<td>$6,776</td>
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<td>Total Licenses &amp; Permits</td>
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<td>$1,350,856</td>
<td>$1,344,080</td>
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<td>State Grants</td>
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<td>-</td>
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<td>64,663</td>
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<td><strong>Miscellaneous Revenues</strong></td>
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<td>Total Miscellaneous Revenues</td>
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<td>$1,415,519</td>
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## Other Financing Sources

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<td><strong>Prior Year Fund Balance</strong></td>
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<tr>
<td><strong>Total Other Financing Sources</strong></td>
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## Total Revenues and Other Financing Sources

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<th>Prior YTD Actual</th>
<th>YTD Actual</th>
<th>Revised Budget</th>
<th>Actual vs Revised Budget as % of Budget</th>
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</thead>
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<tr>
<td></td>
<td>$1,287,138</td>
<td>$1,415,519</td>
<td>$1,344,230</td>
<td>$71,289</td>
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## Expenditures

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<th>YTD Actual</th>
<th>Revised Budget</th>
<th>Actual vs Revised Budget as % of Budget</th>
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<td><strong>Operating</strong></td>
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<tr>
<td>Watershed Management</td>
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<td>$740,633</td>
<td>$930,481</td>
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<td>Total Operating Expenditures</td>
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<tr>
<td></td>
<td>$724,056</td>
<td>$740,633</td>
<td>$930,481</td>
<td>$(189,848)</td>
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<tr>
<td><strong>Total Expenditures</strong></td>
<td>$820,804</td>
<td>740,633</td>
<td>930,481</td>
<td>$(189,848)</td>
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## Other Financing Uses

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<tr>
<th></th>
<th>Prior YTD Actual</th>
<th>YTD Actual</th>
<th>Revised Budget</th>
<th>Actual vs Revised Budget as % of Budget</th>
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</thead>
<tbody>
<tr>
<td><strong>Transfers Out</strong></td>
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<tr>
<td>Capital Improvements Program Fund</td>
<td>369,818</td>
<td>1,465,655</td>
<td>2,185,404</td>
<td>(719,749)</td>
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<tr>
<td>General Fund</td>
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<td>43,600</td>
<td>70,000</td>
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<td>Total Transfers</td>
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<td>1,509,255</td>
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<td><strong>Total Expenditures and Other Financing Uses</strong></td>
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<td>$2,249,888</td>
<td>$3,185,885</td>
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Stormwater Utility Board Meeting
Hilton Head Island
Monthly Report for October 2018

Reporting Period: October 1 to October 31, 2018

1. MS4 Update

<table>
<thead>
<tr>
<th>MCM1 Public Education &amp; Outreach</th>
<th>• Drafting update to stormwater page on Town’s website</th>
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</thead>
<tbody>
<tr>
<td>MCM2 Public Involvement &amp; Participation</td>
<td>• Prep underway for meeting w/ HHP POA &amp; golf courses regarding WQ, pond management &amp; illicit discharges (meeting 2 of 9 planned with large PUDs)</td>
</tr>
<tr>
<td>MCM3 Illicit Discharge Detection &amp; Elimination</td>
<td>4 Complaints received via Code Enforcement 3 Investigated 4 Eliminated or resolved</td>
</tr>
<tr>
<td>MCM4 Construction Site SW Runoff Control</td>
<td>7 Plan reviews w/ corrections required 12 Plan reviews approved 1 New LD Permit issued 10 Active permitted construction sites 10 Inspections completed 3 NOVs issued</td>
</tr>
<tr>
<td>MCM5 Post-Construction SW Management</td>
<td>• No LDP permitted construction completed as of Oct 31, 2018.  • Developing procedures for tracking and inspecting using Cartegraph when system is implemented</td>
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<tr>
<td>MCM6 Pollution Prevention/Good Housekeeping</td>
<td>• Building Dept. PP/GH presentation completed  • CD PP/GH scheduled for November</td>
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2. Service Requests

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<th>Closed in October</th>
<th>Total Open as of 10/31</th>
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<td>197</td>
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<td>Under Evaluation</td>
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<td>0</td>
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<td>3</td>
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<td><strong>Totals</strong></td>
<td><strong>217</strong></td>
<td><strong>6</strong></td>
<td><strong>1</strong></td>
<td><strong>223</strong></td>
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* Status change for closed requests or enforcement status changed to open referrals
3. Capital Improvements Update

A. Jarvis Creek SW Pump Station
Planning for major improvements including raising elevation of emergency power cutoff switch boxes, upgrades to electrical distribution, transfer switch and control systems, various safety improvements, and installation of mechanical debris screens to improve operational efficiency. Project is in conceptual design phase.

B. Sea Pines SW Pump Station
Reengineering pump wall-mount system. Project is in conceptual design phase.

C. Wexford SW Pump Station
Mitigation project to raise and reinforce upstream channel levee to repair damage caused by Hurricane's Matthew and Irma. Project is in preliminary design phase.

D. Wren Pond Emergency Spillway
Installation of an emergency spillway to protect pond embankment during extreme rainfall and tide surge events. Project is in preliminary design phase.

4. Maintenance, Repair & Rehabilitation Projects

A. Completed in September ($61,600)
   - Port Royal Trunk Line Channel Restoration – Phase VI (South Port Royal Drive Area) - $18,700
   - 2 Night Heron Lane – Sinkhole Repair - $17,300
   - 5 Sea Otter Lane – Pipe Replacement - $17,600
   - 6 Clarendon Lane & 26 Turnbridge Drive – Sinkhole Repairs - $8,000

B. Underway or Completed in October ($185,400)
   - Jarvis Creek Pump Station – Electrical System Repairs - $15,700
   - Channel Maintenance, workshelf/vegetation – Oakview Channel, Jarvis Creek Channel, Palmetto Headlands Ditches, Gum Tree Channel, Wexford/RV Resort Channel, Arrow Road Channel - $45,700
   - Port Royal Trunk Line Channel Restoration – Phase VII (Grasslawn Avenue Area) - $71,300
   - 50 Sedge Fern Drive – system cleaning, CCTV & Sinkhole Repairs - $37,100
   - 15 Marshland Road – channel maintenance - $2,500
   - 9 Junket – sinkhole repair- $3,400
   - Conservancy Court – sinkhole repairs - $6,000
   - 2 Fife Lane – structure repair - $3,700
C. Planned for November/December ($138,500)
   • Channel Maintenance, workshelf/vegetation – Old Woodlands, Folly Field
     Fiddlers Cove Outfall, Ashmore Channel, - $35,000
   • Sol Blatt Pkwy – pathway flume outfall capacity restoration - $3,100
   • Yacht Cove lagoon – sediment removal - $4,900
   • 12 Canvas Back Road – pipe installation - $20,000
   • 11 Spotted Sandpiper – pipe replacement - $20,000
   • 79 Fort Walker Drive – channel maintenance (sediment removal) - $9,000
   • 37 Deerfield Road – survey & drainage system improvements - $25,000
   • 271 Seabrook Drive – CCTV - $8,000
   • 82 Myrtle Bank Road – CCTV & clean - $10,000
   • Mathews Drive – Pathway erosion mitigation- $7,500
   • Leamington – sinkhole repairs at 3 locations - $6,000

5. Master Planning & Modeling Program

A. Palmetto Hall/Mitchelville Inventory & Modeling Project
   Town is completing negotiations with top ranking RFQ respondent Woolpert
   to undertake inventory, modeling, analysis and master plan development for
   this FY19 focus watershed.

B. Flood Plain Map Development (HHP, PRP and Point Comfort)
   Town is drafting an RFQ for advertisement. Project will develop inundation
   maps for various design storms for several watersheds where inventory and
   modeling tasks have previously been completed.

C. Gum Tree/Squire Pope/Stoney Inventory & Modeling Project
   FY19 budgeted project planned for advertisement in Q4.

D. Indigo Run/Gardner/Jonesville Inventory & Modeling Project
   FY19 budgeted project planned for advertisement in Q4.

6. Other Activities / Items of Interest
   • New Hire: Erik Ladd, PLA - Stormwater Operations & Maintenance
     Technician, started with the Town on October 22.

   • Hilton Head Island/Beaufort County hosted the 13th Annual SESWA
     Conference at the Marriott Resort in Palmetto Dunes, October 3-5.

   • Standardization of PUD Maintenance Agreements – Draft boilerplate
     document to be shared with Town Council Finance and Administrative
     Committee for review in late November or early December. Process by
     which other (smaller) POAs can apply for service will also be discussed.
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Additional Samples

Average Annual GeoMean

- **Truncated GeoMetric Mean**
- **Truncated 90th Percentile**

NS = No Sample

** = Town staff calculations utilizing DHEC statistics

**SC DHEC Shellfish Monitoring Stations Average Annual Fecal Coliform**

![Graph showing annual rainfall and fecal coliform levels over years](image-url)

**Additional Samples**
<table>
<thead>
<tr>
<th>ACTIVITY - POLICY</th>
<th>STATUS</th>
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<tr>
<td>May River Watershed Action Plan Update</td>
<td>To be completed with direction and input from Water Quality Technical Advisory Committee, May River Watershed Advisory Committee, and Town Council, public and staff. Action Plan Update is a FY19-20 priority of WAPAC and Council. WAPAC scope direction provided 2/22/18 to include watershed health indicators of bacteria, biotic &amp; abiotic parameters and social/cultural/economic indicators. Staff met with SCDHEC to confirm hybrid 5R and traditional watershed-based plan approach will be accepted. To be initiated at start of FY19 with anticipated completion in early FY20.</td>
</tr>
<tr>
<td>Sewer Connection &amp; Extension Policy</td>
<td>Council adopted the Sewer Connection &amp; Extension Policy on 9/26/17. WAPAC proposed prioritization phases for sewer extension in Historic District for FY 19-23 and recommended revisions to Sewer Connection Ordinance on 2/22/18. Staff has initiated septic system maintenance education via outreach and with Lowcountry Stormwater Partners. Town Council considered WAPAC recommended amendments to Sewer Connection Program on 4/10/18. Will consider for 2nd &amp; Final Reading upon Septic to Sewer Conversion Program establishment. Town Council Workshop of Septic to Sewer Conversion Program on 7/17/18. Ordinance and Program adoption completed 9/20/18.</td>
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<thead>
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<th>ACTIVITY - PROJECTS</th>
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<tr>
<td>Sanitary Sewer Extension</td>
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<tr>
<td>May River 319 Grant Phase 1 - New Riverside Pond (Grant award of $483,500 in 2009)</td>
<td>Buck Island/Simmonsville Road (BIS) Phases I, II, III and IV are completed. Toy Fields is completed. Six phases of sewer extension are proposed in the 5-year Capital Improvement Program. Current project updates are included in Engineering Consent Agenda under &quot;Sewer &amp; Water.&quot; Current project updates are included in Engineering Consent Agenda.</td>
</tr>
<tr>
<td>May River 319 Grant Phase 2 - Pine Ridge (Grant award of $290,000 in 2011)</td>
<td>Completed in 2013. Per water quality tests, a statistically significant reduction in fecal coliform bacteria concentration exists pre-pond versus post-pond. However, bacteria levels re-load prior to discharging into the May River, leading to additional BMP installation of Filtrexx proprietary filter socks. Installed 12/12/17 to maintain bacteria reduction. Downstream failing septic system was located by Staff and reported to County &amp; SCDHEC for remediation.</td>
</tr>
<tr>
<td>May River 319 Grant Phase 3 - Town Hall Parking Retrofit (Grant award of $231,350 in 2016)</td>
<td>Completed in 2016. In post-construction monitoring phase to assess project efficacy.</td>
</tr>
<tr>
<td>Stoney Creek Wetlands Restoration: Preliminary Design Phase</td>
<td>EPA &amp; DHEC permitted a workplan amendment for this grant award to include stormwater retrofits at Town Hall. Current project updates are included in Engineering Consent Agenda.</td>
</tr>
<tr>
<td>May River Watershed Water Quality Model</td>
<td>Wetlands restoration project with the goal to reduce stormwater volume reaching the May River. Conceptual design completed and approved by property owners. Current project updates are included in Engineering Consent Agenda.</td>
</tr>
<tr>
<td>2002 Palmetto Bluff Duck Pond Drainage area watershed model complete. Completed New Riverside BMP model for comparison to field observations. Rose Dhu Creek sub-watershed &quot;Existing Conditions&quot; portion of the Headwaters Water Quality Model initiated. Staff is obtaining quotes to complete the water quality model as part of Action Plan Update from ATM and McCormick Taylor.</td>
<td></td>
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<tr>
<td>ACTIVITY - FINANCIAL</td>
<td>STATUS</td>
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<tr>
<td>Additional Funding Opportunities</td>
<td>Exploring partnership opportunities with BJWSA for future sewer phases. WAPAC FY19-20 priority to assess Stormwater Utility Fee. SWU Fee Rate Model Update has commenced with Raftelis. Completion anticipated by 12/31/18.</td>
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<th>ACTIVITY - PROGRAMS</th>
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<tr>
<td>Public Outreach/Participation/Involvement (MS4 Minimum Control Measure #1 &amp; 2)</td>
<td>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. Current updates are included in Engineering Consent Agenda and Attachment 3.</td>
</tr>
<tr>
<td>Infrastructure Mapping/GIS (MS4 Minimum Control Measure #3)</td>
<td>Data points continue to be collected with new development to meet MS4 requirements &amp; populate water quality model. Current updates are included in Engineering Consent Agenda Attachment 4a.</td>
</tr>
<tr>
<td>Water Quality Monitoring Program (MS4 Minimum Control Measure #3)</td>
<td></td>
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<tr>
<td>Construction Site Stormwater Runoff Control Program (MS4 Minimum Control Measure #4)</td>
<td>Sediment and erosion control inspections with escalating enforcement response. Current updates are included in Engineering Consent Agenda Attachment 5.</td>
</tr>
<tr>
<td>Stormwater Plan Review &amp; Related Activity Program (MS4 Minimum Control Measure #5)</td>
<td>SCDHEC delegated plan review-related activities. Current updates are included in Engineering Consent Agenda Attachment 6.</td>
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<tr>
<td>Ditch Inspection/Maintenance Program (MS4 Minimum Control Measure #6)</td>
<td>Continued coordination with SCDOT, Beaufort County and Town Public Works to inspect and maintain ditches within the Town’s jurisdiction. Current updates are included in Engineering Consent Agenda Attachment 7 and under “Public Works.”</td>
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<tr>
<td>Septic System Maintenance Program</td>
<td>FY18 funding is $10,000 and administered by Growth Management via the Neighborhood Assistance Program (NAP). On-going assistance offered to Town residents regardless of financial status through Neighborhood Assistance Program. Current updates, as reported by NAP, are included in Engineering Consent Agenda Attachment 8.</td>
</tr>
<tr>
<td>Sewer Connection Program</td>
<td>In FY18 Council allocated $200,000 for a Sewer Connection Program as well as $10,000 for assistance to connect income-qualified individuals to existing sanitary sewer as part of the Neighborhood Assistance Program. Council adopted the Sewer Connection &amp; Extension Policy at 9/26/17 meeting. CIP projects were prioritized as part of FY19 Budgeting Process. Sewer Connection Ordinance 1st Reading 4/10/18. Septic to Sewer Conversion Program discussed at Council’s Quarterly Workshop on 7/17/18. Second &amp; final Ordinance changes and Program adoption completed at 9/20/18.</td>
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### MS4 Minimum Control Measure #3 – IDDE (Illicit Discharge Detection & Elimination): Stormwater Infrastructure Inventory

**Stormwater Infrastructure Inventory Collection Status**

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**FY 2018 Collection Totals**

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**FY 2017 Collection Totals**

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10/24/2018
MS4 Minimum Control Measure #3 – IDDE: Fecal Coliform Concentrations Trend Map
MS4 Minimum Control Measure #3 – IDDE: Microbial Source Tracking (MST) Trend Map

Microbial Source Tracking Trend Map
Headwaters May River

Microbial Source Tracking Trend Map
Old Town May River

MSTSamplingSites
Positive Hits

Times Sampled

Size of dot correlates to # of times the site has been sampled.

Drainage Flow Lines

Updated: 08/20/2018
MS4 Minimum Control Measure #3 – IDDE: Illicit Discharge Investigations

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FY 2019 YTD Totals
FY 2018 Totals
FY 2017 Totals
MS4 Minimum Control Measure #4 - Construction Site Stormwater Runoff Control

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10/24/2018
MS4 Minimum Control Measure #5
Stormwater Plan Review & Related Activity

Plan Reviews/MS4 Reviews
Certificate of Construction Compliance Inspections
Pre-Clearing Inspections
Sureties
Pre-Construction Inspections
Post-Constructions BMP Inspections
Pre-Application Meetings
Plan Review Hours (x10)

FY 2019 YTD Totals
- Plan Reviews MS4 Reviews: 91
- Sureties: 18
- Certificate of Construction Compliance Inspections: 19
- Pre-Construction Meetings: 12
- Pre-Clearing Inspections: 8
- Post Construction BMP Inspections: 25
- Pre-Application Meetings: 18
- Total Plan Review Hours: 326 Hrs.

FY 2018 Totals
- Plan Reviews MS4 Reviews: 242
- Sureties: 59
- Certificate of Construction Compliance Inspections: 50
- Pre-Construction Meetings: 32
- Pre-Clearing Inspections: 32
- Post Construction BMP Inspections: 88
- Pre-Application Meetings: 88
- Total Plan Review Hours: 1,210 Hrs.

FY 2017 Totals
- Plan Reviews MS4 Reviews: 253
- Sureties: 62
- Certificate of Construction Compliance Inspections: 96
- Pre-Construction Meetings: 47
- Pre-Clearing Inspections: 45
- Post Construction BMP Inspections: 7
- Pre-Application Meetings: 23
- Total Plan Review Hours: 1,265 Hrs.

10/24/2018
Citizen Drainage Concern Heat Map
(Drainage, Maintenance and Inspections)

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10/24/2018
Septic System Maintenance Assistance

Number of Septic Systems Maintained

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10/24/2018
Citizen Request for Watershed Mngt. Services & Activities Map

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10/24/2018
### MS4 Minimum Control Measure #5

**Stormwater Plan Review**

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<th>October</th>
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The table above provides the monthly and aggregated counts of Development Permit (COC's), Plan Review, and Permits Issued. The bar chart visualizes these data points, showing trends and comparisons across months.
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<td>10</td>
<td>13</td>
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</table>
Legend

**Post BMPs**

- Bioswale
- Dry
- Infiltration Trench
- MPTD
- Other
- Porous Pavement
- Rain Garden
- Underground Vault
- Wet

**Type**

Date: 11/2/2018

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Beaufort County Weather Stations
Daily Rainfall Amounts - October 2018

Monthly Totals (inches)
- Public Works: 5.8
- Shell Point: 5.41
- St. Helena: 2.95
- Sheldon: 4.09
- USCB Bluffton: 1.91
MEMORANDUM

Date: November 14, 2018

To: Stormwater Management Utility Board

From: David Wilhelm, P. E., Public Works Director

Re: Maintenance Project Report

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

Minor or Routine Projects:

- **Sheldon Bush Hog - Sheldon (SWUD 5):** This project improved 123,368 feet of drainage system. The scope of work included bush hogging 123,368 feet of channel. The total cost was **$54,411.47**.

- **Bluffton Vacuum Truck – Bluffton (SWUD 4):** This project improved 1,311 feet of drainage system. The scope of work included cleaning out 23 catch basins, jetting 11 crossline pipes, 24 driveway pipes, 102 feet of channel pipe and 1,209 feet of roadside pipe. The total cost was **$11,703.58**.

- **Alumni Road Channel – Lady’s Island (SWUD 7):** This project improved 3,217 feet of drainage system. The scope of work included cleaning out 3,217 feet of channel and installing 1 access gate. The total cost was **$6,279.30**.

- **Glaze Drive – Port Royal Island (SWUD 6):** This project improved 1,740 feet of drainage system. The scope of work included cleaning out 1,740 feet of roadside ditch and jetting 24 driveway pipes. The total cost was **$5,601.15**.

- **Milledge Village Road – Port Royal Island (SWUD 6):** The scope of work included installing 1 driveway pipe and rip rap for erosion control. The total cost was **$3,918.73**.

- **Frederick Drive – Port Royal Island (SWUD 9):** This project improved 533 feet of drainage system. The scope of work included cleaning out 533 feet of roadside ditch and jetting 6 driveway pipes. The total cost was **$3,806.54**.

- **Beaufort County Open Land Trust – Lady’s Island (SWUD 7):** The scope of work included grubbing and clearing perimeter of pond. The total cost was **$3,295.86**.

- **Godwin Road – Port Royal Island (SWUD 6):** This project improved 1,467 feet of drainage system. The scope of work included bush hogging 836 feet of roadside ditch, cleaning out 536 feet of roadside ditch and 95 feet of channel. The total cost was **$3,056.79**.

- **Bluffton Parkway – Bluffton (SWUD 4):** The scope of work included repairing a sinkhole. The total cost was **$2,496.37**.
• **David Green Road Channel #1 – St Helena Island (SWUD 8):** This project improved 1,155 feet of drainage system. The scope of work included removing a blockage from flowline and cleaning out 1,155 feet of channel. The total cost was $2,301.68.

• **Beaufort County Administrative Building – City of Beaufort (SWUD 1):** This project improved 856 feet of drainage system. The scope of work included cleaned out 1 manhole and jetting 856 feet of channel pipe. The total cost was $1,315.14.

• **James D. Washington Road Channel #1 – St Helena Island (SWUD 8):** This project improved 385 feet of drainage system. The scope of work included cleaning out 385 feet of channel. The total cost was $1,118.96.

• **Scott Hill Road – St Helena Island (SWUD 8):** This project improved 780 feet of drainage system. The scope of work included cleaning out 780 feet of roadside ditch. The total cost was $1,114.24.

• **McRiley Complex – Bluffton (SWUD 4):** The scope of work included repairing a sinkhole. The total cost was $754.43.
**Project Summary:** Sheldon Bush Hog

**Activity:** Routine/Preventive Maintenance  
**Duration:** 10/17/17 - 02/15/18

**Narrative Description of Project:**
First rotation 10/17/17 - 02/15/18: Project improved 123,368 L.F. of drainage system. Bush hogged 123,368 L.F. of channel. This project consisted of the following areas: Stroup Road (1,701 L.F.), Browns Island Road (3,025 L.F.), Gum Tree Lane (4,554 L.F.), Hunt Ter (3,837 L.F.), Middlefield Circle (4,033 L.F.), Keans Neck Road (2,313 L.F.), Coker Lane (1,757 L.F.), Coakley Drive (653 L.F.), Oakhurst Road (1,896 L.F.), Spann Circle (1,782 L.F.), Dan Drive (895 L.F.), Honeybee Island Road (690 L.F.), Wimbee Landing Road (15,920 L.F.), Old Dawson Acres (6,053 L.F.), Jasmine Hall Road (9,870 L.F.), River Oaks Road (2,884 L.F.), Pap Kee Lane (1,465 L.F.), Siegler Road (493 L.F.), Dean Hall Road (371 L.F.), Horace Dawson Lane (6,014 L.F.), Archie Sumpter Road (3,844 L.F.), Johnson Road (1,777 L.F.), Mitchell Road (4,928 L.F.), Fire Station Lane (1,257 L.F.), Paige Point Bluff (440 L.F.), Priester Road (1,480 L.F.), Robinson Hill Road (1,855 L.F.), Cuthbert Farm Road (802 L.F.), George Williams Lane (3,124 L.F.), William A Campbell Road (1,640 L.F.), Huspah Court South (2,506 L.F.), Huspah Court North (768 L.F.), Bailey Road (1,980 L.F.), Bailey Circle (1,218 L.F.), Nix Road (1,173 L.F.), Prescott Road (1,259 L.F.), African Baptist Church Road (2,308 L.F.), Horse Tail Road (4,341 L.F.), Dash Road (267 L.F.), Booker T Washington Circle (2,041 L.F.), Albertha Fields (2,158 L.F.), Big Estate Road (2,176 L.F.), Joseph Lane (985 L.F.), Newberry Circle (1,137 L.F.), Swallowtail Lane (2,388 L.F.), Gray Road (2,789 L.F.), Big Estate Circle (1,877 L.F.), Jenkins Road (643 L.F.)

### 2018-303 / Sheldon Bush hog

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<thead>
<tr>
<th>Activity</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
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**Beaufort County Public Works**  
*Stormwater Infrastructure*  
*Project Summary*

**Project Summary:** Bluffton Vacuum Truck  
Palmetto Beach Lane, Shelterwood Lane, Cherry Point Road, Cherry Point Road N, Sailors Choice, Bluffton Parkway, Vine Street, E. Morningside Drive, Foreman Hill Road, Bush Lane, Grande Oaks Drive, Allendale Street, Sutler Road, Mourning Dove Lane, Graves Road, Mullet Street, Trout Street and Black Fish Street

**Activity:** Routine/Preventive Maintenance  
**Duration:** 7/05/17-12/20/17

**Narrative Description of Project:**  

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<th>Duration</th>
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<td>2018-310 / Bluffton Vacuum Truck Sub Total</td>
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<td><strong>CBCO / Catch basin - clean out</strong></td>
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<td>2018-310 / Bluffton Vacuum Truck Sub Total</td>
</tr>
<tr>
<td><strong>CLPJ / Crossline Pipe - Jetted</strong></td>
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<td>2018-310 / Bluffton Vacuum Truck Sub Total</td>
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<tr>
<td><strong>CPJ / Channel Pipe - Jetted</strong></td>
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<td><strong>DEBREM / Debris Removal - Jobsite</strong></td>
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<td>2018-310 / Bluffton Vacuum Truck Sub Total</td>
</tr>
<tr>
<td><strong>DPJT / Driveway Pipe - Jetted</strong></td>
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<td>2018-310 / Bluffton Vacuum Truck Sub Total</td>
</tr>
<tr>
<td><strong>RSPJ / Roadside Pipe - Jetted</strong></td>
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<td>2018-310 / Bluffton Vacuum Truck Sub Total</td>
</tr>
<tr>
<td><strong>STBY / Stand By</strong></td>
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<td>2018-310 / Bluffton Vacuum Truck Sub Total</td>
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**2018-310 / Bluffton Vacuum Truck**

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<th>Labor Hours</th>
<th>Labor Cost</th>
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**Grand Total**

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<td>$3,766.92</td>
<td>$11,703.58</td>
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</table>
Jetted (2) driveway pipes.
Cleaned out (2) catch basins. Jetted (1) crossline pipe.
Jetted (1) crossline pipe and (1) driveway pipe.

Jetted (1) driveway pipe.

Jetted (1) crossline pipe.
Project: Bluffton Vacuum Truck - Sailors Choice Map #4

Activity: Routine/Preventive Maintenance

Project #: 2018-310

Township/SW Dist: Bluffton/4

Completed: December 2017

Prepared By: BC Stormwater Management Utility
Date Print: 04/25/18
File:C:\project summaries map/Bluffton Vac Truck- Sailors Choice Map #4_2018-310

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 (1) catch basin. Jetted 38 LF of roadside pipe.

Cleaned out (2) catch basins. Jetted 60 LF of roadside pipe.

Cleaned out (3) catch basins. Jetted 226 LF of roadside pipe.

Cleaned out (1) catch basin. Jetted 40 LF of roadside pipe.

Cleaned out (2) catch basins. Jetted 60 LF of roadside pipe.
Jetted (4) catch basins.
Cleaned out (1) catch basin. Jetted (1) driveway pipe and 56 LF of channel pipe.

Jetted 28 LF of roadside pipe.

Jetted (1) crossline pipe.

Legend

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

Project: Bluffton Vacuum Truck - Vine Street Map #6
Activity: Routine/Preventive Maintenance
Project #: 2018-310
Township/SW Dist: Bluffton/4
Completed: December 2017

Prepared By: BC Stormwater Management Utility
Date Print: 04/25/18
File: C:\project summaries map/Bluffton Vac Truck- Vine Street Map#6_2018-310
Cleaned out (2) catch basins. Jetted (1) crossline pipe and 30 LF of channel pipe.
Cleaned out (1) catch basin. Jetted (2) crossline pipes.
Jetted (1) crossline pipe.

Jetted 16 LF of channel pipe.
Jetted 285 LF of roadside pipe.

Cleaned out (2) catch basins. Jetted 396 LF of roadside pipe.

Legend

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

Project: Bluffton Vacuum Truck - Grande Oaks Drive Map #10
Activity: Routine/Preventive Maintenance
Project #: 2018-310
Township/SW Dist: Bluffton/4
Completed: December 2017

Prepared By: BC Stormwater Management Utility
Date Print: 04/25/18
File:C:\project summaries map/Bluffton Vac Truck- Grande Oaks Drive Map#10_2018-310
Jetted (1) driveway pipe.

Jetted (1) driveway pipe.

Legend

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

Project: Bluffton Vacuum Truck - Sutler Road Map #11
Activity: Routine/Preventive Maintenance
Project #: 2018-310
Township/SW Dist: Bluffton/4
Completed: December 2017

Prepared By: BC Stormwater Management Utility
Date Print: 04/25/18
File: C:\project summaries map/Bluffton Vac Truck- Sutler Road Map#11_2018-310
Project: Bluffton Vacuum Truck - Mourning Dove Lane Map #12
Activity: Routine/Preventive Maintenance
Project #: 2018-310
Township/SW Dist: Bluffton/4
Completed: December 2017

Legend

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

Prepared By: BC Stormwater Management Utility
Date Print: 04/25/18
File: C:\project summaries map/Bluffton Vac Truck- Morning Dove Lane Map#12_2018-310

Jetted (1) driveway pipe.
Jetted (7) driveway pipes.
Project: Bluffton Vacuum Truck - Graves Road Map #13

Activity: Routine/Preventive Maintenance

Project #: 2018-310

Township/SW Dist: Bluffton/4

Completed: December 2017

Jetted (1) crossline pipe.

Jetted (9) driveway pipes.

Legend

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

Prepared By: BC Stormwater Management Utility
Date Print: 04/25/18
File:C:\project summaries map/Bluffton Vac Truck- Graves Road Map#13_2018-310
Cleaned out (1) catch basin.

Jetted 16 LF of roadside pipe.

Legend

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

Project: Bluffton Vacuum Truck - Mullet Street Map #14

Activity: Routine/Preventive Maintenance

Project #: 2018-310

Township/SW Dist: Bluffton/4

Completed: December 2017

Prepared By: BC Stormwater Management Utility
Date Print: 04/25/18
File:C:\project summaries map/Bluffton Vac Truck- Mullet Street Map #9_2018-310
Cleaned out (1) catch basin. Jetted 22 LF of roadside pipe.
Project: Bluffton Vacuum Truck - Blackfish Street Map #16

Activity: Routine/Preventive Maintenance

Project #: 2018-310

Township/SW Dist: Bluffton/4

Completed: December 2017

Legend

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<th>Drainage Type</th>
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<tr>
<td>Bleeder Pipe</td>
<td>Pink</td>
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<tr>
<td>Channel Pipe</td>
<td>Blue</td>
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<tr>
<td>Channel</td>
<td>Green</td>
</tr>
<tr>
<td>Stream</td>
<td>Cyan</td>
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<tr>
<td>Crossline Pipe</td>
<td>Navy</td>
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<tr>
<td>Driveway Pipe</td>
<td>Orange</td>
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<tr>
<td>Lateral</td>
<td>Brown</td>
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<tr>
<td>Lateral Pipe</td>
<td>Magenta</td>
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<tr>
<td>River</td>
<td>Purple</td>
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<tr>
<td>Road Pipe</td>
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<td>Roadside</td>
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<tr>
<td>Roadside Pipe</td>
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Jetted 20 LF of roadside pipe.

Prepared By: BC Stormwater Management Utility
Date Print: 04/25/18
File: C:\project summaries map/Bluffton Vac Truck-Blackfish Street Map #16_2018-310
Cleaned out (2) catch basin. Jetted (1) crossline pipe.
Project: Bluffton Vacuum Truck - Allendale Street Map #18

Activity: Routine/Preventive Maintenance

Project #: 2018-310

Township/SW Dist: Bluffton/4

Completed: December 2017

Jetted 78 LF of roadside pipe.
**Project Summary**: Alumni Road Channel

**Activity**: Routine/Preventive Maintenance

**Duration**: 03/30/18-04/19/18

**Narrative Description of Project:**

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<th>Labor Hours</th>
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<th>Equipment Cost</th>
<th>Material Cost</th>
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<tr>
<td>Grand Total</td>
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<td>$3,261.83</td>
<td>$759.02</td>
<td>$324.95</td>
<td>$0.00</td>
<td>$1,933.50</td>
<td>$6,279.30</td>
</tr>
</tbody>
</table>

(No Pictures Available)
Cleaned out 592 LF of channel.

Cleaned out 1,860 LF of channel.

Cleaned out 765 LF of channel.

Installed (1) access gate.

Project: Alumni Road Channel
Activity: Routine/Preventive Maintenance
Project #: 2018-595
Township/SW Dist: Ladys Island/7
Completed: April 2018

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

Prepared By: BC Stormwater Management Utility
Date Print: 06/25/18
File: C:\project summaries map/Alumni Road Channel_2018-595
**Project Summary:** Glaze Drive

**Activity:** Routine/Preventive Maintenance

**Duration:** 05/22/18-07/09/18

**Narrative Description of Project:**

<table>
<thead>
<tr>
<th>2018-610 / Glaze Drive</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
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<tbody>
<tr>
<td>AUDIT / Audit Project</td>
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<td>$21.79</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
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<td>$21.79</td>
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<tr>
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<td>28.0</td>
<td>$623.84</td>
<td>$536.48</td>
<td>$125.15</td>
<td>$0.00</td>
<td>$401.52</td>
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<tr>
<td>HAUL / Hauling</td>
<td>32.0</td>
<td>$645.64</td>
<td>$339.42</td>
<td>$89.31</td>
<td>$0.00</td>
<td>$26.63</td>
<td>$1,101.00</td>
</tr>
<tr>
<td>RSDCL / Roadside Ditch - Cleanout</td>
<td>70.0</td>
<td>$1,507.50</td>
<td>$399.10</td>
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<td>$0.00</td>
<td>$716.10</td>
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<tr>
<td><strong>2018-610 / Glaze Drive Sub Total</strong></td>
<td><strong>132.5</strong></td>
<td><strong>$2,835.82</strong></td>
<td><strong>$1,275.00</strong></td>
<td><strong>$326.24</strong></td>
<td><strong>$0.00</strong></td>
<td><strong>$1,164.10</strong></td>
<td><strong>$5,601.15</strong></td>
</tr>
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</table>

**Grand Total**

**Before**

**During**

**After**
Project: Glaze Drive
Activity: Routine/Preventive Maintenance
Project #: 2018-610
Township/SW Dist: Port Royal Island/6
Completed: July 2018

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 1,040 LF of roadside ditch.
Cleaned out 700 LF of roadside ditch.
Jetted (24) LF of driveway pipes.
Project Summary: Milledge Village Road

Activity: Routine/Preventive Maintenance  
Duration: 03/08/18-03/27/18

Narrative Description of Project:
Installed (1) driveway pipe and rip rap for erosion control.

<table>
<thead>
<tr>
<th>Description</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASI / Asphalt Installation</td>
<td>20.0</td>
<td>$431.60</td>
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</tr>
<tr>
<td>AUDIT / Audit Project</td>
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<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$10.90</td>
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<tr>
<td>DPINS / Driveway Pipe - Installed</td>
<td>32.0</td>
<td>$690.56</td>
<td>$142.37</td>
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<td>$0.00</td>
<td>$0.00</td>
<td>$6.62</td>
<td>$18.97</td>
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</tbody>
</table>

2018-584 / Milledge Village Road Sub Total

|                             |             |             |                |               |                 |
|-----------------------------|-------------|-------------|----------------|---------------|
| 69.0                        | $1,504.19   | $288.19     | $1,329.21      | $0.00         |

Grand Total 69.0 $1,504.19 $288.19 $1,329.21 $0.00 $797.14 $3,918.73
Installed (1) driveway pipe and rip rap for erosion control.
**Project Summary**: Frederick Drive

**Activity**: Routine/Preventive Maintenance

**Duration**: 05/22/18-07/10/18

**Narrative Description of Project:**

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor Cost</th>
<th>Total Cost</th>
</tr>
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<tbody>
<tr>
<td>AUDIT / Audit Project</td>
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<td>0.5</td>
<td>$10.90</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
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<td>$10.90</td>
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<tr>
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<td>20.0</td>
<td>20.0</td>
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<td>$383.20</td>
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<td>17.0</td>
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<td>$68.70</td>
<td>$0.00</td>
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<td>$640.29</td>
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<tr>
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<td>45.0</td>
<td>45.0</td>
<td>$1,082.40</td>
<td>$206.22</td>
<td>$50.02</td>
<td>$0.00</td>
<td>$616.35</td>
<td>$1,954.99</td>
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<td>UTLOC / Utility locates</td>
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<td>0.5</td>
<td>$12.35</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$6.62</td>
<td>$18.97</td>
</tr>
<tr>
<td>2018-613 / Frederick Drive Sub Total</td>
<td>83.0</td>
<td>83.0</td>
<td>$1,918.80</td>
<td>$740.20</td>
<td>$184.52</td>
<td>$0.00</td>
<td>$963.02</td>
<td>$3,806.54</td>
</tr>
</tbody>
</table>

**Grand Total** 83.0 | $1,918.80 | $740.20 | $184.52 | $0.00 | $963.02 | $3,806.54
Cleaned out 533 LF of roadside ditch. Jetted (6) driveway pipes.
Project Summary: Beaufort County Open Land Trust

Narrative Description of Project:
Grubbed and cleared perimeter of pond.

<table>
<thead>
<tr>
<th>2018-547 / Beaufort County Open Land Trust</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
<td>0.5</td>
<td>$10.90</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$10.90</td>
</tr>
<tr>
<td>DEBREM / Debris Removal - Jobsite</td>
<td>18.0</td>
<td>$364.68</td>
<td>$21.60</td>
<td>$38.08</td>
<td>$0.00</td>
<td>$225.90</td>
<td>$650.26</td>
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<tr>
<td>HAUL / Hauling</td>
<td>8.5</td>
<td>$163.88</td>
<td>$80.07</td>
<td>$118.37</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$362.32</td>
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<tr>
<td>PGC / Pond - Grubb and Clear</td>
<td>66.0</td>
<td>$1,451.82</td>
<td>$110.40</td>
<td>$21.53</td>
<td>$0.00</td>
<td>$688.64</td>
<td>$2,272.39</td>
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<tr>
<td>2018-547 / Beaufort County Open Land Trust Sub Total</td>
<td>93.0</td>
<td>$1,991.28</td>
<td>$212.07</td>
<td>$177.98</td>
<td>$0.00</td>
<td>$914.54</td>
<td>$3,295.86</td>
</tr>
</tbody>
</table>

Grand Total                                | 93.0        | $1,991.28  | $212.07        | $177.98       | $0.00          | $914.54             | $3,295.86  |

(Pictures Not Available)
Grubbed and cleared perimeter of pond.
**Project Summary**: Godwin Road

**Activity**: Routine/Preventive Maintenance

**Duration**: 05/02/18-05/10/18

**Narrative Description of Project:**

### 2018-605 / Godwin Road

<table>
<thead>
<tr>
<th>Activity</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
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<td>$10.90</td>
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<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$10.90</td>
</tr>
<tr>
<td>CBH / Channel- bushhoggled</td>
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</tr>
<tr>
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<td>RSDCL / Roadside Ditch - Cleanout</td>
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<td>$230.99</td>
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<td>$0.00</td>
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<td>$2,102.76</td>
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<tr>
<td>UTLOC / Utility locates</td>
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<td>$12.35</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$6.62</td>
<td>$18.97</td>
</tr>
<tr>
<td>2018-605 / Godwin Road 2018-605 Sub Total</td>
<td>70.0</td>
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<td>$95.96</td>
<td>$0.00</td>
<td>$948.10</td>
<td>$3,056.79</td>
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<tr>
<td>Grand Total</td>
<td>70.0</td>
<td>$1,603.86</td>
<td>$408.87</td>
<td>$95.96</td>
<td>$0.00</td>
<td>$948.10</td>
<td>$3,056.79</td>
</tr>
</tbody>
</table>

### Before

![Before Image]

### During

![During Image]

### After

![After Image]

Cleaned out 95 LF of channel.
**Project Summary:** Bluffton Parkway

**Narrative Description of Project:**
Repaired sinkhole.

### Activity: Routine/Preventive Maintenance
**Duration:** 10/11/17-10/12/17

<table>
<thead>
<tr>
<th>Activity</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
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<td>$10.90</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$10.90</td>
</tr>
<tr>
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<tr>
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<td>$0.00</td>
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<tr>
<td>SD / Soft Digging</td>
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<tr>
<td>2018-539 / Bluffton Parkway Sub Total</td>
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</table>

**Grand Total**

<table>
<thead>
<tr>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>63.5</td>
<td>$1,400.39</td>
<td>$221.75</td>
<td>$227.37</td>
<td>$0.00</td>
<td>$646.87</td>
<td>$2,496.37</td>
</tr>
</tbody>
</table>

(Picture Not Available)
Project: Bluffton Parkway
Activity: Routine/Preventive Maintenance
Project #: 2018-539
Township/SW Dist: Bluffton/4
Completed: October 2017

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 = 83 feet

Prepared By: BC Stormwater Management Utility
Date Print: 08/13/18
File: C:\project summaries map/Bluffton Parkway_2018-539

Repaired sinkhole.
**Project Summary:** David Green Road Channel #1

**Activity:** Routine/Preventive Maintenance  
**Duration:** 01/12/18

**Narrative Description of Project:**  
Project improved 1,155 L.F. of drainage system. Removed blockage from flowline. Cleaned out 1,155 L.F. of channel.

<table>
<thead>
<tr>
<th>Description</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
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<td>$10.90</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$10.90</td>
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<td>HAUL / Hauling</td>
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<td>$108.33</td>
<td>$52.67</td>
<td>$0.00</td>
<td>$165.83</td>
<td>$677.63</td>
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<tr>
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<tr>
<td><strong>2018-563 / David Green Road Channel #1 Sub Total</strong></td>
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<td><strong>$89.31</strong></td>
<td><strong>$0.00</strong></td>
<td><strong>$530.74</strong></td>
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</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>46.0</strong></td>
<td><strong>$1,428.19</strong></td>
<td><strong>$253.45</strong></td>
<td><strong>$89.31</strong></td>
<td><strong>$0.00</strong></td>
<td><strong>$530.74</strong></td>
<td><strong>$2,301.68</strong></td>
</tr>
</tbody>
</table>

Before  
During  
(No Picture Available)
Cleaned out 120 LF of channel.

Cleaned out 1,035 LF of channel. Removed blockage from flowline.
**Project Summary**: Beaufort County Administrative Building

**Activity**: Routine/Preventive Maintenance

**Duration**: 05/31/17-06/01/17

**Narrative Description of Project:**


<table>
<thead>
<tr>
<th>2017-556 / Beaufort County Administrative Building</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
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<td>$10.90</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$10.90</td>
</tr>
<tr>
<td>CPJ / Channel Pipe - Jetted</td>
<td>30.0</td>
<td>$668.40</td>
<td>$130.20</td>
<td>$75.44</td>
<td>$0.00</td>
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<td>$1,304.24</td>
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<tr>
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<td>30.5</td>
<td>$679.30</td>
<td>$130.20</td>
<td>$75.44</td>
<td>$0.00</td>
<td>$430.20</td>
<td>$1,315.14</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td><strong>30.5</strong></td>
<td><strong>$679.30</strong></td>
<td><strong>$130.20</strong></td>
<td><strong>$75.44</strong></td>
<td><strong>$0.00</strong></td>
<td><strong>$430.20</strong></td>
<td><strong>$1,315.14</strong></td>
</tr>
</tbody>
</table>

![Before](image1.jpg) ![During](image2.jpg) ![After](image3.jpg)
Project: Beaufort County Administration Building
Activity: Routine/Preventive Maintenance
Project #: 2017-556
Township/SW Dist: City of Beaufort/1
Completed: June 2017

Legend

<table>
<thead>
<tr>
<th>Drainage Type</th>
<th>Symbol</th>
</tr>
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<tbody>
<tr>
<td>Access Pipe</td>
<td>Red</td>
</tr>
<tr>
<td>Bleeder Pipe</td>
<td>Pink</td>
</tr>
<tr>
<td>Channel Pipe</td>
<td>Black</td>
</tr>
<tr>
<td>Channel</td>
<td>Blue</td>
</tr>
<tr>
<td>Stream</td>
<td>Light blue</td>
</tr>
<tr>
<td>Crossline Pipe</td>
<td>Green</td>
</tr>
<tr>
<td>Driveway Pipe</td>
<td>Dark brown</td>
</tr>
<tr>
<td>Lateral</td>
<td>Orange</td>
</tr>
<tr>
<td>Lateral Pipe</td>
<td>Light orange</td>
</tr>
<tr>
<td>River</td>
<td>Purple</td>
</tr>
<tr>
<td>Road Pipe</td>
<td>Magenta</td>
</tr>
<tr>
<td>Roadside</td>
<td>Yellow</td>
</tr>
<tr>
<td>Roadside Pipe</td>
<td>Dark green</td>
</tr>
</tbody>
</table>

Cleaned out (1) manhole. Jetted 636 LF of channel pipe.

Jetted 220 LF of channel pipe.
**Project Summary:** James D Washington Road Channel #1

**Activity:** Routine/Preventive Maintenance

**Duration:** 05/21/18-06/07/18

**Narrative Description of Project:**
Project improved 385 L.F. of drainage system. Cleaned out 385 L.F. of channel.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
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<td>$10.90</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$10.90</td>
</tr>
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<td>$420.54</td>
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<tr>
<td>HAUL / Hauling</td>
<td>8.0</td>
<td>$178.16</td>
<td>$75.36</td>
<td>$45.18</td>
<td>$0.00</td>
<td>$115.36</td>
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<td>LM / Loading Materials</td>
<td>5.0</td>
<td>$99.30</td>
<td>$60.40</td>
<td>$52.71</td>
<td>$0.00</td>
<td>$61.05</td>
<td>$273.46</td>
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<tr>
<td>2018-608 / James D Washington Road Channel #1 Sub Total</td>
<td>25.5</td>
<td>$531.48</td>
<td>$178.79</td>
<td>$130.52</td>
<td>$0.00</td>
<td>$278.17</td>
<td>$1,118.96</td>
</tr>
<tr>
<td><strong>Grand Total</strong></td>
<td>25.5</td>
<td><strong>$531.48</strong></td>
<td><strong>$178.79</strong></td>
<td><strong>$130.52</strong></td>
<td><strong>$0.00</strong></td>
<td><strong>$278.17</strong></td>
<td><strong>$1,118.96</strong></td>
</tr>
</tbody>
</table>

**Before**

![Before Image](image1)

**During**

![During Image](image2)

**After**

![After Image](image3)

*(Picture Not Available)*
Cleaned out 385 LF of channel.
Project Summary: Scott Hill Road

Activity: Routine/Preventive Maintenance
Duration: 02/06/18-02/12/18

Narrative Description of Project:
Project improved 780 L.F. of drainage system. Cleaned out 780 L.F. of roadside ditch.

<table>
<thead>
<tr>
<th>2018-572 / Scott Hill Road</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
<td>0.5</td>
<td>$10.90</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$10.90</td>
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<tr>
<td>HAUL / Hauling</td>
<td>15.0</td>
<td>$314.30</td>
<td>$141.30</td>
<td>$66.64</td>
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<td>$0.00</td>
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<tr>
<td>RSDCL / Roadside Ditch - Cleanout</td>
<td>15.0</td>
<td>$303.90</td>
<td>$67.54</td>
<td>$21.42</td>
<td>$0.00</td>
<td>$188.25</td>
<td>$581.11</td>
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<td>2018-572 / Scott Hill Road Sub Total</td>
<td>30.5</td>
<td>$629.10</td>
<td>$208.84</td>
<td>$88.06</td>
<td>$0.00</td>
<td>$188.25</td>
<td>$1,114.24</td>
</tr>
<tr>
<td>Grand Total</td>
<td>30.5</td>
<td>$629.10</td>
<td>$208.84</td>
<td>$88.06</td>
<td>$0.00</td>
<td>$188.25</td>
<td>$1,114.24</td>
</tr>
</tbody>
</table>

Before | During | After
Cleaned out 780 LF of roadside ditch.
**Project Summary:** McRiley Complex

**Activity:** Routine/Preventive Maintenance  
**Duration:** 03/05/18

**Narrative Description of Project:** 
Repaired sinkhole.

<table>
<thead>
<tr>
<th>2018-582 / MC Riley Complex</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
<td>0.5</td>
<td>$10.90</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$10.90</td>
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<tr>
<td>SR / Sinkhole repair</td>
<td>16.0</td>
<td>$376.94</td>
<td>$36.00</td>
<td>$83.64</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$743.54</td>
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<tr>
<td>2018-582 / MC Riley Complex Sub Total</td>
<td>16.5</td>
<td>$387.84</td>
<td>$36.00</td>
<td>$83.64</td>
<td>$0.00</td>
<td>$246.96</td>
<td>$754.43</td>
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</tbody>
</table>

**Grand Total**  
16.5 $387.84 $36.00 $83.64 $0.00 $246.96 $754.43

(Pictures Not Available)
<table>
<thead>
<tr>
<th>CAPITAL PROJECTS</th>
<th>FY2017 ACTUALS</th>
<th>FY2018 UNAUDITED ACTUALS</th>
<th>FY2019 REVISED BUDGET</th>
<th>FY2020 BUDGET</th>
<th>FY2021 BUDGET</th>
<th>FY2022 BUDGET</th>
<th>FY2023 BUDGET</th>
<th>FY2024 BUDGET</th>
<th>FY2025 BUDGET</th>
<th>FY2026 BUDGET</th>
<th>FY2027 BUDGET</th>
<th>FY2028 BUDGET</th>
<th>FY2029 BUDGET</th>
<th>FY2030 BUDGET</th>
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<tbody>
<tr>
<td>Okatie East (Completed)</td>
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<tr>
<td>SC170/Oktie West 319 Project</td>
<td>51,371</td>
<td>946,213</td>
<td>112,741</td>
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<td>Hwy 278 Retrofit (Completed)</td>
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<tr>
<td>Admin Bldg Parking Lot (Pervious Paving)</td>
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<td>Buckingham Plantation</td>
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<td>Brewer Memorial Park Demonstration Wet Pond</td>
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<td>17,338</td>
<td>100,462</td>
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<tr>
<td>Hwy 319 (Completed)</td>
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<tr>
<td>Factory Creek M2 Phase I</td>
<td>62,930</td>
<td>5,142</td>
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<tr>
<td>Factory Creek M2 Phase II</td>
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<tr>
<td>Salt Creek South M1 (2017 Masterplan $2,117,730)</td>
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<td>444,774</td>
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<td>Shanklin Road M2 (2017 Masterplan $3,458,787)</td>
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<td>639,144</td>
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<td>Grober Hill M2 (2017 Masterplan $2,614,801)</td>
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<td>Sawmill Creek / Forby Site (2017 Masterplan $155,535)</td>
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<td>80,819</td>
<td>560,000</td>
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<td>Camp St. Mary M2 (2017 Masterplan $3,890,617)</td>
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<td>165,000</td>
<td>1,783,617</td>
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<tr>
<td>Battery Creek West M1 (2017 Masterplan $4,287,238)</td>
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<tr>
<td>Paige Point Overtopping</td>
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<tr>
<td>Mossy Oaks Watershed (Partner with CoB)</td>
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<td>220,404</td>
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<tr>
<td>Evergreen Tract Detention Basin (not in CIP</td>
<td>8,118</td>
<td>106,893</td>
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<td>Sawmill Branch 1 Regional BMP (2017 Masterplan $2,063,688)</td>
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<td>406,369</td>
<td>412,738</td>
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<td>Rock Springs Creek 1 Regional BMP (2017 Masterplan $430,524)</td>
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<td>43,052</td>
<td>86,105</td>
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<td>Sawmill Branch 2 Regional BMP (2017 Masterplan $1,071,064)</td>
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<tr>
<td>Lucy Point Creek Regional BMP (2017 Masterplan $438,293)</td>
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<td></td>
<td>43,829</td>
<td>87,659</td>
<td>306,805</td>
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<tr>
<td>Alljoy Regional Basin / Buy-out (not in CIP</td>
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<tr>
<td>May River Sanitary Sewer Projects (not in CIP plan or budget)</td>
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</tbody>
</table>

**SUMMARY**

| Beginning Available Funds | 3,118,606 | 9,055,106 | 9,014,283 | 6,460,390 | 3,532,021 | 1,306,033 | 5,520,672 | 4,029,384 | 2,725,408 | 1,359,023 | 5,359,306 | 4,459,411 | 4,137,208 | 3,495,322 |
| Bond Revenue              | 5,000,000 |            |           |           |           |           |           |           |           |           |           |           |           |           |
| Total Revenue             | 13,599,991| 14,994,777| 14,908,664| 12,300,546| 12,417,926| 10,773,139| 10,425,657| 9,268,796| 10,052,909| 9,258,297| 8,628,863| 8,580,743| 8,216,647|           |
| Total Expenditures        | (4,874,885)| (5,980,495)| (8,049,629)| (8,128,167)| (7,568,381)| (6,273,629)| (7,128,787)| (7,094,137)| (7,312,719)| (7,054,671)| (6,645,983)| (7,136,710)| (6,733,994)|           |
| Ending Available Funds    | 9,085,106 | 9,014,283 | 6,460,390 | 3,532,021 | 1,306,033 | 5,520,672 | 4,029,384 | 2,725,408 | 1,359,023 | 2,410,453| 1,623,518| 1,414,276| 885,350| 934,120   |
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 – November 14, 2018 (backup)

2. INTRODUCTIONS

3. PUBLIC COMMENT

4. REPORTS
   A. Utility Update – Eric Larson, P.E. (backup)
   B. Monitoring Update – Eric Larson, P.E. (backup)
   D. Stormwater Related Projects – Eric Larson, P.E. (backup)
   F. Regional Coordination – Eric Larson, P.E. (backup)
   G. Municipal Reports – Eric Larson, P.E. (backup)
   H. MS4 Update – Eric Larson, P.E. (backup)

5. UNFINISHED BUSINESS

6. NEW BUSINESS
   A. Special Presentation – TBD

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA
   A. January 9, 2019 (backup)

9. ADJOURNMENT