BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, January 18, 2017
2:00 p.m.
Executive Conference Room, Administration Building
Beaufort County Government Robert Smalls Complex
100 Ribaut Road, Beaufort, South Carolina
843.255.2805

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

1. CALL TO ORDER – 2:00 p.m.
   A. Approval of Agenda
   B. Approval of Minutes – December 14, 2016 (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)
   I. Maintenance Projects Report – David Wilhelm (backup)
   J. Financial Report –Chanel Lewis (backup)

5. UNFINISHED BUSINESS

6. NEW BUSINESS
   A. Special Presentation: Lady’s Island Wal-Mart – City of Beaufort

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA
   A. February 15, 2016 (backup)

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

December 14, 2016 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 12/15/2016

Board Members

Present
Don Smith
Allyn Schneider
Patrick Mitchell
William Bruggeman
Marc Feinberg
Larry Meisner

Absent
James Fargher

Ex-Officio Members

Present
Kim Jones
Andy Kinghorn
Van Willis

Absent
Scott Liggett

Beaufort County Staff

Eric Larson
David Wilhelm
Melissa Allen
Carolyn Wallace
Rebecca Baker
Jason Wood
Jim Beckert

Visitors

Alice Howard, County Council
Ellen Comeau, Clemson University
Rikki Parker, Coastal Conservation League
Lamar Taylor, City of Beaufort
Neil Desai, City of Beaufort
Paul Moore, Ward Edwards

1. Meeting called to order – Don Smith
   A. Agenda – Approved.
   B. November 9, 2016 - Approved.

2. Introductions – Completed.

3. Public Comment(s) – Nothing Reported.

4. Reports – Mr. Eric Larson and Mr. David Wilhelm provided a written report which is included in the posted agenda and can be accessed at: http://www.bcgov.net/departments/Administrative/beaufort-county-council/boards-and-commissions/council-appointed/board-list/stormwater-management-utility-board/agendas/2016/121416.pdf

   A. Utility Update – Eric Larson
      Mr. Larson highlighted item #8, indicating it is an ongoing issue that we are investigating. The South Carolina Attorney General’s office has issued an opinion on roads that are “county roads” within a municipality boundary. There was a case in which a town asked a County in SC to fix roads within their jurisdiction. Their opinion is that once the town or city
annexes beyond that limit that the infrastructure, specifically roads, is included in that annexation and it is no longer county roads regardless of who built it or has traditionally maintained it. The County Attorney’s Office is looking into this and whether not the storm sewer systems, ditches, and the pipes that serve these roads and right of ways should be included as well. It has a huge impact on the county and municipal operations, as the county imposed the County Wide Infrastructure (CWI) fee two years ago with the rate change to address this issue. If County Council chooses to take action on this, our staff is looking to see if a correlation needs to be made to the storm sewers as well as the roads. Mr. Larson mentioned we are working on the numbers that would be associated with that, so if it comes to a public forum we will have documentation on the stormwater side to support discussion.

Mr. Van Willis mentioned it is just an Attorney General’s opinion; there is no case law on it. Municipal residences do pay county taxes, so they would have to address that as well. Mr. Larry Meisner asked Mr. Larson if it includes DOT roads because that would have a huge implication for municipalities. Mr. Larson indicated he did not see any reference to state roads as far as the county or town’s issue was concerned. He mentioned that it is just a discussion to get started because if it carried out the way the opinion carried out, it would dramatically change how Stormwater and Public Works department operate and the municipals and CWI index. The county would no longer need to collect the CWI fee because we wouldn’t have infrastructures within municipal boundaries to maintain. Each town and city would probably have to increase their operating budget, as responsibility would shift. It would not be cheaper on the citizens; it would just shift the responsibilities.

Mr. Andy Kinghorn asked if the amount of revenue we collect currently covers all of the costs the county has within the municipalities related to stormwater. Mr. Larson said yes. Mr. Kinghorn asked if we did a good job estimating the total costs. Mr. Larson said yes, the CWI fees are based on hard calculations of production rates and inventory of our system.

B. Monitoring Update – Eric Larson

Lab Update – USCB WQL has obtained additional certifications for their lab. With regard to the illicit discharge at Coosaw Island, the E.coli numbers have dropped to a satisfactory level; the illicit discharge has been stopped and remediated to where no additional action is necessary. In reply to a question, Mr. Larson mentioned it was a manmade source (illegal dumping) that only law enforcement will be able to stop. Mrs. Rebecca Baker stated there is still an open investigation.

Monitoring Plan Development - A milestone in the MS4 program was made by developing and submitting a written monitoring plan to DHEC, meeting the December 1st deadline. Beaufort County and the Town of Bluffton have shared their plans, looking to identify commonalties where they can enter in to a MOA in the shared watersheds such as the May and Okatie, trading off on sampling sites and sharing the data.

C. Stormwater Implementation Committee (SWIC) Report – Eric Larson

The SWIC committee did not meet in December.

D. Stormwater Related Projects – Eric Larson

US 278 Retrofit Ponds – The 4th pond is almost complete and the embankment that was lost on the inlet pipe going into the pond is being reconstructed. This project should be wrapping up soon and will establish vegetation in the spring.
SC 170 Widening Pond #8 Project – This will be removed from future reports and added at a later date, once we have the management plan.

Complaints and Hurricane Recovery – Staff has mapped all of the drainage easements off of right of ways for damages and debris and there are roughly 350 trees over 36 miles of work shelf. Ceres will begin picking up this debris as part of a project task order.

Operations and Maintenance Workload – Currently the backlog of work is estimated to be 8 months behind, but the backlog is better than where we were a year ago as we are completing more projects than we are adding to the list each month. Some of the projects are hurricane related.

E. Professional Contracts Report – Eric Larson

SC 170 Widening Drainage – Need to regrade and redress the ditch on Hwy 170 northbound between Lawton Station and Bluffton Parkway that silted in and eroded during construction. Pulte (Sun City) had a commitment in their permit to remove the haul road at the end of construction, which has not happened. It has dammed up the wetland and prevented it from flowing naturally. We have reached out to Pulte and advised them to fulfill their permit requirements. Mr. Larson addressed a question about the extent of recommendations, indicating they also recommended monitoring future developments in the area to make sure they wouldn’t negatively impact the water table. Mr. Marc Feinberg asked if there is a post construction inspection against the permit that takes place within the county to make sure those types of things aren’t overlooked. Mr. Larson mentioned it’s a permit from the US Corps of Engineering and the permit is still open, so they are not in any violation.

F. Regional Coordination – Eric Larson

Factory Creek Watershed Regional Detention Basin “Phase II” (Coleman site) – They are 50% complete with survey and wetland delineations. Phase II design will be ready by February to begin going through the permitting process. Phase I is actively being constructed.

Horne Development at Okatie Center in Jasper County – Results from ATM study comparing Beaufort County design standards to the municipalities and to those of Jasper County’s have been received and are under review. He will report findings at a later date.

G. Municipal Reports – Eric Larson

Town of Hilton Head Island – Nothing reported.

City of Beaufort – Special Presentation in New Business.

Town of Bluffton – Ms. Kim Jones
MS4 Stormwater Management Plan was delivered to DHEC on November 30th. They did microbial source tracking to obtain results at key drainage areas at 5 different sites, where they tested for oysters, soil and water. One shipment damaged for water out of one site and one site didn’t have oysters; not quite 15 samples were analyzed for human bio markers and they all came back negative. The samples were taken post hurricane, following a king tide in an area that is currently on septic.

Town of Port Royal – Mr. Van Willis
Working on a revised scope for the Cypress Wetland Project and completing repair work in the wetland from storm damage.

H. Municipal Separate Storm Sewer System (MS4 Update) – Eric Larson

Best Management Practice (BMP) Manual – Incorporated the stormwater ordinance and all of the plans (i.e.: Monitoring Plan, IDDE Plan, Public Education plan) as Appendices in the BMP manual. Mr. Larson introduced Ms. Ellen Comeau, the new outreach agent with Clemson Extension. Ms. Comeau mentioned her title is Water Resources Extension Agent.

Stormwater Permitting – Effective December 1st, the county is now issuing stormwater permits with all zoning, development and building permits, which is handled through the Planning Department. This includes single family homes, anything over 5,000 sq. feet of disturbed area.

I. Maintenance Projects Report – David Wilhelm

Project task list update from November 2015 through December 2016: 114 projects completed, 43 active projects, and 14 pending waiting for easement approval. Mr. Wilhelm reported on four major projects and three of seven minor projects.

Community Bible Church – A large sink hole off of Parris Island Gateway was repaired. They had to remove 177 feet pipe that collapsed and created a 15-16 foot deep hole.

Lady’s Island Elementary School Ponds – Completed a project to address a stormwater basin issue and Beaufort County School District will be reimbursing the county 100%.

Eastern Road – Project was made more complicated due to the hurricane. Half way through the storm came and rework had to be done to complete the project.

Green Pond – This is the 1st phase of Green Pond (Shell Point Area) that included pumping down the water and putting in a drainage structure and piping.

Mr. Wilhelm noted that for minor projects that involve ditch cleaning and bush hogging they try to stay around $.50-$0.75 a linear foot and for roadside ditch work between $3.00-$5.00 a linear foot.

Royal Pines Road – Cleared 4,100 ft. at $.68 a foot and 3,000 ft. of channel at $3.16 a foot.

Major Road – Pointed out there was no interference and the project cost $3.05 a foot.

Fairfax Road – Mentioned the challenge of a one-way street, caused them to have to stop and move equipment to allow traffic through and re-set up to begin working again. 687 feet of work cost about $12.00 a foot due to interruptions.

Mr. Allyn Schneider asked if they contact the neighborhood prior to doing a project like Fairfax Road. Mr. David Wilhelm indicated they go door to door to inform the neighbors and put out a notice. He mentioned they also consider the size of road and anything that might affect productivity when pricing out a job.

Mr. Don Smith asked if we knew who constructed the pipe that collapsed in the Community Bible Church area. Mr. Wilhelm was uncertain of who constructed the original pipe. Mr. Marc Feinberg asked if it was a corrugated pipe, replaced with corrugated pipe. Mr. Wilhelm indicated it was a metal replaced with HDPE pipe.

5. Unfinished Business – None.

6. New Business
A. Special Presentation: Battery Creek 319 Grant – Mr. Neil Desai and Mr. Paul Moore provided a presentation on the history and a project update on the Battery Creek 319 Grant project. In 2011-2012 there was an increase in shellfish harvesting area closures. A water quality project was initiated with the goal of securing 319 funds. With Mr. Andy Kinghorn’s assistance, they contacted a private land owner (Dr. Gray) about using their private pond that would be retrofitted for water quality to help with Battery Creek watershed (near SC170 and US 21 and the Cross Creek Shopping Center). Construction began in 2015 and is expected to finish late 2016, early 2017. The Project is partially funded by a US EPA Section 319 grant ($350,000) with the match being shared by the City of Beaufort and Beaufort County ($400,000).

Beaufort County is located in the Salkehatchie Basin which is considered blackwater river basin and it is much smaller and runs slower than the rest of the state, which is why stormwater volume is important to us. There were eight sites that were determined as opportunities for improving watersheds with impairments and the Battery Creek project was one of them. It was identified in 2006 that Battery Creek had extremely high bacteria counts. Originally, the idea was to expand the Walmart pond; however, after looking at aerial photos of the area, they noticed another pond. It posed a unique opportunity to get treatment at saltwater/freshwater divide, but needed to find a way to direct the flow into pond and filter back out. In 2009 a concept was developed to plug the ditch and divert water into pond and release treated water back into the ditch.

The property owner had two concerns; they didn’t want an attractive nuisance or trash coming into pond. The original pond was only 3’-4’ deep, too shallow for a stormwater pond, so they had to dewater the pond because it is groundwater fed and then had to excavate. They created a shelf, just below normal water level, to provide safety if anyone wandered out into the pond and allows vegetation to grow. A sediment forebay was installed to treat and remove litter using force water at low flow conditions to be routed for treatment, during high flow the water will spill over into the ditch and flow to prevent trash from getting into the pond.

Mr. Moore noted that as far as he knows the city will be maintaining the area, after being asked who will maintain the site. He mentioned there is an access road to the pond and there is still clean-up and grading to be done before the project will be complete. The pond is now 8-10 feet deep with 3-4 feet of working freeboard, about 12’ top to bottom.

B. Shell Point Quitclaim Deed to NRC – Mr. Larson requested to add this as a new agenda item. He asked for the Board’s endorsement on the acceptance of a quitclaim deed on some common open space for a neighborhood in Shell Point in the Magnolia/Dogwood area. The land is still in name of the developer and the needed work falls within the department’s extent of service. Mr. Larson mentioned we have received multiple complaints in this area, but are unable to do any work because they are not our easements. The descendants of the original developer have been tracked down and have signed a quitclaim deed for the property.

Mr. Allyn Schneider asked if there are any aspects about this that could be negative. Mr. Larson stated that the only negative is the fact that we would be accepting more system, but that is our job as a utility is to maintain these drainage systems and when we increased the rates last year we committed to an expanded extent of service, where we would look at private systems like this and make a determination if we will take them over to service them for the greater good of the neighborhood. Currently people in this area are losing their yards to erosion and flooding. Mr. Larson indicated if we endorse the acceptance of the quitclaim deed, we will do operations and maintenance in this area immediately. This would become part of the routine operation and
maintenance budget; there will be no special appropriations for this work. Mr. Meisner asked how much tax revenue we would be losing if we approve the endorsement on the quitclaim deed. Mr. Larson mentioned that common open space is typically valued so low, so the impact would be minimal.

The Board unanimously (6:0) approved the endorsement of the quitclaim deed.

7. Public Comment(s) – None.

8. Next Meeting Agenda – Approved.

9. Meeting Adjourned
December 14, 2016

Stormwater Manager’s Report for the Stormwater Utility Board Meeting

Utility Update

1. Tax Run for Tax Year 2016 (TY16) – Bills were released mid-November. The staff is handling a small number of inquiries about billing.
2. Intergovernmental Agreements (IGAs) and Memorandums of Agreements (MOAs) for Fiscal Year 2017 (FY17) – All agreements for FY 17 are now signed and effective.
3. Fee inquiries – We continue to work on the SWU fee inquiry from the SC Port Authority related to the Port Royal Port.
4. Mr. Larson was elected 2017 President of the South Carolina Association of Stormwater Managers (SCASM) at their November meeting. Larson will be traveling to Columbia on December 15th for the Board’s 2017 planning session.
5. Hurricane Matthew Response and Recovery – Crews and our contractor continue to inventory and clear debris from drainage easements.
6. Mr. Larson spoke at the Governors’ South Atlantic Alliance (NC, SC, GA, FL) “Strategies and Tools to Protect and Restore Coastal Water Quality” conference on December 8. Beaufort County’s Volume Control requirements and a related case study were presented.
7. Staff presented the Utility and County Stormwater Department mission and activities to new County Council members during new council orientation.
8. County infrastructure within municipal boundaries – Recently the Town of Williamston, in Anderson County, SC, received an opinion from the South Carolina Attorney General’s office. The subject was related to the ownership and maintenance responsibilities of “roads” within the Town’s jurisdictional limits. The opinion concluded the Town was responsible for the roads within their jurisdiction regardless of historical ownership and maintenance efforts. A copy of the opinion is attached to this report. As our staff reviewed this document, we noted the cites related to “powers, duties, and functions...for public works...” and questioned whether or not this ruling is also applicable to other county maintained infrastructure besides “roads”, such as ditches and pipes which typically serve the road as a means to convey runoff away from the right of way. We are seeking clarification. This could have a huge impact on County, Town, and City services as well as Utility funding. As you will recall, the Countywide Infrastructure (CWI) fee was created specifically to address the cost of County services within a municipal area. We will report on this again at a future date once we have more information.
9. County Council Finance Committee 5-year outlook – Staff was recently asked to present our projected 5 year needs to the Natural Resources Committee in response to the Finance Committee’s request for review of all department’s long term needs. This is part of the annual budgeting process. Eric Larson presented the 5 year plan created in 2015 as part of the rate study. The committee accepted the report and will be using it as a basis for planning during the retreat.

Monitoring Update

1. Lab Update (From Dr. Alan Warren and Lab Manager Danielle Mickel)
   a) Since the last USCB WQL update, the USCB WQ Lab passed their on-site evaluation from SCDHEC for their additional certifications; HPC (Heterotrophic Plate Count), SpC (Specific Conductance) and TRC (Total Residual Chlorine) for drinking water. They are now certified for those additional parameters. In the future, TOC (Total Organic Carbon) is another certification that the WQ Lab would like to attain for the laboratory’s pure water requirement.
   b) An investigation of a suspected illicit discharge on Coosaw Island requested by Beaufort County Stormwater Department was performed by the WQL. The WQL has also collected and analyzed water samples post clean-up. Dr. Alan Warren has discussed results with Rebecca Baker.
   c) The Lab has just finished the quarterly sampling for the BECY sites, in which the new quarter will begin in January.

2. Monitoring Plan Development – The County staff has completed our monitoring plan with input from the USCB WQL. It was added to the BMP Manual. We are working with ToB to create a MOA that will formalize data sharing and sampling duties in the May, New, and Okatie watersheds.

Stormwater Implementation Committee (SWIC) Report

1. The SWIC committee has not met since the last Board meeting.

Stormwater Related Projects

1. US 278 Retrofit Ponds ($356,000 Budget) – The 4th and final pond is 90% complete with excavation. The largest pond off of Barrel Landing Road was damaged by the Hurricane and needs to be repaired.
2. Okatie West / SC 170 Widening Retrofit (Design and Construction = $915,000 Budget) – No update to report. Design is ongoing. The annual report on the grant was submitted and accepted by DHEC in November.
3. SC 170 Widening Pond #8 project (Design and Construction = $630,840) – Project is on hold until results of the 2016 Management Plan are complete. This project is currently not funded. (This will be removed from future reports)
4. Easements – Staff is working on numerous easement requests. Significant locations
are Salem Dr. East and several on St. Helena Island. Gadwell Dr. East easement needs have been resolved.

5. Complaints and Hurricane Recovery – Staff continues to inspect our system looking for downed trees, clogged ditches and pipes, etc. for needed debris removal and damage. Staff is also pursuing grant funding options to help with the cost in addition to our plans to submit to FEMA for public assistance.

6. Operations and Maintenance Workload – Dave Wilhelm and Chad Stanley are working on a scheduling procedure to identify project needs and rank them on completion. We are working a large backlog of projects that have been previously identified but never scheduled in addition to newer projects that are needed in response to the Hurricane. The department is currently 8 months behind, but that is better than we were in November 2015 when the process of project review started.

Professional Contracts Report

1. Stormwater Management Plan (Master Plan) Update – ($475,000 Budget; $239,542 County portion) – ATM continues to work on the next steps of the plan. In November, ATM delivered the recommendations to the County on the unincorporated area monitoring needs for inclusion in the County’s monitoring plan.

2. Mint Farm Basin B Modification – ($8,000 Budget) – Nothing new to report.

3. SC 170 Widening Drainage – ($17,500 Budget with 50% of funding from the Stormwater Department. Change order for additional $4,500 approved in October) – The 3rd party review report contained two recommendations that the Staff is acting upon. The first is construction of a roadside ditch that was not completed per the roadway plans. The second involves communicating a need to fulfill a USACE permitting requirement on Pulte Realty (Sun City) as part of their construction. We communicated with Sun City maintenance and they have forwarded the request to Pulte.

Regional Coordination

1. Factory Creek Watershed Regional Detention Basin “Phase I” & Academy Park Subdivision (cost is pending) – Nothing new to report.

2. Factory Creek Watershed Regional Detention Basin “Phase II” (Design Cost = $63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – Nothing new to report. Excavation continues as material is sold by the Developer.

3. Horne Development at Okatie Center in Jasper County ($1,500) – ATM has been given a Task Order to review Jasper County and City of Hardeeville stormwater standards and compare to our own. Results are pending.

4. Hilton Head National Redevelopment – The Planning Commission approved the zone change at the December meeting. Many citizens commented on the need for strong environmental controls during design and construction. Eric Larson was in attendance. The applicant is aware of our stormwater design requirements and has commented they will have numerous water quality BMPs in the design.
1. Town of Hilton Head Island (From Bates Rambow, SW Data Analyst)
   i. No information was available at the time of this report.

2. Town of Bluffton (From Kim Jones, Watershed Management Division Director)
   i. WATERSHED MANAGEMENT
      a. Stoney Creek Wetlands Restoration: Data Collection & Analysis Phase
         • Final Summary Memo including conceptual design options are complete.
         • Conceptual designs have been forwarded to the property owners for initial
           review prior to on-site meeting.
         • Staff and the design consultant met with a property owner to review the conceptual
           designs on 11/23/16.
         • Next Steps:
           o Staff is coordinating with the design consultant to execute a contract for the
             design phase of the project.
           o Staff will present conceptual designs to additional property owner stakeholders
             on 1/13/17.
      b. 319 Grant Phase 2 (Pine Ridge) - Construction Phase
         • Staff submitted a 319 Grant amendment request to extend the grant deadline to
           1/30/17 and reallocate unspent funds. The remaining 319 Grant Phase 2 funds
           will be reallocated to purchase engineered bacteria removal media filter socks
           to be installed in the wetland ditch downstream from the New Riverside Pond
           to maintain bacteria removal efficiency, and to install littoral shelf plantings
           within ponds in the Pine Ridge Community.
         • The grant amendment was approved by SCDHEC and the amended contract
           has been executed.
         • Contractor will complete final inspection punch list items by the first week of
           December.
         • Next Steps:
           o Obtain easement for installation and maintenance of bacteria removal filter
             socks.
           o Purchase and install engineered bacteria removal filter socks.
           o Design and install littoral shelf plantings as needed.
      c. 319 Grant Phase 3 (May River Preserve Pond)
         • SCDHEC notified staff that the EPA has approved the grant application and the
           grant of $231,350 has been awarded.
         • After receiving property access approval, pre-project water quality and flow
           monitoring has commenced.
         • The grant contract has been approved by the EPA and executed by the Town.
         • Staff obtained verbal agreement from adjacent parcel property owner for a
           construction and maintenance easement.
         • Next Steps:
• Obtain easement for construction and maintenance from property owner and adjacent parcel property owner.

d. Stormwater Utility Management Plan Update
• Beaufort County is the managing partner for this county-wide stormwater master plan update by Applied Technology & Management (ATM).
• Staff provided updated Best Management Practice locations throughout the watershed to the contractor.
• Staff received a preliminary scope and budget estimate not to exceed $75,000 to complete the May River Watershed Water Quality Model from ATM.
• Next Steps:
  o Staff will propose completion of the Water Quality Model in FY2018 Budget.
  o Staff will continue to participate in the county-wide effort to update the Beaufort County Stormwater Management Plan as needed.

ii. DIVISION/STAFF UPDATES

a. Watershed Management
• In support of the Development Review process staff performed:
  o 23 Development Plan Reviews
  o 8 Development Surety Reviews
  o 7 Certificate of Construction Compliance Inspections
  o 5 Pre-Construction Meetings
  o 4 Pre-Clearing Inspections
  o 1 Post-Construction BMP
• November Data Collection –
  o Collected data from five (5) monitoring stations at Stoney Crest Property.
  o Eight (8) in-stream flow/velocity measurements collected at our sampling locations in the headwaters of the May River.
  o Watershed Management staff sampled multiple parameters at four (4) locations associated with the May River Preserve 319 Grant Project.
• Jones received SCDHEC Certified Erosion Prevention & Sediment Control Inspector certification.
• Carey completed Clemson University’s Master Pond Manager training.
• Jones and Lewis presented “Management Decision Implications based on Evaluation of a Stormwater Best Management Practice’s Downstream Impact” to the quarterly meeting of the SC Association of Stormwater Managers in Columbia, SC
• Jones was the invited Keynote Address at the 18th International Conference on Shellfish Restoration in Charleston, SC to speak on the Town’s efforts to restore shellfish harvesting in the May River.
• Staff collected water, soil and oyster samples for microbial source tracking (MST) of bacterial sources from five (5) locations in the headwaters of the
May River, including coordinating sample collection with SCDHEC at Shellfish Station 19-19.

- Staff participated in the SC Sea Grant-sponsored South Atlantic Shellfish Initiative Planning Workshop in Charleston, SC.
- Staff attended the Toolkit of Available EPA Green Infrastructure Modeling Software Webinar on October 26, 2016.
- Staff attended Find Your Bacteria Sources - Microbial Source Tracking Webinar on October 31, 2016.
- Staff attended the Keep Beaufort County Beautiful Board meeting on November 3, 2016.

iii. Public Works
   a. Ditch/Drainage Maintenance –
      - Performed weekly street-sweeping on Calhoun Street, Highway 46, Simmonsville Road, and Buck Island Road curbs and medians.
      - Continue to cut and pile up storm debris on Hampton Pkwy, May River road Heyward Street, Simmonsville road, Goethe road and Buck Island road.
      - Performed inspection on the following ditches:
        - Brown’s property ditch
        - Palmetto Bluff Pond
        - Arrow ditch (2,569 LF)
        - Red Cedar ditch (966 LF)
        - Buck Island Roadside ditch (15,926 LF)
        - Simmonsville Roadside ditch (13,792 LF)
      - Removed approximately 500 pounds of vegetative storm debris from the Brown property ditch culvert inlet.

   b. City of Beaufort (From Neil Desai, Asst. Public Works Director)
      i. Battery Creek Pond Funded by an EPA 319 Grant ($132,609 Budget – County Portion) – All major earthwork is complete including rough and final grading of pond. Installation of pond outfall structure complete. Installation of water quality device awaiting additional parts, anticipate installation before mid-December. Project is on track to be finished prior to the first of January.

   c. Town of Port Royal (From Van Willis, Town Manager)
      i. No information was available at the time of this report.
MS4 Report

1. Plan review summary

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2. Inspection summary for November 2, 2016 to December 2, 2016
   Number of active permits = 25
   Number of inspections performed = 13
   Number of drainage related complaints investigated = 8

3. BMP Manual – Additions were placed in the Appendix C and G to comply with the MS4 permit Year 1 deadline of December 1. The Monitoring Plan, IDDE Plan, SWMP Plan, and Public Education Plan, all internal procedures documents, were added.

4. Annual reporting and the SWMP – Rebecca Baker completed the revisions to our Management Plan as part of the submittal for the annual report to DHEC (see #3 above). The reporting period ended on December 1, 2016 and the report is due in February.

5. Stormwater Permitting – The new MS4 local stormwater permit became effective December 1, 2016. Stormwater and Planning staff have been trained on permit entry and inspection entry. Procedures and forms are located within the BMP Manual.

6. Bluffton Gateway Project – This project was presented as a special report at the November 2016 meeting of the Board. The project is nearing completion. As it was one of the first major projects to design for volume control, as well as the first major project subject to proactive inspection by the County Stormwater department, we held a joint pre-final inspection walk through to create a punch list. We are pleased to report the project was substantially built according to plan with little issues. The size and complexity of the project is not fully realized until you walk the site.
November 15, 2016

G. Lee Cole, Jr., Esq.
Town of Williamston Attorney
PO Box 315
Williamston, SC 29697

Dear Mr. Cole:

Our Office has received your opinion request regarding whether a county may require a municipality to be responsible for maintenance and repair of county roads located inside the corporate limits of a municipality. Specifically, you state the following:

[a] South Carolina municipality has, within its corporate limits, state maintained roads, roads that have been historically maintained by the county, and very few roads that have been built and maintained by the municipality. The municipality has never formally nor informally accepted the responsibility to repair or maintain any roads that have been historically maintained by the county, and the municipality considers these roads to be county roads. The municipality’s position is that the maintenance and repair of said roads are the county’s responsibility pursuant to S.C. Code Ann. Sec. 57-17-10, et seq. The county’s position is that the repair and maintenance of said roads are the municipality’s responsibility pursuant to S.C. Code Ann. Sec. 5-27-120.

Our understanding of your question is that the roads that you refer to as “county roads” were built and until recently, maintained by the county. The Town of Williamston has never repaired these “county roads.” We will answer your question accordingly.

**LAW/ANALYSIS:**

We will begin our analysis by reviewing the language of sections 5-27-120 and 57-17-10 of the South Carolina Code and other related statutes. Section 5-27-120 addresses the repair of streets in municipalities which have a population of greater than 1,000¹ and it states:

[t]he city or town council of any city or town of over one thousand inhabitants shall keep in good repair all the streets, ways and bridges within the limits of the city or town and for such purpose it is invested

¹ According to its website, the Town of Williamston has a population of 3992. See http://www.williamstonsc.us/about/
with all the powers, rights and privileges within the limits of such city or
town that are given to the governing bodies of the several counties of this
State as to the public roads.


Section 5-27-10 is pertinent because it grants municipal councils the power to establish and improve
roads. It states:

[w]henever the mayor and aldermen of any city or the intendant and
wardens of any town in this State shall think it expedient to widen, open,
lay out, extend or establish any street, alley, road, court or lane, they may
purchase the lot, lots or parts of lots of land necessary for such street,
alley, road, court or lane, and the fee simple of such land shall be vested
in such city or town for the use of the public from the day of delivery of
the deed of sale.


Section 57-17-10 grants county councils control over public roads, which includes the repair of the roads.
It provides:

[a]ll roads, highways and ferries that have been laid out or appointed by
virtue of an act of the General Assembly, an order of court or an order of
the governing body of any county are declared to be public roads and
ferries, and the county supervisor and the governing body of the county
shall have the control and supervision thereof. The county supervisor and
governing body of the county may order the laying out and repairing of
public roads where necessary, designate where bridges, ferries or fords
shall be made, discontinue such roads, bridges and ferries as shall be
found useless and alter roads so as to make them more useful.


Additionally, county councils are required by statute to repair the roads in the county. Section 57-17-10
states:

[t]he governing body of each county shall take charge of and superintend
the repair of the highways in the county. The bridges shall be repaired
under its supervision, and the expense thereof shall be paid out of the
money in the county treasury raised and appropriated for this purpose.


The language of section 5-27-120 is plain and clear that municipal councils in municipalities having a
population greater than 1000 shall repair the streets within the municipal limits. The court in Vaughan v.

2 In a prior opinion, we discussed some principles of statutory construction:
Town of Lyman, 370 S.C. 436, 635 S.E.2d 631 (2006), agrees with this conclusion, stating that “section 5-27-120 “clearly defines the duty to the general public of a municipality to maintain its streets.” The issue appears to be whether county councils can also be responsible for repairing roads which are located within the limits of a municipality.

In a February 25, 1988 opinion, our Office discussed how “it is settled law that counties and municipal corporations have only such powers as are granted to them by legislative enactment.” Op. S.C. Atty. Gen., February 25, 1988 (1988 WL 383501 ) (quoting Williams, et al. v. Wylie, et al., 217 S.C. 247, 60 S.E.2d 586 (1950); 56 Am.Jur.2d, Municipal Corporations, etc., Section 193)). The South Carolina Constitution requires the Legislature to equip counties with certain powers, duties, and functions and it provides:

[t]he General Assembly shall provide by general law for the structure, organization, powers, duties, functions, and the responsibilities of counties, including the power to tax different areas at different rates of taxation related to the nature and level of governmental services provided.

S.C. Const. art. VIII, § 7.

In response to the State Constitution, the Legislature enacted section 4-9-30, which grants county councils certain powers, including the right to “make appropriations for functions and operations of the county, including, but not limited to, appropriations for general public works, including roads. . . .” S.C. Code Ann. § 4-9-30(5)(a)(1976 Code, as amended).

Similarly, the State Constitution requires the Legislature to provide municipalities with powers, duties, and functions. S.C. Const. art. VIII, § 9 states that “[t]he structure and organization, powers, duties,

“[t]he cardinal rule of statutory construction is to ascertain and effectuate the intent of the legislature.” Hodges v. Rainey, 341 S.C. 79, 86, 533 S.E.2d 578, 581 (2000). “[Courts] will give words their plain and ordinary meaning, and will not resort to a subtle or forced construction that would limit or expand the statute's operation.” Harris v. Anderson County Sheriffs Office, 381 S.C. 357, 362, 673 S.E.2d 423, 425 (2009). “If a statute's language is plain, unambiguous, and conveys a clear meaning, then the rules of statutory interpretation are not needed and a court has no right to impose another meaning.” Strickland v. Strickland, 375 S.C. 76, 85, 650 S.E.2d 465, 472 (2007). “[S]tatutes must be read as a whole, and sections which are part of the same general statutory scheme must be construed together and each one given effect, if reasonable.” State v. Thomas, 372 S.C. 466, 468, 642 S.E.2d 724, 725 (2007). “[C]ourts will reject a statutory interpretation that would lead to an absurd result not intended by the legislature or that would defeat plain legislative intention.” State v. Johnson, 396 S.C. 182, 189, 720 S.E.2d 516, 520 (Ct.App. 2011).

functions, and responsibilities of the municipalities shall be established by general law. . . .” The Legislature granted powers to municipalities through section 5-7-30, which provides:

[e]ach municipality of the State, in addition to the powers conferred to its specific form of government, may enact regulations, resolutions, and ordinances, not inconsistent with the Constitution and general law of this State, including the exercise of powers in relation to roads, streets. . . .


In our 1988 opinion, we discussed how sections 4-9-30 and 5-7-30 granted police power to both counties and municipalities (although a municipality can only exercise its police power within the territory of the municipality). See Op. S.C. Atty. Gen., February 25, 1988, supra. Specifically discussing section 5-7-30, we determined that county councils can not exercise their police power within the territorial limits of municipalities without the consent of the municipal councils. Our explanation was that:

[t]his express grant of police power to municipalities, coupled with the apparent lack of any express grant of power to counties to regulate matters within municipalities, militates against any notion that a county, without first obtaining the agreement or permission of a municipality situated within geographic boundaries of the county, may extend its police power to reach matters occurring within the territorial limits of the municipality.

Id.

We further explained in our opinion that:

[t]his Office has, on several occasions, expressed its belief that a county's exercise of police power is restricted to the unincorporated areas of the county. In an opinion dated October 2, 1984, the ‘intent of the General Assembly to recognize the autonomy of a municipality within its borders and likewise recognizes the autonomy of the county within the unincorporated areas of the county’ was discussed. Likewise, in an opinion dated May 21, 1987, we concluded that a Richland County anti-smoking ordinance would be of no effect for facilities of the Richland County Recreation Commission located within a municipality of the county.

Our beliefs are in accordance with the general law on this issue. Counties and cities are viewed as co-equal political subdivisions which are independent of each other politically, geographically, and governmentally. City of Richmond v. Board of Supervisors of Henrico County, 199 Va. 679, 101 S.E.2d 641 (1958); Murray v. City of Roanoke, 194 Va. 321, 64 S.E.2d 804 (1951).

3 Section 4-9-30 was referred to in the opinion as section 4-9-10, et seq., Act 283, and the Home Rule Act.
Furthermore, case law shows that, as a result of sections 5-27-120 and 5-27-10 (and their prior versions), municipal councils are in control of the roads located within their municipal limits and they have the power to regulate and manage such roads. Our State Supreme Court explained in *Leonard v. Talbert*, 222 S.C. 79, 83–84, 71 S.E.2d 603, 604–05 (1952) that:

[o]rdinarily, county authorities have no power to control streets within municipalities, except where the statute so provides. *Martin v. Saye*, 147 S.C. 433, 145 S.E. 186. In this State, as in most States, there are statutes vesting such control in the corporate authorities of cities and incorporated towns. The usual effect of such statutes is to transfer from the county authorities to the municipality the power to regulate and control highways located therein. *Chapman v. Greenville Chamber of Commerce*, 127 S.C. 173, 120 S.E. 584, 587.\(^4\)

Our State Supreme Court opined in *Whitlock v. Town of Jonesville*, 111 S.C. 391, 98 S.E. 142, 142 (1919), that section 2951 of the Code of 1912 (now section 5-27-120) “gives city councils the same rights in the management of its streets as are given to county boards of commissioners.” The court examined section 1930 of the Code of 1912 (now section 57-17-10), which gave “to the county boards of commissioners the right ‘to discontinue such roads, bridges and ferries as shall be found useless, and to alter roads so as to make them more useful’” and found that a town council had the same right to alter a road as a county council did under then section 1932.

After reviewing the law, our opinion is that the municipality, and not the county, is responsible for the maintenance and repair of the roads located inside its corporate limits. The Legislature granted municipal councils police power over roads and streets located within the municipal limits. As previously stated, section 5-27-120 requires the municipal councils of municipalities of a certain size to repair the streets within their municipal limits\(^5\). Section 5-27-120 also grants municipal councils the same control and

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4 When reaching its conclusion, the court in *Chapman v. Greenville Chamber of Commerce*, supra considered section 2951 of the Code of 1912, which was a prior version of section 5-27-120, and which stated that the municipal council was vested “with all the powers, rights and privileges within the limits of said city that are now given, or that may hereafter be given to the county board of commissioners of the several counties of this state as to the public roads.” The court also considered section 2926 of the Code of 1912, which was a prior version of section 5-27-10, and which stated that “the said city council shall have, and is hereby given, the further authority to lay out and open new streets in said city, and to close up, widen, or to otherwise alter those now in use, or those which may hereafter be established, whenever, in their judgment, the same may be necessary for the improvement or convenience of said city.”

5 As section 5-27-120 specifically directs municipal councils to “repair all the streets, ways and bridges within the limits of the city or town,” we believe it is irrelevant if the municipal streets were laid out or appointed by General Assembly act, court order, or county council order, as provided for in section 57-17-10. See *Op. S.C. Atty. Gen.*, July 11, 2008 (2008 WL 3198122) (quoting *Capco of Summerville, Inc. v. J.H. Gayle Constr. Co. Inc.*, 368 S.C. 137, 142, 628 S.E.2d 38, 41 (2006)) ("[w]here there is one statute addressing an issue in general terms and another statute dealing with the identical issue in a more specific and definite manner, the more specific statute will be considered an exception to, or a qualifier of, the general statute and given such effect"); *Op. S.C. Atty. Gen.*, March 20, 2006 (2006 WL 981695) (quoting *Criterion Insurance Company v. Hoffman*, 258 S.C. 282, 188 S.E.2d 459 (1972); *Op. Atty. Gen.* dated August 5, 1986)) ("[i]t is a rule of statutory construction that general and specific
supervision over the city streets as the county councils have over the public roads, and the same rights to lay out, repair, discontinue, and alter the city streets under section 57-17-10.

We believe that county councils are only responsible for repairing roads which are in unincorporated areas of the county. Section 57-17-10 expressly states that county councils are responsible for repairing highways in the county. The Legislature did not grant county councils the ability to exercise any power within the territory of a municipality without the permission of the municipal council. And as we stated in our February 25, 1988 opinion, “[a]s a governmental entity of the state, a county possesses only such powers as are expressly or impliedly conferred upon it by constitutional provisions or legislative enactments; and powers not conferred are just as plainly prohibited as though expressly forbidden.” 20 C.J.S. Counties, Section 49, pp. 802–803. Op. S.C. Atty. Gen., February 25, 1988, supra.

Our conclusion is supported by other provisions of law which recognize the autonomy of municipalities. In our prior opinion, we opined that in section 4-9-40, “the legislature, itself, seems to have, at least, implicitly recognized a limitation on the authority of counties to act within the boundaries of municipal corporations.” See Op. S.C. Atty. Gen., February 25, 1988, supra. Section 4-9-40 grants the county the ability to contract for services within municipalities. It states:

[a]ny county may perform any of its functions, furnish any of its services within the corporate limits of any municipality, situated within the county, by contract with any individual, corporation or municipal governing body, subject always to the general law and the Constitution of this State regarding such matters. Provided, however, that where such service is being provided by the municipality or has been budgeted or funds have been applied for that such service may not be rendered without the permission of the municipal governing body.


As shown above, a function of the county is roads. See S.C. Code Ann. § 4-9-30(5)(a), supra. Therefore, a county council would have to contract with a municipal council in order to repair roads within the municipal limits.

Furthermore, the State Constitution allows political subdivisions to jointly administer functions and exercise powers. Article VIII, section 13 of the S.C. Constitution provides:

(A) Any county, incorporated municipality, or other political subdivision may agree with the State or with any other political subdivision for the joint administration of any function and exercise of powers and the sharing of the costs thereof.

(B) Nothing in this Constitution may be construed to prohibit the State or any of its counties, incorporated municipalities, or other political
subdivisions from agreeing to share the lawful cost, responsibility, and administration of functions with any one or more governments, whether within or without this State. . . .


In our 1988 opinion, we concluded, regarding Article VIII, section 13, that:

[c]learly, by these provisions, counties and municipal corporations may agree to jointly administer services or exercise powers. By reasonable implication, a county could not exercise power within an incorporated municipality unless such an agreement existed or, in effect, the municipality has assented to the county's exercise of power.


**CONCLUSION**

Our opinion is that the municipality, and not the county, is responsible for the maintenance and repair of the roads located inside its corporate limits. We believe that county councils are only responsible for repairing roads which are in unincorporated areas of the county. As section 5-27-120 clearly and specifically directs municipal councils to “repair all the streets, ways and bridges within the limits of the city or town,” we believe it is irrelevant what political subdivision built or traditionally maintained the streets.

Sincerely,

Elinor V. Lister
Assistant Attorney General

**REVIEWED AND APPROVED BY:**

Robert D. Cook
Solicitor General
MEMORANDUM

Date: December 14, 2016

To: Stormwater Management Utility Board

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

Re: Maintenance Project Report

This report will cover four major and seven minor or routine projects. The Project Summary Reports are attached. (Stormwater Summary Map by District)

Major Projects – Storm Drainage System Improvements:

- **Community Bible Church Channel - Town of Port Royal; Stormwater Utility District (SWUD 2):** This major project consisted of improving 314 feet of drainage system. Work included replacing 177 feet of stormwater pipe, jet cleaning 140 feet of channel pipe, and cleaning one catch basin. The disturbed area was hydroseeded and sodded for erosion control. Work began November 30, 2015 and was completed March 9, 2016. The total cost of the project was $84,556.10.

- **Lady’s Island Elementary School Ponds – Lady’s Island (SWUD 7):** This project improved 320 feet of drainage system. The major element of this project was dewatering and reconstructing two ponds. Additional work included modifying the outlet weir, cleaning out two catch basins and 120 feet of channel, extending an existing access pipe, installing 40 feet of channel pipe and jetting of various drainage pipes. Work began April 14, 2016 and was completed August 2, 2016. The total cost of the project was $39,780.68. Beaufort County School District is reimbursing the SWUD for this work.

- **Eastern Road - Port Royal Island (SWUD 6):** Work for this project consisted of improving 217 feet of drainage system by installing 217 feet of new 36” ADS stormwater drainage pipe between Eastern Road and Parris Island Gateway. The disturbed area was hydroyseeded for erosion control. Work began September 7, 2016 and was completed October 24, 2016. The total cost of the project was $32,919.44.

- **Green Pond - Port Royal Island (SWUD 6):** This project consisted of supplying and operating a large pump for an extended period of time to dewater the pond and maintain the water elevation at an acceptable level. The water was pumped to an existing drainage channel. Work began February 2, 2016 and was completed August 8, 2016. The total cost of the project was $15,368.31.
Minor or Routine Projects:

- **Royal Pines Boulevard – Lady’s Island (SWUD 7):** This project improved more than 4,000 feet of drainage system. Work consisted of bush hogging 4,166 feet of channel and cleaning out 3,084 feet of channel. The total cost of the project was **$12,623.34**.

- **Major Road – St. Helena Island (SWUD 8):** Work for this project included cleaning 2,897 feet of roadside ditch and jetting of various driveway, crossline and access pipes. The total cost of this project was **$9,735.20**.

- **Fairfax Street – Bluffton (SWUD 4):** This project improved 711 feet of drainage system. 687 feet of roadside ditch was cleaned, one driveway pipe was replaced and one driveway pipe was jet cleaned. The total project cost was **$8,424.88**.

- **Vineyard Point Road – St. Helena Island (SWUD 8):** This project consisted of installing one driveway pipe. The total cost of this project was **$4,207.44**.

- **Jesse Chisholm Road – Sheldon (SWUD 5):** Work included replacing one driveway pipe and placing riprap for erosion control. The total cost was **$2,393.99**.

- **Edward Court – Port Royal Island (SWUD 6):** Work consisted of cleaning out 477 feet of roadside ditch and bush hogging. The total cost was **$2,080.18**.

- **Davis Road - Bluffton (SWUD 4):** Work included hydroseeding the existing roadside ditch to control erosion. The total cost was **$633.41**.
Project Summary: Community Bible Church Channel

Activity: Routine/Preventive Maintenance

Duration: 11/30/15 - 3/9/16


### 2016-008 / Community Bible Church

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<th>Work Item</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
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### 2016-008 / Community Bible Church

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### Grand Total

- Labor Cost: $34,683.20
- Material Cost: $6,791.44
- Contractor Cost: $16,908.57
- Indirect Labor: $4,122.59
- Total Cost: $22,050.30
- Sub Total: $84,556.10
Replaced 177 LF of channel pipe. Installed sod and hydroseeded for erosion control.

Cleaned out (1) catch basin. Jetted 140 LF of channel pipe.
Project Summary: Ladys Island Elementary School Ponds (Reimbursement)

Activity: Pond Maintenance

Duration: 4/14/16 - 8/2/2016

**Narrative Description of Project:**

**2016-322 / Ladys Island Elementary School Ponds**

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**Grand Total**

<table>
<thead>
<tr>
<th>Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>718.0</td>
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</table>
Bush hogged perimeter of pond. Dewatered and reconstructed pond. Cleaned out 75 LF of channel. Installed 40 LF of channel pipe, rip rap and hydromulced for erosion control.

Cleaned out (1) catch basin. Jetted 44 LF of channel pipe.

Cleaned out (1) catch basin. Jetted 100 LF of channel pipe.

Extented 16 LF of access pipe. Jetted (1) access pipe and (1) crossline pipe.

Prepared By: BC Stormwater Management Utility
Date Print: 09/27/2016
File: C:\project summaries map/Ladys Island Elementary School Ponds Map1Reimbursement_2016-322
Bush hogged perimeter of pond. Dewatered and reconstructed pond.

Lowered weir to correct elevation. Cleaned 45 LF of channel.
Project Summary: Eastern Road

Activity: Drainage Improvement

Duration: 9/7/16 - 10/24/16

Project Summary:

**Eastern Road**

**Narrative Description of Project:**


**2017-002 / Eastern Road**

<table>
<thead>
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<th>Activity</th>
<th>Labor Hours</th>
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**2017-002 / Eastern Road**

**Sub Total**

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**Grand Total**

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<tr>
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<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Cost</th>
<th>Total Cost</th>
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<tbody>
<tr>
<td></td>
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<td>$3,126.31</td>
<td>$10,720.62</td>
<td>$798.71</td>
<td>$6,829.76</td>
<td>$32,919.44</td>
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**During**

**After**
Installed 217 LF of channel pipe. Hydroseeded for erosion control.

Project: Eastern Road
Activity: Drainage Improvement
Project #: 2017-002
Township/SW Dist: Port Royal Island/6
Completed: October 2016

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 = 120 feet

Prepared By: BC Stormwater Management Utility
Date Print: 11/29/16
File: C:\project summaries map/Eastern Road_2017-002
**Project Summary:** Green Pond

**Activity:** Pond Maintenance

**Duration:** 2/22/16 - 8/18/16

**Narrative Description of Project:**
Dewatered retention pond.

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<th>Activity</th>
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<tr>
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<td>PL / Project Layout</td>
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<td>SVCREQ / Service Request</td>
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**2016-325 / Green Pond**

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**2016-325 / Green Pond**

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**Grand Total**

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<th>Indirect Cost</th>
<th>Total Cost</th>
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<tbody>
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<td>$5,367.46</td>
<td>$15,368.31</td>
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</table>
Project: Green Pond
Activity: Pond Maintenance
Project #: 2016-325
Township/SW Dist: Port Royal Island/6
Completed: August 2016

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

Prepared By: BC Stormwater Management Utility
Date Print: 08/18/16
File:C:\project summaries map/Green Pond_2016-325

Dewatered retention pond.
Project Summary: Royal Pines Boulevard

Activity: Routine/Preventive Maintenance

Narrative Description of Project:

Duration: 7/6/16 - 7/18/16

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<th>Contractor</th>
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<td>Sub Total</td>
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<td>$893.36</td>
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Grand Total

<table>
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<tr>
<th>Labor</th>
<th>Labor</th>
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<th>Material</th>
<th>Contractor</th>
<th>Indirect</th>
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<td>Cost</td>
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<td>$893.36</td>
<td>$0.00</td>
<td>$3,544.88</td>
<td>$12,623.34</td>
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</tbody>
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Before

During

After
Bush hogged 4,166 LF of channel.

Cleaned out 3,084 LF of channel.
**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
**Project Summary**

**Project Summary:** Major Road  
**Activity:** Routine/Preventive Maintenance  
**Duration:** 7/28/16 - 8/10/16

**Narrative Description of Project:**  
Project improved 2,971 L.F. of drainage system. Cleaned out (1) catch basin and 2,897 L.F. of roadside ditch. Jetted (1) access pipe, (2) crossline pipes, (7) driveway pipes and 74 L.F. of roadside pipe. Hydroseeded for erosion control.

<table>
<thead>
<tr>
<th>2017-509 / Major Road</th>
<th>Labor</th>
<th>Labor</th>
<th>Equipment</th>
<th>Material</th>
<th>Contractor</th>
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<th>Total Cost</th>
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<tr>
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<td>Cost</td>
<td>Cost</td>
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<td>UTLOC / Utility locates</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>

**2017-509 / Major Road Sub Total**  
- **213.0**  
- **$4,906.32**  
- **$1,228.60**  
- **$625.64**  
- **$0.00**  
- **$2,974.64**  
- **$9,735.20**

**Grand Total**  
- **213.0**  
- **$4,906.32**  
- **$1,228.60**  
- **$625.64**  
- **$0.00**  
- **$2,974.64**  
- **$9,735.20**

---

**Before**

**During**

**After**
Cleaned out 1,525 LF of roadside ditch.

Cleaned out 1,372 LF of roadside ditch. Jetted 74 LF of roadside ditch.

Legend

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

1 inch = 210 feet

Project: Major Road Map 1
Activity: Routine/Preventive Maintenance
Project #: 2017-509
Township/SW Dist: St. Helena Island/8
Completed: August 2016

Prepared By: BC Stormwater Management Utility
Date Print: 12/1/16
File:C:\project summaries map/Major Road Map1_2017-509
Jetted (1) access pipe, (2) crossline pipes and (2) driveway pipes.

Cleaned out (1) catch basin. Jetted (5) driveway pipes,
Project Summary: Fairfax Street

Narrative Description of Project:

Activity: Routine/Preventive Maintenance
Duration: 5/31/16 - 6/8/16

<table>
<thead>
<tr>
<th>2015-552 / Fairfax Street</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>
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<tbody>
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</table>

2015-552 / Fairfax Street Sub Total

<table>
<thead>
<tr>
<th>2015-552 / Fairfax Street</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
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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>
</table>

Before

During

After
Cleaned out 80 LF of roadside ditch. Upsized (1) driveway pipe.

Cleaned out 226 LF of roadside ditch.

Cleaned out 381 LF of roadside ditch.

Jetted (1) driveway pipe.

Project: Fairfax Street
Activity: Routine/Preventive Maintenance
Project #: 2015-552
Township/SW Dist: Bluffton/4
Completed: June 2016

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: 11/29/16
File: C:\project summaries map/Fairfax Street_2015-552
**Project Summary:** Vineyard Point Road

**Narrative Description of Project:**
Installed (1) driveway pipe.

**Activity:** Routine/Preventive Maintenance

**Duration:** 9/7/16 - 11/16/16

<table>
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<tr>
<th>Project</th>
<th>Location</th>
<th>Description</th>
<th>Durations</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Labor Indirect</th>
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<th>Contractor Cost</th>
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<tr>
<td>APREP /</td>
<td>Asphalt Preparation</td>
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<tr>
<td>DPINS /</td>
<td>Driveway Pipe - Installed</td>
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<td></td>
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<td>Onsite Job Visit</td>
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<td>$7.52</td>
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<td>$0.00</td>
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<td>$37.93</td>
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**Total**

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<tr>
<th>Project</th>
<th>Location</th>
<th>Description</th>
<th>Durations</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Labor Indirect</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
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</thead>
<tbody>
<tr>
<td>2017-505 / Vineyard Point Road</td>
<td>2017-505 / Vineyard Point Road</td>
<td>Installed (1) driveway pipe.</td>
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**Grand Total**

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<th>Description</th>
<th>Durations</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Labor Indirect</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Before</td>
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Prepared By: BC Stormwater Management Utility
Date Print: 11/30/16
File: C:\project summaries map/Vineyard Point Road_2017-505

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: Vineyard Point Road
Activity: Routine/Preventive Maintenance
Project #: 2017-505
Township/SW Dist: St. Helena Island/8
Completed: November 2016

Installed (1) driveway pipe.
**Project Summary:** Jesse Chisholm Road  

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

**Activity:** Routine/Preventive Maintenance  

**Duration:** 11/3/16

### 2017-518 / Jesse Chisholm Road

<table>
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<tr>
<th>Description</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
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<th>Contractor Cost</th>
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<tbody>
<tr>
<td>AUDIT / Audit Project</td>
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<td>$11.75</td>
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<td>$0.00</td>
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<td><strong>2017-518 / Jesse Chisholm Road</strong></td>
<td><strong>32.0</strong></td>
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<td><strong>$0.00</strong></td>
<td><strong>$466.01</strong></td>
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**Sub Total**

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<tr>
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<th></th>
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<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Labor Hours</td>
<td>32.0</td>
<td><strong>$766.28</strong></td>
<td><strong>$225.09</strong></td>
<td><strong>$936.62</strong></td>
<td><strong>$0.00</strong></td>
<td><strong>$466.01</strong></td>
<td><strong>$2,393.99</strong></td>
</tr>
</tbody>
</table>

**Grand Total**

<p>| | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total</strong></td>
<td><strong>32.0</strong></td>
<td><strong>$766.28</strong></td>
<td><strong>$225.09</strong></td>
<td><strong>$936.62</strong></td>
<td><strong>$0.00</strong></td>
<td><strong>$466.01</strong></td>
<td><strong>$2,393.99</strong></td>
</tr>
</tbody>
</table>
Upsized (1) driveway pipe and rip rap for erosion control.
**Project Summary:** Edward Court  
**Activity:** Routine/Preventive Maintenance  
**Duration:** 9/19/16 - 9/26/16  

**Narrative Description of Project:**  

<table>
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<tr>
<th>Activity</th>
<th>Hours</th>
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<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
<td>0.5</td>
<td>$11.75</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$6.62</td>
<td>$18.36</td>
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<tr>
<td>CBH / Channel- bushhogged</td>
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<td>$0.00</td>
<td>$0.00</td>
<td>$13.23</td>
<td>$37.93</td>
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</tbody>
</table>

**2017-516 / Edward Court**  
**Sub Total**  
44.5  
$1,071.85  
$270.21  
$99.60  
$638.52  
$2,080.18

**Grand Total**  
44.5  
$1,071.85  
$270.21  
$99.60  
$638.52  
$2,080.18
Cleaned out 190 LF of roadside ditch.

Cleaned out 224 LF of roadside ditch.
Bush hogged 214 LF of roadside ditch.

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: Edward Court
Map 2

Activity: Routine/Preventive Maintenance

Project #: 2017-516

Township/SW Dist: Port Royal Island/6

Completed: September 2016
**Project Summary:** Davis Road

**Activity:** Routine/Preventive Maintenance

**Duration:** 6/23/16

**Narrative Description of Project:**
Hydroseeded roadside ditch.

<table>
<thead>
<tr>
<th>2016-627 / Davis Road</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
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<td><strong>$130.28</strong></td>
<td><strong>$633.41</strong></td>
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</table>

**Sub Total**

|             | 10.0 | $211.33 | $46.17 | $245.64 | $0.00 | $130.28 | $633.41 |

**Grand Total**

|             | 10.0 | $211.33 | $46.17 | $245.64 | $0.00 | $130.28 | $633.41 |

(Pictures Not Available)
Hydroseeded roadside ditch.
Battery Creek Water Quality Retrofit

Progress Update to SW Utility Board

Paul Moore, P.E. – Project Manager, Ward Edwards Engineering

Neil Desai, P.E. – City Engineering, City of Beaufort
Battery Creek – Known Impairments

Shellfish Harvesting Closures
Battery Creek Water Quality Retrofit

- EPA Section 319 Water Quality Grant - $350,000
- Ward Edwards & City Prepared Watershed Management Plan and Grant Application - 2013
- County partnered with City as Applicant
- City, County and Ward Edwards negotiated with private land owner for property access.
Battery Creek Water Quality Retrofit

S.C. Major Watersheds
Battery Creek Water Quality Retrofit

Coosawhatchie Watershed
Battery Creek Water Quality Retrofit

Beaufort County
Battery Creek Water Quality Retrofit

Battery Creek Headwaters
Battery Creek Water Quality Retrofit

Burton Hill Sub-Basin
Battery Creek Water Quality Retrofit

Burton Hill Sub-Basin
Battery Creek Water Quality Retrofit

BMP Concept

Existing 48" RCP I.E. 2.23

Diversion Pipe to Pond

Existing Pond
Area = 2 AC ±
NWL: 4.50 ±
TOB: 7.00 ±

Excavate Pond to Depth 8 FT Below NWL

Construct Outlet Control and Discharge Pipe from Pond

Fill portion of ditch to divert flow to pond.

Sediment Forebay

Cold Ferriché Rd
Battery Creek Water Quality Retrofit

- 2015 - Design & Permitting
- 2016 - Construction
- Early 2017 - Grant Closeout
Battery Creek Water Quality Retrofit

- EPA Section 319 Water Quality Grant - $350,000
- Competitive grant administered by SCDHEC based on need and effectiveness.
- Remainder ($400,000) funded by the City/County through the Stormwater Utility Fee.

Project Funding
Battery Creek Water Quality Retrofit

Construction Progress
Battery Creek Water Quality Retrofit

Construction Progress
Battery Creek Water Quality Retrofit

Construction Progress
Battery Creek Water Quality Retrofit

Construction Progress
Battery Creek Water Quality Retrofit

Construction Progress
Battery Creek Water Quality Retrofit

Questions?

Paul Moore, P.E. – Project Manager, Ward Edwards Engineering

Neil Desai, P.E. – City Engineering, City of Beaufort
STATE OF SOUTH CAROLINA

COUNTY OF BEAUFORT

QUITCLAIM DEED

KNOW ALL MEN BY THESE PRESENTS, THAT Shell Point Investments, LLC (hereinafter “Grantor”), for and in consideration of the sum of Ten and No/100 Dollars ($10.00) to it in hand paid at and before the sealing of these presents by Beaufort County (hereinafter “Grantee”), whose address is Post Office Drawer 1228, Beaufort, South Carolina 29901-1228, the receipt whereof is hereby acknowledged, has remised, released and forever quit-claimed, and by these presents does remise, release and forever quit-claim unto the said Grantee, its successors and assigns forever, all of its right, title and interest in and to the following described real property, to wit:

All those certain pieces, parcels or strips of land situate, lying and being in Shell Point Subdivision, Beaufort County, South Carolina, and being more particularly shown as 20’ – 30’ wide strips of land on a plat of Shell Point Subdivision recorded in the Beaufort County R.O.D. Office in Plat Book 17 at Page 28. A copy of said plat is attached hereto as Exhibit “B”. The strips of land are also depicted in Exhibit “A”.

Also, all that property which is shown in Exhibit “C” as the ditch area located within the parcel labeled “Temporarily Reserved”. Exhibit “C” is derived from a plat recorded in Plat Book 18 at Page 126.

TOGETHER with all and singular, the rights, members, hereditaments and appurtenances to the said premises belonging or in anywise incident or appertaining.

TO HAVE AND TO HOLD all and singular the premises before mentioned unto the said Beaufort County, its successors and assigns forever.
WITNESS the hand and seal of the Grantor this 8th day of December, 2016.

WITNESSED BY:

[Signatures]

Witness #1

Witness #2

SHELL POINT INVESTMENTS, LLC

By: [Signature]

James W. Pike, Manager

STATE OF SOUTH CAROLINA

COUNTY OF BEAUFORT

I, the undersigned Notary Public, do hereby certify that James W. Pike, personally appeared before me this day and, in the presence of the two witnesses above named, acknowledged the due execution of the foregoing instrument on behalf of Shell Point Investments, LLC.

Witness my Hand and Seal, this 8th day of December, 2016.

[Signature]

Signature of Notary Public

Notary Public for the State of: South Carolina

My commission expires: May 24th, 2022

(Seal required if outside South Carolina)
Stormwater Manager’s Report for the Stormwater Utility Board Meeting

Utility Update

1. County, Town and City stormwater staff received training on Pictometry, a software package utilizing aerial photography that is used daily for stormwater management purposes.
2. Eric Larson attended the annual SCASM strategic planning session in Columbia.
3. Hurricane Matthew Response and Recovery – The Stormwater Department is applying for USDA/NRCS Emergency Watershed Protection (EWP) funds to clear the debris along our system. Funding is similar to FEMA, 75%. FEMA requires the due diligence of an applicant to find any other funding source before they will consider reimbursement. Via mutual aid agreements, this will include any work needed within Town of Bluffton, City of Beaufort, and Town of Port Royal. The Town of Hilton Head Island has also applied for this funding.

Monitoring Update

1. Lab Update (From Dr. Alan Warren and Lab Manager Danielle Mickel)
   a) Since the last USCB WQL update, the USCB WQ Lab continues working on new certifications and upholding current certifications by satisfying State requirements. This includes annual PT analyses, monthly lab water requirements, annual review of SOP’s, QAM, QA/QC, Control Charting, Report Formatting, Training Records, Chemical Hygiene Plan, MDL studies and implementing lab certification updates.
   b) The Lab has been collaborating with Beaufort County on their new MS4 sampling and the Battery Creek 319 pond project by visiting sites multiple times to determine if these sites are logistically feasible for BC needs.

Stormwater Implementation Committee (SWIC) Report

1. The SWIC committee has not met since the last Board meeting.

Stormwater Related Projects

1. US 278 Retrofit Ponds ($356,000 Budget) – The project is substantially complete.
Staff will be developing a post construction monitoring plan in the near future.

2. **Okatie West / SC 170 Widening Retrofit** (Design and Construction = $915,000 Budget) – Preliminary design is complete. Staff met with the consultant engineer, Ward Edwards Engineering, to review the plans. Submittal for permitting are pending.

3. **Easements** – Staff is working on numerous easement requests. Salem Dr. East project has cleared and will go forward starting in February. The Engineering Department is working on several easements for drainage related to proposed dirt road paving projects. This is a new procedure to assure adequate drainage on these improved roadways. In addition, Engineering and Stormwater staff has set a monthly easement coordination meeting to discuss current projects and needs.

4. **Ernst Mine on St. Helena Island** – This project is currently going through the Zoning Board of Adjustments for Special Use permit. The adjacent land owners have expressed concern about drainage. Rebecca Baker has been working closely with Zoning staff and the applicant to resolve the issues.

**Professional Contracts Report**

1. **Stormwater Management Plan (Master Plan) Update** – ($475,000 Budget; $239,542 County portion) – ATM continues to work on the next steps of the plan. The final submittal for the monitoring plan recommendations (Task 4) is due in January. They are beginning to finalize the modeling results. Part of the process involves placing known BMPs in the model and measuring the impact to the loadings.

2. **Mint Farm Basin B Modification** – ($8,000 Budget) – Construction staking will begin next week. Construction will begin immediately after.

**Regional Coordination**

1. **Factory Creek Watershed Regional Detention Basin “Phase II”** (Design Cost = $63,390, Tree Mitigation Cost is pending, Construction Cost by the Developer) – The project was to be designed and constructed in three “stages”. Stage 1 is under construction. The consultant engineer, Carolina Engineering, states that Stage 2 and 3 design are anticipated to be submitted for review in January.

2. **Horne Development at Okatie Center in Jasper County ($1,500)** – [Attached to this report is a table summarizing the stormwater standards for Jasper and Beaufort County governmental jurisdictions.](#) It was really no surprise to see that the standards for Jasper County, the City of Hardeeville, and the City of Ridgeland are less than those within Beaufort County. We are unsuccessful in getting information from the City of Hardeeville and their standards are not on-line, so our analysis is less than complete. Jasper County has both Peak and Water Quality controls but lacks a Volume Control standard. The Horne project is within the City of Hardeeville, so it is still unclear what standards will be applied and whether those will protect the Okatie Watershed at the same level and Beaufort County standards.
Municipal Reports

1. Town of Hilton Head Island (From Jeff Netzinger, Stormwater Manager)
   i. No information was available at the time of this report.

2. Town of Bluffton (From Kim Jones, Watershed Management Division Director)
   i. WATERSHED MANAGEMENT
      a. Stoney Creek Wetlands Restoration: Conceptual Phase
         • Final Summary Memo including conceptual design options are complete.
         • Conceptual designs were forwarded to the property owners for initial review prior to on-site meeting.
         • Staff, design consultant and property owner met on-site to review the conceptual designs on 11/23/16.
         • Next Steps:
           • Staff is coordinating with the design consultant to execute a contract for the design phase of the project.
           • Staff will present conceptual designs to additional property owner stakeholders on 1/13/17.
      b. 319 Grant Phase 2 (Pine Ridge) - Construction Phase
         • Staff submitted a 319 Grant amendment request to extend the grant deadline to 1/30/17 and reallocate unspent funds. The remaining 319 Grant Phase 2 funds will be reallocated to purchase engineered bacteria removal media filter socks to be installed in the wetland ditch downstream from the New Riverside Pond to maintain bacteria removal efficiency, and to install littoral shelf plantings within New Riverside Pond.
         • The grant amendment was approved by SCDHEC and the amended contract has been executed.
         • Contractor will provide application for final payment by the first week of January.
         • Next Steps:
           • Obtain easement for installation and maintenance of bacteria removal filter socks.
           • Install engineered bacteria removal filter socks.
           • Design, purchase and install littoral shelf plantings in the New Riverside Pond as needed.
      c. 319 Grant Phase 3 (May River Preserve Pond)
         • SCDHEC notified staff that the EPA has approved the grant application and the grant of $231,350 has been awarded.
         • After receiving property access approval, pre-project water quality and flow monitoring has commenced.
         • The grant contract has been approved by the EPA and executed by the Town.
         • Staff obtained verbal agreement from adjacent parcel property owner for a construction and maintenance easement.
         • Next Steps:
           • Obtain easement for construction and maintenance from property owner and adjacent parcel property owner.
           • Public Education/Outreach Session with May River Preserve property...
owners.

d. Stormwater Utility Management Plan Update
   • Beaufort County is the managing partner for this county-wide stormwater
     master plan update by Applied Technology & Management (ATM).
   • Staff provided updated Best Management Practice locations throughout the
     watershed to the contractor.
   • Staff received a preliminary scope and budget estimate not to exceed $75,000 to
     complete the May River Watershed Water Quality Model from ATM.
   • Next Steps:
     • Staff will propose completion of the Water Quality Model in FY2018
       Budget.
     • Staff will continue to participate in the county-wide effort to update the
     • Beaufort County Stormwater Management Plan as needed.

ii. DIVISION/STAFF UPDATES
a. Watershed Management
   • December Data Collection –
     • Five ground water monitoring stations at Stoney Crest Property.
     • Thirteen in-stream flow/velocity measurements collected at sampling
       locations in the headwaters of the May River.
     • Pre-project monitoring for multiple parameters was conducted at two sites
       associated with the 319 Grant Phase 3 - May River Preserve Project.
   • Municipal Separate Storm Sewer System –
     • MS4 Stormwater Management Plan was submitted to SCDHEC on
       11/30/16.
     • Staff is compiling program data for the Annual Report due to SCDHEC on
       2/1/16.
   • Microbial Source Tracking –
     • Results received from 11/21/16 sampling event from five locations.
     • No evidence of human biomarkers was detected in any of the samples from
       the five locations. Results were shared with senior staff and the Watershed
       Action Plan Advisory Committee (WAPAC).
     • Staff will collect another set of samples as soon as possible during a wet
       weather/rain event to compare dry weather samples to wet weather samples.
     • Staff attended Strategies and Tools to Protect and Restore Coastal Water Quality
       Workshop on 12/8/16.
     • Staff attended Beaufort County’s Connect Mobile App Training on 12/9/16.
     • Staff met with Restoration and Recovery to discuss education and outreach
       opportunities in the Bluffton Community.

b. Public Works
   • Ditch/Drainage Maintenance –
     • Performed weekly street sweeping on Calhoun Street, Highway 46, Simmonsville
       Road, and Buck Island Road curbs and medians.
     • Continue to cut and pile up storm debris on Heyward Street and Highway 46.
     • Performed inspection on the following ditches:
       • Brown’s property ditch
       • Palmetto Bluff Pond
       • Arrow ditch (2,569 LF)
• Red Cedar ditch (966 LF)
• Buck Island Roadside ditch (15,926 LF)
• Simmonsville Roadside ditch (13,792 LF)

3. City of Beaufort (From Neil Desai, Asst. Public Works Director)
   i. Battery Creek Pond Funded by an EPA 319 Grant ($132,609 Budget – County Portion) – The Battery Creek Retrofit project is winding down now. We will start closeout and final inspection very soon, within the week. The project is anticipated to be completed by the 3rd week in January.

4. Town of Port Royal (From Van Willis, Town Manager)
   i. Town of Port Royal had routine activity, with nothing significant to report.

MS4 Report

1. Plan review summary
   7 Plans Reviewed. The new Stormwater Permit became in effect 12/1/2016. Any land disturbance will be required to obtain a Tier One or Tier Two permit. The County has posted on the website the Conceptual and Final Check list and NEW Maintenance Agreement that will be required on all BMP’s. The County will record all Maintenance agreements and inspect them on an annual basis. An example of the permit, maintenance agreement and check lists are included in the BMP Manual found on the stormwater website.

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
<th>Type</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ernest Mine Drive-Special Use</td>
<td>12/7/2016</td>
<td>Special Use</td>
<td>Denied/ZBOA</td>
</tr>
<tr>
<td>Moss Creek Plantation</td>
<td>12/7/2016</td>
<td>Bulkhead</td>
<td>Approved with conditions.</td>
</tr>
<tr>
<td>Okatie Center PUD-Sprenger Healthcare</td>
<td>12/7/2016</td>
<td>Final</td>
<td>Approved</td>
</tr>
<tr>
<td>Fripp Island Lot 1B</td>
<td>12/14/2016</td>
<td>Special Use</td>
<td>Approved w/conditions</td>
</tr>
<tr>
<td>St. Gregory Pump Station</td>
<td>12/14/2016</td>
<td>Discussion</td>
<td>Approved</td>
</tr>
<tr>
<td>Lipmans Produce</td>
<td>12/14/2016</td>
<td>Final</td>
<td>Approved with Conditions.</td>
</tr>
<tr>
<td>Southern Fence</td>
<td>12/14/2016</td>
<td>Final</td>
<td>Approved with Conditions.</td>
</tr>
</tbody>
</table>

Staff also met with an applicant to discuss their stormwater plan prior to submittal to Planning and Zoning.

2. Inspection summary for December 3, 2016 to January 10, 2017
   Number of active permits = 27
   Number of inspections performed = 12
   Number of drainage related complaints investigated = 7
   Number of certificates of completion = 1

3. The County will begin the inspection of County Facilities in January as required in the
MS4 permit.

4. Annual reporting and the SWMP – The reporting period ended on December 1, 2016 and the report is due in February.

5. Public Involvement - The Beaufort County Connect smartphone App is up and running. The County App is currently available to the public for Android devices only. Users should go to the App store and search “Beaufort County Connect”. At a future date the App will be available via the NEW County Website and Apple phone users. The App will be used to assist in tracking complaints the County. MIS staff is in the process of adding the ability to receive and review complaints via a personal computer.

6. Public Education – Carolina Clear staff held a Lowcountry Stormwater Partners stakeholder’s meeting on January 4, 2017. This was a kick-off meeting in that the group defined Mission statements, logos, and discussed the outcomes of the Strategic plan developed last fall. Attached to this report are the minutes from that meeting. As an update to the minutes, Facebook approved the name change for the Page. It can now be found as “Lowcountry Stormwater Partners – We are Neighbors for Clean Water”.

<table>
<thead>
<tr>
<th>County</th>
<th>Peak Control</th>
<th>Water Quality Control</th>
<th>Runoff Volume Control</th>
<th>Area of Disturbance Threshold</th>
<th>Impervious Cover Control</th>
<th>Redevelopment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ToHN</td>
<td>25 yr Storm</td>
<td>Nitrates, Phosphates, Bacteria</td>
<td>1.95&quot; retention 1</td>
<td>All projects, regardless of size (including single-family)</td>
<td>10% effective area</td>
<td>Redevelopment treated the same as new development. Redeveloped sites that do not have existing detention/retention facilities must retrofit entire site to meet current performance standards.</td>
</tr>
<tr>
<td>ToS</td>
<td>2, 10, 25 yr Storm</td>
<td>No std. 1</td>
<td>1&quot; retention 1</td>
<td>0.5 acres</td>
<td>No Std. 2 [Planning/Zoning regulations limit max impervious surface]</td>
<td>Redevelopment treated the same as new development, accounting for existing facilities.</td>
</tr>
<tr>
<td>CoB</td>
<td>25 yr Storm</td>
<td>Nitrates, Phosphates, Bacteria</td>
<td>1.05&quot; retention 3</td>
<td>All projects, regardless of size.</td>
<td>No Std., [Disconnect impervious to max extent practicable]</td>
<td>Redevelopment treated the same as new development.</td>
</tr>
<tr>
<td>Jasper</td>
<td>2, 10, 25 yr Storm</td>
<td>100% off peak</td>
<td>85th percentile event</td>
<td>Same as DHEC</td>
<td>No Std.</td>
<td>No specific rules</td>
</tr>
<tr>
<td>Hardeeville</td>
<td>2,5,10 &amp; 100 yr Storm</td>
<td>Pre=Post</td>
<td>Not mentioned. May be in Storm Drainage and Design Standards. Multiple attempts to obtain data from City staff were unsuccessful.</td>
<td>All Projects.</td>
<td>Not mentioned</td>
<td>No specific rules</td>
</tr>
<tr>
<td>ToPR</td>
<td>25 yr Storm</td>
<td>Nitrates, Phosphates, Bacteria</td>
<td>1.05&quot; retention 4</td>
<td>All projects, regardless of size (including single-family)</td>
<td>No Std.</td>
<td>Redevelopment must address runoff volume increases to match pre-development volumes only</td>
</tr>
<tr>
<td>DHEC</td>
<td>2- and 10-year, 24-hour storm</td>
<td>No std.</td>
<td>1/4 inch of runoff from the entire site.</td>
<td>All projects, regardless of size, within 1/4 mile of a receiving water body in the coastal zone</td>
<td>No Std.</td>
<td>No specific rules on redevelopment. In general considers &quot;pre-development&quot; to mean pre-1992 when state regs were adopted.</td>
</tr>
</tbody>
</table>

Reference to the County’s BMP manual suggests the water quality standard is the same if a BMP is used on a project.

1 Retention volume dissipated by infiltration, evaporation, or other methods.
2 1" infiltration required for Class A and B soils only.
3 Pollutant removal is exempt in residential zones and historic areas.
4 Redevelopment must address runoff volume increases from new impervious surfaces only.
5 For the purpose of redevelopment, DHEC has typically considered "pre-development" to be the state of the site prior to 1993 (when state regs kicked in). DHEC requirements apply to all redevelopment where initial development occurred after 1993.
6 NPDES permit imposes requirement MAs to improve pre-development hydrology on redeveloped sites.
7 Bluffton mandates all projects must have minimum of 3 BMPs: 1 wet detention, 1 vegetative, and 1 filter/infiltration.
8 Redevelopment must address runoff volume increases to match pre-development volumes only.
9 Assumes all other pollutants meet with phosphorus control.
10 Reference to Municipal Zoning and Development Ordinance, 3/10/08 for Hardeeville SC.
Lowcountry Stormwater Partners  
Quarterly Consortium Meeting Minutes  
January 5th, 2017  
Beaufort County Extension Office  
102 Industrial Village Rd Bldg. 1  
Beaufort, SC 29906

Extension Agent Updates  
1. Upcoming Workshops  
   a. Two rain garden workshops and one rain barrel workshops are in the planning stages for spring/summer of 2017.  
   b. If you know a PUBLIC PROPERTY site that could benefit from a BMP installation, please email Ellen Comeau (ecomeau@clemson.edu).  
2. Master Pond Manager Coming to Beaufort County Spring 2017  
   a. Course starts on March 22nd. Registration is required.  
   b. Registration will begin sometime in mid-January.  
   c. More information and flyers will be sent out before registration opens.  
3. Carolina Clear Training Videos  
   a. Carolina Clear has a library of IDDE, HazCom, good housekeeping, and general stormwater pollution awareness videos available for use.  
   b. A list of video descriptions was sent with these minutes.  
   c. To use these videos, email Ellen Comeau (ecomeau@clemson.edu).  
4. Social Media  
   a. We are still waiting for a Facebook name change request to go through.  
   b. If the request is denied, Ellen will create and launch a new Lowcountry Stormwater Partners social media platform before February.  
5. Lowcountry Stormwater Partners Website  
   a. The LSP website is live, but is in the process of being updated.  
   b. The link to the website is:  
   c. Please send your organizations logo to Ellen Comeau (ecomeau@clemson.edu) so that it can be incorporated into the website.  
   d. All past newsletters, reports, and the 2016-2018 Regional Stormwater Outreach Plan is available on the website under the Archives tab.

Activities Database Training  
The Activates Database is how the LSP consortium will collect data from its members. The data will be used in the Annual Report that our MS4 partners will submit to DHEC. The information gathered will also be used to identify gaps and opportunities in outreach efforts, to evaluate program effectiveness, and to provide information for statewide reporting by Carolina Clear.

To navigate to the database, go to http://www.clemson.edu/extension/carolinaclear/activity-database/index.html and select “Lowcountry Stormwater Partners”. Instructions for using the database were sent with these minutes and are also available on the Activities Database website. Please disregard steps one and two on the instructions as a RaidP login is no longer required to use the database.

All partners are asked to enter their data for 2016 as soon as possible and to enter their current year data on a quarterly basis so that a quarterly LSP report can be created and published. Please have all of your data for the first quarter of the 2017 permit cycle (Feb. 1st through May 1st) by May 19th. If you have any questions about the database, please email Ellen (ecomeau@clemson.edu).
LSP Logo
Based upon initial feedback from partners, logo #4 (shown top right) was selected as the potential new LSP logo. However, after discussing the selection, the following adjustments will be made to the design:

1. The design will be changed from a rectangle format to a circular format (shown bottom right).
2. The emblem will be re-vamped to look less like a yin-yang.
3. The emblem will be re-designed to create the following variations:
   a. A dolphin with a more easily recognizable shrimp
   b. A dolphin and a crab
   c. A turtle and a crab

After the new designs are received, they will be sent out to the partners to vote and comment on once again. After a final design has been selected, color studies will be done.

LSP Key Educational Concepts
Key educational concepts are the ideas that will be woven into our educational outreach and involvement efforts. These concepts describe the basic information that the LSP want our audiences to understand. Key educational concepts are not meant to be taglines, mottos, or other marketable phrases and therefore did not go through extensive editing. However, the following concepts will be used to guide the development of the consortium’s vision statement, goals, and messaging efforts.

1. Everyone lives in and is part of a watershed.
2. Environmental health directly impacts economic health in the Lowcountry.
3. Activities on land have a direct impact on water quality.
4. Freshwater, especially large volumes of stormwater runoff, is a stressor for the Lowcountry’s tidal creeks, saltmarshes, and other marine environments.
5. You contribute to stormwater pollution, but you can also help to reduce it.
6. We all must do our part and work together to reduce stormwater pollution and to protect what makes the Lowcountry so special.
   a. This concept can be further refined but describes a key sentiment felt by the LSP.
7. Freshwater resources such as stream headwaters, swamps, and recreational ponds are negatively affected by polluted stormwater runoff.
8. The primary pollutants of concern in the Lowcountry are post-construction maintenance, freshwater, litter, bacteria, nutrients, and sediment.
9. Protecting water quality and managing stormwater runoff are not free services and the stormwater utility fee helps pay for those services.
LSP Mission Statement

- During the meeting, the partners drafted the following mission statement:
  - To protect and restore healthy and productive Lowcountry waterways through a network of partnerships that provides education outreach and involvement opportunities to its citizens and businesses on stormwater impact.
- Partners have until January 20th, 2017 to submit any ESSENTIAL EDITS to the mission statement. Essential edits are phrases or ideas that, without their inclusion, would cause your organization to completely reject the proposed mission statement.
- A Vision Statement, goals, and objectives will be drafted at a later date.

Kiosk Discussion

In the fiscal year 2012-2013, the MS4s, municipalities, the Port Royal Sound Foundation, and other partners developed educational, touch-screen kiosks. For background information about this project, please see the project summary that was sent with these minutes. The following information is an update of the project and the proposed next steps to evaluate the future use of this technology.

- Five kiosks are currently in use and one is located in each municipality.
- The kiosks display a PowerPoint presentation with embedded videos that was developed in 2013.
- It is thought that the kiosks cannot connect to the internet, but that will be verified by Beth Lewis.
- The general consensus is that the kiosks should be updated with information and presentations designed for targeted audiences and age groups as well as be re-branded to reflect the new LSP consortium.
- There is no procedure in place to track how often the kiosks are used and what information is accessed. This makes it difficult to evaluate their effectiveness.
- The next steps in the project include:
  - Ellen Comeau following up with Chris Marsh to discuss how the kiosks can be updated.
  - Ellen Comeau working with partners to develop a method to track the current effectiveness of the kiosks.

Children’s Character Creation

The consortium agreed to create a children’s character for youth outreach. The character will be initially created as a cartoon character to be used in print and digital media. Afterwards, a costume will be created so that the character can attend outreach events as a LSP mascot. The character’s design will be based upon the animals used in the final LSP logo.

Next Consortium Meeting

The next LSP consortium meeting will take place the first or the last week in April. Ellen Comeau will send out another Doodle poll with potential dates and times later this quarter. If you are interested in hosting the next consortium meeting, please email Ellen Comeau (ecomeau@clemson.edu).
MEMORANDUM

Date: January 18, 2017

To: Stormwater Management Utility Board

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

Re: Maintenance Project Report

This report will cover three major and three minor projects. The Project Summary Reports are attached. (Stormwater Summary Map by District)

**Major Projects:**

- **Roosevelt Avenue – Port Royal Island (Storm Water Utility District (SWUD) 6):** This major project improved 427 feet of storm drainage system to maintain the water level in the Green Pond storm water retention basin. Work included cleaning 92 feet of channel, jet cleaning 120 feet of channel pipe, installing one weir, two catch basins, one crossline pipe and 258 feet of channel pipe. Riprap and straw mat was placed and the disturbed areas hydrosseeded to control erosion. The total cost of this project was $68,370.87.

- **Tom Fripp Road – St. Helena Island (SWUD 8):** This project improved 800 feet of drainage system. The scope included clearing vegetation and tree limbs, constructing 800 feet of workshelf, replacing one driveway pipe and installing one new pipe. The disturbed area was hydrosseeded for erosion control. The total cost was $33,330.74.

- **Gamecock Way – Sheldon (SWUD 7):** This major project in Sheldon improved 1,088 feet of drainage system. Work consisted of clearing and grubbing the workshelf, channel cleanout, replacing one pipe and installing two new pipes. The total cost was $20,519.81.

**Minor or Routine Projects:**

- **Seigler Road Channel #1 – Sheldon (SWUD 5):** Work for this project included cleaning out 600 feet of existing drainage channel. The total cost of this project was $4,686.43.

- **Clarendon Road – Port Royal Island (SWUD 6):** SCDOT replaced a failed pipe on Clarendon Road. Our crew assisted SCDOT with the work, providing manpower and equipment. The total cost was $3,298.26.

- **Port Royal Island Valley Drains – Port Royal Island (SWUD 6):** This project included broom cleaning paved valley gutters on Port Royal Island. The total cost was $909.29.
Project Summary: Roosevelt Avenue

Activity: Drainage Improvement

Duration: 7/20/16 - 9/8/16

Narrative Description of Project:

### Grand Total

<table>
<thead>
<tr>
<th>Description</th>
<th>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>Total</td>
<td>1,120</td>
<td>$28,606.52</td>
<td>$8,186.79</td>
<td>$15,863.07</td>
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### 2016-015 / Roosevelt Avenue

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<tr>
<th>Description</th>
<th>Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
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<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
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<td>APREP / Asphalt Preparation</td>
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<td>$0.00</td>
<td>$13.23</td>
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<tr>
<td>CBINS / Catch basin - installed</td>
<td>200.0</td>
<td>$4,588.80</td>
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<td>CCO / Channel - cleaned out</td>
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<td>$4,490.89</td>
<td>$311.17</td>
<td>$64.35</td>
<td>$0.00</td>
<td>$1,208.50</td>
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<td>CPI / Channel Pipe - Installation</td>
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<td>CPJ / Channel Pipe - Jetted</td>
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<td>HAUL / Hauling</td>
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<td>HYDR / Hydroseeding</td>
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<td>PP / Project Preparation</td>
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<td>RRI / Rip Rap - Installed</td>
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<td>$13.23</td>
<td>$37.93</td>
</tr>
</tbody>
</table>

Before

[Image of Before scene]

During

[Image of During scene]

After

[Image of After scene]
Project: Roosevelt Avenue
Map 1

Activity: Drainage Improvement

Project #: 2016-015

Township/SW Dist: Port Royal Island/6

Completed: September 2016

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: 12/28/16
File:C:\project summaries map\Roosevelt Avenue Map1_2016-015

Installed (1) weir, (2) catch basins, (1) crossline pipe

Installed 138 LF of channel pipe, strawmat and hydroseeded for erosion control.

Installed 120 LF of channel pipe, strawmat, rip rap and hydroseeded for erosion control.

1 inch = 50 feet
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: Roosevelt Avenue Map 2
Activity: Drainage Improvement
Project #: 2016-015
Township/SW Dist: Port Royal Island/6
Completed: September 2016

Prepared By: BC Stormwater Management Utility
Date Print: 12/28/16
File: C:\project summaries map\Roosevelt Avenue Map 2_2016-015

Cleaned out 92 LF of channel.
Jetted 120 LF of channel pipe.
**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
**Project Summary**

**Project Summary:** Tom Fripp Road  
**Activity:** Routine/Preventive Maintenance

**Duration:** 5/31/16 - 8/10/16

Narrative Description of Project:

<table>
<thead>
<tr>
<th>2016-013 / Tom Fripp Road</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Cost</th>
<th>Total Cost</th>
</tr>
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<tbody>
<tr>
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<td>$0.00</td>
<td>$0.00</td>
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<td>$36.72</td>
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<tr>
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<td>40.0</td>
<td>$942.10</td>
<td>$471.65</td>
<td>$113.80</td>
<td>$0.00</td>
<td>$585.80</td>
<td>$2,113.35</td>
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<tr>
<td>CCO / Channel - cleaned out</td>
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<td>$278.84</td>
<td>$240.52</td>
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<td>$0.00</td>
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<td>$0.00</td>
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<td>$825.00</td>
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</table>

**Sub Total**  

<table>
<thead>
<tr>
<th>2016-013 / Tom Fripp Road</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
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<td>$15,012.14</td>
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**Grand Total**  

<table>
<thead>
<tr>
<th>2016-013 / Tom Fripp Road</th>
<th>Labor Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>645.0</td>
<td>$15,012.14</td>
<td>$5,131.49</td>
<td>$2,651.73</td>
<td>$825.00</td>
<td>$9,710.37</td>
<td>$33,330.74</td>
<td></td>
</tr>
</tbody>
</table>

Before

During

After
Shinn cut, reconstructed and cleaned out 800 LF of channel. Removed (1) access pipe. Installed (1) bleeder pipe. Hydroseeded for erosion control.

Grubbed, cleared and constructed 800 LF of workshelf. Upsized (1) driveway pipe.
**Beaufort County**
**Public Works**
**Stormwater Infrastructure**
**Project Summary**

**Project Summary:** Gamecock Way

**Activity:** Routine/Preventive Maintenance

**Duration:** 7/13/16 - 7/28/16

**Narrative Description of Project:**
Project improved 1,088 L.F. of drainage system. Grubbed and cleared 1,088 L.F. of workshelf. Cleaned out 1,088 L.F. of channel. Replaced (1) access pipe. Installed (2) bleeder pipes and rip rap for erosion control.

<table>
<thead>
<tr>
<th>2016-626 / Gamecock Way</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>
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<td>$0.00</td>
<td>$6.62</td>
<td>$18.36</td>
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<tr>
<td>BPINST / Bleeder pipe - Installed</td>
<td>30.0</td>
<td>$734.00</td>
<td>$241.38</td>
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<td>$0.00</td>
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**2016-626 / Gamecock Way Sub Total**

<table>
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<th>Labor Hours</th>
<th>Labor Cost</th>
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<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
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<td>$5,646.88</td>
<td>$20,519.81</td>
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**Grand Total**

<table>
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<th>Labor Hours</th>
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<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Labor</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>375.0</td>
<td>$8,858.31</td>
<td>$2,936.28</td>
<td>$3,078.34</td>
<td>$0.00</td>
<td>$5,646.88</td>
<td>$20,519.81</td>
</tr>
</tbody>
</table>

Before

![Before Image](image1)

During

![During Image](image2)

After

![After Image](image3)
Grubbed and cleared 1,088 LF of workshelf. Cleaned out 1,088 LF of channel. Replaced (1) access pipe. Installed (2) bleeder pipes and rip rap for erosion control.
**Beaufort County**  
**Public Works**  
**Stormwater Infrastructure**  
**Project Summary**

**Project Summary:** Seigler Road Channel #1  
**Activity:** Routine/Preventive Maintenance  
**Duration:** 4/7/16 - 7/21/16

**Narrative Description of Project:**  
Project improved 600 L.F. of drainage system. Cleaned out 600 L.F. of channel.

<table>
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<th>2016-618 / Seigler Road Channel #1</th>
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<th>Labor</th>
<th>Equipment</th>
<th>Material</th>
<th>Contractor</th>
<th>Indirect</th>
<th><strong>Total Cost</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hours</strong></td>
<td><strong>Cost</strong></td>
<td><strong>Cost</strong></td>
<td><strong>Cost</strong></td>
<td><strong>Cost</strong></td>
<td><strong>Cost</strong></td>
<td><strong>Labor</strong></td>
<td><strong>Total Cost</strong></td>
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<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$6.62</td>
<td>$18.36</td>
</tr>
<tr>
<td>CCO / Channel - cleaned out</td>
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<td>$0.00</td>
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<td>$595.98</td>
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</tbody>
</table>

**Sub Total**  
**2016-618 / Seigler Road Channel #1**  
**111.5** | $2,543.34 | $437.09 | $132.59 | $0.00 | $1,573.41 | $4,686.43

**Grand Total**  
**111.5** | $2,543.34 | $437.09 | $132.59 | $0.00 | $1,573.41 | $4,686.43

---

**Before**

![Before Image](image1)

**During**

![During Image](image2)
Cleaned out 600 LF of channel.
**Project Summary:** Clarendon Road

**Activity:** Routine/Preventive Maintenance

**Duration:** 4/7/16 - 7/21/16

**Narrative Description of Project:**
Assisted SCDOT with crossline repair.

### Cost Breakdown

<table>
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<th>Description</th>
<th>Hours</th>
<th>Labor Cost</th>
<th>Equipment Cost</th>
<th>Material Cost</th>
<th>Contractor Cost</th>
<th>Indirect Cost</th>
<th>Total Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUDIT / Audit Project</td>
<td>0.5</td>
<td>$11.75</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$0.00</td>
<td>$6.62</td>
<td>$18.36</td>
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<tr>
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<td><strong>$135.44</strong></td>
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<td><strong>$1,017.11</strong></td>
<td><strong>$3,298.26</strong></td>
</tr>
</tbody>
</table>

**Sub Total**

| **2017-004 / Clarendon Road** | **67.5** | **$1,676.44** | **$469.27** | **$135.44** | **$0.00** | **$1,017.11** | **$3,298.26** |

**Grand Total**

| **2017-004 / Clarendon Road** | **67.5** | **$1,676.44** | **$469.27** | **$135.44** | **$0.00** | **$1,017.11** | **$3,298.26** |

---

**Before**

**During**

**After**
Assisted SC DOT with crossline repair.
**Project Summary:** Port Royal Island Valley Drains  

**Activity:** Routine/Preventive Maintenance

**Narrative Description of Project:**
Project improved 23,460 L.F. of drainage system. Cleaned out 23,460 L.F. of valley drains. This project consisted of the following areas: L.H. Nelson Drive (4,150 L.F.), Jefferson Drive (2,280 L.F.), Hale Drive (2,400 L.F.), Jay Street (1,720 L.F.), Grant Street (1,250 L.F.), Roseida Road Extension (3,660 L.F.), Harold Drive (3,140 L.F.), Blackburn Pierce Drive (1,460 L.F.), and Jonesfield Road (3,400 L.F.)

<table>
<thead>
<tr>
<th>2016-313A / Port Royal Island Valley Drains</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>
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<td>$55.93</td>
<td>$12.87</td>
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<td>$325.63</td>
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</table>

**2016-313A / Port Royal Island Valley Drains**  
**Sub Total**  
20.0 $424.90 $174.41 $43.17 $0.00 $266.81 $909.29

**Grand Total**  
20.0 $424.90 $174.41 $43.17 $0.00 $266.81 $909.29

**Before**  

**During**  

**After**
Cleaned out 2,075 LF of valley drain.
Cleaned out 1,140 LF of valley drain.

Prepared By: BC Stormwater Management Utility
Date Print: 01/03/17
File: C:\project summaries map/PRI Valley Drains- Jefferson Drive Map #2_2016-313A
Cleaned out 1,200 LF of valley drain.

Cleaned out 1,200 LF of valley drain.
Cleaned out 625 LF of valley drain.

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 1,830 LF of valley drain.

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: PRI Valley Drains - Roseida Road EXT
Map #5

Activity: Routine/Preventive Maintenance

Project #: 2016-313A

Township/SW Dist: Port Royal Island/6

Completed: January 2016

Prepared By: BC Stormwater Management Utility
Date Print: 01/03/17
File: C:\project summaries map/PRI Valley Drains- Roseida Rd EXT Map #5_2016-313A

Cleaned out 1,830 LF of valley drain.
Project: PRI Valley Drains - Harold Drive  
Map #6

Activity: Routine/Preventive Maintenance

Project #: 2016-313A

Township/SW Dist: Port Royal Island/6

Completed: January 2016

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 1,570 LF of valley drain.

Cleaned out 1,027 LF of valley drain.

Cleaned out 543 LF of valley drain.
Cleaned out 730 LF of valley drain.
Cleaned out 1,700 LF of valley drain.

Cleaned out 1,700 LF of valley drain.
Project: PRI Valley Drains - Jay Street Map #9
Activity: Routine/Preventive Maintenance
Project #: 2016-313A
Township/SW Dist: Port Royal Island/6
Completed: January 2016

Prepared By: BC Stormwater Management Utility
Date Print: 01/03/17
File: C:\project summaries map/PRI Valley Drains-Jay Street Map #9_2016-313A

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 860 LF of valley drain.
### BEAUFORT COUNTY, SOUTH CAROLINA
### STATEMENT OF NET POSITION
### STORMWATER UTILITY FUND
### December 31, 2016 and 2015

#### ASSETS

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2016</th>
<th>December 31, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Assets</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and Cash Equivalents</td>
<td>$ 2,523,213</td>
<td>$ 3,070,203</td>
</tr>
<tr>
<td>Receivables, Net</td>
<td>354</td>
<td>660</td>
</tr>
<tr>
<td>Inventories</td>
<td>107,247</td>
<td>73,741</td>
</tr>
<tr>
<td><strong>Total Current Assets</strong></td>
<td>2,630,813</td>
<td>3,144,605</td>
</tr>
<tr>
<td><strong>Capital Assets</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3,903,950</td>
<td>3,387,549</td>
</tr>
<tr>
<td>Accumulated Depreciation</td>
<td>(2,632,769)</td>
<td>(2,289,377)</td>
</tr>
<tr>
<td><strong>Total Assets</strong></td>
<td>3,901,994</td>
<td>4,242,777</td>
</tr>
</tbody>
</table>

#### DEFERRED OUTFLOWS OF RESOURCES

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2016</th>
<th>December 31, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions to pension plan</td>
<td>136,001</td>
<td>126,782</td>
</tr>
<tr>
<td>Pension experience differences</td>
<td>49,507</td>
<td>53,749</td>
</tr>
<tr>
<td><strong>Total deferred outflows of resources</strong></td>
<td>185,508</td>
<td>180,531</td>
</tr>
</tbody>
</table>

**Total assets and deferred outflows of resources**

|                                      | $ 4,087,502            | $ 4,423,308            |

#### LIABILITIES

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2016</th>
<th>December 31, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Liabilities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Account Payable</td>
<td>$ 82,655</td>
<td>$ 102,956</td>
</tr>
<tr>
<td>Accrued Payroll</td>
<td>90,989</td>
<td>58,559</td>
</tr>
<tr>
<td>Accrued Compensated Absences</td>
<td>9,359</td>
<td>10,489</td>
</tr>
<tr>
<td><strong>Total Current Liabilities</strong></td>
<td>183,003</td>
<td>172,004</td>
</tr>
<tr>
<td><strong>Noncurrent Liabilities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Accrued Compensated Absences</td>
<td>68,636</td>
<td>76,917</td>
</tr>
<tr>
<td>Net Pension Liability</td>
<td>2,069,312</td>
<td>1,897,384</td>
</tr>
<tr>
<td><strong>Total Noncurrent Liabilities</strong></td>
<td>2,137,948</td>
<td>1,974,301</td>
</tr>
</tbody>
</table>

**Total Liabilities**

|                                      | 2,320,951              | 2,146,304              |

#### DEFERRED INFLOWS OF RESOURCES

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2016</th>
<th>December 31, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net pension change in projected investment earnings</td>
<td>15,974</td>
<td>159,919</td>
</tr>
<tr>
<td><strong>Total deferred inflows of resources</strong></td>
<td>15,974</td>
<td>159,919</td>
</tr>
</tbody>
</table>

#### NET POSITION

<table>
<thead>
<tr>
<th></th>
<th>December 31, 2016</th>
<th>December 31, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net investment in capital assets</td>
<td>1,271,181</td>
<td>1,098,173</td>
</tr>
<tr>
<td>Unrestricted (Deficit)</td>
<td>479,397</td>
<td>1,018,912</td>
</tr>
<tr>
<td><strong>Total Net Position</strong></td>
<td>$ 1,750,578</td>
<td>$ 2,117,085</td>
</tr>
</tbody>
</table>

**Total liabilities, deferred inflows of resources, and net position**

|                                      | $ 4,087,502            | $ 4,423,308            |
|--------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| **Fiscal Year 2017**           | Budget Actual     | Variance          | Budget Actual     | Variance          | Budget Actual     | Variance          |
| **Revenues**                   |                   |                   |                   |                   |                   |                   |
| Stormwater Utility Fees        | $5,058,882        | $488,097          | $(4,570,785)      | $5,058,882        | $2,293,105        | $(2,765,777)      |
| Stormwater Utility Project Billings | 241,030          | 96,630            | (144,400)         | 275,851           | -                 | (275,851)         |
| Countywide Infrastructure Fees  | 496,148           | 44,105            | (452,043)         | 496,148           | 200,922           | (295,226)         |
| Miscellaneous                  | -                 | 1,222             | 1,222             | -                 | 399               | 399               |
| Total Revenues                 | 5,796,060         | 630,054           | (5,166,006)       | 5,830,881         | 2,494,426         | (3,336,455)       |
| **Expenses**                   |                   |                   |                   |                   |                   |                   |
| Personnel                      | 2,563,225         | 1,074,208         | 1,489,017         | 2,563,225         | 1,166,017         | 1,397,208         |
| Purchased Services             | 2,119,831         | 483,027           | 1,636,804         | 2,197,856         | 289,776           | 1,908,080         |
| Supplies                       | 346,749           | 140,995           | 205,754           | 358,324           | 158,232           | 200,092           |
| Capital                        | 526,290           | 33,761            | 492,529           | 611,290           | -                 | 611,290           |
| Depreciation                   | 311,758           | 155,879           | 155,879           | 248,481           | 124,244           | 124,237           |
| Total Expenses                 | 3,304,628         | 1,887,870         | 3,979,983         | 5,979,176         | 1,738,269         | 4,240,907         |
| Change in Net Position         | 2,491,432         | (1,257,816)       |                   | (148,295)         |                   | 756,157           |
| Net Position, Beginning        | 3,008,394         | 3,008,394         |                   | 1,360,928         | 1,360,928         |                   |
| Net Position, Ending           | $5,499,826        | $1,750,578        |                   | $1,212,633        | $2,117,085        |                   |

**Note 1:** Fiscal Year 2017, Ad Valorem Property Tax and related revenue has not been posted for the month of December 2016 at the time this report was prepared. The Stormwater Utility Fee Revenue for the same time period in Fiscal Year 2016, December 2015, was approximately $1.8 million.
BEAUFORT COUNTY
STORMWATER MANAGEMENT UTILITY BOARD AGENDA
Wednesday, February 15, 2017
2:00 p.m.
Executive Conference Room, Administration Building
Beaufort County Government Robert Smalls Complex
100 Ribaut Road, Beaufort, South Carolina
843.255.2805

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

1. CALL TO ORDER – 2:00 p.m.
   A. Approval of Agenda
   B. Approval of Minutes – January 18, 2016 (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)
   I. Maintenance Projects Report – David Wilhelm (backup)
   J. Financial Report – Chanel Lewis (backup)

5. UNFINISHED BUSINESS

6. NEW BUSINESS
   A. Special Presentation: Town of Bluffton - TBD

7. PUBLIC COMMENT

8. NEXT MEETING AGENDA
   A. March 15, 2016 (backup)

9. ADJOURNMENT