



Brunswick-Glynn County Joint Water and Sewer Commission
1703 Gloucester Street, Brunswick GA 31520
Wednesday, May 15, 2019 at 10:00 AM
Commission Meeting Room

FACILITIES COMMITTEE MEETING AGENDA

COMMITTEE MEMBERS:

Chairman Ben Turnipseed
Commissioner Bob Duncan
Commissioner Steve Copeland
Interim Executive Director Andrew Burroughs

PUBLIC COMMENT PERIOD

Public Comments will be limited to 3 minutes per speaker. Comments are to be limited to relevant information regarding your position and should avoid being repetitious. Individuals should sign in stating your name, address and the subject matter on which you wish to speak. Your cooperation in this process will be greatly appreciated.

APPROVAL

- 1. Minutes from April 3, 2019 Facilities Committee Meeting (*subject to any necessary changes*)**
- 2. Minutes from April 3, 2019 Facilities Committee Executive Session Minutes (*subject to any necessary changes*)**
- 3. Academy Creek Engineering RFP Recommendation Award – A. Burroughs**
- 4. Harrington Lane Sewer Dedication Acceptance – T. Kline**

DISCUSSION

- 1. SPLOST 2020 Recommended Projects Detail**
- 2. WPCF Plant Flows Report**
- 3. Project Report**
 - L Street**
 - SSI Smoke Testing**
 - Magnolia Park**
 - SPLOST North Mainland**
 - SPLOST PS4003**
 - PS 3114**

MEETING ADJOURNED

All citizens are invited to attend.
There is a possibility of a quorum of City or County Commissioners being present.



Brunswick-Glynn County Joint Water & Sewer Commission
1703 Gloucester Street, Brunswick, GA 31520
Commission Meeting Room
Wednesday, May 15, 2019 at 10:00 AM

FACILITIES COMMITTEE MINUTES

PRESENT: Ben Turnipseed, Chairman
Steve Copeland, Commissioner
Bob Duncan, Commissioner
Andrew Burroughs, Interim Executive Director

ALSO PRESENT: Donald Elliott, Commissioner
Todd Kline, Director of Engineering
Ellis Zettler, Engineering Systems Analyst
Janice Meridith, Exec. Commission Administrator

MEDIA PRESENT: Taylor Cooper, The Brunswick News
Pamela Permar-Shierling, The Islander

Chairman Turnipseed called the meeting to order at 10:00 AM.

Chairman Turnipseed provided the invocation.

PUBLIC COMMENT PERIOD

There being no citizens that wished to address the Committee, Commissioner Turnipseed closed the Public Comment Period.

APPROVAL

1. Minutes from Facilities Committee Meeting April 3, 2019

Commissioner Copeland made a motion seconded by Commissioner Duncan to approve the minutes from the Facilities Committee Meeting held on April 3, 2019. Motion carried 3-0-0.

2. Minutes from Facilities Committee Executive Session April 3, 2019

Commissioner Duncan made a motion seconded by Commissioner Copeland to approve the minutes from the Facilities Committee Executive Session held on April 3, 2019. Motion carried 3-0-0.

3. Academy Creek Engineering RFP Recommendation Award – A. Burroughs

Mr. Burroughs advised that the recommendation was not ready at this time. Interviews with the proposing firms were conducted on Monday, May 13 and Tuesday, May 14. Reference checks and verification of some information was still in process and needed completion for a proper comparison. Mr. Burroughs advised that the recommendation will be ready for the next Facilities Committee Meeting.

4. Harrington Lane Sewer Dedication Acceptance – T. Kline

Todd Kline presented the recommendation for infrastructure dedication. He explained that the private developer had extended the sewer infrastructure down Harrington Lane on St. Simons Island, at their cost and is now dedicating that infrastructure to JWSC. Mr. Kline added that it is all within the right of way and there was no easement dedication involved in this transfer of private assets to the public JWSC system. All necessary documents were provided within the packet of information for the committee to review in their decision to forward to the full Commission for official acceptance of ownership of the infrastructure.

Commissioner Duncan made a motion seconded by Commissioner Copeland to accept the dedication as submitted. Motion carried 3-0-0.

DISCUSSION

1. SPLOST 2020 Recommended Projects Detail

Mr. Burroughs provided that the previous discussions on the possible SPLOST 2020 projects were an overview of those projects. Today, the discussion will pertain more to “where” those projects are going based on the City and County’s anticipated SPLOST 2020 projects. Mr. Burroughs noted that the specifics of exactly where their projects will actually be has not been provided yet. The City has indicated they will be doing paving and drainage improvements in the City. The County has provided an overall list of projects and will be holding a workshop in the next month to discuss the list further and determine priorities. JWSC staff will review the lists more closely when the details are provided. Mr. Burroughs then stated that for JWSC’s purposes, the need to rehab sewer lines in large portions of the county is important. He has asked the sewer crews to provide a list of the most immediate or catastrophic needs they see. He added that the gravity sewer lines crossing under Altama Avenue have been mentioned to him several times, that these lines have been TV’d and there are some issues there. Those could likely be on the project list for some CIPP work, as well as additional high priority CIPP work needed in the area. In the south area of Brunswick there are some old clay pipes with issues and deterioration and in need of rehab, but Mr. Burroughs added, not all of those lines have issues; as seen by the videos of the lines, some of the old clay pipes appear to be in very good condition. The work done will be very specific and not in entire basins, but only on lines in need of rehab. The area by the hospital does show significant amounts of inflow & infiltration (I&I) and more investigation will be done in that area. Mr. Burroughs also noted some water projects in neighborhoods off of Altama, such as Fairway Oaks and Beverly Shores where there are some old transite and galvanized lines that may need repair. Commissioner Duncan had previously suggested consolidated operations and emergency management area to be on the SPLOST project list. Mr. Burroughs provided that this was currently included in the proposals being reviewed for Academy Creek, but as there may not be enough money to do everything at Academy Creek on the proposed list, this could be shifted from that list to the SPLOST project list. Mr. Burroughs advised the committee that hopes are to provide more details, exhibits, and cost estimates on the projects for the SPLOST list, and he further noted that only lines that have been TV’d and identified as having a “4” or “5” defect in them would be considered for rehab on the SPLOST list.

Chairman Turnipseed requested to move the discussion on Smoke Testing up on the agenda for the staff present.

2. Project Report / SSI Smoke Testing

Mr. Burroughs provided that the smoke testing on St. Simons Island began on May 1st and should be completed within the next day. Updates on what has been found have been provided on a daily basis. He noted that the door hangers were placed and everything seemed to be quietly moving along in the process. He stated that two significant cross connection issues have been found in front of The King & Prince

where 6 storm grates are tied into the JWSC system for which JWSC will work with the County to determine the best means of addressing that issue. At St. Andrew's Circle the tidal creek flows into the JWSC system when the tide is in, and this also needs to be addressed. He stated that taking care of those 2 issues would provide significant reductions in the inflow & infiltration. Ellis Zettler provided that also on St. Andrew's Circle there is a storm drain cross connection. Mr. Burroughs indicated that about 30 broken cleanouts have been found, along with a substantial of missing cleanouts and those had already been replaced, while the broken cleanouts were mostly the lower ones of which JWSC construction crews would be repairing. Mr. Zettler's report indicated a few "engineered" cleanouts that were set up for drainage of properties and likely set up by the property owners were found and would be addressed. Letters would be sent to those property owners who had issues needing to be taken care of such as upper cleanouts. There were a few broken laterals found as well as ground fissures which may be good candidates for lining. At this time, it appear that the findings are items with relatively quick and easy fixes. Mr. Zettler indicated that the vast majority of the issues found were on the public JWSC side of the system, aside from the number of upper cleanouts and internal plumbing issues to be addressed on private properties. Mr. Zettler also provided that about 50% of the length of the lines on St. Simons Island will have been smoke tested at the completion of this process, and clarified that all of the lines had been flow monitored but not all were deemed to need smoke testing for I&I. Chairman Turnipseed inquired about what was found from the smoke testing of the newer sections of the island and what was found in the older sections. Mr. Zettler advised that the older sections issues were more of the cross connections and ground fissures in the system. In the newer sections the issues were due more to improper installation of cleanouts, lines not being set properly, manhole issues, covers, etc.

3. WPCF Plant Flows Report

Mr. Burroughs provided the report for the WPCF plant flows for the period ending April 2019. He noted a reduction in flow at Academy Creek likely due to the drier weather conditions, and resulting in an increase in the BOD with less I&I coming into the system. Mr. Burroughs recalled that at the last Facilities Committee meeting the elevated phosphorous levels were discussed and were noted to be due to the solids processing issues. Those levels remained elevated for the current monthly report, however he mentioned that the effluent levels were beginning to drop down. The drier weather has also reduced the flows at Dunbar Creek WPCF with the same results on the BOD as at Academy Creek. The Southport WPCF levels are doing well, yet still with some I&I issues to be addressed. Mr. Burroughs also commented that the dryer at Academy Creek is now running and only 4 days per week run time is necessary since the repairs have been done.

4. Project Report

L Street Project – Todd Kline reported that the L Street project was moving along well and crews are now at Lee Street. There have been some unforeseen existing utilities discovered which there was no mapping for. Crews are working with the contractor on the routing. Final Completion on the waterlines is expected to be in the fall of 2019, with the entire project duration expected to be one year.

Magnolia Park Project – Mr. Kline advised that the City is working with the engineer on the final storm drain design for the bid package, which should be ready by late spring 2019. JWSC's final design has been submitted.

SPLOST North Mainland Project – Mr. Burroughs advised that Thomas & Hutton expedited the engineering work and this project was placed for bid on Friday, May 10th. Bids are due back in 30 days with the contract award soon thereafter. This includes the structural lining for the RCP pipe and the manhole lining for the indicated sections. Mr. Burroughs noted that 6,000 feet of the 14,000 feet are to be lined, which based on the findings of the TV work done in the lines is less than the original estimate. The cost of lining is an estimated \$250 to \$300 per foot for this size of pipe.

SPLOST Pump Station 4003 – Mr. Burroughs advised that there were some issues with the incoming gravity line being lower than anticipated requiring adjustments to be made to that line. Due to this being a 42" line, it is coming in lower than desired, and may affect the chances of maintaining the existing lift

station. This gravity line will be reduced to match the flow lines and inverts on the gravity instead of where it currently matches crowns so there will be adequate flow through the lines. Staff is looking at a couple of options for the wet well and lift station, with hopes of bringing advice and cost estimates to the next Facilities meeting regarding the options reviewed and recommended.

Pump Station 3114 – Mr. Burroughs informed the committee that all of the pumps and panels have arrived along with all necessary supplies for the job. Slabs for the panels are to be poured at the end of the week, and construction of covers to protect the panels has started. This station should be running on new pumps by the end of May 2019. This should add about 300 additional REU's to this station without doing any work to the forcemain.

Whitlock Avenue Sewer Repair – Mr. Burroughs stated that all of the sewer repair work is complete on Whitlock Avenue, service is in place and paving is done. The line has been camera'd with JWSC staff onsite at the time to witness the flow. There were a total of 4 sinkholes on this line, 2 that were fairly substantial and 2 smaller ones. All 4 have been addressed.

Academy Creek Oxygen Project – Mr. Burroughs commented that this project had been on hold for a short while waiting on some issues with the tank, however new tanks are now in place. The new manifolds and LELs are due to be delivered on next Tuesday and should be installed within a week or two by Matheson. Staff is doing work on the valves. This project is expected to be complete by early June. The new tanks and system will reduce the amount of oxygen used at Academy Creek.

Ridgewood Water Production Facility – Mr. Kline stated that the proposal was received back from the original engineer of record and staff has reviewed it. He noted that the original proposal had an extended period of time in it, which was reduced to reflect what was seen in the construction of the Hampton Water Production Facility which is similar and had the same engineer of record. Mr. Kline also commented that staff would like to use the same engineer of record and that the original plans do need updating in the design. Staff will come back to the committee with recommendations on this project.


Sea Palms Water & Sewer Rehabilitation and Upgrade – Mr. Burroughs stated that the County does have the approval of the Intergovernmental Agreement for this project funding on their agenda for this week. The TV'ing should be done within the week, and staff already has a list of the pipes with grade "4" and "5" immediate needs in the area. Smoke Testing has been conducted and is currently being conducted in the Sea Palms Area. Regarding the water system, Mr. Burroughs noted that the 8 inch crossing from the west side of Frederica across to tie in at Colonial. This tie in has not been made yet due to a 6 inch transite line failure in Frederica which has since been repaired. This line was not identified in the original model, and staff will update the model to include the found 6 inch line to see what it does to the model prior to digging and working in the area.

Purchase/Lease "Smart Ball" for Critical Force Main Evaluation – Mr. Burroughs remarked that there are older cast iron force mains that staff would like to have investigated by a technology called "Smart Ball." This technology uses the flow of the pipe to suspend a ball that floats down the line and via a sonar type of perspective of what the inside of the line looks like. Staff will meet with the vendor to gather more information and pricing to provide to the committee. Mr. Burroughs commented that he has previously used this method and it is effective as long as there is enough water to keep the ball suspended the entire time.

Chairman Elliott commented that he went to the County Town Hall Meeting and spoke to Pam T. after the meeting about necessary County Ordinance revisions. Mr. Burroughs responded that staff is in the process of working on items which may require ordinance changes. Chairman Elliott also provided that staff needs to be looking at the supply chain, and added that especially with the tariffs to be imposed on China staff needs to understand where the manufacturers are getting their materials from to create the products used by JWSC. Mr. Burroughs remarked that with the upcoming GEFA project, there is a requirement to have a certain percentage of American iron and steel pipe. With those tariffs it may become that JWSC will use more of the American iron and steel pipe due to the effects of the tariffs on prices.


Commissioner Copeland asked if there is a "Lock-out Tag-out Program" and Mr. Burroughs responded that JWSC does have an informal program which does need to be more formalized and updated, specifically at the plants. After this discussion, Commissioner Elliott commented that the "Lock-out Tag-out" and log-keeping should be added to the drafted job descriptions for the superintendents.

There being no further committee business, Chairman Turnipseed adjourned the meeting at 11:14 a.m.



G. Ben Turnipseed, Chairman

Attest:



Janice Meredith,
Executive Commission Administrator



Brunswick-Glynn County Joint Water and Sewer Commission

Acceptance as Public Infrastructure

To: Brunswick-Glynn Joint Water & Sewer Commission – Facilities Committee
From: Todd Kline, P.E. (Planning & Construction, Senior Engineer)
Date: May 15, 2019
Re: Acceptance as Public Infrastructure

Background

The Owner of Record has submitted an Application for Dedication of Water/Wastewater Systems for the following project(s):

1. **Harrington Lane Sewer Extension:** Developed by Tommy Stewart, sewer was extended from 143 Harrington Lane to 151 Harrington Lane on St. Simons Island.

Staff Report

In providing required documentation, the Owner of record recognizes and accepts responsibility for correcting any and all system defects that may occur or be found during the operation of the system for a period of two (2) years from the date of acceptance.

The water and sewer systems have been constructed in accordance with applicable standards and in accordance with the JWSC Development Procedures; the work has been deemed compliant by JWSC operational superintendents and the project inspector; and, Record Drawings have fully executed.

Project	Letter of Intent	Record Drawings	Application for Dedication		Fair Value of Infrastructure		Easement ¹
			Water	Wastewater	Water	Wastewater	
Harrington Lane Sewer Extension	NA	04-16-2019	NA	X	NA	123 Linear Feet \$11,180	NA

¹ Where applicable, easement documents along with the required plats and legal descriptions have been prepared, executed, submitted and approved as to form by the BGJWSC Attorney.

Recommended Action

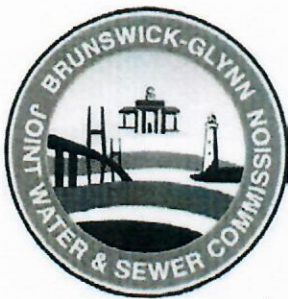
In as much as all requirements of the BGJWSC Development Procedures have been met and all related documents have been submitted and executed, staff recommends acceptance by the Commission of the Harrington Lane Sewer Extension as public infrastructure for ownership, operation and maintenance.

Recommended Motion

I make a motion that the Brunswick Glynn County Joint Water & Sewer Commission Facilities Committee recommend the Commission accept the Harrington Lane Sewer Extension as public infrastructure for ownership, operation and maintenance.

Attachments

- 1) Application for Dedication – *Requires BGJWSC Commission Signature*
- 2) Record Drawing for Reference



Brunswick-Glynn County
Joint Water & Sewer Commission
1703 Gloucester Street
Brunswick, GA. 31520
(912) 261-7120 Office (912) 261-7178 Fax

Application for Dedication of Water/Wastewater Systems

Part A: Statement of Intention

Having completed the installation of the water/wastewater system for the property tract or subdivision heretofore known as Harrington Lane Sewer Extension; the current Project Name

Owner(s) of the system, being Tommy Stewart, located Developer/Owner name

at Harrington Lane is desirous of dedicating the constructed Address of Legal Service

utility system(s) for ownership, operation and maintenance to the appropriate public entity licensed and permitted to operate such system(s) within this jurisdictional area. This Application and requested information is being submitted with this intention.

Part B: Recognition and Acceptance of Warranties

The Owner/Developer of this water/wastewater system does hereby recognize and accept the responsibility for correcting any and all system defects that may occur or be found during the operation of the system by the JWSC for a period of two (2) years from the written date of acceptance by the governmental body to which the system is dedicated. This warranty covers materials and workmanship items, as well as those components of the infrastructure damaged by other utilities and/or contractors who may cause damage to the water/wastewater system as herein accepted, excepting such defects caused or resulting from the sole negligence of the JWSC.

Part C: Confirmation of Compliance of Water/Wastewater Documentation

The Owner/Developer of this water/wastewater system does hereby warrant that the Record Drawings and all appropriate utility easements and/or deeds have been provided to the JWSC.

Part D: Fair Value (Cost Basis) of Dedicated System (To be completed by Engineer)

The Fair Value (Cost Basis) of the installed water system, which is approximately _____ linear feet as constructed, is estimated to be \$ _____

The Fair Value (Cost Basis) of the installed sanitary sewer system, which is approximately 123 linear feet, is estimated to be \$ 11 180

The Fair Value (Cost Basis) of the installed wastewater lift station, which design capacity is _____ gallons per minute @ _____ feet Total Dynamic Head, is estimated to be \$ _____

The Fair Value (Cost Basis) of the installed potable water well, which design capacity is _____ gallons per minute @ _____ feet Total Dynamic Head, is estimated to be \$ _____

Engineer's Certification

The information cited in Part "D" of this application is based on my professional evaluation of the costs of materials and installation of the water/wastewater system(s) as constructed in accordance with the approved standards and specifications for this project; and I do hereby certify, to the best of my knowledge and belief, that these amounts as provided are an accurate representation of this systems Fair Value on a Cost Basis as of the date of this Application.

Engineer: Johnathan Roberts

Georgia P.E. Registration # _____

(SEAL)



Part E: Owner/Developer Certification

I/We, Thomas Steward, do hereby certify that all application information
Owner/Developer

herein provided on the aforementioned water/wastewater development project is true and accurate to the best of my/our knowledge and belief.

IN WITNESS WHEREOF, the hand and seal of the Owner/Developer has hereunto been set this 4/17 day of 2019.

[INSERT NAME OF GRANTOR]

By: _____

Its: _____

ATTEST:

By: _____

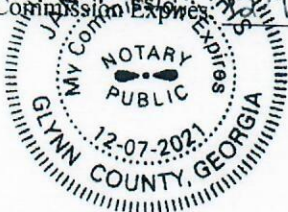
Its: _____

(CORPORATE SEAL)

Amanda Lentry
Unofficial Witness

Signed, sealed and delivered on this 17 day of April, 2019,
and in the presence of:

[Signature]
NOTARY PUBLIC
My Commission Expires 12-21



ACCEPTED BY BRUNSWICK GLYNN JOINT WATER & SEWER COMMISSION

Date Accepted (Commission Meeting):	
Printed Name of Chairman:	
Signature of Chairman:	Date Signed (mm/dd/yyyy):



- NOTES:**
- HORIZONTAL DATUM IS BASED UPON THE GEORGIA STATE PLANE, EAST ZONE NAD83, COORDINATE SYSTEM AND WAS OBTAINED USING RTK-GPS TECHNOLOGY USING A VRS NETWORK.
 - THE VERTICAL DATUM FOR THIS SURVEY IS BASED ON NAVD88 AND WAS ESTABLISHED USING RTK GPS WITH A VRS NETWORK (eGPS SOLUTIONS).
 - LOCATIONS TAKEN FROM CONTRACTOR MARKUPS AND FIELD LOCATIONS OF ABOVE GROUND READABLY VISIBLE STRUCTURES.
 - LAND OWNERSHIP INFORMATION OBTAINED FROM THE GLYNN COUNTY GIS AT WWW.GLYNNCOUNTY.ORG.
 - FIELD EQUIPMENT USED FOR THIS SURVEY: GEOMAX ZOOM90
 - THIS SURVEY AND ALL SUBSEQUENT REVISIONS ARE BASED SOLELY ON FIELD WORK THAT WAS COMPLETED ON 7/6/2018 (UNLESS OTHERWISE NOTED). SHUPE SURVEYING COMPANY, P.C. IS NOT RESPONSIBLE FOR ANY CHANGES TO SITE CONDITIONS AFTER THIS DATE.
 - CONTRACTOR: UNDERGROUND EXCAVATING, INC.
P.O. BOX 16
PATTERSON, GEORGIA 31557
(912)-288-6808
 - DEVELOPER: TOMMY STEWART
P.O. BOX 20387
ST. SIMONS ISLAND, GA 31522
(912)-399-1800

STRUCTURE COORDINATES			
GEORGIA COORDINATE SYSTEM, EAST ZONE - NAD 83			
STRUCTURE	NORTHING	EASTING	DESCRIPTION
#1	440441.6	905253.0	EXISTING SANITARY SEWER MANHOLE
#2	440331.5	905241.1	SANITARY SEWER SERVICE
#3	440322.2	905240.1	SANITARY SEWER SERVICE
#4	440319.0	905245.2	CLEAN-OUT

SURVEYOR'S STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF THE WATER AND/OR WASTEWATER RECORD DRAWINGS SHOWN HEREON HAVE BEEN PREPARED IN CONFORMANCE WITH THE JWSC RECORD DRAWING STANDARDS AND ARE AN ACCURATE REPRESENTATION OF THE FIELD CONDITIONS BASED UPON ABOVE GROUND VISIBLE EVIDENCE OF SYSTEM COMPONENTS, AND THE ENGINEERING, CONTRACTOR AND JWSC INFORMATION PROVIDED.

SURVEYOR'S NAME: C. TEEPLE HILL
SURVEYOR'S SIGNATURE: [Signature]
SURVEYOR'S GA REGISTERED LAND SURVEYOR NUMBER: GA. 3081
DATE SIGNED: 4/21/19

CONTRACTOR'S STATEMENT:

THE WATER AND/OR WASTEWATER PIPING SYSTEMS, AS SHOWN ON THESE RECORD DRAWINGS, HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE STANDARDS AND SPECIFICATIONS FOR THIS PROJECT AND IN CONSIDERATION OF THE TWO (2) YEAR WORKMANSHIP AND MATERIALS WARRANTY. ANY SIGNIFICANT DEVIATIONS FROM THE MATERIALS SPECIFIED OR WORKMANSHIP STANDARDS REQUIRED HAVE BEEN APPROVED BY THE ENGINEER AND THE JWSC PRIOR TO INSTALLATION. THIS INFORMATION HAS BEEN REVIEWED BY A PRINCIPAL OF THE COMPANY OR AN EXECUTIVE OFFICER, AS CITED BELOW, AND TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF THESE RECORD DRAWINGS ARE ACCURATE AND COMPLETE.

COMPANY NAME: Underground Excavating Inc.
PRINCIPAL/OFFICER'S NAME: James Echols
PRINCIPAL/OFFICER'S SIGNATURE: [Signature]
DATE SIGNED: 4/11/2019

JWSC'S STATEMENT:

THESE RECORD DRAWINGS HAVE BEEN PREPARED AND CONFIRMED BASED ON PERIODIC FIELD OBSERVATIONS DURING CONSTRUCTION, FIELD TESTING, CCTV AND PHYSICAL INSPECTIONS OF SYSTEM COMPONENTS BY JWSC STAFF. THIS INFORMATION HAS BEEN REVIEWED BY JWSC SUPERINTENDENTS AND CONSTRUCTION INSPECTION STAFF, AS CITED BELOW, AND TO THE BEST OF THEIR KNOWLEDGE AND BELIEF THESE RECORD DRAWINGS ARE ACCURATE AND COMPLETE IN ACCORDANCE WITH ADOPTED JWSC RECORD DRAWING STANDARDS AND SPECIFICATIONS.

WATER DISTRIBUTION SUPERINTENDENT'S NAME: n/a
WATER DISTRIBUTION SUPERINTENDENT'S SIGNATURE: n/a
DATE SIGNED: n/a
WASTEWATER COLLECTION SUPERINTENDENT'S NAME: Raymond Julianio
WASTEWATER COLLECTION SUPERINTENDENT'S SIGNATURE: [Signature]
DATE SIGNED: 4/16/2019
PROJECT INSPECTOR'S NAME: Keith Hendricks
PROJECT INSPECTOR'S NAME SIGNATURE: [Signature]
DATE SIGNED: 04/16/2019

ENGINEER'S STATEMENT:

THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON CONSTRUCTION, LOCATION, ELEVATION AND TESTING INFORMATION PROVIDED BY THE CONTRACTOR, SURVEYOR AND THE JWSC. THIS INFORMATION HAS BEEN REVIEWED BY THE ENGINEER OF RECORD, AS CITED BELOW, AND TO THE BEST OF HIS/HER KNOWLEDGE AND BELIEF THESE RECORD DRAWINGS ARE CONSISTENT WITH THE DESIGN INTENT OF THE APPROVED SITE DEVELOPMENT PLANS AND ANY APPROVED MODIFICATIONS OR CHANGES.

ENGINEER'S NAME: Johnathan Roberts
ENGINEER'S SIGNATURE: [Signature]
GA PROFESSIONAL ENGINEER REGISTRATION NUMBER: 034205
DATE SIGNED: 04/02/2019

VICINITY MAP (NOT TO SCALE)

THIS DOCUMENT AND ALL REPRODUCIBLE COPIES OF THIS DOCUMENT ARE THE PROPERTY OF SHUPE SURVEYING COMPANY, P.C. REPRODUCTION OF THIS DOCUMENT IS NOT PERMITTED WITHOUT WRITTEN CONSENT OF SHUPE SURVEYING COMPANY, P.C. UNLESS THIS DOCUMENT BECOMES A MATTER OF PUBLIC RECORD. ALTERATIONS TO THIS DOCUMENT ARE NOT PERMITTED.

LEGEND

- 12 STREET ADDRESS
- EXISTING SANITARY SEWER MANHOLE
- CLEAN-OUT (INSIDE SERVER VALV BOX)
- SEWER SERVICE
- ASPHALT
- S SANITARY SEWER LINE

RECORD DRAWING FOR:

PARCEL 'A' & PARCEL 'B'

BEING A PORTION OF LOT 12 HARRINGTON SUBDIVISION

25 G.M.D., ST. SIMONS ISLAND
GLYNN COUNTY, GEORGIA

PREPARED FOR:
TOMMY STEWART

SHUPE SURVEYING COMPANY, P.C.

3837 DARIEN HIGHWAY
BRUNSWICK, GA 31525
912-265-0562
CERTIFICATE OF AUTHORIZATION: LSP317

20' 0 10' 20' 40'

SCALE 1" = 20'

FILE 15040A

DRAWING 15040A.DWG

PLAT DATE 7/23/2018

DRAWN BY S.C.

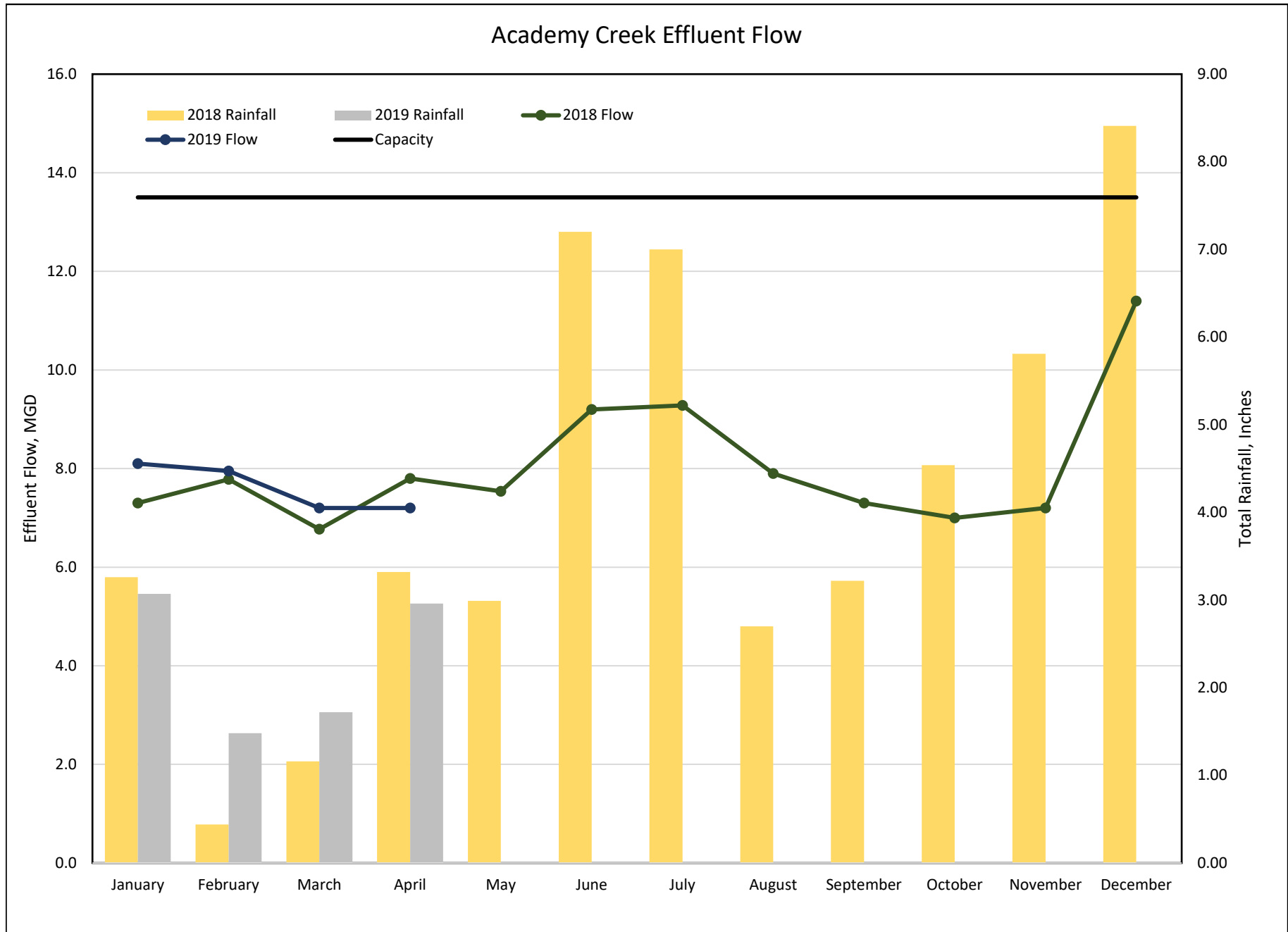
CREW CHIEF D.T.

SHEET 1 OF 1

RECORD DRAWING,
SANITARY SEWER SYSTEM (PUBLIC)

ACADEMY CREEK WWTP	FLOW (MGD)				Influent Concentrations					Effluent Concentrations								Removal Efficiency		Rainfall		Water Meter	Sludge	
	Month	INF	PINOVA	EFF	% Cap.	pH s.u.	BOD mg/L	TSS mg/L	NH3 mg/L	Phos mg/L	pH s.u.	D.O. mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	TRC mg/L	Fecal #/100 mL	Phos. mg/L	BOD %	TSS %	Maximum Inches	Total Inches	Monthly MGal	Tons to Landfill
January 2018	6.5	0.7	7.3	54%	7.3	173	175				6.5	7.1	7	12	3.9	0.03	9	3.4	95.95%	96.00%	1.62	3.26		
February 2018	6.9	0.7	7.8	58%	7.2	192	203				6.6	6.8	8	12	6.8	0.03	1	4.3	95.83%	96.06%	0.30	0.44		
March 2018	5.8	0.7	6.8	50%	7.4	198	190				6.6	6.6	11	11	5.8	0.04	1	3.7	94.44%	94.21%	0.51	1.16		
April 2018	6.7	0.6	7.8	58%	7.3	165	149				6.7	6.7	8	12	7.4	0.04	11	3.2	95.15%	94.63%	1.57	3.32		
May 2018	6.4	0.7	7.5	56%	7.3	158	161				6.6	6.2	6	10	8.3	0.04	13	3.2	96.20%	96.27%	0.73	2.99		
June 2018	8.9	1.0	9.2	68%	7.2	125	132	13.4	3.4		6.5	5.5	6	10	2.7	0.04	13	3.4	95.20%	95.45%	1.75	7.20		
July 2018	9.0	0.8	9.3	69%	7.5	126	140	16.0	5.9		6.7	5.8	6	11	4.2	0.02	13	3.5	95.24%	95.71%	2.60	7.00		
August 2018	7.6	0.7	7.9	59%	7.8	127	168	20.8	4.7		6.8	5.7	8	13	5.3	0.08	11	3.1	93.70%	95.24%	1.20	2.70	0.219	67.32
September 2018	6.3	0.8	7.3	54%	7.7	153	155	17.6	4.4		6.6	5.8	7	13	2.7	0.05	9	4.3	95.42%	95.48%	0.95	3.22	0.163	71.23
October 2018	6.1	0.5	7.0	52%	7.4	172	172	31.8	5.2		6.6	6.0	7	9	9.4	0.02	41	2.6	95.93%	95.93%	1.72	4.54	0.164	65.55
November 2018	6.1	0.7	7.2	53%	7.6	212	335	23.4	5.3		6.6	6.2	8	12	4.8	0.04	44	3.5	96.23%	97.61%	3.00	5.81	0.165	88.25
December 2018	10.0	0.8	11.4	84%	7.9	121	130	17.4	11.0		6.7	6.6	9	15	8.0	0.02	182	4.3	92.56%	93.08%	2.67	8.41	0.149	73.21
January 2019	7.4	0.7	8.1	60%	7.6	169	193	13.1	8.4		6.8	6.5	11	13	11.6	0.03	24	2.9	93.49%	94.30%	0.90	3.07	0.589	114.16
February 2019	6.8	0.7	8.0	59%	7.6	190	213	18.4	15.2		6.7	6.8	9	12	10.8	0.06	16	8.4	95.26%	95.77%	1.00	1.48	0.653	85.01
March 2019	6.2	0.7	7.2	53%	7.4	258	272	22.0	13.2		6.7	6.2	10	12	8.5	0.04	24	8.8	96.12%	96.32%	0.60	1.72	0.926	68.53
April 2019	6.3	0.7	7.2	53%	7.5	219	231	24.1	15.8		6.9	6.3	9	15	11.2	0.01	23	6.8	95.89%	96.10%	1.83	2.96	0.890	93.13
May 2019																								
June 2019																								
July 2019																								
August 2019																								
September 2019																								
October 2019																								
November 2019																								
December 2019																								
Average	7.1	0.7	7.9	59%	7.5	172.4	189	19.8	8.41		6.7	6.3	8.1	12.0	7.0	0.04	27	4.3	95.29%	93.64%	1.43	3.71	0.435	80.71
Max	10.0	1.0	11.4	84%	7.9	258.0	335	31.8	15.8		6.9	7.1	11.0	15.0	11.6	0.08	182	8.8	95.74%	95.52%	3.00	8.41	0.926	114.16
Min	5.8	0.5	6.8	50%	7.2	121.0	130	13.1	3.40		6.5	5.5	6.0	9.0	2.7	0.01	1	2.6	95.04%	93.08%	0.30	0.44	0.149	65.55
Permit Limits	N/A	N/A	13.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.0-9.0	2.0	20.0	30.0	17.4	0.14	200	Report	85.00%	85.00%				

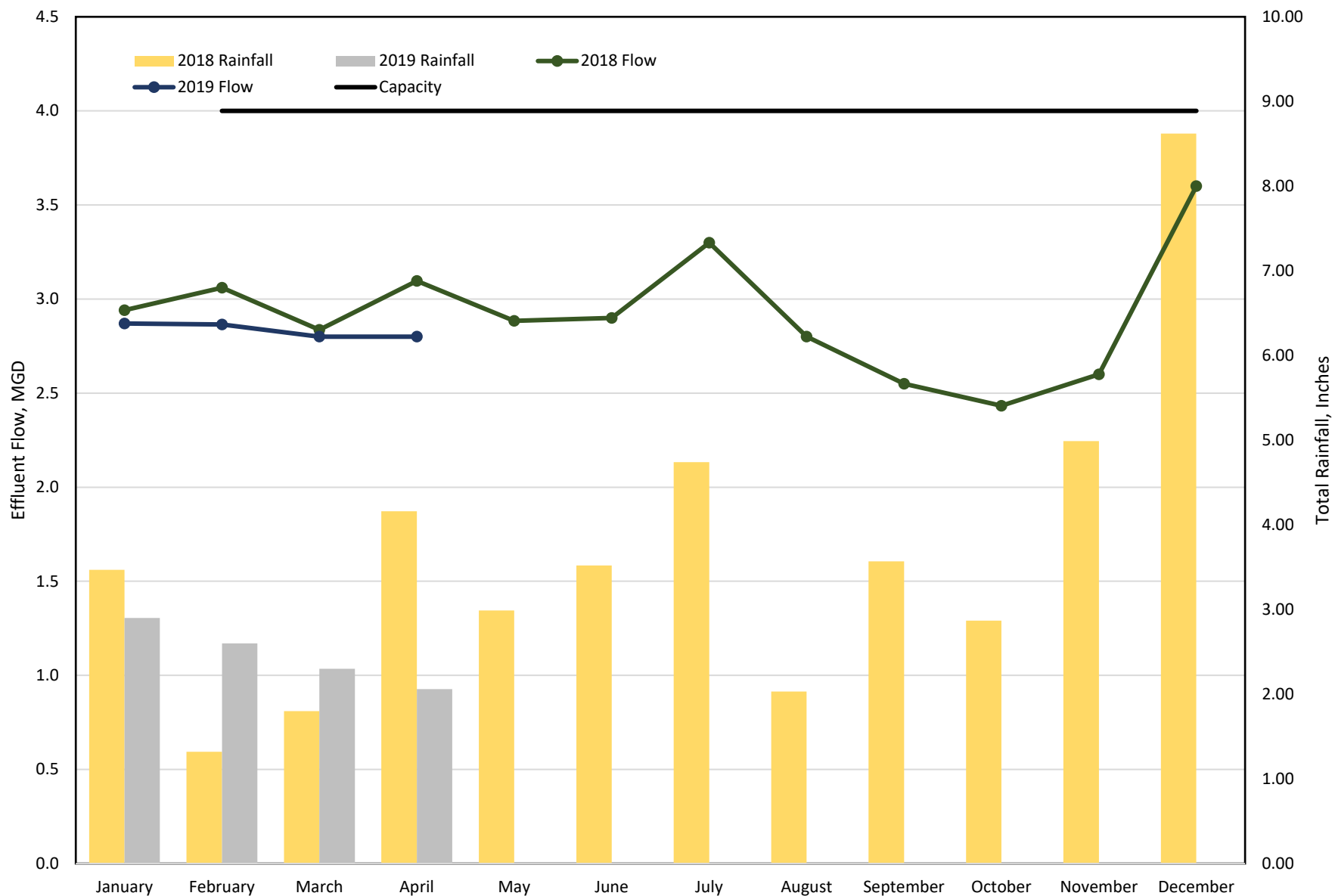
BOD - Biochemical Oxygen Demand
TSS - Total Suspended Solids
NH3 - Ammonia
Phos - Phosphorus
D.O. - Dissolved Oxygen
TRC - Total Residual Chlorine
Fecal - Fecal Coliform Bacteria



DUNBAR CREEK WWTP	FLOW (MGD)			Influent Concentrations					Effluent Concentrations							Removal Efficiency		Rainfall		Water Meter	Sludge
	INF	EFF	% Cap.	pH s.u.	BOD mg/L	TSS mg/L	NH3 mg/L	Phos mg/L	pH s.u.	D.O. mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Entero. #/100 mL	Phos. mg/L	BOD %	TSS %	Maximum Inches	Total Inches	Monthly M/Gal	Tons to Landfill
January 2018	3.4	2.9	74%	7.1	135	133			7.1	8.2	3.0	2.0	0.4	9	1.7	97.78%	98.50%	2.03	3.47		
February 2018	3.5	3.1	77%	7.0	149	129			7.0	7.3	6.0	3.0	1.6	48	1.6	95.97%	97.67%	0.79	1.32		
March 2018	3.3	2.8	71%	7.3	169	147			7.3	9.0	5.0	1.0	0.3	15	3.0	97.04%	99.32%	0.60	1.80		
April 2018	3.5	3.1	77%	7.2	162	163			7.6	8.4	2.0	1.0	0.1	6	2.7	98.77%	99.39%	1.18	4.16		
May 2018	3.3	2.9	72%	7.2	165	158			7.7	8.3	2.0	2.0	0.6	24	2.9	98.79%	98.73%	0.75	2.99		
June 2018	3.5	2.9	73%	7.1	161	139	22.0	3.20	7.7	7.7	2.1	1.0	1.3	17	2.8	98.70%	99.28%	1.30	3.52		
July 2018	3.6	3.3	83%	7.2	157	153	26.7	4.10	7.5	6.6	2.2	1.0	0.2	3	2.7	98.60%	99.35%	1.52	4.74		
August 2018	2.7	2.8	70%	7.5	139	114	28.6	3.45	7.7	7.5	1.0	1.0	0.9	8	3.1	99.28%	99.12%	0.68	2.03	0.070	22.86
September 2018	2.6	2.6	64%	7.5	134	137	21.9	3.95	7.7	7.9	2.0	1.0	0.6	30	2.9	98.51%	99.27%	0.87	3.57	0.030	22.06
October 2018	2.8	2.4	61%	7.4	131	123	20.9	3.25	7.8	7.7	2.0	2.5	0.4	29	2.3	98.47%	97.99%	1.27	2.87	0.033	18.36
November 2018	3.6	2.6	65%	7.5	143	131	20.6	3.85	7.8	8.2	1.0	3.0	0.8	8	3.8	99.30%	97.71%	2.79	4.99	0.041	21.84
December 2018	4.4	3.6	90%	7.1	98	116	14.5	2.35	7.7	8.8	2.0	2.3	0.9	46	1.4	97.96%	98.02%	2.05	8.62	0.058	17.20
January 2019	3.8	2.9	72%	7.3	132	142	16.3	2.85	7.6	8.9	2.0	2.0	0.7	22	2.2	98.48%	98.59%	1.50	2.90	0.044	19.62
February 2019	3.5	2.9	72%	7.5	148	161	20.9	2.65	7.5	8.7	2.0	1.8	0.5	11	2.0	98.65%	98.86%	1.00	2.60	0.015	7.41
March 2019	3.2	2.8	70%	7.3	192	195	23.5	3.40	7.5	8.4	1.0	1.8	0.5	5	2.3	99.48%	99.08%	0.60	2.30	0.035	18.11
April 2019	3.5	2.8	70%	7.2	205	230	23.3	3.90	7.5	7.6	2.0	2.3	0.9	5	2.4	99.02%	99.00%	0.58	2.06	0.037	26.76
May 2019																					
June 2019																					
July 2019																					
August 2019																					
September 2019																					
October 2019																					
November 2019																					
December 2019																					
Average	3.4	2.9	72%	7.3	151.3	148.2	21.7	3.36	7.5	8.1	2.3	1.8	0.7	18	2.5	95.02%	98.79%	1.2	3.4	0.040	19.36
Max	4.4	3.6	90%	7.5	205.0	230.0	28.6	4.10	7.8	9.0	6.0	3.0	1.6	48	3.8	96.20%	98.70%	2.8	8.6	0.070	26.76
Min	2.6	2.4	61%	7.0	98.0	114.0	14.5	2.35	7.0	6.6	1.0	1.0	0.1	3	1.4	92.86%	99.12%	0.6	1.3	0.015	7.41
Permit Limits	N/A	4.0	N/A	N/A	N/A	N/A	N/A	N/A	6.0-9.0	6.0	5.0	20.0	2.0	35	Report	85.00%	85.00%				

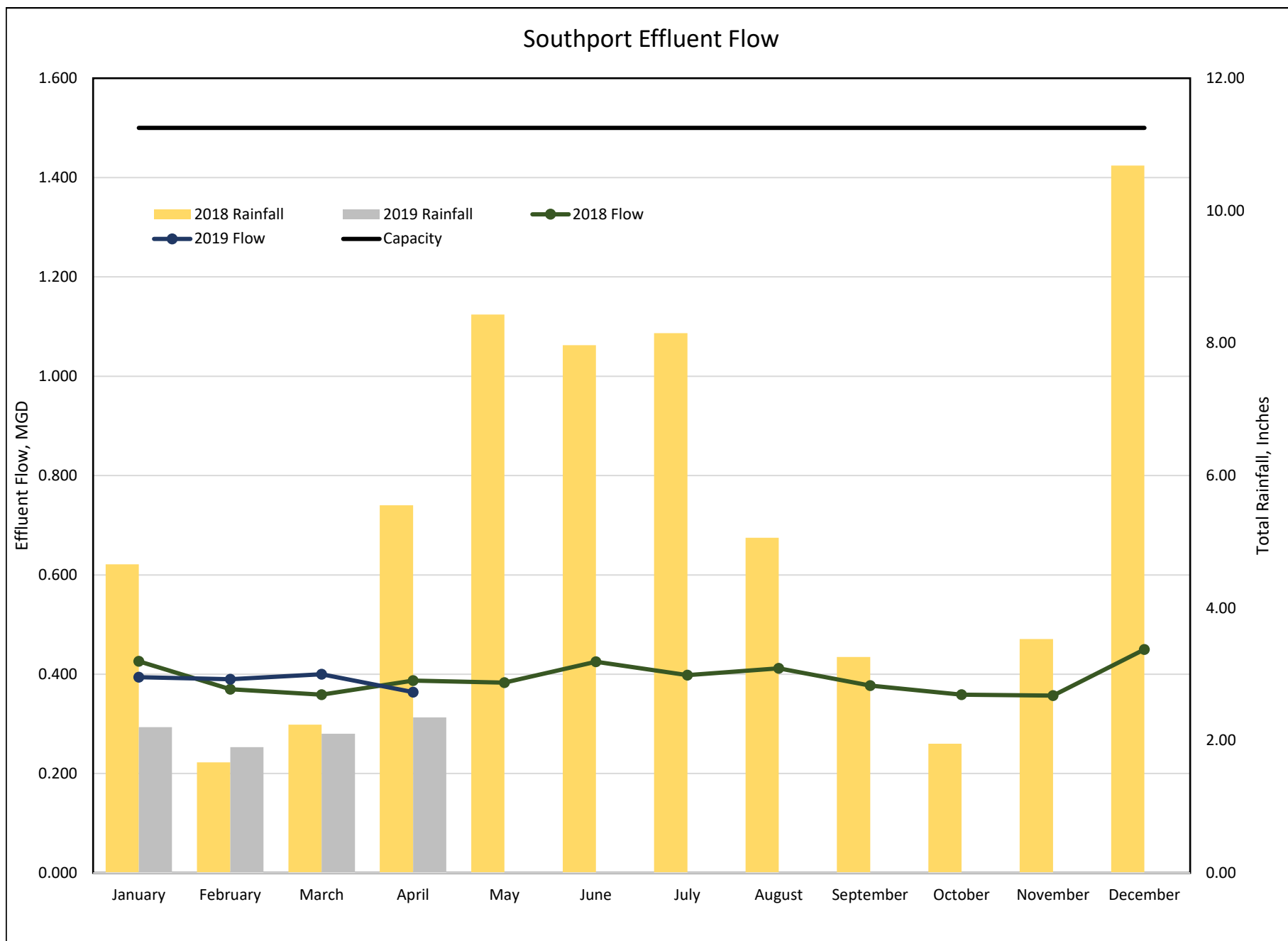
BOD - Biochemical Oxygen Demand
TSS - Total Suspended Solids
NH3 - Ammonia
Phos - Phosphorus
D.O. - Dissolved Oxygen
TRC - Total Residual Chlorine
Entero. - Enterococci Bacteria

Dunbar Creek Effluent Flow



SOUTHPORT WWTP	FLOW (MGD)			Influent Concentrations					Effluent Concentrations							Removal Efficiency		Rainfall		Water Meter Monthly	Sludge Tons to Landfill
	INF	EFF	% Cap.	pH s.u.	BOD mg/L	TSS mg/L	NH3 mg/L	Phos mg/L	pH s.u.	D.O. mg/L	BOD mg/L	TSS mg/L	NH3 mg/L	Fecal #/100 mL	Phos. mg/L	BOD %	TSS %	Maximum Inches	Total Inches	M/Gal	
Month																					
January 2018	0.446	0.426	28%	6.8	121	131			6.8	8.5	4.1	8.5	5.3	12	0.3	96.61%	93.51%	2.51	4.66		
February 2018	0.376	0.370	25%	6.9	143	129			7.1	8.2	6.0	8.0	6.0	6	1.1	95.80%	93.80%	0.86	1.67		
March 2018	0.363	0.359	24%	7.2	157	174			7.2	8.7	4.0	4.0	0.1	15	0.4	97.45%	97.70%	0.96	2.24		
April 2018	0.382	0.387	26%	6.8	138	114			6.8	8.9	3.3	4.9	0.1	65	0.6	97.61%	95.70%	1.51	5.55		
May 2018	0.384	0.383	26%	6.8	120	103			7.3	8.0	3.9	3.2	0.6	9	0.7	96.75%	96.89%	2.14	8.43		
June 2018	0.399	0.425	28%	7.0	121	109	23.0	4.4	7.0	7.0	4.0	3.0	0.5	9	0.4	96.69%	97.25%	2.61	7.97		
July 2018	0.382	0.398	27%	6.8	132	119	25.9	3.2	7.3	7.3	4.0	2.4	0.1	3	0.6	96.97%	97.98%	2.65	8.15		
August 2018	0.393	0.412	27%	6.6	128	138	31.1	5.0	6.8	8.0	4.4	4.5	0.7	8	0.3	96.56%	96.74%	1.36	5.06	0.009	3.57
September 2018	0.353	0.377	25%	6.6	142	131	26.6	3.8	7.2	8.0	4.8	5.2	0.6	6	0.7	96.65%	96.03%	1.18	3.26	0.006	9.06
October 2018	0.354	0.359	24%	6.7	143	124	25.6	4.1	7.5	8.8	5.0	5.0	0.3	10	1.5	96.50%	95.97%	0.88	1.95	0.005	7.52
November 2018	0.356	0.357	24%	7.0	166	149	35.1	4.5	7.9	9.0	4.0	7.0	1.4	3	1.1	97.59%	95.30%	1.64	3.53	0.004	2.16
December 2018	0.384	0.450	30%	7.0	115	94	25.0	1.6	7.5	8.6	3.0	3.0	0.7	6	0.4	97.39%	96.81%	3.48	10.68	0.004	4.64
January 2019	0.376	0.394	26%	6.9	128	376	23.3	3.7	7.3	9.0	3.0	3.0	0.6	6	0.1	97.65%	99.20%	1.00	2.20	0.006	3.37
February 2019	0.377	0.390	26%	7.5	111	93	29.8	1.20	7.5	8.9	3.0	4.0	0.5	8	0.5	97.31%	95.70%	0.06	1.90	0.007	6.79
March 2019	0.358	0.400	27%	6.9	111	109	31.7	3.90	7.2	8.9	4.0	4.0	0.5	6	0.1	96.40%	96.33%	0.50	2.10	0.008	6.50
April 2019	0.359	0.364	24%	6.80	113	78	30.8	3.95	7.7	8.3	6.0	2.0	0.8	4	1.0	94.69%	97.44%	1.12	2.35	0.008	5.35
May 2019																					
June 2019																					
July 2019																					
August 2019																					
September 2019																					
October 2019																					
November 2019																					
December 2019																					
Average	0.378	0.391	26%	6.9	130.5	135.7	28.0	3.57	7.3	8.4	4.2	4.5	1.2	11	0.6	94.44%	96.70%	1.5	4.5	0.006	5.44
Max	0.446	0.450	30%	7.5	166.0	375.7	35.1	5.00	7.9	9.0	6.0	8.5	6.0	65	1.5	95.25%	97.74%	3.5	10.7	0.009	9.06
Min	0.353	0.357	24%	6.6	111.0	78.0	23.0	1.20	6.8	7.0	3.0	2.0	0.1	3	0.1	93.87%	97.44%	0.1	1.7	0.004	2.16
Permit Limits	N/A	1.500	N/A	N/A	N/A	N/A	N/A	N/A	6.0-9.0	5.0	30.0	30.0	13.0	200	Report	85.00%	85.00%				

BOD - Biochemical Oxygen Demand
TSS - Total Suspended Solids
NH3 - Ammonia
Phos - Phosphorus
D.O. - Dissolved Oxygen
TRC - Total Residual Chlorine
Fecal - Fecal Coliform Bacteria

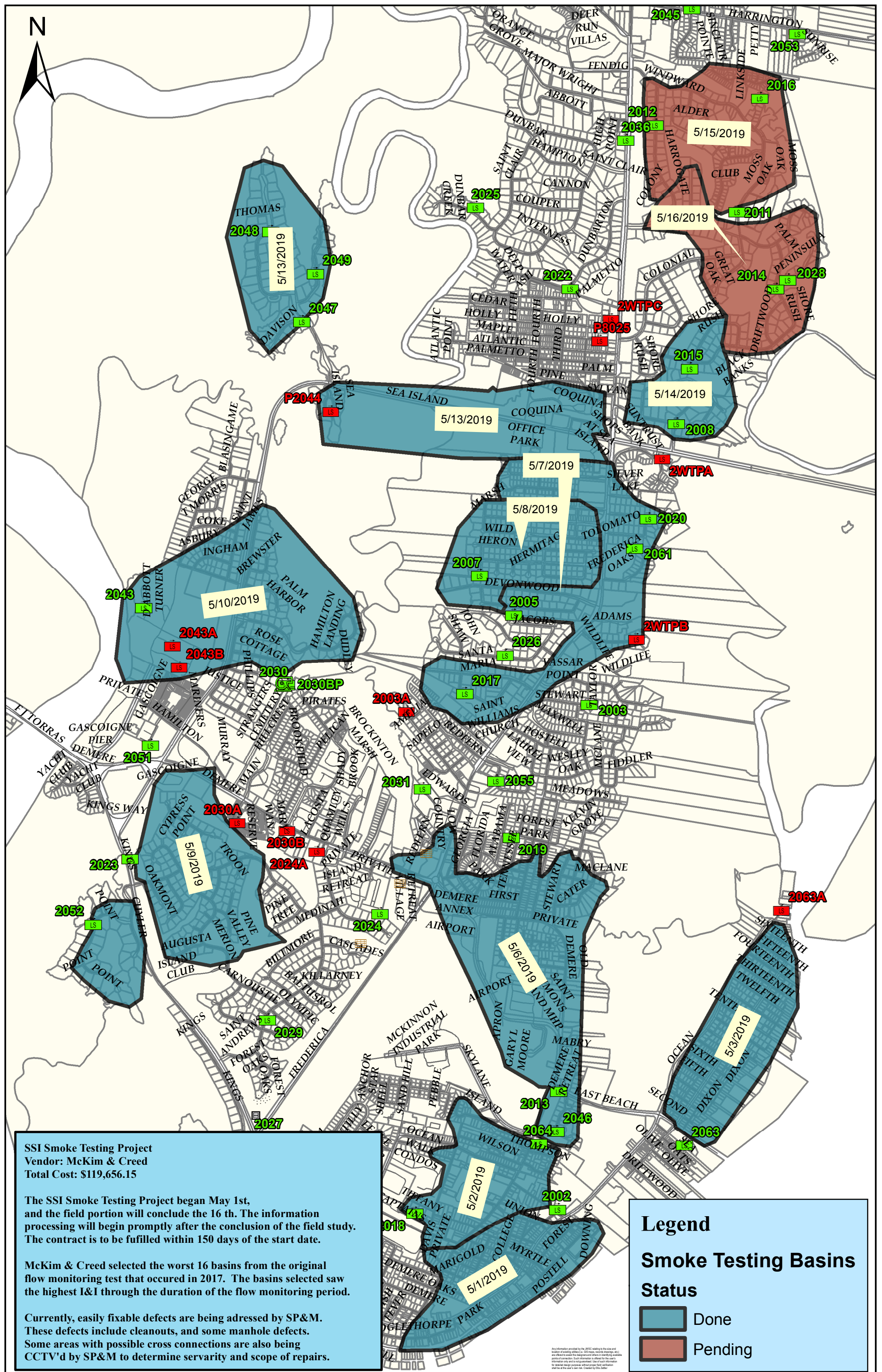


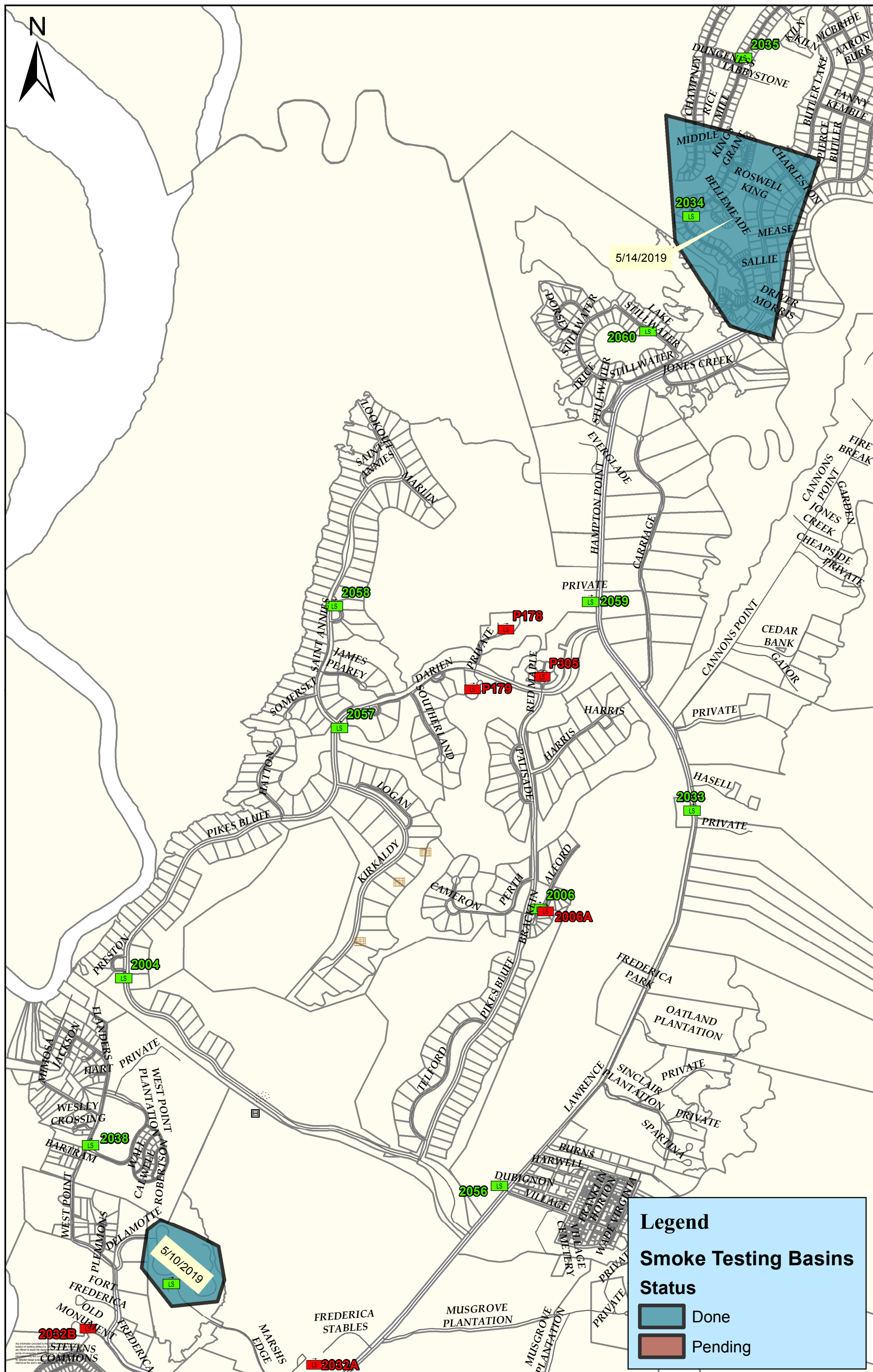
							BUDGET VS. EXPENDITURES																	
							BOC APPROVED FUNDING & SOURCE(1)				COMMITTED			EXPENDITURES				BALANCE		PROJECT STATUS				
Proj #	Project Name	Original Project Estimate	Proj Mgr.	Concept Design	Detail Design	Construction	R&R Reserve	CIF Reserve	SPLOST 2016	Total Approved Funds	Purchase Orders Issued	BOC Approved Change Orders	Total PO+CO	Expenditures Paid to PO's	Remaining Encumbrances	Expenditures Misc.	Total Expenditures	Uncommitted \$\$\$ (App Fund - Exp)	% Approved Budget Available	Current Phase Completion	Next Phase Length of Time	Total Project Anticipated Completion	Status	
232	SR-99 Water Main Extension	2,200,000	T. Kline	EMC	RGA / EMC	Seaboard		2,200,000		2,200,000	1,263,167	287,693	1,550,860	1,478,971	177,373	282,572	1,938,916	261,084	11.87%	TBD	TBD	TBD	Reviewed Ph.1 rev. w/ Seaboard. Easement docs to Seaboard for execution. Change Order necessary to complete Ph.1. Retainage reduced to 10%. JWSC potholing existing utilities for onsite GDOT mtg to move forward.	
417	Ridgewood Water Production Facility	1,000,000	T. Kline	JWSC	RGA	TBD	1,000,000			1,000,000	0	0	0	0	0	65,943	65,943	934,057	93.41%	TBD	TBD	TBD	Pricing received for EOR engineering services; under JWSC review.	
501	Alder Circle	300,000	T. Kline	JWSC	EMC	TBD	35,300		178,599	213,899	42,296	14,550	56,846	42,986	0	2,560	45,546	168,353	78.71%	TBD	TBD	TBD	SPLOST V funded. Reallocated to other Sea Palms East water improvements. WM crossing @ Frederica/Colonial - COMPLETE	
602	Holly Street	650,000	T. Kline	JWSC	HHNT	TBD	46,000		561,795	607,795	46,700	0	46,700	41,963	0	0	41,963	565,832	93.10%	TBD	TBD	TBD	Reallocating to collection system rehab; possibly Sea Palms East & West.	
702	North Mainland Sewer Improvements	#####	T. Kline	JWSC/ EMC	T&H	TBD		11,700,000	3,200,000	14,900,000	3,918,587	286,264	4,204,851	4,162,558	708,787	0	4,871,345	10,028,655	67.31%	Winter 2019	180 days	Fall 2020	Engr. contract awarded to Thomas & Hutton. Kick-off meeting held on 03/28/2019. CCTV data under review for rehab spec; bid by end of May. Glynn Co. pursuing Canal Rd. section R/W.	
703	PS 4003 Decommission and Gravity Sewer	3,300,000	T. Kline	JWSC	HGB	TBD			3,300,000	3,300,000	248,599	0	248,599	5,543	243,057	3,589	252,189	3,047,811	92.36%	Winter 2019	120 days	Fall 2020	Engineering contract awarded to HGB. Kick-off meeting held on 02/19/19. Survey COMPLETE. Updating/reviewing wetwell options.	
704	Canal Road to Glynco 12" Watermain Loop	1,200,000	T. Kline	JWSC	JWSC	TBD		1,200,000		1,200,000	48,000	0	48,000	48,000	0	0	48,000	1,152,000	96.00%	TBD	TBD	TBD	Design at concept stage. Utilize surplus 12" C900 PVC material. Connect Glynco Pkwy. to Canal Rd. loop; JWSC engr. & const. Installation under Altamaha Canal complete.	
801	FEMA Hazard Mitigation-Academy Creek	3,188,000	A. Burroughs	Haggerty	TBD	TBD	3,188,000			3,188,000	33,908		33,908	28,083	0	78,665	106,748	3,081,252	96.65%	TBD	TBD	TBD	Final applications submitted. All state approvals have been received for transfer switch application. Awaiting FEMA decision.	
804	Magnolia Water Improvements	1,150,000	T. Kline	JWSC	City of BWK / EMC	TBD	1,150,000			1,150,000	117,050	0	117,050	28,071	88,979	0	117,050	1,032,950	89.82%	Winter 2019	270 days	Winter 2019	City Project/contract. Bid alternate for new 12" WM along Habersham. Final revisions provided to EOR. Wetland impact permitting in progress. Tentative advertising set for mid-spring.	
805	L Street Water Improvements	650,000	T. Kline	JWSC	City of BWK / EMC	Georgia Asphalt Producers	650,000			650,000	751,780	0	751,780	29,706	743,124	0	772,830	-122,830	-18.90%	Winter 2019	180 days	Fall 2019	Construction in process. Bid adjusting change order #1 review in process.	
806	Academy Creek Oxygen System Rehab	650,000	A. Burroughs	HGB	HGB	TBD	1,040,000			1,040,000	992,360	15,865	1,008,225	214,124	784,562	0	998,686	41,314	3.97%	120 days	N/A	120 days	Tank/manifold to be installed 5/9 and 5/10. LELs to be installed later in the month.	
807	SSI Phase II Smoke & Dye Testing	150,000	E. Zettler	TBD	TBD	McKim & Creed	150,000			150,000	119,656	0	119,656	0	119,656	0	119,656	30,344	20.23%	Spring 2019	12 Days	Fall 2019	Smoke Testing currently underway. Field testing to conclude on May 16th.	
901	Lift Station 3114 Upgrades Phase 1	60,000	K. Young	JWSC	JWSC	JWSC		60,000		60,000	53,600	0	53,600	26,856	26,744	0	53,600	6,400	10.67%	TBD	TBD	Spring 2019	SP&M In-house Project. Coordinating GA Power service entrance modifications.	
903	SR 27 Resurfacing from Yellow Bluff Creek to US 25	77,000	T. Kline	JWSC/GDOT	GDOT	GDOT	77,000			77,000	0	0	0	0	0	0	0	77,000	100.00%	TBD	TBD	TBD	Notice of Award issued to Seaboard Construction Company on 03/22/2019.	
904	Lift Station 4021 Improvements	275,000	T. Kline	JWSC	JWSC	TBD		275,000		275,000	0	0	0	0	0	0	0	275,000	100.00%	TBD	TBD	Summer 2019	In-House Engineering in progress.	
905	Glynn County Village Storm Improvements Phase 1	60,000	T. Kline	JWSC	GWES/ GlynnCo	Hiers/Griffin Utility	60,000			60,000	60,000	0	60,000	0	60,000	0	60,000	0	0.00%	Winter 2019	60 days	Winter 2019	Glynn Co project. No additional JWSC assets anticipated to be affected. Project coming to a close.	
906	Water Pollution Rehab-Academy & Dunbar	#####	A. Burroughs								0	0	0	0	0	0	0	0	#DIV/0!	May 2019			Proposals received 4/30. Interviews 5/13 and 5/14. Recommendation to Facilities Committee 5/15.	
907	Sewer Expansion Study - Brunswick	60,000	A. Burroughs	JWSC	GWES	TBD	60,000			60,000	17,636	0	17,636	0	17,636	0	17,636	42,364	70.61%	June 2019	60	June 2019	Study progressing. Still on target for 60 day delivery	
TOTALS							7,456,300	15,435,000	7,240,394	30,131,694	7,713,339	604,372	8,317,711	6,106,861	2,969,918	433,329	9,510,108	20,621,586	68.44%					

	UNSOLICITED PROPOSALS		DESCRIPTION	Concept	Application	Preliminary Engineering	Comprehensive Agreement	Project		Capital Fees Generated	STATUS
	Sinclair S/D residential development (SSI)		121 Lot S/D; proposed improvements to PS2056 and force main.	Complete	Complete	Complete	Complete	*		*	Development still in planning review with Glynn County.
	Bergen Woods Apartments		Proposed 252 apartment development; PS4105 and force main improvements.	Complete	Complete	Complete	Complete	*		*	Waiting on offsite forcemain & PS improvement plans for approval.
	Frederica Township		Downstream upgrades to accommodate 200 additional lots; cooperative w/ Sinclair U.P.	Complete	Complete	Complete	Complete	*		*	Waiting on offsite forcemain & PS improvement plans for approval.
	Oak Grove/Carolina Partners		Force main improvements to serve proposed development on Oak Grove Island.	Complete	Complete	Complete	Under review	*		*	Pending BOC approval.
	Saddlebrook Subdivision / Wade Jurney Homes		Improve PS4105 sewer capacity for the addition of 41 new homes	Complete	Complete	In Progress		*		*	Awaiting draft PER.
	Hillpointe LLC Apts. (link to Proj 904)		Improve PS4056 & 4059 for proposed 240 unit apt. complex 3061 · Improve 4056 and 4059	Complete				*		*	
	Boomers Bakery (fmr. Pumpkin Patch) W& FM extension		Extend W&S from Friendly Exp #71 to 341; obtain easement	In discussions							

<u>BULL PEN (Proposed)</u>		
Glynn County Village Storm Improvements- Phase II	Opportunity project with Glynn County to replace/upgrade sections of W&S in common with areas of storm improvements.	
5-Year Plan List of Projects Currently Under Review	Pending JWSC BOC Approval	
JWSC 2020 SPLOST projects	Initial proposed list under Staff review.	

<u>COMPLETED</u>			
213	NM WTP NPDES Permit	418	Southport Water Production Facility
225	CMMS System Upgrade	419	Canal Rd to Old Jesup W/S Improvements
301	SCADA Upgrade Project	424	Low Pressure Sewer Design-Community Rd
304	SSI Village Area Water Improvements	425	Low Pressure Sewer Design-Epworth Acres
319	Urbana	503	Canal Crossing W/S Improvements
421	Mansfield	504	Canal Rd Pump Station
403	SCADA Upgrade	505	Lift Station 2032 and Forcemain
409	LS 2030 and FM Rehab	701	PS 4048 Force Main Improvements
413	Frederica/Atlantic Sewer & FM Rehab	702 (P1)	North Mainland Sewer Improvements
416	Hampton Water Production Facility	705	Hautala to Old Jesup Watermain Loop
		706	Dunbar Creek WWTP Project Evaluation
		707	Academy Creek WWTP Project Evaluation
		708	Academy Creek WWTP Odor Control
		709	Mainland Sewer Transmission Sys Cap
		710	LF 2002 Upgrades
		802	VT SCADA
		803	SSI Sanitary Sewer Flow Monitoring
		902	Friendly Express
		909	CCTV Pump Station 4105 Reroute







1129 Ocean Blvd has a storm water catch basin that has collapsed. The catch basin, located above the sewer line, is draining directly into the system. The issue runs down a series of 5 catch basins and 1 private catch basin to the Arnold St pump station. This has also caused a soil fissure on the neighboring property



SSI Smoke Testing: May 1 - May 15

Smoke testing began May 1 2019

- Basins Completed to Date: 2002, 2063, 2064, 2052, 2039, 2005, 2062, 2030, 2047, WPCP, 2034, 2008, 2023
- As to date the test has uncovered:
 - 2 Major Cross Connections
 - One Located along Ocean Blvd from Myrtle St to Arnold St
 - The other located on St Andrews Circle near the golf course into a tidal creek
 - Roughly 30 broken clean outs throughout the system
 - Most are damaged
 - Some were missing caps which are replaced when discovered
 - A few were intentionally “engineered” for drainage of properties
 - One pool over flow
 - No illicit connection but failed piping
 - 2 Completely broken laterals coming from houses
 - 4 to 6 ground fissures found.

Measures Taken thus far

- Readily reparable cleanouts, i.e. missing caps, are being replaced by Mckim & Creed Crews
- SP&M has already ordered the necessary materials to fix broken cleanouts, and are currently correcting issues.

Basins Ranks:

Basin	Ring & Cover Leak %	Broken Cleanouts	Large Defect	Rank
2023	High	2	Storm Cross Connection Drainage Creek Cross Connection	1
2002	High	21	Large Storm Cross Connection Small Ground Fissure	2
2063	Medium	11	Exposed Pipe	3
2047/2048/2049	High	10		4
2052	High	8		5
2005/2017 2020/2039/2WTP	Medium	6		6
2007	High	1		7
2046/2003	Low	5		8
2030	Low	2		9
2044/2WTP	Low	2	2WTP0670 Heavy Corrosion Possible grease dumping	10

The following pictures are from the 1129 Ocean Blvd Cross Connection







