



Brunswick-Glynn County Joint Water and Sewer Commission
1703 Gloucester Street, Brunswick GA 31520
Wednesday, January 15, 2020 at 3:00 PM
Commission Meeting Room

FACILITIES COMMITTEE MEETING AGENDA

COMMITTEE MEMBERS: **Chairman Ben Turnipseed**
 Commissioner Bob Duncan
 Commissioner Steve Copeland
 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 December 18, 2019 Facilities Committee Meeting (*subject to any necessary changes*)**
- 2. Unsolicited Proposal Application to Upgrade PS4044–Ambling Glynn One, LLC – T. Kline**
- 3. Unsolicited Proposal Application to Upgrade PS2038–West Point Plantation, LLC – T. Kline**
- 4. Sewer Easement Dedication–Wynnever Fitness – T. Kline**
- 5. Change Order Request #1 – North Mainland SPLOST CIPP Project – A. Burroughs**
- 6. MOU with County for East Beach/Demere Roundabout – A. Burroughs**

DISCUSSION

- 1. Asset Management Update – E. Zettler**
- 2. FEMA Hazard Mitigation Grant Program Go-Forth Letter – A. Burroughs**
- 3. WPCF Plant Flows Report – A. Burroughs**
- 4. Project Report – A. Burroughs**

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, January 15, 2020 at 3:00 PM

FACILITIES COMMITTEE MINUTES

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

ALSO PRESENT: **Donald Elliott, Commissioner**
 Todd Kline, Director of Engineering
 Ellis Zettler, Asset Management Manager

 Janice Meridith, Exec. Commission Administrator

MEDIA PRESENT: **Matthew Permar, The Islander**
 Taylor Cooper, The Brunswick News

Chairman Turnipseed called the meeting to order at 3:08 PM.

Chairman Turnipseed provided the invocation.

PUBLIC COMMENT PERIOD

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

APPROVAL

1. Minutes from Facilities Committee Meeting December 18, 2019

Commissioner Duncan made a motion seconded by Commissioner Copeland to approve the minutes from the Facilities Committee Meeting held on December 18, 2019. Motion carried 3-0-0.

2. Unsolicited Proposal Application to Upgrade PS4044-Ambling Glynn One, LLC – T. Kline
Mr. Kline presented the Unsolicited Proposal Application submitted by Ambling Glynn One, LLC to upgrade PS4044. Ambling Glynn One, LLC is a developer looking to build an apartment complex on the north side of Glynn Place Mall, which is within the Basin PS4044 and is currently designated as not having sufficient design capacity to support the development. The engineering team has met with Ambling Glynn One, and Ambling proposes to apply to their Capital Fees to upgrade PS4044. Mr. Kline commented that this pump station has been on the list for improvement condition wise and for capacity as well. This pump station does serve a large area, and this is a good opportunity to work with that

developer to fund and facilitate this. The pump station does sit on an easement at this time in between the roadway and the right of way; the easement is on the previous Payless property. JWSC has been approached several times to consider relocating PS4044, which is generally a tough thing to do, however this one is configured in a way that it is very possible to relocate this pump station to the corner, a common shared parcel which can be dedicated to JWSC and is in between the Payless store and the former bank building to the east. The existing wet well would be turned into a manhole and the station would be relocated to the east. Mr. Burroughs recalled the Unsolicited Proposal process for the Commissioners, and noted that this request is for the application of the Unsolicited Proposal where if approved the Proposer would then pay JWSC the required \$5,000 Unsolicited Proposal Fee and notice would be given that they need to start preparing the engineering report of which the \$5,000 fee goes toward JWSC's staff time and efforts to review the engineering report and proposal.

Commissioner Duncan made a motion seconded by Commissioner Copeland to move that the Brunswick Glynn County Joint Water & Sewer Commission Facilities Committee forward the application described above to the full Commission with a recommendation for approval. Motion carried 3-0-0.

3. Unsolicited Proposal Application to Upgrade PS2038-West Point Plantation, LLC – T. Kline

Mr. Kline presented the Unsolicited Proposal Application submitted by West Point Plantation, LLC to upgrade PS2038. The first phase is essentially built out, and the developer is currently looking at platting the second phase of about 28 lots, with the full build out of all phases being 295 lots. Currently the pump station that serves that site is in the green with sufficient capacity to serve the second phase of the development, but the full build out would certainly require an upgrade of PS2038 and possibly the force main, but this would be determined in the preliminary engineering phase while determining what the scope of the upgrades would be. The Chairman stated that information regarding current REU capacity and the existing REUs is needed before moving any further with this upgrade, because we do not want to put in large pumps that are not needed for 15 to 20 years. Mr. Kline provided that there is enough capacity in the "green" right now to serve and support the 28 or so lots for the second phase of the development, but certainly not for the full development of 295. Mr. Burroughs suggested that if this is approved, and we move forward with an agreement at a later date, those could be phased in and would not have to be done right now; the agreement could be set so that it is phased in. Commissioner Duncan then commented that would make it a bit different, and at this point he would be in support of approving this unsolicited proposal, in order for the proposer to provide an engineering study; but to the Chairman's point we have sufficient capacity we are not utilizing fully that represents challenges for operations of the equipment, and he added that he would not support it if the proposer wants to build out the full capacity because that would represent even more operational challenges that we would bear at potentially higher costs.

Commissioner Duncan made a motion seconded by Commissioner Copeland to move that the Brunswick Glynn County Joint Water & Sewer Commission Facilities Committee forward the application described above to the full Commission with a recommendation for approval.

It was noted that the developer would pay for the full engineering study of which JWSC staff would review. Mr. Burroughs provided that the developer would have an engineering study done for what upgrades it would take for the full build out from the water and sewer perspective. Chairman Turnipseed commented that to upgrade the pump station for full build out will probably affect some downstream pump stations which may have to be upgraded; and suggested that JWSC staff do a study and provide the Commission with some information before having the developer begin anything. Mr. Kline provided that PS2038 feeds to the recently upgraded PS2032; and PS2032 goes straight to the plant, however he agreed that the staff should evaluate the full chain all the way up to the treatment works in every case. Commissioner Duncan provided that the point he was making earlier was that JWSC needs to provide some direct guidance to the developer that if they came back with a full build out, it might not get

supported. He stated that he did not support a full build out at this stage because its operation is not beneficial for the utility to have such. He suggested guiding the developer to look at it as a staged process for which the developer would pay for a full build out, but in a staged manner so that it is beneficial operationally. Again it was noted that the pump station at this time could support phase one.

Motion failed 1-2-0. (Commissioner Duncan voted “for.” Chairman Turnipseed and Commissioner Copeland voted “against.”)

Chairman Turnipseed requested that the staff provide more information and present it at the next Facilities Committee meeting. Commissioner Elliott commented that within the agreement the capital fees cannot be called impact fees.

4. Sewer Easement Dedication-Wynnever Fitness – T. Kline

Mr. Kline advised that this was a simple easement dedication for a rather small easement, but is necessary to facilitate. He provided the Committee with a copy of the record drawing that showed the area of the business and the access easement location. This is needed to access the meter box. Chairman Turnipseed asked if this was a private pump station and Mr. Kline advised it is and Wynnever Fitness is the owner. The pump station is not within the easement, only the meter and the meter box are within the easement. The sewer lines in the ROW belong to JWSC and those on the property are private.

Commissioner Duncan made a motion seconded by Commissioner Copeland to move that the Brunswick Glynn County Joint Water & Sewer Commission Facilities Committee forward the dedication described above to the full Commission for acceptance. Motion carried 3-0-0.

5. Change Order Request #1 – North Mainland SPLOST CIPP Project – A. Burroughs

Mr. Burroughs advised that the North Mainland SPLOST Project along B & W Grade Road still has bypass pumping occurring. The original completion date for this Project was January 9, 2020, however due to issues the contractor has had with one of their subcontractors as well as having some difficulties getting a bypass plan approved by GDOT for bypassing Community Road, the contractor (IPR) needs to request a time extension. This change order is requesting to extend the contract time by 50 days for final completion by February 28. Substantial completion would be 30 days prior on January 29. This request does not involve any modification of contract prices, but only the time for completion. After continued discussion a motion was made.

Commissioner Duncan made a motion seconded by Commissioner Copeland to move that the Brunswick Glynn County Joint Water & Sewer Commission Facilities Committee forward the above described Change Order #1 for time extension to the full Commission with a recommendation for approval. Motion carried 3-0-0.

6. MOU with County for East Beach/Demere Roundabout – A. Burroughs

Mr. Burroughs requested that this item be deferred until the next meeting.

Commissioner Duncan made a motion seconded by Commissioner Copeland to defer this item until the next meeting. Motion carried 3-0-0.

DISCUSSION

1. Asset Management Update – E. Zettler

Mr. Zettler provided a discussion/presentation to the Committee regarding the Asset Management, and noted plans are to give a quarterly report on the status of the management of JWSC's assets. Mr. Zettler reported that the CCTV Program for the sanitary sewer lines is well underway and over the past year 14

basins were televised as well as over 128,000 ft. of lines; and the manhole rehab project has gone well with 26 of the planned 48 completed. Mr. Burroughs noted that the majority of the problems found are leaking manholes; a few lines that are cracked were prioritized as an emergency repair; and the clay lines, some of which are over 60 years old, were found to be in relatively good shape; and on the Altama Avenue and Sea Palms lining projects, the entire basins were not lined, but the specific assets that were televised and identified as in need of repair were. Mr. Zettler additionally reported on other projects such as working with the asset management and the work ordering systems for them to work conjointly; a project with Wayne Morgan of TRI-SSI developing a reliability basis authorization, logging all assets and entering them into the system, and coming up with a ranking system to identify and manage the PM's, OM's, etc. in order to transition into a more proactive stance versus a reactive one on all JWSC facilities; and asset identification at all treatment plants, lift stations, water distribution and water production. The goal is to decrease down-time, increase productivity, and increase preventive maintenance rather than reactive maintenance in all field operations and treatment plant operations through the identification of assets and educating of personnel using the system of work order programming.

2. FEMA Hazard Mitigation Grant Program Go-Forth Letter – A. Burroughs

Mr. Burroughs reported that previously a Go-Forth letter had been received approving the purchase of 22 transfer switches for installation at pump stations, and another letter has been received approving 67 more transfer switches and 5 portable generators, for a total of 89 transfer switches and 5 generators pre-approved so far. JWSC will purchase the items with money upfront and will be reimbursed 85% by FEMA and GEMA. More transfer switches and generators were requested, but they are being provided in partial batches.

3. WPCF Plant Flows Report – A. Burroughs

Mr. Burroughs provided the discussion on plant flows report for all three wastewater treatment plants, Academy Creek, Dunbar and Southport. There was a good amount of rain in the month of December which caused the flows to increase. An average of 10MGD per day reported flows for Academy Creek Plant. Dunbar Creek had higher flows as well, with Southport showing the greatest increase percentagewise out of the three plants. Percentages of BOD and TSS removals were reviewed. All the numbers and percentages reported for the three plants were indicative that they are all operating well within permit.

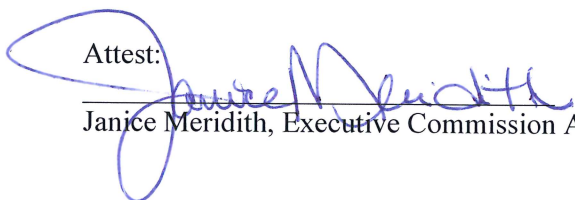
4. Project Report – A. Burroughs / T. Kline

Mr. Burroughs and Mr. Kline presented the project report to the Committee.

There being no further committee business, Chairman Turnipseed adjourned the meeting at 4:18 p.m.



G. Ben Turnipseed, Chairman

Attest:


Janice Meridith, Executive Commission Administrator



Brunswick-Glynn County Joint Water and Sewer Commission

Memo

To: Brunswick-Glynn Joint Water & Sewer Commission – **Facilities Committee**
From: Todd Kline, P.E., Director of Engineering
Date: 15 January 2020
Re: Unsolicited Proposal – **Application from Ambling Glynn One, LLC to upgrade JWSC PS4044**

Overview

- **Who:** Ambling Glynn One, LLC (applicant)
- **What:** Proposed 166 unit multi-family apartment building at 195 Scranton Connector
- **Why:** Project served by JWSC PS4044; currently designated as over design capacity.
- **Cost/Funding:** T.B.D./ funded by applicant

Staff Report

Ambling Glynn One, LLC (AGO) proposes to develop a 166 unit apartment complex on the northern side of the Glynn Place Mall property. The development parcel is served by JWSC pumpstation 4044, located on Scranton Connector and within an easement on the former Payless Shoes store parcel. Staff analysis shows PS4044 as operating over designed capacity; insufficient capacity to serve the proposed development. JWSC Operations has also identified the existing pumpstation as being in need of rehabilitation. There is currently no funded Capital Project to upgrade or rehabilitate this pumpstation. AGO wishes to utilize the JWSC Unsolicited Proposal tool to apply an equivalency of Capital Fees directly towards the upgrade of the JWSC collection system. This application initiates the conceptual review and confirms BOC interest in evaluating a public/private partnership. Approval of the application only commits the JWSC to the next step of reviewing a Preliminary Engineering Report (PER) for feasibility. If the PER is determined feasible and the BOC wishes to move forward, a Comprehensive Agreement would be formalized and executed between the applicant and the BOC. Otherwise, the efforts are discontinued.

Recommended Action

Utilizing the Unsolicited Proposal process to facilitate system improvements for new customer needs is an appropriate application of Capital Fees. As there is currently no funded project to improve the capacity or condition of PS4044, Staff recommends BOC approval of this Unsolicited Proposal application to move forward with evaluating the feasibility of the improvements proposed by AGO.

Recommended Motion

I move that the Brunswick Glynn County Joint Water & Sewer Commission **Facilities Committee** forward the application described above to the full Commission with a recommendation for approval.

Attachments:

- 1) Ambling PS4044 Unsolicited Proposal

LIFT STATION 4044
UNSOLICITED PROPOSAL

Glynn County, GA
Original Issue December 10, 2019

Prepared by:



3998 Inner Perimeter Road, Valdosta, GA 31602 229-253-0900 Office



Lift Station 4044
Unsolicited Proposal

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Lift Station 4044 Unsolicited Proposal

1.0 Project Description

Lift Station 4044 is an existing JWSC pump station located in the southeast corner of the intersection of Altama Connector and Scranton Connector. This pump station is part of the Academy Creek WPCP service area. The master plan does not contemplate any improvements to the 4044 lift station or the corresponding basin until 2031. The proposed improvements stated in the Master Plan include rehabilitation of existing gravity lines within the basin to reduce I&I.

Ambling Glynn One, LLC (“Developer”) is seeking approval for the development of a 166 unit multi-family apartment building at 195 Scranton Connector, Brunswick, Georgia (“the Development”). A rezoning application has been submitted and is currently under review for this property. Copies of the proposed site plan are attached to this proposal.

It is our understanding based on information provided by the JWSC that there is insufficient sewer capacity to serve the proposed development without additional improvements to the sewer infrastructure. This station was designed for a flow rate 641 GPM or 922 REU’s and the current population served by this station is 1586 REU’s. The station’s current deficit is 664 REU’s. The Development would add an additional 131 REU’s to the load for this station. We also understand the JWSC is in the process of looking into relocating the station. The developer proposes to fund and contract for the necessary improvements to the sewer infrastructure in order to provide for capacity for the Development. The Developer will work with JWSC to determine the upgrades and repairs necessary to provide sewer capacity for the Development following approval of this Unsolicited Proposal and submit a Comprehensive Final Agreement setting forth the improvements to be made.

2.0 Feasibility Statement

- A. Property Interest
 - a. The private entity does not anticipate acquiring any property interest in any sewage facilities owned by JWSC.

- B. Permits
 - a. Glynn County Infrastructure Only Permit, which will require JWSC approval.
 - b. EPD Permit
 - c. Mainland Planning Commission Site Plan approval of the Development and Glynn County Commission’s approval of the proposed zoning change.

C. Public Utilities

- a. It is not anticipated to conflict with any public utilities; however, all utilities in the area of any proposed improvements will be located and marked prior to any construction.

3.0 Schedule

Bidding and award for the improvements will be conducted per JWSC policy. The current project schedule forecasts construction to begin in October of 2020.

4.0 Financial Plan

The Developer proposes to pay costs up to the cost of the sewer connection tap fee required for the Development and other upgrades to LS 4044 as agreed to by the Developer and JWSC in a Comprehensive Final Agreement subject to repayment under the terms and conditions set forth in such Comprehensive Final Agreement. A more detailed financial plan will be provided following receipt of additional information from JWSC. The private entity intends to fund the improvements with private funding.

5.0 Business Case Statement

A business case statement will be provided following the determination of more detailed improvements required from JWSC. The JWSC will benefit by having necessary improvements constructed at the Developer's initial cost and expense.

6.0 Contacts

Civil Design Engineer
Clayton Milligan, PE
LEA, PC
3998 Inner Perimeter Road
Valdosta, GA 31602
(229) 253-0900
cmilligan@lea-pc.com

Developer
Kevin King
Ambling Glynn One, LLC
348 Enterprise Drive
Valdosta, Georgia 31601
(229) 560-0711
kking@ambling.com

7.0 Trade Secrets

Any trade secrets needing protection from any RFP are to be determined.



Brunswick-Glynn County Joint Water and Sewer Commission

Memo

To: Brunswick-Glynn Joint Water & Sewer Commission – **Facilities Committee**
From: Todd Kline, P.E., Director of Engineering
Date: 15 January 2020
Re: Unsolicited Proposal – **Application from West Point Plantation, LLC to upgrade JWSC PS2038**

Overview

- **Who:** West Point Plantation, LLC (applicant)
- **What:** Proposed 275 single family home build out of West Point Plantation S/D
- **Why:** Project served by JWSC PS2038; currently designated as over design capacity.
- **Cost/Funding:** T.B.D./ funded by applicant

Staff Report

West Point Plantation, LLC (WPP) is continuing development of a 295 lot residential subdivision on St. Simons Island off Frederica Road in the vicinity of Fort Frederica National Monument. A final plat for Phase II has been applied for and is awaiting approval. The development is served by JWSC PS2038. Staff analysis shows that PS2038 does not currently have sufficient design capacity to support the full proposed development. WPP wishes to utilize the JWSC Unsolicited Proposal tool to apply an equivalency of Capital Fees directly towards the upgrade of the JWSC collection system. This application initiates the conceptual review and confirms BOC interest in evaluating a public/private partnership. Approval of the application only commits the JWSC to the next step of reviewing a Preliminary Engineering Report (PER) for feasibility. If the PER is determined feasible and the BOC wishes to move forward, a Comprehensive Agreement would be formalized and executed between the applicant and the BOC. Otherwise, the efforts are discontinued.

Recommended Action

Utilizing the Unsolicited Proposal process to facilitate system improvements for new customer needs is an appropriate application of Capital Fees. As there is currently no funded project to improve the capacity of PS2038, Staff recommends BOC approval of this Unsolicited Proposal application to move forward with evaluating the feasibility of the improvements proposed by WPP.

Recommended Motion

I move that the Brunswick Glynn County Joint Water & Sewer Commission **Facilities Committee** forward the application described above to the full Commission with a recommendation for approval.

Attachments:

- 1) West Point Plantation, LLC Unsolicited Proposal

**LIFT STATION
2038
UNSOLICITED
PROPOSAL**

Glynn County, GA

Original Issue Dec. 17, 2019

Prepared by:

West Point Plantation

101 Gould Street, St Simons, GA 31522 (Office: 912-638-2325) (Fax: 912-289-0339)

**Lift Station 2038
Unsolicited Proposal**

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**Lift Station 2038
Unsolicited Proposal**

1.0 Project Description

LS 2038 is an existing JWSC pump station located in the mid-north portion of Glynn County. The JWSC Master Plan states that the installation of a 10-horsepower duplex pump and a 2,000' 4-inch force main upgrade is needed to increase capacity.

West Point Plantation, LLC is continuing development of a 295-lot development called West Point Plantation at West Point Drive, Saint Simons Island, Georgia (the "Development") with 26-lots being sold already during Phase I. A Final Plat for the 14 lots in Phase II has been filed and is awaiting approval. Copies are attached hereto. JWSC states that there is insufficient sewer capacity to serve the 275-lot buildout of the proposed development without additional improvements to the sewer infrastructure. The 275 tap-ins include six (6) lots in Phase I that have not had homes constructed on them yet, 267 un-platted lots and three (3) tap-ins for a clubhouse, a sales office, and a maintenance area. West Point Plantation, LLC proposes to fund and contract for the necessary improvements to the sewer infrastructure in order to provide for the Development. West Point Plantation, LLC will work with JWSC to complete a Comprehensive Final Agreement setting forth the improvements to be made.

2.0 Feasibility Statement

A. Property Interest

- a. West Point Plantation, LLC does not anticipate acquiring any property interest in any sewage facilities owned by JWSC in undertaking this project.

B. Permits

- a. Glynn County Infrastructure Only Permit, which will require JWSC approval.
- b. EPD Permit

C. Public Utilities

- a. It is not anticipated to conflict with any public utilities; however, all utilities in the area of any proposed LS upgrade will be located and marked prior to any construction. Easements will be consummated with Georgia Power and Comcast for the area they currently occupy with their equipment and an easement for the transit of BGJWSC service vehicles to the pump station will be arranged, including a path through the Georgia Power equipment as well as a path through the additional Development property.

3.0 Schedule

Bidding and award per JWSC policy unless done in-house.

4.0 Financial Plan

West Point Plantation, LLC proposes to pay costs required for the Development and other upgrades to Lift Station 2038 as agreed to by West Point Plantation, LLC and JWSC in a Comprehensive Final Agreement in which West Point Plantation, LLC, its heirs and assigns (collectively the "Developer") will be awarded a tap-in credit for all future impact fees for the remaining 275 tap-ins required to build out the West Point Plantation development. The Comprehensive Final Agreement ("Agreement") will provide for:

Lift Station 2038 Unsolicited Proposal

- A detailed description of upgrades to LS 2038 required to bring the Lift Station up to the specifications defined in the JWSC 2015 Master Plan to be paid for by Developer.
- The upgrades will be made to assure adequate capacity for the full buildout of the remaining lots and amenities at the Development, and the attachments available over and beyond the 275 required at the Development may be sold by the JWSC to properties outside of West Point Plantation.
- Developer will deed to JWSC the Developer-owned real property where the LS 2038 Improvements are located.
- Developer will receive a credit from JWSC granting the Developer the right to have 275 tap-ins, and Developer will not have to pay impact fees for those tap-ins, regardless of then-current impact fees being charged to customers when each of those tap-ins is utilized by the Developer. Developer will pay “hard costs” for the 275 future tap-ins when each additional phase is approved (i.e., the Agreement will only provide credit of impact fees due, not hard costs).
- Upon signing of the Agreement, a portion of the above credit will be advanced to Developer to cover Impact Fees for Phases II, III, and IV of the Development (47 lots) as well as three (3) tap-ins for a clubhouse, a sales office, and a maintenance area (together, 50 tap-ins).
- Developer will receive the remainder of the credit upon completion of the improvements.
- In an effort to continue to be a responsible developer, Developer anticipates attaching to tap-ins at a rate of approximately 12-24 per year (use of all 275 tap-ins expected between 12 and 20 years). There will be a twenty (20) year limit on use of the above tap-in credits by Developer.

5.0 Business Case Statement

A business case statement will be provided following further detail from JWSC. The JWSC will benefit by having necessary improvements constructed, at the Developer’s initial cost and expense, with such improvements being dedicated over to the JWSC after completion.

6.0 Contacts

John Hunkele
Coastal Engineering Consultants,
Inc.
P. O. Box 20306
St. Simons Island, GA 31522
(912) 223-0647
JohnH@cec-ga.com

Michael Torras
West Point Plantation, LLC
101 Gould Street
Saint Simons Island, GA 31522

**Lift Station 2038
Unsolicited Proposal**

(912) 230 7519
michael@torrasproperties.com

Gary R. Nevill, PLS
Shupe Surveying Co., P.C.
3837 Darien Hwy.
Brunswick, GA 31525
912-265-0562
gnevill@shupesurvey.com

7.0 Trade Secrets

Any trade secrets needing protection from any RFP are to be determined.



Brunswick-Glynn County Joint Water and Sewer Commission

Memo

To: Brunswick-Glynn Joint Water & Sewer Commission – **Facilities Committee**
From: Todd Kline, P.E., Director of Engineering
Date: 15 January 2020
Re: Dedication of Easements and/or Infrastructure - **WYNNEVER FITNESS**

Staff Report

Upon completion of a private development activity, the owner of record provides access to the JWSC by way of dedicated easement and/or dedicates ownership of privately constructed infrastructure to the JWSC. Infrastructure dedication is also warranted by the owner for correction of any and all system defects that may be found during the operation of the system for a period of two (2) years from the date of JWSC acceptance as public infrastructure.

The above referenced water and sewer systems have been constructed in accordance with applicable standards and JWSC Development Procedures. The work has been deemed compliant by JWSC operational superintendents and the project inspector. The record drawings have been fully executed.

Project	Record Drawings	Application for Dedication		Fair Value of Infrastructure		Easement ¹
		Water	Wastewater	Water	Wastewater	
Wynnever Fitness @ 275 Palisade Drive, Brunswick (South Main)	10-04-2019	NA	NA	NA	NA	Sewer Only Easement

¹ Where applicable, deed 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

All requirements of the BGJWSC Development Procedures have been met and all related documents have been submitted and executed. Staff recommends the BGJWSC **Facilities Committee** accept the project dedication described above.

Recommended Motion

I move that the Brunswick Glynn County Joint Water & Sewer Commission **Facilities Committee** forward the dedication described above to the full Commission for acceptance.

Attachments:

- 1) Wynnever Fitness Sewer Only Easement Deed – *Requires BGJWSC Commission Signature*

A K M
SURVEYING, INC.
Surveyors & Land Planners

P.O. Box 5730
St. Marys, Georgia 31558
Phone: (912)729-1507
Fax: (912)729-1509
Email: akm_surveying@tds.net

September 5, 2019

LOT 28, SOUTH PORT SUBDIVISION UTILITY EASEMENT:

ALL THAT CERTAIN TRACT OR PARCEL OF LAND LYING IN GLYNN COUNTY, 27th G.M. DISTRICT, GLYNN COUNTY, GEORGIA, BEING A PORTION OF LOT 28, SOUTH PORT SUBDIVISION (ACCORDING TO PLAT RECORDED IN PLAT DRAWER 21, FOLIO 303, PUBLIC RECORDS OF SAID COUNTY) AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS: FOR A POINT OF REFERENCE COMMENCE AT A POINT LYING AT THE SOUTHEASTERLY CORNER OF THE PREVIOUSLY MENTIONED LOT 28, SOUTH PORT SUBDIVISION, SAID POINT LYING ON THE NORTHWESTERLY RIGHT-OF-WAY LINE OF SOUTH PORT PARKWAY (A 100 FOOT RIGHT-OF-WAY PAVED) AND RUN NORTH 24°-56'-59" EAST ALONG LAST MENTIONED NORTHWESTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 2.04 FEET TO THE POINT OF BEGINNING.

FROM THE POINT OF BEGINNING THUS DESCRIBED RUN NORTH 73°-24'-23" WEST, A DISTANCE OF 16.57 FEET TO A POINT; RUN THENCE SOUTH 16°-35'-37" WEST, A DISTANCE OF 1.25 FEET TO A POINT; RUN THENCE NORTH 73°-24'-23" WEST, A DISTANCE OF 10.00 FEET TO A POINT; RUN THENCE NORTH 16°-35'-37" EAST, A DISTANCE OF 10.00 FEET TO A POINT; RUN THENCE SOUTH 73°-24'-23" EAST, A DISTANCE OF 10.00 FEET TO A POINT; RUN THENCE SOUTH 16°-35'-37" WEST, A DISTANCE OF 1.25 FEET TO A POINT; RUN THENCE SOUTH 73°-24'-23" EAST, A DISTANCE OF 17.67 FEET TO A POINT LYING ON THE AFOREMENTIONED NORTHWESTERLY RIGHT-OF-WAY LINE OF SOUTH PORT PARKWAY; RUN THENCE SOUTH 24°-56'-59" WEST ALONG LAST MENTIONED NORTHWESTERLY RIGHT-OF-WAY LINE, A DISTANCE OF 7.58 FEET TO THE POINT OF BEGINNING.

THE LAND THUS DESCRIBED CONTAINS 229 SQUARE FEET, MORE OR LESS, AND IS SUBJECT TO ANY EASEMENTS OF RECORD WHICH MAY LIE WITHIN.





Brunswick-Glynn County Joint Water and Sewer Commission

Memo

To: Brunswick-Glynn Joint Water & Sewer Commission – **Facilities Committee**
From: Todd Kline, P.E., Director of Engineering
Date: 15 January 2020
Re: Capital Project #702 – **SPLOST 2016 North Mainland Sewer Basin Reroute; C.O. #1 (time extension)**

Overview

- Who: Inland Pipe Rehabilitation, LLC (contractor); Thomas & Hutton Engineering Co. (EOR)
- What: Time (only) extension request.
 - Notice to Proceed
 - August 12, 2019
 - Final completion January 09, 2020 (150 days).
 - 50 Day time extension requested.
 - Proposed, *adjusted* final completion **February 28, 2020**.
- Why: Project delays claimed by Contractor (see attached letter).
- Contract Amount (Funding): \$2,550,519 (SPLOST 2016)

Staff Report

On December 28th, JWSC staff received a letter from Inland Pipe Rehabilitation (IPR) which included a project time extension request in the amount of 50 days. IPR has cited several reasons for delays in their progress including weather, sub-contractor delays, permitting and difficulties with bypassing. The project Engineer of Record conducts routine (generally, bi-weekly) progress meetings with the Contractor, during which the schedule and progress are thoroughly discussed. The JWSC has notified the Contractor in writing on three occasions that a delay in progress had been noted (see attached), with requests to correct and update project schedule for completion. This request from IPR is for a time extension only; no cost increase. The project is expected to complete within budget. The work completed by the Contractor, to date, has been satisfactory and per contract requirements.

Recommended Action

Staff has reviewed the request from IPR and recommends approval of a Change Order #1 time (only) extension request with an adjusted final completion date of **February 28, 2020**.

Recommended Motion

I move that the Brunswick Glynn County Joint Water & Sewer Commission **Facilities Committee** forward the above described Change Order #1 for time extension to the full Commission with a recommendation for approval.

Attachments:

- 1) Letter from IPR (12/28/19)
- 2) JWSC letter to IPR (10/07/19)
- 3) JWSC letter to IPR (11/25/19)
- 4) JWSC letter to IPR (01/02/20)

BGWSC NORTH MAINLAND PHASE II AND III IMPROVEMENTS
DIVISION I - CIPP SEWER REHABILITATION (NM-2016-0702)
1/13/2020

	MH #	Sheet #	TOPSIDE PHOTO	INTERNAL PHOTO/VIDEO	F&C Rasied/Adjusted	Hydroblast & Clean	Calcium Aluminate Coating Applied			Vacuum Test Pass	Composite F&C Final Install	JWSC Approved
							Barrel	Bench/Invert	Chimney			
1	40350440	C1.1										
2	40350430	C1.1			Completed	Completed	Completed	Completed	Completed			
3	40350420	C1.1	40350420		Completed	Completed						
4	40350410	C1.1			Completed	Completed					Completed	
5	40350400	C1.1			Completed	Completed	Completed	Completed	Completed		Completed	
6	40350390	C1.1			Completed	Completed					Completed	
7	40350380	C1.1	40350380		Completed	Completed	Completed	Completed	Completed			
8	40350370	C1.1				Completed	Completed	Completed	Completed			
9	40350360	C1.1	40350360		Completed	Completed	Completed	Completed	Completed		Completed	
10	40350350	C1.1	40350350		Completed	Completed	Completed	Completed	Completed		Completed	
11	40350340	C1.2			Completed	Completed	Completed	Completed	Completed			
12	40350330	C1.2	4350330	40350330	Completed	Completed	Completed	Completed	Completed		Completed	
13	40350320	C1.2	4350320	40350320	Completed	Completed	Completed	Completed	Completed		Completed	
14	40350310	C1.2		40350310	Completed	Completed						
15	40350300	C1.2	40350300	40350300	Completed	Completed	Completed	Completed	Completed			
16	40350290	C1.2		40350290	Completed	Completed	Completed	Completed	Completed			
17	40350280	C1.2			Completed	Completed	Completed	Completed	Completed			
18	40350270	C1.2			Completed	Completed	Completed	Completed	Completed			
19	40350271 (40350260A)	C1.2			Completed							
20	40350260	C1.2			Completed	Completed	Completed	Completed	Completed			
21	40350250	C1.3	40350250		Completed	Completed	Completed	Completed	Completed			
22	40350240	C1.3			Completed	Completed	Completed	Completed	Completed			
23	40350230	C1.3			Completed							

BGJWSC NORTH MAINLAND PHASE II AND III IMPROVEMENTS
DIVISION I - CIPP SEWER REHABILITATION (NM-2016-0702)
1/13/2020

	MH #	Sheet #	TOPSIDE PHOTO	INTERNAL PHOTO/VIDEO	F&C Rasied/Adjusted	Hydroblast & Clean	Calcium Aluminate Coating Applied			Vacuum Test Pass	Composite F&C Final Install	JWSC Approved
							Barrel	Bench/Invert	Chimney			
24	40350220	C1.3			Completed	Completed	Completed	Completed	Completed			
25	40350210	C1.3			Completed	Completed	Completed	Completed	Completed			
26	40350200	C1.3			Completed	Completed	Completed	Completed	Completed			
27	40350190	C1.3			Completed	Completed	Completed	Completed	Completed			
28	40350180	C1.3			Completed	Completed	Completed	Completed	Completed			
29	40350170	C1.4			Completed	Completed	Completed	Completed	Completed			
30	40350161	C1.4			Completed	Completed	Completed	Completed	Completed			
31	40350160	C1.4			Completed	Completed	Completed	Completed	Completed			
32	40350150	C1.4	4WTP0150		Completed	Completed	Completed	Completed	Completed			
33	40350140	C1.4	4WTP0140		Completed	Completed						
34	40350130	C1.4	4WTP0130		Completed	Completed	Completed	Completed	Completed			
35	40350120	C1.4			Completed	Completed	Completed	Completed	Completed			
36	40350110	C1.5			Completed	Completed						
37	40350100	C1.5			Completed	Completed	Completed	Completed	Completed			
38	40350090	C1.5			Completed	Completed	Completed	Completed	Completed			
39	40350080	C1.5			Completed	Completed	Completed	Completed	Completed			
40	40350070	C1.5			Completed	Completed	CLEAN ONLY - COMPLETED					
41	40350062	C1.5	40350062		Completed	Completed	Completed	Completed	Completed			
42	40350061	C1.5	40350061		Completed	Completed	Completed	Completed	Completed			
43	40350060	C1.5	40350060		Completed	Completed	Completed	Completed	Completed			
44	40350050	C1.6			Completed	Completed	Completed	Completed	Completed			
45	40350040	C1.6			Completed							
46	40350030	C1.6										
47	40350020	C1.6										

BGWSC NORTH MAINLAND PHASE II AND III IMPROVEMENTS
DIVISION I - CIPP SEWER REHABILITATION (NM-2016-0702)
1/13/2020

MH #	Sheet #	TOPSIDE PHOTO	INTERNAL PHOTO/VIDEO	F&C Rasied/Adjusted	Hydroblast & Clean	Calcium Aluminate Coating Applied			Vacuum Test Pass	Composite F&C Final Install	JWSC Approved
						Barrel	Bench/Invert	Chimney			
48	40350010	C1.6									
49	4WTP0300	C1.6									
50	4WTP0290	C1.6		Completed							
51	4WTP0280	C1.6		Completed							
52	4WTP0270	C1.7			Completed	CLEAN ONLY - COMPLETED					
53	4WTP0260	C1.7	4WTP0260			FIBERGLASS MH INSERT - NO COATING REQUIRED					
54	4WTP0250	C1.7				FIBERGLASS MH INSERT - NO COATING REQUIRED					
55	4WTP0240	C1.7				FIBERGLASS MH INSERT - NO COATING REQUIRED					
56	4WTP0230	C1.7		Completed	Completed	Completed	Completed	Completed			
57	4WTP0220	C1.7	4WTP0220	4WTP0220	F/C NOT INSTALLED						
58	4WTP0210	C1.7	4WTP0210	4WTP0210	F/C NOT INSTALLED	Completed	Completed	Completed			
59	4WTP0200	C1.7	4WTP0200	4WTP0200	Completed	Completed	Completed	Completed			
60	4WTP0190	C1.7	4WTP0190	4WTP0190	Completed	Completed	Completed	Completed			
61	4WTP0180	C1.7	4WTP0180	4WTP0180	Completed	Completed	CLEAN ONLY - COMPLETED				
62	4WTP0170	C1.7	4WTP0170	4WTP0170	Completed	Completed	CLEAN ONLY - COMPLETED				
63	4WTP0160	C1.8	4WTP0160		Completed	Completed	Completed	Completed	Completed		
64	4WTP0150	C1.8	4WTP0150		Completed	Completed	Completed	Completed	Completed		
65	4WTP0140	C1.8	4WTP0140		Completed	Completed	Completed	Completed	Completed		
66	4WTP0130	C1.8	4WTP0130		Completed	Completed	Completed	Completed	Completed		
67	4WTP0120	C1.8	4WTP0120	4WTP0120	Completed	Completed	Completed	Completed	Completed		
68	4WTP0110	C1.8	4WTP0110	4WTP0110	Completed	Completed	Completed	Completed	Completed		
69	4WTP0100	C1.8			Completed	Completed	Completed	Completed	Completed		
70	4WTP0090	C1.8			Completed	Completed	Completed	Completed	Completed		
71	4WTP0020	C1.8			Completed	Completed	Completed	Completed	Completed		

**BGWSC NORTH MAINLAND PHASE II AND III IMPROVEMENTS
DIVISION I - CIPP SEWER REHABILITATION (NM-2016-0702)**

1/13/2020

	<u>Upstream MH</u>	<u>Downstream MH</u>	<u>Date</u>	<u>Street</u>	<u>Diameter (Inches)</u>	<u>Material</u>	<u>Length Surveyed (LF)</u>	<u>Status</u>
1	SSMH# 40350310	SSMH# 40350300	11/8/2019	OLD JESSUP ROAD	30	CIPP	263.5	Completed
2	SSMH# 40350300	SSMH# 40350290	11/8/2019	OLD JESSUP ROAD	30	CIPP	297.3	Completed
3	SSMH# 40350290	SSMH# 40350280	11/14/2019	OLD JESSUP RD / WHITLOCK ST	30	CIPP	357	Completed
4	SSMH# 40350280	SSMH# 40350270	11/14/2019	WHITLOCK ST	30	CIPP	244	Completed
5	SSMH# 40350270	SSMH# 40350260A	11/18/2019	WHITLOCK ST	30	CIPP	97	Completed
6	SSMH# 40350260A	SSMH# 40350260	11/18/2019	WHITLOCK ST	30	CIPP	474	Completed
7	SSMH# 40350260	SSMH# 40350250	11/22/2019	WHITLOCK ST	30	CIPP	503	Completed
8	SSMH# 40350380	SSMH# 40350370	11/26/2019	451 OLD JESSUP ROAD	30	CIPP	428	Completed
9	SSMH# 40350390	SSMH# 40350380	12/9/2019	1105 B AND W GRADE ROAD	30	CIPP	99	Completed
10	SSMH# 40350400	SSMH# 40350390	12/9/2019	B AND W GRADE ROAD	30	CIPP	350	Completed
11	SSMH# 40350410	SSMH# 40350400	12/9/2019	B AND W GRADE ROAD	30	CIPP	240	Completed
12	SSMH# 40350370	SSMH# 40350360	12/17/2019	415 OLD JESSUP ROAD	30	CIPP	250	Completed
13	SSMH# 40350360	SSMH# 40350350	12/19/2019	379 OLD JESSUP ROAD	30	CIPP	108	Completed
14	SSMH# 40350350	SSMH# 40350340	12/19/2019	379 OLD JESSUP ROAD	30	CIPP	467	Completed
15	SSMH# 40350340	SSMH# 40350330	12/19/2019	OLD JESSUP ROAD	30	CIPP	175	Completed
16	SSMH# 40350330	SSMH# 40350320	12/20/2019	323 OLD JESSUP ROAD	30	CIPP	346	Completed
17	SSMH# 40350440	SSMH# 40350430	-	B AND W GRADE ROAD	30	CIPP	304	CIPP work schedule for 01/13/2020
18	SSMH# 40350430	SSMH# 40350420	-	B AND W GRADE ROAD	30	CIPP	299	CIPP work schedule for 01/13/2020
19	SSMH# 40350420	SSMH# 40350420	-	B AND W GRADE ROAD	30	CIPP	446	CIPP work schedule for 01/13/2020
20	SSMH# 40350320	SSMH# 40350310	-	OLD JESUP ROAD	30	CIPP	364	Pending GDOT Review Approval
Total LF							6,111.8	



Inland Pipe Rehabilitation

1510 Klondike Road
Suite 400
Conyers, GA 30094

December 28, 2019

Mr. Todd Kline
Brunswick-Glynn County Joint Water and Sewer Commission
1703 Gloucester Road
Brunswick, Georgia 31520

RE: Final Completion 2016 SPLOST North Mainland Improvements Phase II & III
Division 1 CIPP Sewer Rehabilitation
Project No. NM-2016-0702

Dear Mr. Kline,

Please see updated project schedule attached for your review. IPR has completed about 70% of the CIPP with about 1,400 feet remaining to install. Woodard Construction has about 15% of the manhole frame and cover work remaining and continues to work closely with the manhole rehab sub. Culy Contracting has completed all manholes issued for clean only and was finally able to bring in a 2nd crew to make some progress with the manhole rehabilitation. Each of the manholes requiring cementitious coating have had at least some level of work completed, however, most of the manholes still need to have invert channels coated and pipe connections sealed.

We've had a little trouble obtaining an encroachment permit from GDOT to work within the right of way and line the sewer under Community Road. Thomas and Hutton are communicating with GDOT, helping to acquire the permit and furnishing drawings as needed. IPR is actively seeking drilling contractors to provide quotes for installing a casing pipe under Community Road via HDD or jack and bore to facilitate the temporary sewer bypass and CIPP installation. In the next couple of days, we will be submitting a bypass plan for CIPP installation on B & W Grade Road and hope to have it approved and in place by the 2nd week of January at the latest.

Woodard Construction should be finished with all composite frame and cover work within the first few days of January and will be following up with sidewalk, pavement repairs and punch list items as required. They will also be providing support for the bypass setup along B & W Grade Road. Culy Contracting, has committed to having most of the manhole work complete by the 2nd week of January. As mentioned previously, much of the work involves repairing invert channels and sealing pipe connections with excessive infiltration leaks all while dealing with large volumes of active sewer flow. IPR is prepared to provide whatever support Culy needs to ensure they can deliver a quality final product.

Although we have not been officially notified that the work was not substantially complete on December 10th, we are very aware that there is still a considerable amount of work to do. Be that as it may, IPR would like to respectfully make a request for an increase in contract time of 50 days, thus extending the final completion date to Friday, February 28, 2020.

Thank you for your consideration of this request and please don't hesitate to contact me should you have any questions or comments.

Sincerely,

A handwritten signature in black ink, appearing to read 'Tim Patton', with a long horizontal line extending to the right.

Tim Patton
Project Manager
IPR SOUTHEAST, LLC
407 South Assembly Drive
Columbia, South Carolina 30083



**Brunswick-Glynn County
Joint Water and Sewer Commission**

October 7, 2019

Mr. Tim Patton, Project Manager
IPR Southeast, LLC
407 South Assembly
Columbia, SC 30083

Subject: 2016 SPLOST North Mainland Phase 2 and 3 Improvements Division I CIPP
JWSC Project No. NM-2016-0702
Work Behind Schedule

Dear Mr. Patton:

The purpose of this letter is to inform you that the Brunswick-Glynn County Joint Water and Sewer Commission (JWSC) is concerned with the lack of progress on the referenced project. As of October 7, 2019, the work was 0.00% complete with the 28.57% of the Contract time used per the Contract document submittal requirements. The concern is that it does not appear you will be able to achieve substantial completion within the Contract Time.

There are many reasons for a delay to a project. The JWSC is requesting you submit a recovery schedule as soon as possible or otherwise demonstrate how you will accomplish the work within the Contract Time. There are numerous provisions within the contract documents that require the contractor to proceed with the work in a timely manner and with adequate forces. The JWSC is prepared to discuss a cure to this issue at your earliest convenience.

Should you have any questions regarding this matter, please contact me at (912) 261-7122.

Sincerely,

W. Todd Kline, P.E.
Director of Engineering
Planning & Construction Division

cc: Andrew Burroughs, P.E. (JWSC)

File: S:\Submittals Database\P&C Budgeted Projects- R&R CIP CAP\NMProj 702 - North Mainland Sewer Basin Re-Route\Phase 2 CIPP\Correspondence\Work Behind Schedule_10-07-2019.doc



**Brunswick-Glynn County
Joint Water and Sewer Commission**

November 25, 2019

Mr. Tim Patton, Project Manager
IPR Southeast, LLC
407 South Assembly
Columbia, SC 30083

Subject: 2016 SPLOST North Mainland Phase 2 and 3 Improvements Division I CIPP
JWSC Project No. NM-2016-0702
Work Behind Schedule

Dear Mr. Patton:

The purpose of this letter is to inform you that the Brunswick-Glynn County Joint Water and Sewer Commission (JWSC) is concerned with the lack of progress on the referenced project. As of November 25, 2019, the work was 6.95% complete with the 70.00% of the Contract time used per the Contract document submittal requirements. The concern is that it does not appear you will be able to achieve substantial completion within the Contract Time.

There are many reasons for a delay to a project. The JWSC is requesting you submit a recovery schedule as soon as possible or otherwise demonstrate how you will accomplish the work within the Contract Time. There are numerous provisions within the contract documents that require the contractor to proceed with the work in a timely manner and with adequate forces. The JWSC is prepared to discuss a cure to this issue at your earliest convenience.

Should you have any questions regarding this matter, please contact me at (912) 261-7122.

Sincerely,

W. Todd Kline, P.E.
Director of Engineering
Planning & Construction Division

cc : Andrew Burroughs, P.E. (JWSC)

File: S:\Submittals Database\P&C Budgeted Projects- R&R CIP CAP\NMProj 702 - North Mainland Sewer Basin Re-Route\Ph2 CIPP\Communications\Work Behind Schedule_11-25-2019.doc



**Brunswick-Glynn County
Joint Water and Sewer Commission**

January 2, 2020

Mr. Tim Patton, Project Manager
IPR Southeast, LLC
407 South Assembly
Columbia, SC 30083

Subject: 2016 SPLOST North Mainland Phase 2 and 3 Improvements Division I CIPP
JWSC Project No. NM-2016-0702
Work Behind Schedule

Dear Mr. Patton:

The purpose of this letter is to inform you that the Brunswick-Glynn County Joint Water and Sewer Commission (JWSC) is concerned with the lack of progress on the referenced project. As of January 2, 2020, the work was 36.28% complete with the 95.33% of the Contract time used per the Contract document submittal requirements. The concern is that it does not appear you will be able to achieve substantial completion within the Contract Time.

There are many reasons for a delay to a project. The JWSC is requesting you submit a recovery schedule as soon as possible or otherwise demonstrate how you will accomplish the work within the Contract Time. There are numerous provisions within the contract documents that require the contractor to proceed with the work in a timely manner and with adequate forces. The JWSC is prepared to discuss a cure to this issue at your earliest convenience.

Should you have any questions regarding this matter, please contact me at (912) 261-7122.

Sincerely,

W. Todd Kline, P.E.
Director of Engineering
Planning & Construction Division

TK:jv

cc : Andrew Burroughs, P.E. (JWSC)

File: S:\Submittals Database\P&C Budgeted Projects- R&R CIP CAP\NMProj 702 - North Mainland Sewer Basin Re-Route\Ph2 CIPP\Communications\Work Behind Schedule_01-02-2020.doc

January 15, 2020

Current PM, CM, & OM							
Department	Sub-Catagoty	Discription	PM	PM/CM	CM	CM/OM	OM
Administration	Generators						
		Portable Generators	X				
Facility Maintenance	Facility Maintenance						
		Office Maintenance					X
		Plumbing					X
		Property Maintenance					X
Fleet Maintenance	Inspections						
		Crane Inspection	X				
		Crane Repair			X		
		Crane Weld & Fab					X
		Light Vehicle 5k	X				
		Light Vehicle 10k	X				
		Light Vehicle 20k	X				
		Light Vehicle 30k	X				
		Light Vehicle 50k	X				
		Light Vehicle Weekly	X				
		Vehicle Repair			X		
Sewer	Control Valve		X				
		Clean A/R			X		
		Repair A/R					
		Replace A/R					X
		Main Line Repair			X		
		Main Line Replacing					X
		Main Line Scheduled Cleaning	X				
		Main line televising	X				
		Sidewalk Repair			X		
		Service Line Cleaning			X		
		Service Line repair			X		
	Sewer Lift Station						
		Declared Emergency	X				
		Building Structure Repair/Maintenance		X			
		Control & System Repair			X		
		Facility Electrical System Repair/Maintenance		X			
		General Repair			X		
		Mag Meter Repair/Maint/Repair		X			
		Misc Equipment Repair/Maint		X			
		On-site Emergency bypass	X				
		On-site Engine Powered Pump	X				

Current PM, CM, & OM							
Department	Sub-Catagoty	Discription	PM	PM/CM	CM	CM/OM	OM
		On-site Generator electrical Repair/Maint		X			
		On-site Generator Maint/Repair/Install		X		X	
		On-site Generator repair	X				
		Lift Station	X				
		Pump Wet End Repair			X		
		Lift Station Rehab Project	X				
		SCADA System Repair/Maint/Replace	X		X		X
		Valve Repair/Replacement				X	
		Wet Well Facility Cleaning		X			
		Pump System Efficiency Testing	X				
	Sewer Manhole						
		Manhole Cleaning	X				
		Manhole Inspection	X				
		Manhole Rehab					X
		Manhole Repair		X			
		Replace Frame and Cover			X		
	Sewer Pressurized Main						
		Force main Rehab/upgrade					X
		Force main repair			X		
		force main televising	X				
	Sewer Vaults						
		Clean Vault	X				
		Repair Vault			X		
		Replace Vault					X
Water Distribution							
	Backflow						
		Flow Test	X				
		Hydrant Install					X
		Hydrant PM	X				
		Hydrant Repair			X		
		Hydrant Replacement			X		
	Control Valve	N/A					
	Water Fittings	N/A					
	Water Mains						
		Concrete Repair/Preplace			X		
		Contractor's Water Main Break			X		
		Operation Main Valve	X				
		Hydro Stop Install					X

Current PM, CM, & OM							
Department	Sub-Catagoty	Discription	PM	PM/CM	CM	CM/OM	OM
		Water Main Pressure Test	X				
		Water Main Repair				X	
		Water Main Replace					X
	Meters						
		Meter Repair/Replacement				X	
		Water Meter Box Adjustment			X		
		Water Meter Change Out				x	
		Water Meter Flow Test	X				
		Water Meter Repair			X		
		Water Meter Retrofit					X
	Water Services						
		Water Service Repair			X		
		Water Service Replace					X
	Water System Valve						
		Water System Valve PM	X				
		Water System Valve Repair			X		
		Water System Valve Replace					X
Water Production							
	Production Chemical						
		Feed System Maintenance	X				
		Feed System Repair			X		
		Feed System Replacement					X
		Leak Check	X				
		Leak Repair			X		
		Weighing System Repair			X		
	Electrical Control						
		Breaker/Fuse replacement					X
		Panel Rebuild			X		
		Repair					X
		Drive Reset	X				
		PM Inspections	X				
		Wiring Repair			X		
		Wiring Replacement					X
	Equipment						
		Equipment Maintenance	X				
		Eye Wash Repair			X		
		Eye Wash Service	X				
	Generator						
		Maintenance	X				

Current PM, CM, & OM							
Department	Sub-Catagoty	Discription	PM	PM/CM	CM	CM/OM	OM
		Repair			X		
	Level Indicator	N/A					
	Meters						
		Repair			X		
		Replacement					X
	Motor						
		Repair			X		
		Replacement					X
	Pump						
		High Service Pump Test	X				
		Pump PM Monthly	X				
		Efficiency Check	X				
	Valve						
		Altitude Valve Repair			X		
		Altitude Valve Replacement					X
		Discharge Valve Repair			X		
		Discharge Valve Replacement					x
		Valve Pit Clean Out	X				
	Production Facilities						
		Electrical Repair			X		
		Electrical Replacement					X
		Structural Repair			X		
		Structural Replacement					X
		Fencing Repair			X		
		Fencing Replacement					X
		Landscaping Upkeep	X				
		Routine Maintenance/PM Checks	X				
		Inspection BWK Route	X				
		South Mainland Route	X				
		St Simons Island Route	X				
		Autoclave calibrate Verification	X				
		Autoclave Maintenance	X				
		Autoclave Repair			X		
		BacT Sampling Scheduled	X				
		Contractor Service Water Testing	X				
		Equipment Test QA/QC Scheduled	X				
		Proficiency Test Quarterly	X				
		Proficiency Test Requirement	X				
		Water Analysis Routine	X				
		Water Analysis Scheduled	X				
		Water Quality Sampling Routine	X				

Current PM, CM, & OM							
Department	Sub-Catagoty	Discription	PM	PM/CM	CM	CM/OM	OM
		Water Sampling EPD	X				
		Motor Repair/Replace				X	X
		Pump PM Monthly	X				
		Reset Breakers/Replace Fuses			X		
	Water Production Tanks						
		Aerator Cleaning	X				
		Aerator Maintenance	X				
		Discharge Piping Repair			X		
		Piping Replacement					X
		GST Clean	X				
		GST repair			X		
		GST Replace					X
		Pump PM Monthly	X				
		Tank General Repair/Replacement				X	
		Tank Maintenance/Repair Drain		X			
		Tank Maintenance/Repair Refill		X			
	Water Production Wells						
		Motor – replace/repair				X	
		Motor PM Monthly	X				
		Water Production Well Drawdown test	X				
		Water Production Well Inspection	X				
		Water Production Well Inspection Private	X				
		Water Production Well Maintenance	X				
		Water Production Well Pump PM Monthly	X				
		Water Production Well Repair			X		
		Water Production Well Replacement					X
	Water Sampling Station						
		Lab Water Quality Sampling Routine	X				
		Lab Water Quality EPD required County	X				
		Lab Water Sampling Work Routine	X				
WWT Plants							
	Aeration Basin						
		Preventative Maintenance	X				
		Vac-Con Truck Mixed Liquor Box Cleanout	X				
		Alum Leak			X		
		Alum Pump					X
	Bio-Solids						
		Motor – replace/repair – CM/OM				X	
		Motor PM Monthly – PM	X				
		Water Production Well Drawdown test – PM	X				

Current PM, CM, & OM							
Department	Sub-Catagoty	Discription	PM	PM/CM	CM	CM/OM	OM
		Water Production Well Inspection – PM	X				
		Water Production Well Inspection Private – PM	X				
		Water Production Well Maintenance – PM	X				
		Water Production Well Pump PM Monthly – PM	X				
		Water Production Well Repair – CM			X		
		Water Production Well Replacement – OM					X
	Blower						
		Preventative Maintenance	X				
	Chem Control						
		Preventative Maintenance	X				
	Chemical Tank						
		Preventative Maintenance	X				
	Clarifier						
		Preventative Maintenance	X				
	Contact Chamber						
		Preventative Maintenance	X				
	Digester						
		Preventative Maintenance	X				
	Filters						
		Preventative Maintenance	X				
	Generator						
		Preventative Maintenance	X				
	Head Works						
		Academy Creek Pumps Bi-Annual	X				
		Academy Creek Pumps Five Years	X				
		Academy Creek Pumps Monthly	X				
		Preventative Maintenance	X				
	Grit Collector						
		Academy Creek Grit Classifier Annual	X				
		Academy Creek Grit Classifier Quarterly	X				
		Academy Creek Grit Classifier Semi-Annual	X				
	Operations						
		Preventative Maintenance	X				
	Oxidation Ditch						
		Preventative Maintenance	X				
	Pump Building						
		Preventative Maintenance	X				

Current PM, CM, & OM							
Department	Sub-Catagoty	Discription	PM	PM/CM	CM	CM/OM	OM
	Septic Station						
		Preventative Maintenance	X				
	Storage						
		Preventative Maintenance	X				
	UV						
		Preventative Maintenance	X				
	Yard Piping						
		Check or Repair Chemical leak	X				
		Check or Repair Water Leak leak	X				
		Facillity Safety Equipment	X				
SCADA							
	SCADA						
		Computer Problem			X		
		Contractor Support			X		
		DFS Service	X				
		DFS Repair			X		
		DFS Update	X				
		HMI Repair			X		
		HMI Replacement					X
		HMI Returns	X				
		Module Repair			X		
		Module Replacement					X
		Module Return	X				
		Radio Antenna Alignment	X				
		System Repair					
		System Replacement					X
		System Reset	X				
		Transducer Repair			X		
		Transducer Replacement					X



PROJECT STATUS REPORT

PROJECT ROADMAP IMPLEMENTATION (RELIABILITY BASIS OPTIMIZATION)

REPORT DATE	PROJECT NAME	PREPARED BY
January 10, 2020	Roadmap Implementation	Wayne Morgan

STATUS SUMMARY

To date, the project started with a manner of formalizing each Department's specific Asset Hierarchy, depicting actual Locations, Systems, Sub-Systems (where relevant) and then the population of actual physical Assets. Of such Assets, they are being placed in the respective directory trees, whereby each Asset now has an actual Unique Identifier (UID) that is specific to only that, such Asset. This will allow for greater tracking of the Assets and their respective Reliability Strategies.

PROJECT OVERVIEW

TASK	% DONE	DUE DATE	DRIVER	NOTES
1 Hierarchy Development	65	TBD	Availability of CityWorks Programmers	The actual Hierarchy
2 Asset Identification	100	COMPLETED	BGJWSC participation and Support	There is now a detailed listing of Equipment that is also defined by Categories for Water, WasteWater Plants and Lift Stations. See below information for more detail.
3 Criticality Ranking	25	TBD	CoF Matrix	This ranking is based on BGJWSC CoF Matrix.
4 FMECA Analysis	15	TBD	E. Z. and TRI-SSI	The Failure Modes and Effects Condition Analysis was performed in an earlier project for all three WasteWater Plants and those Assets that Ranked Critical. All new Assets identified have yet to be ranked nor analysis performed
5 Task Development	92	TBD	E. Z. and TRI-SSI	This process has been done on the Assets defined

TASK	% DONE	DUE DATE	DRIVER	NOTES
				in the earlier project. We have not started with newly identified Assets, as of today's date. Awaiting final approval of newly added Assets
6 Condition Management	10	TBD	E. Z. and TRI-SSI	This process will be used to create the strategy for protection of all Critically Ranked Assets and the actual implementation of such. This, in combination of identifying the Assets, is the critical portion of this project.

RISK AND ISSUE HISTORY

ISSUE	ASSIGNED TO	DATE
GIS Identifiers	E. Z.	TBD
Some delay at project kick-off due to Holidays	N/A	All is caught up now

CONCLUSIONS/RECOMMENDATIONS

In conclusion, this project is being well received by those involved. The general Staff are excited about the work being done and are very welcoming and warm. Mostly, the employees are anxious to see CityWorks become a greater contributor in their daily work and Asset Management

See the following summary:

Assets Identified:

Total Assets Identified to date: 1566

Breakdown of Assets:

Waste Treatment Plants -

Total Assets to Date - 343

ACADEMY CREEK - 219

DUNBAR - 42

SOUTH PORT - 82

(Notice, the Waste Plants were Identified in an earlier project and need to be revisited)

Water Production -

Total Assets to Date 232

BWK1 - 58

BWK2 - 33

BWK3 - 18

BWKF1 - 1

BWKF2 - 1

BWKW - 9

SM1 - 17

SM2 - 11

SM3 - 2

SMF1 - 1

SMW - 2

SSI1 - 37

SSI2 - 21

SSI3 - 15

SSIW - 6

LIFT STATIONS -

Total Assets to Date 988

LS PUMPS - 324

LS DIESEL PUMPS - 21

LS BACKUP GENERATORS - 11

LS ELECTRIC PANELS 158

LS SCADA (real & place Holders) 158

LS FENCING 158

LS ODOR CONTROL 158

In Brief Summary of FMEA Tasks (Only on Waste Plants):

Equipment's Identified in total – 343
Number of Equipment Ranked for Criticality - 321
Equipment's with a 3, 4 or 5 Criticality Ranking – 67
Number of Total Tasks identified in FMEA Analysis – 2940
Number of Tasks for Criticalities 3, 4 and 5 – 648
Breakdown of Tasks for total 1-5 Criticality (321 Equipment Assets)

- Operational Inspections and Monitoring – 1,384
- Continuous Monitoring – 387
- Basic Lubrications – 267
- Calibrations – 79
- Infrared Thermography – 239
- Vibration Analysis – 302
- Performance Testing – 85
- Overhaul and Inspections – 197

Please note, the above list explains the various Failure modes and the Tasks that are required to protect, or identify, each failure. They are not intended to be a single activity among themselves but lumped with other activities that provide the best strategy and efficiency for each Equipment Asset.

From the totality of the above, and based upon the Project Scope, PM's were created. In total, approximately 70+ PM's will be the final delivery. Presently, sixty-four PM's are now in place and have active Start-Dates.

IT MUST BE NOTED THAT "ONLY" MAINTENANCE TYPE PM'S WERE CREATED. THIS, IN NO WAY, COMPLETELY CLOSES THE GAP OF COMPLETE OPERATIONAL EXCELLANCE AND A 360 DEGREE ASSET MANAGEMENT STRATEGY.

At the present time I see no issues with progress of the project with exception of moving all identified Assets into CityWorks in their respective locations.

Please let me know if this

GEORGIA EMERGENCY MANAGEMENT AND HOMELAND SECURITY AGENCY

BRIAN P. KEMP
GOVERNOR



HOMER BRYSON
DIRECTOR

December 30, 2019

Mr. Andrew Burroughs
Deputy Director
Brunswick-Glynn Joint Water & Sewer Commission
1703 Gloucester Street
Brunswick, Georgia 31520

Dear Mr. Burroughs:

Thank you for submitting the Generator Pre-Application to the Georgia Emergency Management and Homeland Security Agency (GEMA/HS) for the Hazard Mitigation Grant Program (HMGP). We received many commendable projects which were reviewed and then prioritized due to the limited available funding. Your project proposal to purchase five (5) portable generators and sixty-seven (67) transfer switches for the Brunswick-Glynn County Joint Water-Sewer Authority meets the minimum federal standards and state mitigation priorities for HMGP funding.

The next phase in the HMGP process is to provide a full application to GEMA/HS. The application will be forwarded to you by your Hazard Mitigation Risk Reduction Specialist. This application needs to be received in our office by January 28, 2020 to be considered for FEMA funding. Please submit one original application and be sure to include all required attachments. The GEMA/HS staff will review and analyze information provided in the full application for funding consideration. Development of the full HMGP application does not guarantee funding.

I look forward to receiving your completed application. If you have any questions, please contact Kelsey Goodman, Hazard Mitigation Risk Reduction Supervisor, at (478) 977-7418.

Sincerely,

A handwritten signature in blue ink, appearing to read "Terry K. Lunn".

Terry K. Lunn
Hazard Mitigation Manager

KG/kb

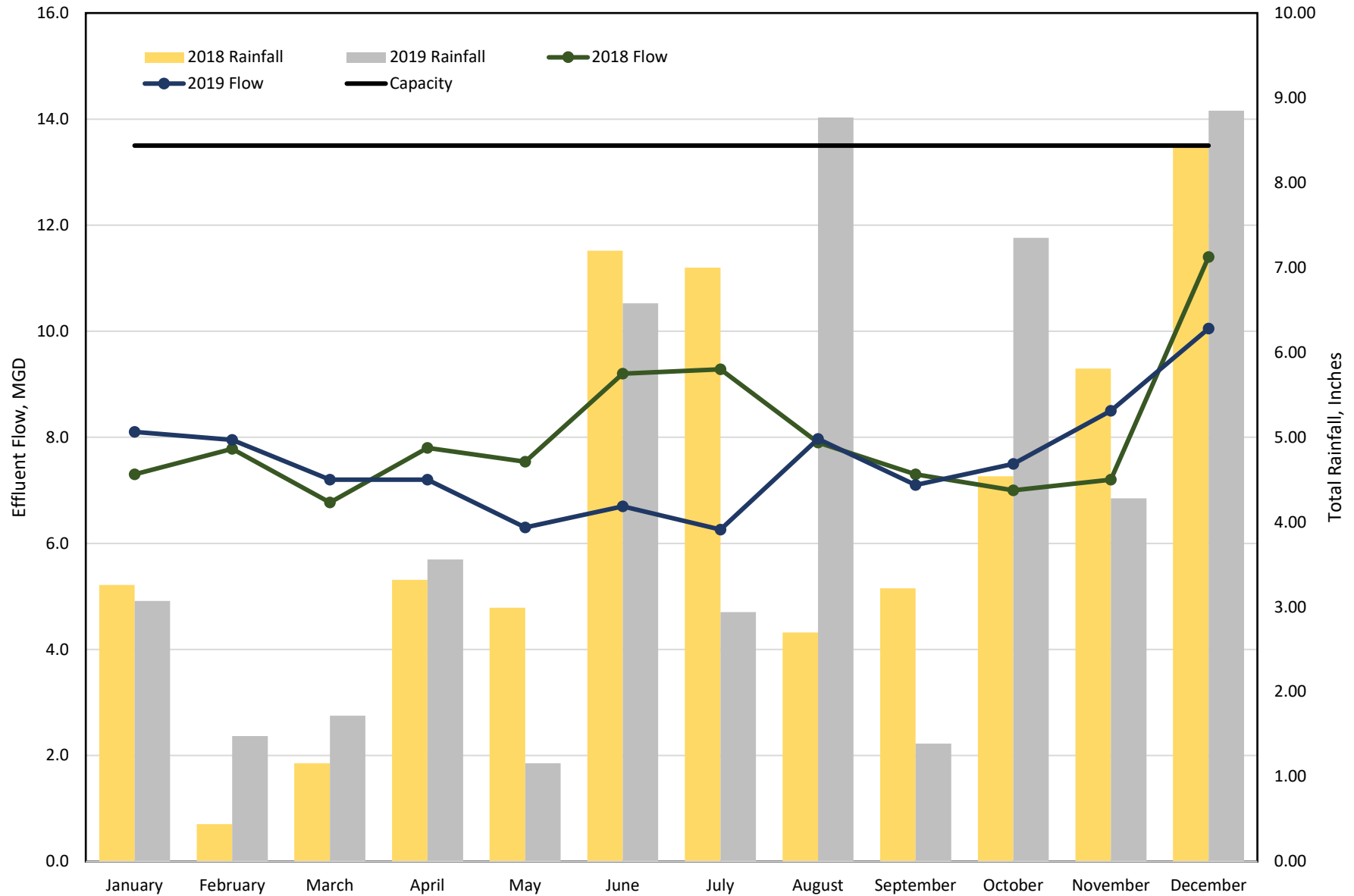
Enclosures

cc: Pam Crosby, Purchasing Director
Brunswick-Glynn Joint Water & Sewer Commission
Jay Wiggins, Director
Glynn County Emergency Management Agency
Kristen Higgs, Area Coordinator
Georgia Emergency Management Agency/Homeland Security

ACADEMY CREEK WWTP	FLOW (MGD)				Influent Concentrations					Effluent Concentrations							Removal Efficiency		Rainfall		Water Meter Monthly MGal	Sludge Tons to Landfill	
	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
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%	93.14%	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%	94.09%	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%	91.95%	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%	93.79%	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%	92.42%	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%	92.14%	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%	92.26%	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%	91.61%	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%	94.77%	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%	96.42%	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%	88.46%	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%	93.26%	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%	94.37%	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%	95.59%	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%	93.51%	1.83	3.56	0.890	93.13
May 2019	5.7	0.6	6.3	47%	7.5	246	251	31.0	15.0	6.5	5.3	11	9	11.7	0.04	55	10.8	95.53%	96.41%	0.66	1.16	0.900	86.50
June 2019	5.7	0.8	6.7	50%	7.4	251	230	27.2	9.4	6.6	6.0	10	11	10.7	0.10	23	3.7	96.02%	95.22%	1.68	6.58	0.800	100.71
July 2019	5.3	0.8	6.3	46%	7.4	216	237	32.3	12.2	6.6	6.0	7	10	14.9	0.05	29	7.8	96.76%	95.78%	0.88	2.94	0.500	26.74
August 2019	6.7	0.9	8.0	59%	7.3	195	215	37.5	7.8	6.9	5.8	8	11	21.3	0.01	19	6.4	95.90%	94.88%	2.15	8.77	0.951	75.13
September 2019	6.3	0.6	7.1	53%	7.5	175	210	31.9	1.9	6.6	6.0	6	9	17.3	0.10	26	1.2	96.57%	95.71%	0.94	1.39	0.445	81.77
October 2019	6.3	1.0	7.5	56%	7.5	180	177	21.4	5.8	6.5	6.0	9	14	11.6	0.02	66	3.6	95.00%	92.09%	2.80	7.35	0.571	61.88
November 2019	7.6	0.8	8.5	63%	7.4	191	223	17.1	12.2	6.6	5.1	10	16	9.5	0.12	104	5.3	94.76%	92.83%	2.45	4.28	0.610	55.00
December 2019	8.9	0.8	10.1	74%	7.5	182	204	13.6	20.0	6.6	6.6	10	16	7.3	0.04	153	9.6	94.51%	92.16%	4.39	8.85	0.520	
Average	6.9	0.7	7.8	58%	7.5	183.1	199	22.6	9.31	6.6	6.2	8.4	12.0	9.0	0.04	38	4.9	95.32%	93.63%	1.62	4.22	0.542	75.88
Max	10.0	1.0	11.4	84%	7.9	258.0	335	37.5	20.0	6.9	7.1	11.0	16.0	21.3	0.12	182	10.8	96.76%	96.42%	4.39	8.85	0.951	114.16
Min	5.3	0.5	6.3	46%	7.2	121.0	130	13.1	1.90	6.5	5.1	6.0	9.0	2.7	0.01	1	1.2	92.56%	88.46%	0.30	0.44	0.149	26.74
Permit Limits	N/A	N/A	13.5	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

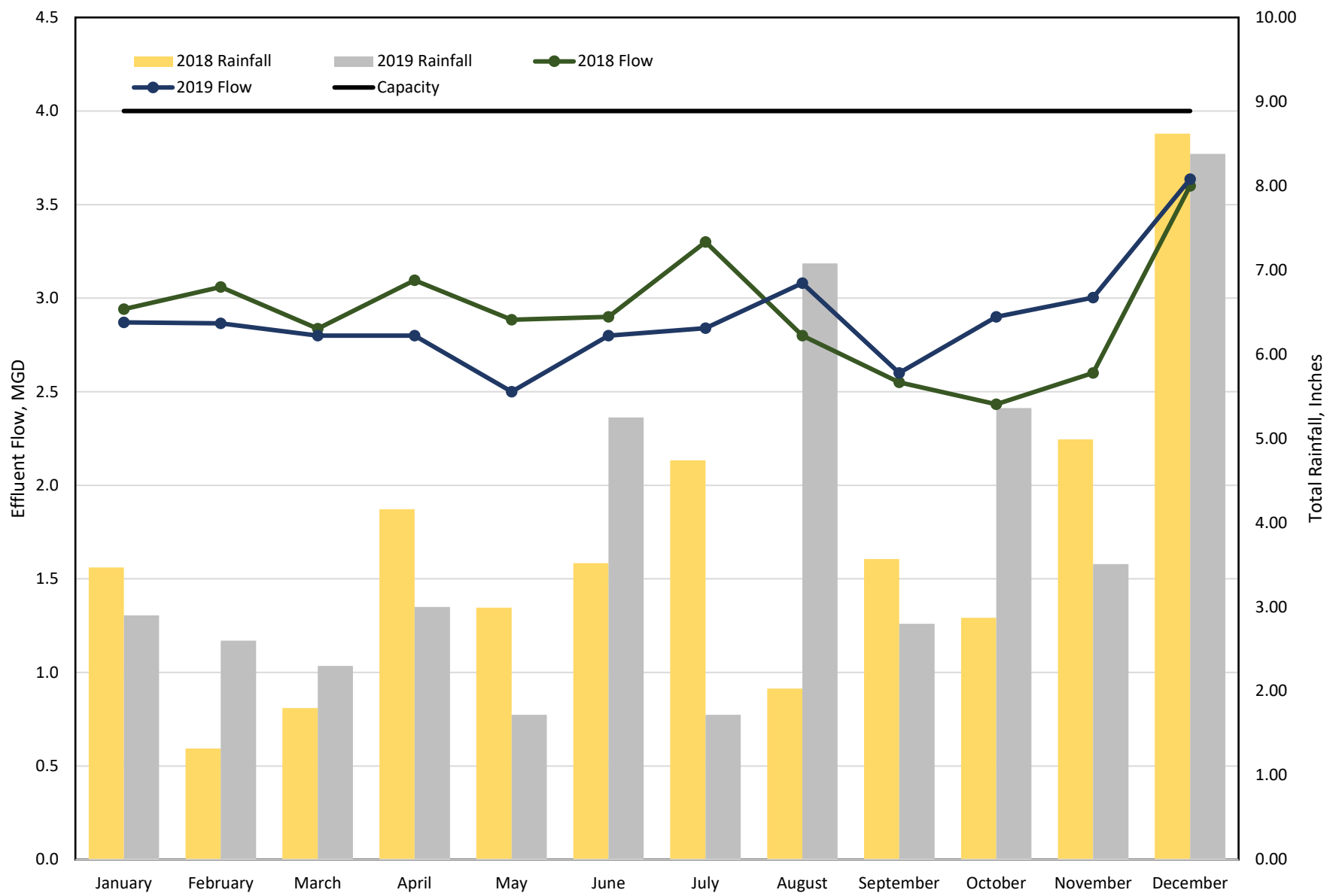
Academy Creek Effluent Flow



DUNBAR CREEK WWTP	FLOW (MGD)			Influent Concentrations					Effluent Concentrations						Removal Efficiency		Rainfall		Water Meter Monthly M/Gal	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	Entero. #/100 mL	Phos. mg/L	BOD %	TSS %	Maximum Inches			Total Inches
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%	0.90	3.00	0.037	26.76
May 2019	3.4	2.5	63%	7.2	206	237	35.3	5.30	7.5	7.2	2.0	3.1	0.5	3	3.0	99.03%	98.69%	0.98	1.72	0.035	21.03
June 2019	3.7	2.8	70%	7.3	189	267	22.0	4.80	7.5	7.4	2.0	2.5	0.5	5	3.3	98.94%	99.06%	1.62	5.25	0.043	4.52
July 2019	3.6	2.8	71%	7.3	219	274	21.4	4.25	7.3	7.3	3.0	1.6	0.7	5	3.8	98.63%	99.40%	1.04	1.72	0.045	21.36
August 2019	3.9	3.1	77%	6.9	168	193	34.1	4.20	7.3	8.0	3.0	2.3	0.7	26	3.3	98.21%	98.83%	1.91	7.08	0.065	41.48
September 2019	3.2	2.6	65%	6.9	159	245	24.3	2.15	7.1	8.1	3.0	4.0	0.9	33	2.4	98.11%	98.37%	0.90	2.80	0.015	7.16
October 2019	2.7	2.9	73%	6.9	165	188	31.8	3.50	6.9	8.1	2.0	2.2	0.4	20	2.7	98.79%	98.83%	1.93	5.36	0.036	21.06
November 2019	2.9	3.0	75%	6.8	149	155	23.9	3.35	7.0	8.6	2.0	3.0	0.3	3	2.5	98.66%	98.06%	2.32	3.51	0.016	11.19
December 2019	3.4	3.6	91%	7.0	140	164	18.3	3.20	7.3	8.8	2.0	2.5	0.2	11	2.2	98.57%	98.48%	4.01	8.38	0.038	19.03
Average	3.4	2.9	73%	7.2	159.0	170.6	23.7	3.56	7.4	8.0	2.3	2.1	0.6	16	2.6	98.49%	98.73%	1.4	3.8	0.039	18.89
Max	4.4	3.6	91%	7.5	219.0	274.0	35.3	5.30	7.8	9.0	6.0	4.0	1.6	48	3.8	99.48%	99.40%	4.0	8.6	0.070	41.48
Min	2.6	2.4	61%	6.8	98.0	114.0	14.5	2.15	6.9	6.6	1.0	1.0	0.1	3	1.4	95.97%	97.67%	0.6	1.3	0.015	4.52
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

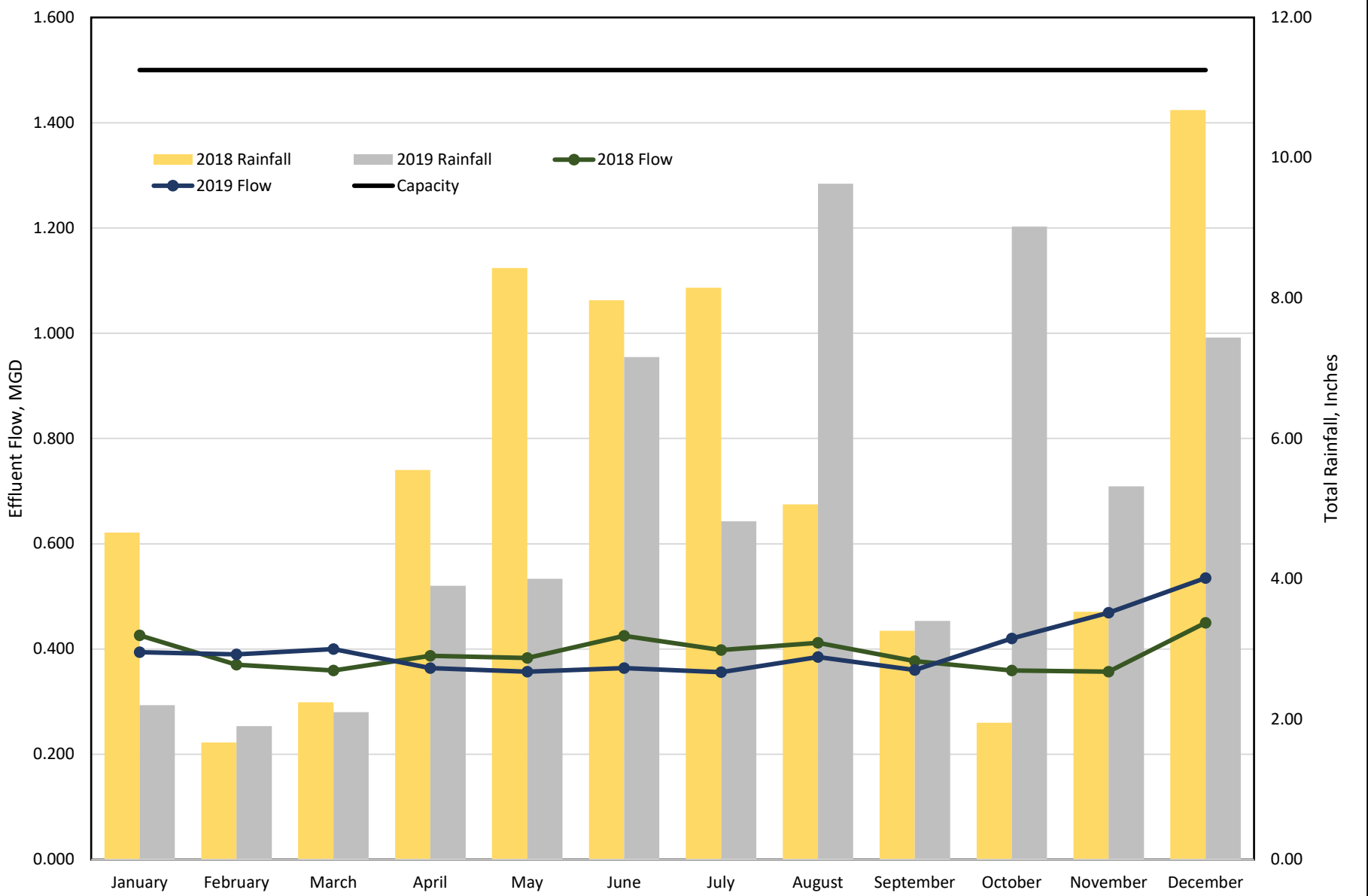
Dunbar Creek Effluent Flow



SOUTHPORT WWTP	FLOW (MGD)			Influent Concentrations					Effluent Concentrations						Removal Efficiency		Rainfall		Water Meter Monthly M/Gal	Sludge Tons to Landfill		
	Month	INF	EFF	% Cap.	pH	BOD	TSS	NH3	Phos	pH	D.O.	BOD	TSS	NH3	Fecal	Phos.	BOD	TSS			Maximum	Total
					s.u.	mg/L	mg/L	mg/L	mg/L	s.u.	mg/L	mg/L	mg/L	mg/L	#/100 mL	mg/L	%	%			Inches	Inches
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	4.40	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	3.15	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	5.00	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	3.80	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	4.10	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	4.45	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	1.60	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	3.70	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%	6.8	113	78	30.8	3.95	7.7	8.3	6.0	2.0	0.8	4	1.0	94.69%	97.44%	0.13	3.90	0.008	5.35	
May 2019	0.350	0.357	24%	6.9	121	92	40.2	4.40	7.3	8.0	5.8	4.7	0.6	5	0.7	95.21%	94.89%	1.68	4.00	0.007	3.56	
June 2019	0.358	0.364	24%	6.8	98	124	27.9	3.80	7.2	6.6	4.0	5.0	0.3	4	0.7	95.92%	95.97%	1.26	7.16	0.006	5.25	
July 2019	0.361	0.356	24%	6.8	110	93	27.0	4.00	7.3	7.9	8.0	5.0	0.6	12	1.1	92.73%	94.62%	1.45	4.82	0.009	4.19	
August 2019	0.369	0.385	26%	6.7	117	127	45.0	4.45	7.2	8.4	5.7	7.1	0.7	23	0.8	95.13%	94.41%	2.42	9.63	0.012	1.90	
September 2019	0.362	0.360	24%	6.9	96	75	36.3	2.80	7.4	7.8	5.0	3.0	0.6	23	1.4	94.79%	96.00%	1.20	3.40	0.022	3.87	
October 2019	0.363	0.420	28%	6.8	103	109	31.8	3.45	7.3	7.6	4.0	2.0	0.4	49	1.4	96.12%	98.17%	2.52	9.02	0.045	3.54	
November 2019	0.397	0.469	31%	6.7	108	99	33.2	4.00	6.8	8.1	4.5	4.6	0.4	6	1.0	95.87%	95.35%	4.46	5.32	0.035	9.83	
December 2019	0.456	0.535	36%	6.7	94	116	19.1	2.90	6.9	8.3	3.0	7.0	0.7	7	0.4	96.81%	93.97%	3.83	7.44	0.025	5.65	
Average	0.377	0.396	26%	6.9	122.3	125.2	29.9	3.63	7.2	8.2	4.4	4.6	1.0	13	0.7	96.30%	96.07%	1.8	5.2	0.013	5.10	
Max	0.456	0.535	36%	7.5	166.0	375.7	45.0	5.00	7.9	9.0	8.0	8.5	6.0	65	1.5	97.65%	99.20%	4.5	10.7	0.045	9.83	
Min	0.350	0.356	24%	6.6	94.0	75.0	19.1	1.20	6.8	6.6	3.0	2.0	0.1	3	0.1	92.73%	93.51%	0.1	1.7	0.004	1.90	
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

Southport Effluent Flow



PROJECT REPORT

Financial Data as of 12-31-2019

Proj #	Project Name	Original Project Estimate	Project Manager	Concept Design	Detail Design	Construction	BOC APPROVED FUNDING & SOURCE				COMMITTED					BUDGET VS. EXPENDITURES				Uncommitted \$\$\$ (App Fund - Exp)	% Approved Budget Available	Status
							R&R Reserve	CIF Reserve	SPLST	Total Approved Funds	Purchase Orders Issued	BOC Approved Change Orders	Total PO+CO	Expenditures Paid to PO's	Remaining Encumbrances	Expenditures Misc.	Total Expenditures	BALANCE				
232	SR-99 Water Main Extension	\$2,200,000	Kline/Patel/Vo	EMC	RGA / EMC	Seaboard	\$0	\$2,200,000	\$0	\$2,200,000	\$1,263,167	\$673,667	\$1,936,834	\$1,480,167	\$385,975	\$282,572	\$2,148,714	\$51,286	2.33%	GDOT approved JWSC redlines on 10/09/2019. Remobilization conference call w/ Contractor held 01/09/2020. Contractor to mobilize and commence work on 01/20/2020.		
417	Ridgewood Water Production Facility	\$1,000,000	Kline/Vo	JWSC	RGA	TBD	\$1,650,000	\$0	\$0	\$1,650,000	\$107,366	\$0	\$107,366	\$35,175	\$72,191	\$65,943	\$173,309	\$1,476,691	89.50%	Project Advertised 10/25/2019, Prebid held 11/13/2019, and Bid Opened 12/10/2019. The apparent low bidder is Southern Civil, LLC for the amount of \$1,473,532.00. Preconstruction meeting scheduled for 01/29/2020.		
702	North Mainland Sewer Improvements	\$14,900,000	Kline/Vo	JWSC/ EMC	T&H	TBD	\$0	\$11,700,000	\$3,200,000	\$14,900,000	\$7,184,822	\$293,423	\$7,478,245	\$5,093,340	\$2,389,027	\$0	\$7,482,367	\$7,417,633	49.78%	Construction progress meeting held on 01/02/2020. The CIPP schedule has been discussed with the Contractor and the Contractor is making every effort to meet the schedule. Time extension to the contract may be		
703	PS 4003 Decommission and Gravity Sewer	\$3,300,000	Kline/Patel/Vo	JWSC	HGB	TBD	\$0	\$0	\$3,300,000	\$3,300,000	\$248,599	\$0	\$248,599	\$133,648	\$167,452	\$3,588	\$304,688	\$2,995,312	90.77%	EOR finalizing structural and electrical plans. Civil Plans under JWSC review. Bid Docs in progress.		
704	Canal Road to Glynco 12-inch Watermain Loop	\$1,200,000	Kline/Patel/Vo	JWSC	JWSC	TBD	\$0	\$1,200,000	\$0	\$1,200,000	\$48,000	\$0	\$48,000	\$48,000	\$0	\$0	\$48,000	\$1,152,000	96.00%	Conceptual design exhibit complete. Survey RFP Draft under review.		
801	FEMA Hazard Mitigation-Academy Creek	\$3,188,000	Burroughs	Haggerty	TBD	TBD	\$3,188,000	\$0	\$0	\$3,188,000	\$37,233	\$0	\$37,233	\$31,408	\$0	\$128,589	\$159,997	\$3,028,003	94.98%	Bid package being prepared for transfer switch installation and portable generator purchase.		
804	Magnolia Water Improvements (City of Brunswick)	\$1,150,000	Kline/Vo	JWSC	City of BWK / EMC	TBD	\$1,150,000	\$0	\$0	\$1,150,000	\$117,050	\$0	\$117,050	\$55,300	\$61,750	\$0	\$117,050	\$1,032,950	89.82%	City Project/contract. City advertised 12/04/2019, Prebid scheduled held 12/17/2019 and anticipated Bid Open 01/21/2020.		
805	L Street Water Improvements (City of Brunswick)	\$650,000	Kline/Vo	JWSC	City of BWK / EMC	Georgia Asphalt Producers	\$787,334	\$0	\$0	\$787,334	\$755,884	\$6,226	\$762,110	\$411,007	\$351,104	\$0	\$762,111	\$25,223	3.20%	City Project/Contract. Construction Progress meeting held 12/31/2019. Ph-1 estimated completion date 03/21/2020 and Ph-2&3 schedule to be provided towards the end of Ph-1.		
806	Academy Creek Oxygen System Rehab	\$1,040,000	Burroughs	HGB	HGB	A&G / Matheson	\$1,040,000	\$0	\$0	\$1,040,000	\$1,038,698	\$0	\$1,038,698	\$1,006,882	\$31,816	\$0	\$1,038,698	\$1,302	0.13%	Awaiting final invoicing.		
903	SR 27 Resurfacing Yellow Bluff Creek to US 25 (GDOT)	\$77,000	Kline/Vo	JWSC/GDOT	GDOT	GDOT	\$102,000	\$0	\$0	\$102,000	\$101,929	\$0	\$101,929	\$0	\$0	\$101,929	\$101,929	\$71	0.07%	Seaboard Construction LLC mobilized to the project site on 09/19/2019. The mainline milling & resurfacing activities is on-going and expected to be completed by end of February 2020.		
904	Pumpstation 4021 Rehabilitation & Upgrade	\$275,000	Kline/Patel	JWSC	JWSC	TBD	\$0	\$275,000	\$0	\$275,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$275,000	100.00%	Design revision to utilize triplex draft plans complete. Electrical plans complete. Bid Docs complete. Advertising scheduled for 01/14/2020		
906	Water Pollution Rehab-Academy & Dunbar	\$15,000,000	Burroughs	JWSC	GMC	TBD	\$0	\$0	\$1,480,647	\$16,641,306	\$1,181,150	\$0	\$1,181,150	\$345,366	\$969,116	\$74,249	\$1,240,233	\$15,401,073	92.55%	60% Design Completed. Comments Returned to GMC. GEFA Loan to be approved by both City and County week of 1/14/20. Modeling completed by DWG Associates.		
2001	PS4105 Basin Expansion/Forcemain reroute & CIPP*	\$1,485,000	Burroughs/Kline/Vo	JWSC	RCE	TBD	\$1,000,000	\$485,000	\$0	\$1,485,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,485,000	100.00%	Engineering kickoff held 10/08/2019 with design time 120 days. Pending on 30% Design submittal for review.		
2002	Altama Avenue CIPP	\$625,000	Burroughs/Kline/Vo	JWSC	JWSC	IPR Southeast	\$625,000	\$0	\$0	\$625,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$625,000	100.00%	Preconstruction Meeting 1/17/20		
2003	Sea Palms CIPP	\$561,795	Burroughs/Kline/Vo	JWSC	JWSC	IPR Southeast	\$0	\$0	\$561,795	\$561,795	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$561,795	100.00%	Preconstruction Meeting 1/17/20		
2004	Mainland Smoke Testing	\$325,000	Zettler	JWSC	N/A	P.U.M.P.S.	\$325,000	\$0	\$0	\$325,000	\$231,649	\$0	\$231,649	\$0	\$231,649	\$0	\$231,649	\$93,351	28.72%	Midnight investigation completed and draft report submitted to PM for review 01/06/2020.		
2005	Coastal Club Apts. Offsite PS & FM Improvements*	\$228,000	Kline/Vo	JWSC	Roberts Civil Engineering	TBD	\$0	\$0	\$0	\$228,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$228,000	100.00%	30% design submittal recieved 12/20/2019 and review comments returned to EOR 01/03/2020.		
2006	Academy Creek Roof Repair	\$300,000	Burroughs/Hopkins	JWSC	JWSC	TBD	\$300,000	\$0	\$0	\$300,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300,000	100.00%	Bids Due 1/14/20. Recommendation to Commission in February.		
2007	Bergen Woods Offsite Forcemain Improvements*	\$232,000	Kline/Vo	JWSC	Roberts Civil Engineering	TBD	\$0	\$0	\$0	\$232,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$232,000	100.00%	GDOT review complete. Secondary EPD submittal required. Awaiting EOR for packet preparation. Anticipates project advertisement by end of January 2020.		
2008	East Beach/Demere W&S Improvements (Glynn County)	\$100,000	Kline/Vo	JWSC	TBD	TBD	\$100,000	\$0	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$100,000	100.00%	Glynn County scheduled to receives construction bids 12/16/2019. JWSC Legal working on MOU.		
TOTALS							\$10,267,334	\$15,860,000	\$8,542,442	\$50,290,435	\$12,315,547	\$973,316	\$13,288,863	\$8,640,293	\$4,660,080	\$508,372	\$13,808,745	\$36,481,690	72.54%			

UNSELECTED PROPOSALS*	DESCRIPTION	Concept	Application	Preliminary Engineering	Comprehensive Agreement	STATUS
Sinclair S/D residential development (SSI)	121 Lot S/D; proposed improvements to PS2056 and force main.	Complete	Complete	Complete	Complete May 2018	Pending developer action.
Bergen Woods Apartments	Proposed 252 apartment development and force main improvements.	Complete	Complete	Complete	Complete August 2018	Plans in EPD and GDOT review.
Frederica Township	Downstream upgrades to accommodate 200 additional lots; cooperative w/ Sinclair U.P.	Complete	Complete	Complete	Complete August 2018	Pending developer action.
Oak Grove/Carolina Partners	Force main improvements to serve proposed development on Oak Grove Island.	Complete	Complete	Complete	Complete February 2019	Pending developer action; submittal of 30% design plans.
Saddlebrook Subdivision / Wade Journey Homes	Improve PS4105 sewer capacity for the addition of 41 new homes	Complete	Complete	Complete	Complete May 2019	EOR working on 30% design plans.
Coastal Club Apartments (link to Proj 904)	Improve PS4056 & 4059 for proposed 240 unit apt. complex 3061 Old Cypress Mill Rd.	Complete	Complete	Complete	Complete September 2019	EOR working on 30% design plans.
Boomers Bakery (fmr. Pumpkin Patch) W& FM extension	Extend W&S from Friendly Exp #71 to 341; obtain easement	On hold				Pending developer decision to move forward.
BULL PEN (Proposed)						
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; Glynn Co. proposed SPLST 2020.					
JWSC 2020 SPLST projects	Proposed list submitted to Glynn County grouped by funding levels.					

